The Weblate Manual

□□□□ 4.9

Michal Čihař

2021□11□10□

Weblate [illegible]

[illegible]

Weblate [illegible]
1 [illegible]: *GNU gettext* [illegible] *Android string resources*[illegible]1
[illegible]

[illegible]
Component configuration [illegible]

[illegible]:

../devel/integration

[illegible]

[illegible]

[illegible]

[illegible]:

1. [illegible]
2. [illegible]
3. [illegible]

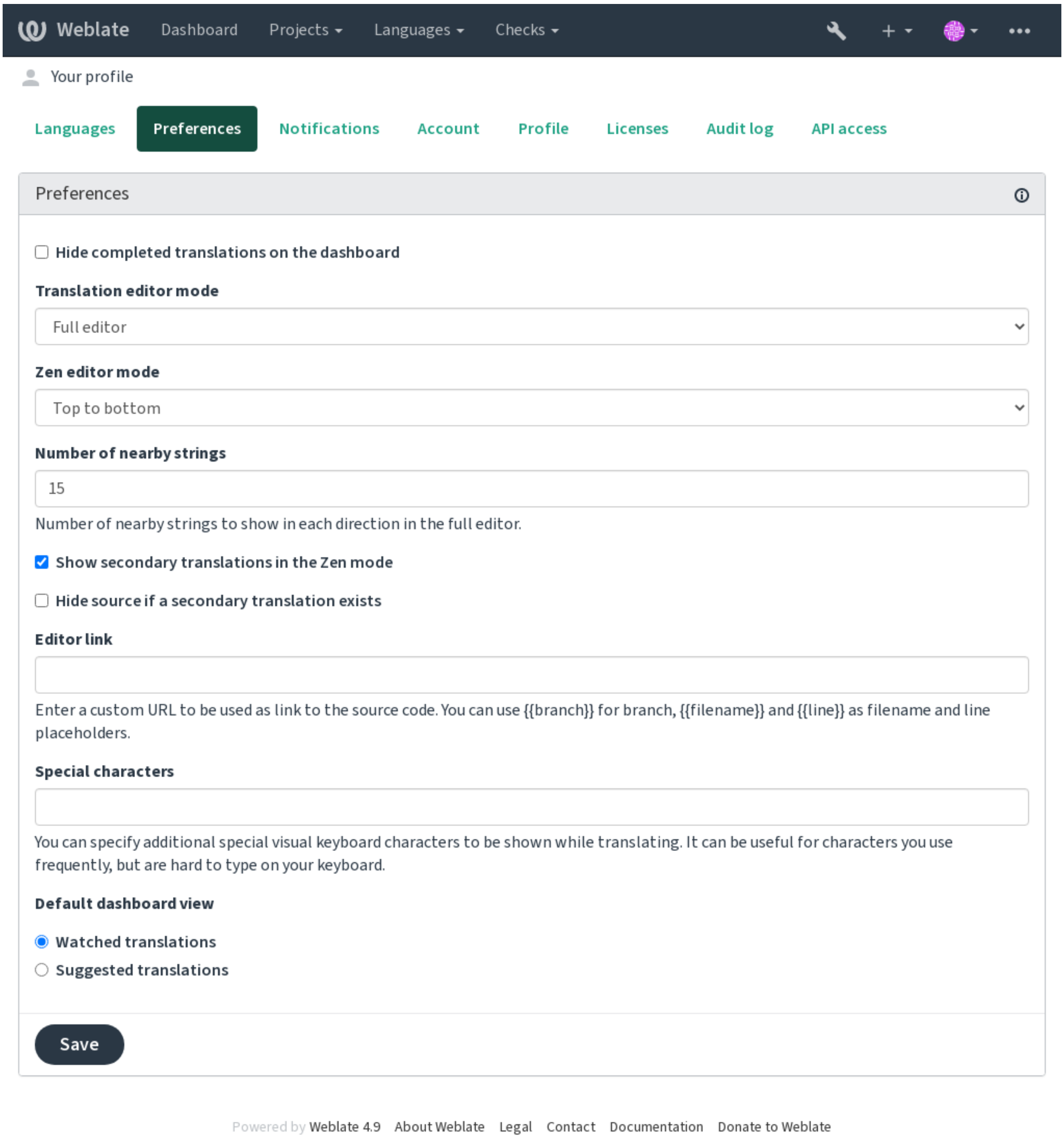
[illegible]

[illegible]

[illegible] 2.5 [illegible].

[illegible]

[illegible]: [illegible] [illegible]



[illegible]:

[illegible] *[illegible]* > *[illegible]* [illegible]Weblate [illegible]

[illegible] *[illegible]* [illegible]

[illegible] *[illegible]* [illegible]

[illegible]Weblate [illegible] *[illegible]* [illegible]: *[illegible]*

[illegible] *[illegible]* [illegible]

[illegible]: settings.py [illegible]: *[illegible]* *SINGLE_PROJECT* [illegible] Weblate [illegible]

[illegible]

[illegible] [illegible]/[illegible] [illegible]
[illegible]VCS [illegible]

[illegible]: [illegible]

[illegible]: [illegible]

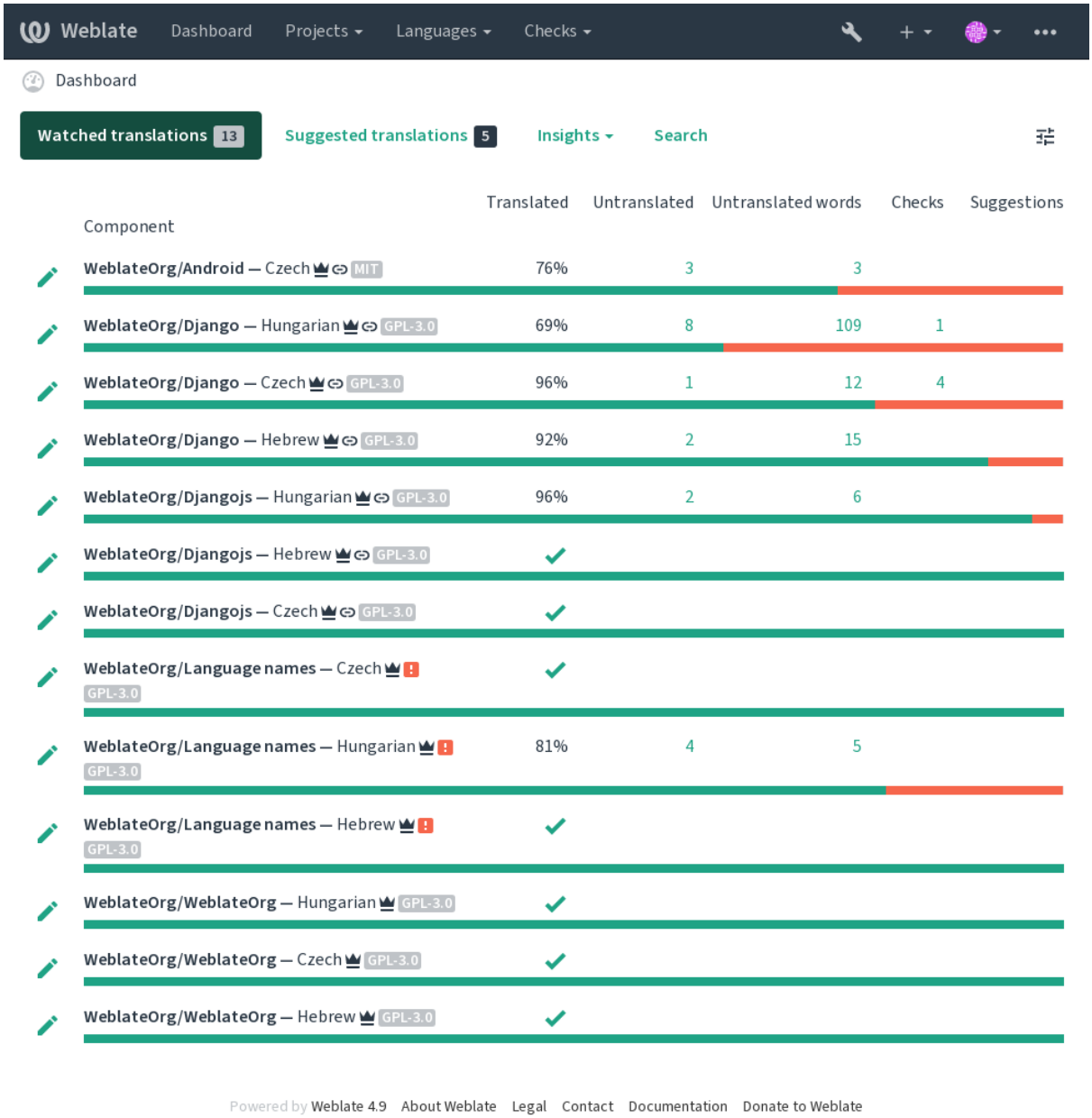
[illegible]

[illegible]

UI [illegible]

[illegible]

[illegible] [illegible]


Weblate
Dashboard
Projects
Languages
Checks
Dashboard
Watched translations 13
Suggested translations 5
Insights
Search
Component
Translated
Untranslated
Untranslated words
Checks
Suggestions
WeblateOrg/Android — Czech MIT 76% 3 3
WeblateOrg/Django — Hungarian GPL-3.0 69% 8 109 1
WeblateOrg/Django — Czech GPL-3.0 96% 1 12 4
WeblateOrg/Django — Hebrew GPL-3.0 92% 2 15
WeblateOrg/Djangojs — Hungarian GPL-3.0 96% 2 6
WeblateOrg/Djangojs — Hebrew GPL-3.0
WeblateOrg/Djangojs — Czech GPL-3.0
WeblateOrg/Language names — Czech GPL-3.0
WeblateOrg/Language names — Hungarian GPL-3.0 81% 4 5
WeblateOrg/Language names — Hebrew GPL-3.0
WeblateOrg/WeblateOrg — Hungarian GPL-3.0
WeblateOrg/WeblateOrg — Czech GPL-3.0
WeblateOrg/WeblateOrg — Hebrew GPL-3.0
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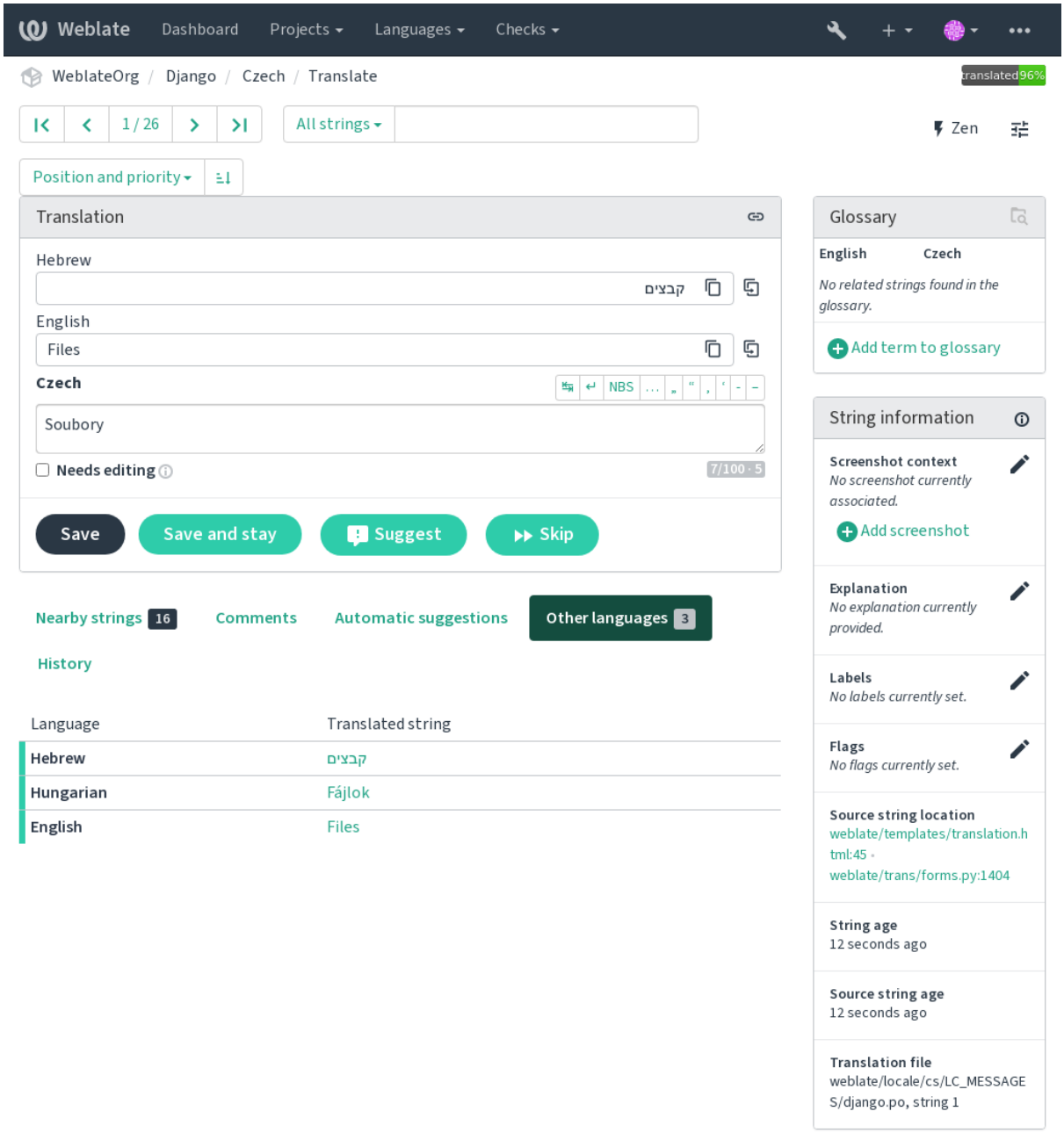
??:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech / Translate
translated 96%
1 / 26
All strings
Zen
Position and priority
Translation
Hebrew
קבצים
English
Files
Czech
NBS
Soubory
Needs editing
7/100 · 5
Save
Save and stay
Suggest
Skip
Nearby strings 16
Comments
Automatic suggestions
Other languages 3
History
Language
Translated string
Hebrew
קבצים
Hungarian
Fájlok
English
Files
Glossary
English
Czech
No related strings found in the glossary.
Add term to glossary
String information
Screenshot context
No screenshot currently associated.
Add screenshot
Explanation
No explanation currently provided.
Labels
No labels currently set.
Flags
No flags currently set.
Source string location
weblate/templates/translation.html:45 • weblate/trans/forms.py:1404
String age
12 seconds ago
Source string age
12 seconds ago
Translation file
weblate/locale/cs/LC_MESSAGES/django.po, string 1
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[illegible]

[illegible]

[illegible] [illegible] *[illegible]* *[illegible]* [illegible] *[illegible]* *[illegible]* [illegible]

[illegible]:

[illegible]

[illegible]

[illegible] *Component configuration* [illegible] Web [illegible]

[illegible]: *[illegible]* *[illegible]* [illegible] VCS [illegible] *[illegible]* [illegible]

[illegible] `editor://open/?file={{filename}}&line={{line}}` [illegible]

[illegible]:

[illegible] URL [illegible] Nette documentation [illegible]

[illegible]

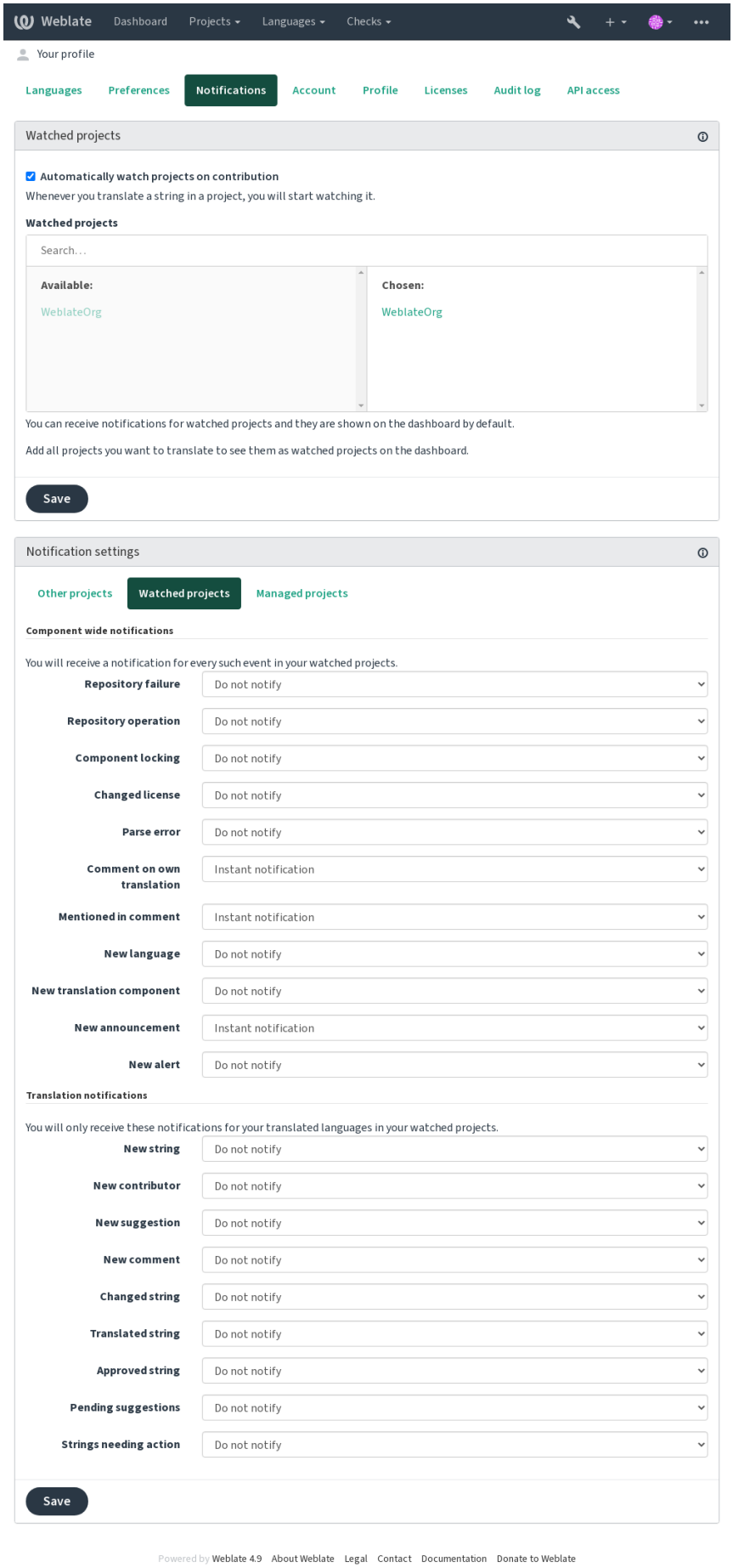
[illegible] [illegible]

[illegible]: [illegible] 2 [illegible]

[illegible]

[illegible] [illegible] *DEFAULT_AUTO_WATCH* [illegible]

[illegible]: [illegible]


Weblate
Dashboard
Projects
Languages
Checks
Your profile
Languages
Preferences
Notifications
Account
Profile
Licenses
Audit log
API access
Watched projects
Automatically watch projects on contribution
Whenever you translate a string in a project, you will start watching it.
Watched projects
Search…
Available:
WeblateOrg
Chosen:
WeblateOrg
You can receive notifications for watched projects and they are shown on the dashboard by default.
Add all projects you want to translate to see them as watched projects on the dashboard.
Save
Notification settings
Other projects
Watched projects
Managed projects
Component wide notifications
You will receive a notification for every such event in your watched projects.
Repository failure
Repository operation
Component locking
Changed license
Parse error
Comment on own translation
Mentioned in comment
New language
New translation component
New announcement
New alert
Do not notify
Instant notification
Translation notifications
You will only receive these notifications for your translated languages in your watched projects.
New string
New contributor
New suggestion
New comment
Changed string
Translated string
Approved string
Pending suggestions
Strings needing action
Save
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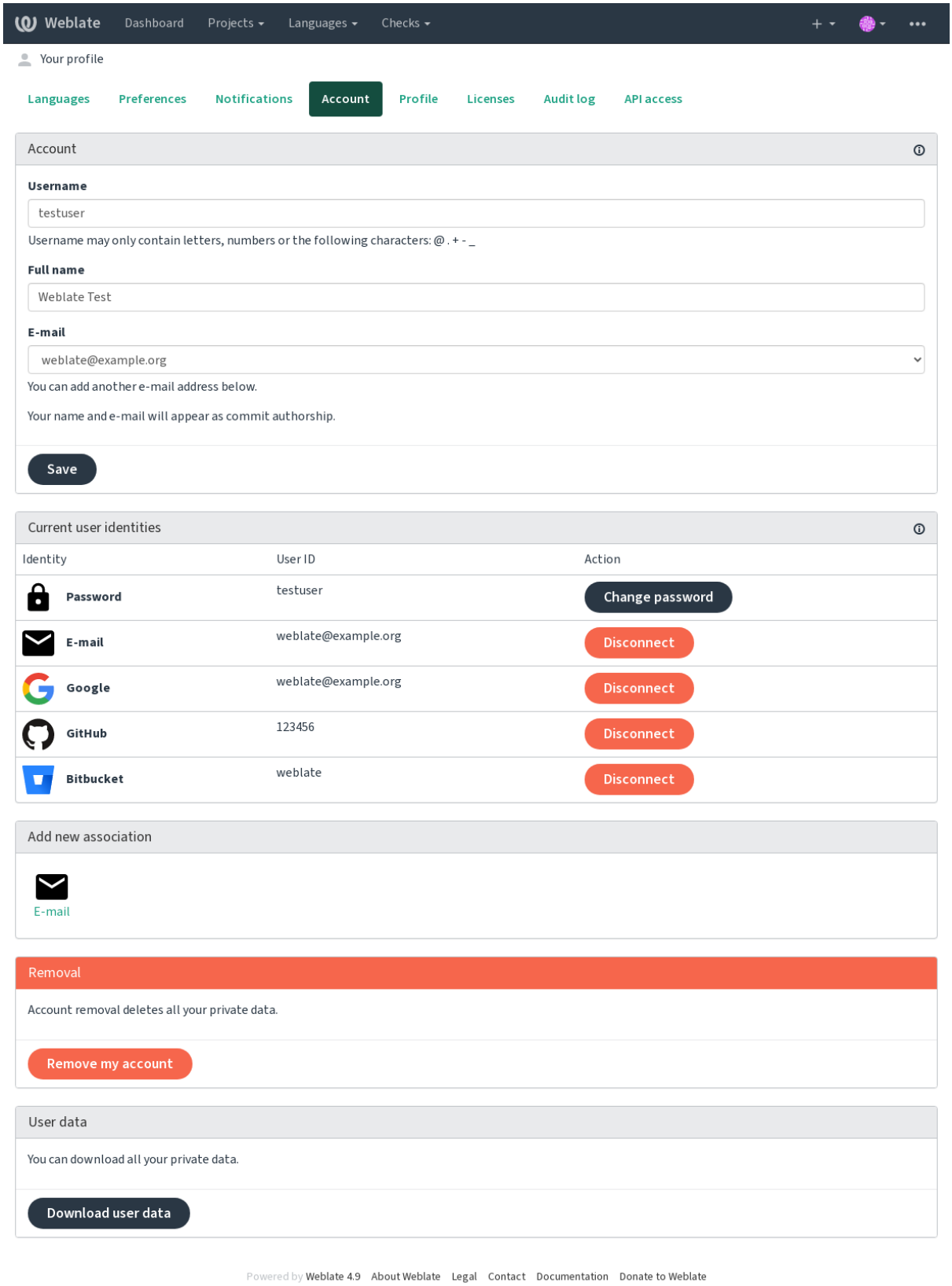
[illegible]

[illegible] [illegible]Weblate [illegible]: *Weblate [illegible] [illegible]*[illegible]

[illegible]: [illegible] Weblate [illegible] GitLab [illegible] GitHub[illegible]Google[illegible]Facebook[illegible]Bitbucket [illegible] OAuth 2.0 [illegible]


Weblate
Dashboard
Projects
Languages
Checks
Your profile
Languages
Preferences
Notifications
Account
Profile
Licenses
Audit log
API access
Account
Username
testuser
Username may only contain letters, numbers or the following characters: @ . + - _
Full name
Weblate Test
E-mail
weblate@example.org
You can add another e-mail address below.
Your name and e-mail will appear as commit authorship.
Save
Current user identities
Identity
User ID
Action
Password
testuser
Change password
E-mail
weblate@example.org
Disconnect
Google
weblate@example.org
Disconnect
GitHub
123456
Disconnect
Bitbucket
weblate
Disconnect
Add new association
E-mail
Removal
Account removal deletes all your private data.
Remove my account
User data
You can download all your private data.
Download user data
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[illegible]

[illegible]*ENABLE_AVATARS* [illegible] https://gravatar.com/ [illegible]

[illegible]

API [illegible]

API [illegible] [illegible]

[illegible]

[illegible]IP [illegible]

[illegible]:

[illegible] [illegible]

Weblate [illegible]

Weblate [illegible]

[illegible]2 [illegible]:

[illegible]

[illegible]

[illegible]*[illegible]* [illegible]

[illegible]:

[illegible]

[illegible]

[illegible]:

[illegible]

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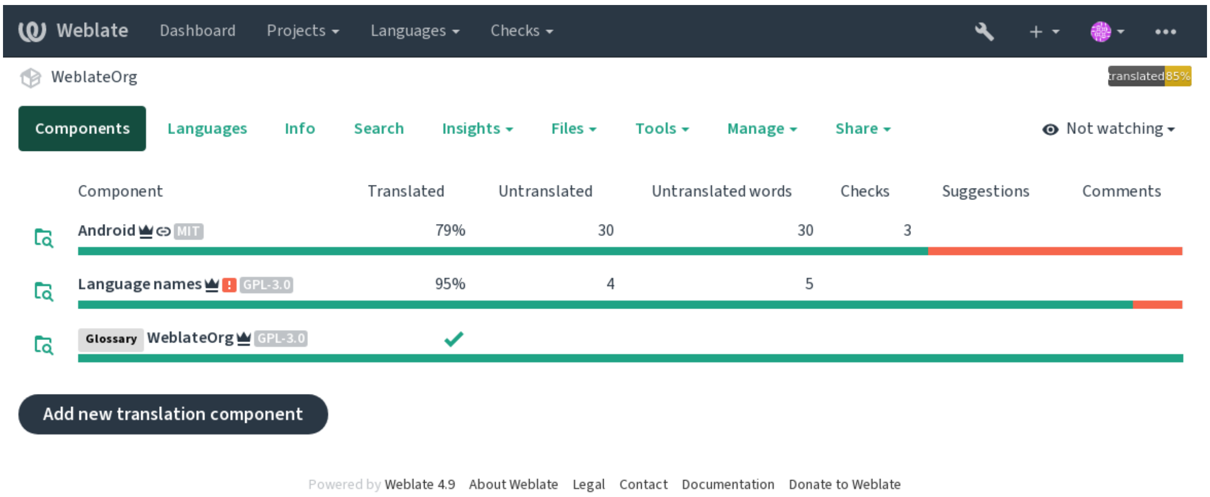
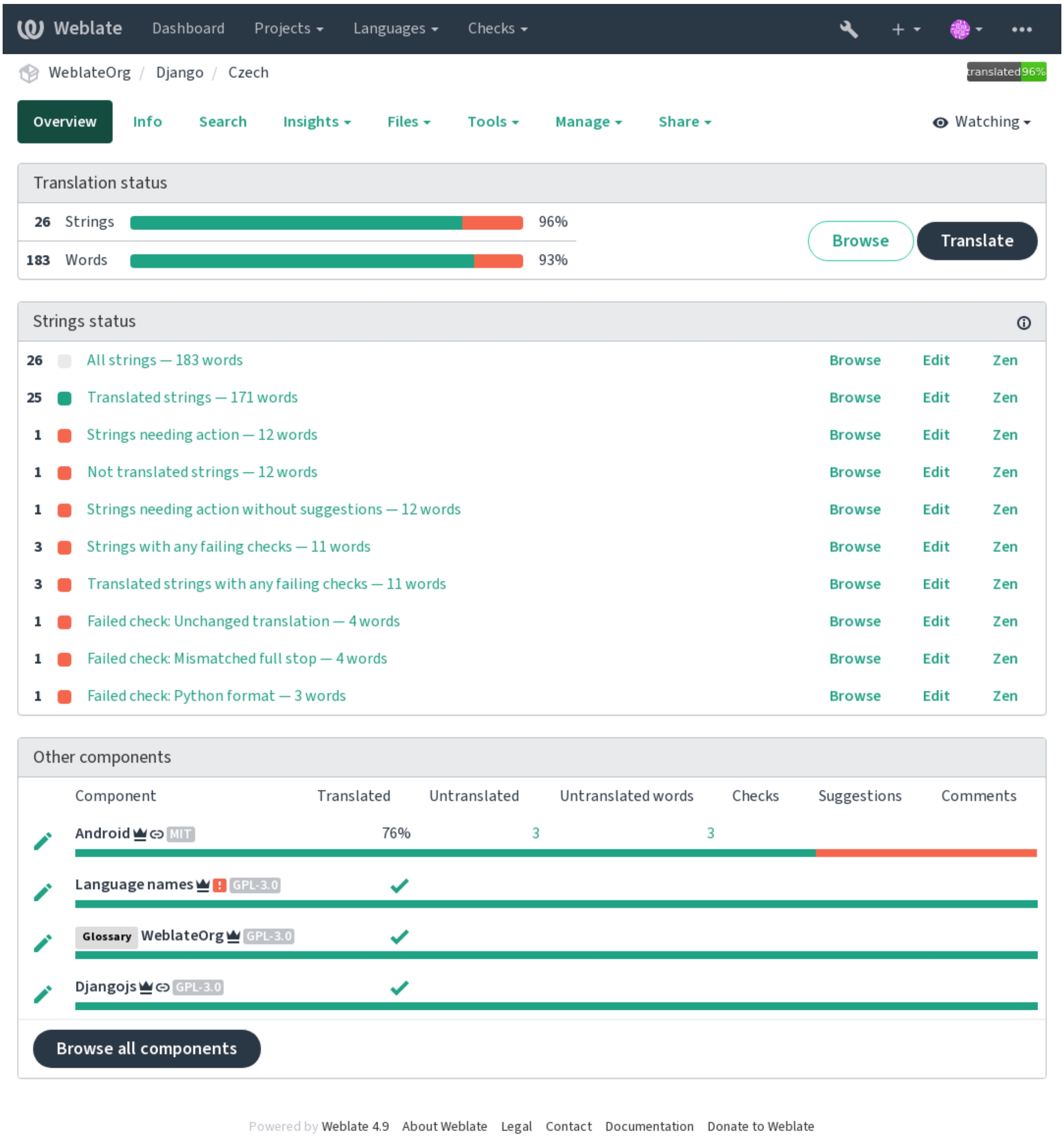
[illegible]



[illegible]

[illegible]


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech
translated 96%
Overview
Info
Search
Insights
Files
Tools
Manage
Share
Watching
Translation status
26 Strings 96%
183 Words 93%
Browse
Translate
Strings status
26 All strings — 183 words Browse Edit Zen
25 Translated strings — 171 words Browse Edit Zen
1 Strings needing action — 12 words Browse Edit Zen
1 Not translated strings — 12 words Browse Edit Zen
1 Strings needing action without suggestions — 12 words Browse Edit Zen
3 Strings with any failing checks — 11 words Browse Edit Zen
3 Translated strings with any failing checks — 11 words Browse Edit Zen
1 Failed check: Unchanged translation — 4 words Browse Edit Zen
1 Failed check: Mismatched full stop — 4 words Browse Edit Zen
1 Failed check: Python format — 3 words Browse Edit Zen
Other components
Component Translated Untranslated Untranslated words Checks Suggestions Comments
Android MIT 76% 3 3
Language names GPL-3.0
Glossary WeblateOrg GPL-3.0
Djangojs GPL-3.0
Browse all components
Powered by Weblate 4.9 About Weblate Legal Contact Documentation Donate to Weblate

[illegible]

[illegible]: [illegible]Weblate [illegible]

[illegible]

[illegible]

[illegible] 3 [illegible]: [illegible] *[illegible]* [illegible]
Markdown [illegible]`@mention` [illegible]

[illegible]:

report-source[illegible]*[illegible]*

[illegible]

[illegible]

[illegible]:

variants[illegible]*[illegible]*

[illegible]

[illegible]: [illegible]

[illegible]:

labels

[illegible]

[illegible]

[illegible]

[illegible]
[illegible]

[illegible] (✓) [illegible] (✏)[illegible] ([illegible]) [illegible]

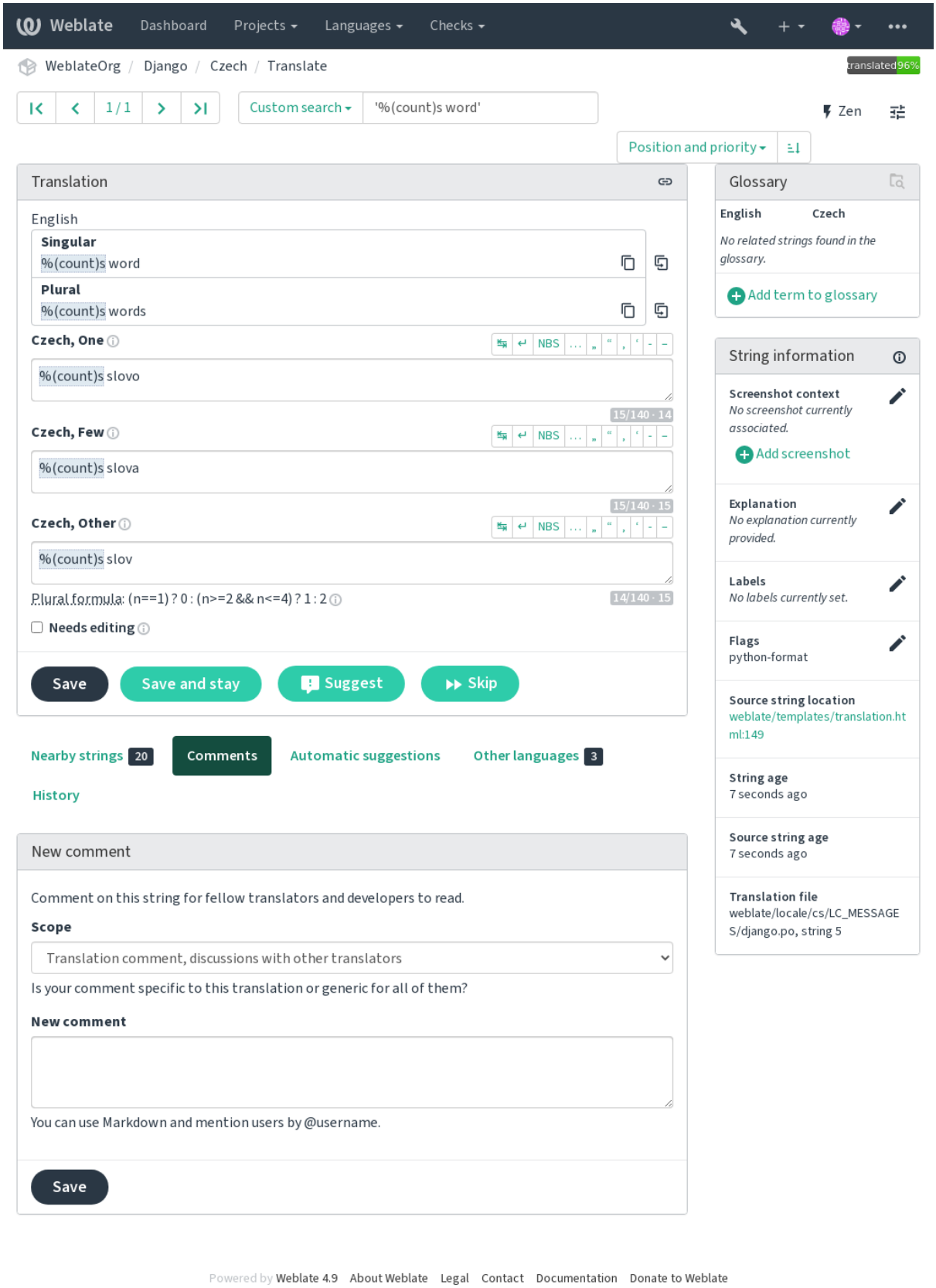
[illegible]

[illegible]1[illegible]car[illegible]1

Weblate [illegible]
[illegible]Unicode [illegible] Language Plural Rules [illegible]

[illegible]:

[illegible]


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech / Translate
translated 96%
1 / 1
Custom search
'%(count)s word'
Zen
Position and priority
Translation
English
Singular
%(count)s word
Plural
%(count)s words
Czech, One
%(count)s slovo
15/140 · 14
Czech, Few
%(count)s slova
15/140 · 15
Czech, Other
%(count)s slov
Plural formula: (n==1) ? 0 : (n>=2 && n<=4) ? 1 : 2
14/140 · 15
Needs editing
Save
Save and stay
Suggest
Skip
Nearby strings 20
Comments
Automatic suggestions
Other languages 3
History
New comment
Comment on this string for fellow translators and developers to read.
Scope
Translation comment, discussions with other translators
Is your comment specific to this translation or generic for all of them?
New comment
You can use Markdown and mention users by @username.
Save
Glossary
English
Czech
No related strings found in the glossary.
Add term to glossary
String information
Screenshot context
No screenshot currently associated.
Add screenshot
Explanation
No explanation currently provided.
Labels
No labels currently set.
Flags
python-format
Source string location
weblate/templates/translation.html:149
String age
7 seconds ago
Source string age
7 seconds ago
Translation file
weblate/locale/cs/LC_MESSAGES/django.po, string 5
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[illegible]

[illegible] 2.18 [illegible]: [illegible] [illegible] 2.18 [illegible]
[illegible] [illegible]:

[illegible] [illegible]	[illegible]
`Alt+Home`	[illegible]
`Alt+End`	[illegible]
`Alt+PageUp` or `Ctrl ↑` or `Alt ↑` or `Cmd ↑`	[illegible]1 [illegible]
`Alt+PageDown` or `Ctrl+↓` or `Alt+↓` or `Cmd+↓`	[illegible]
`Alt+Enter` or `Ctrl+Enter` or `Cmd+Enter`	[illegible]
`Ctrl+Shift+Enter` or `Cmd+Shift+Enter`	[illegible]
`Ctrl+E` or `Cmd+E`	[illegible]
`Ctrl+U` or `Cmd+U`	[illegible]
`Ctrl+M` or `Cmd+M`	*[illegible]* [illegible]: *[illegible]*[illegible]
`Ctrl+1` to `Ctrl+9` or `Cmd+1` to `Cmd+9`	[illegible]
`Ctrl+M+1` to `9` or `Cmd+M+1` to `9`	[illegible]
`Ctrl+I+1` to `9` or `Cmd+I+1` to `9`	[illegible] 1 [illegible]
`Ctrl+J` or `Cmd+J`	*[illegible]* [illegible]
`Ctrl+S` or `Cmd+S`	[illegible]
`Ctrl+O` or `Cmd+O`	[illegible]
`Ctrl+Y` or `Cmd+Y`	*[illegible]* [illegible]

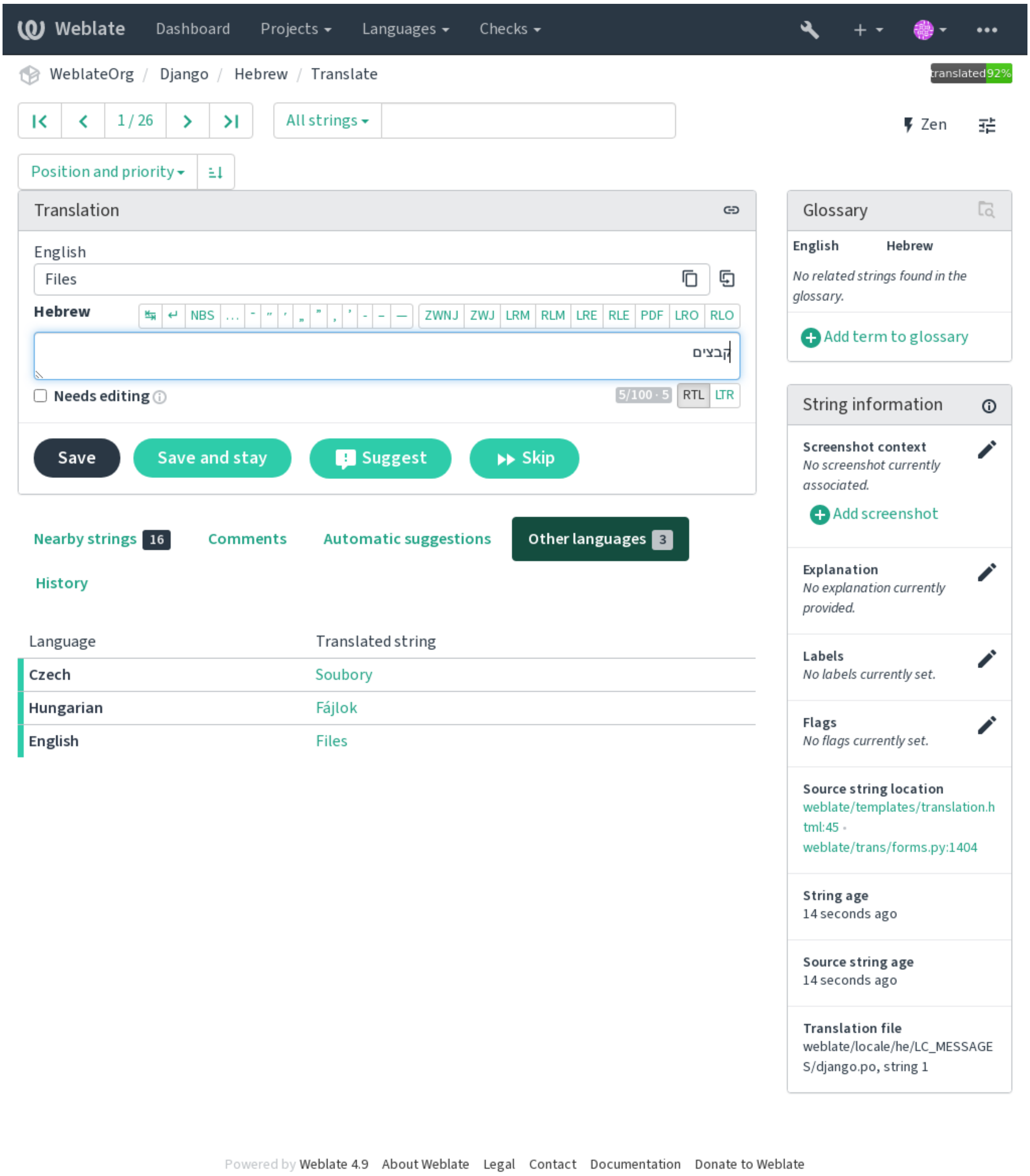
[illegible] [illegible]

[illegible]
3 [illegible]:

[illegible] [illegible]

Weblate [illegible] RTL [illegible]

`SPECIAL_CHARS` [illegible]



[illegible]

[illegible]

[illegible] ID [illegible] msgctxt [illegible]

[illegible] Weblate [illegible]: *Visual context for strings* [illegible]

[illegible]

[illegible]: *[illegible]* [illegible]

[illegible]: *[illegible]*

[illegible]

Weblate [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Weblate [illegible]

[illegible] 10 [illegible]`LIMIT_TRANSLATION_LENGTH_BY_SOURCE_LENGTH`
[illegible]Weblate
[illegible] [illegible]

[illegible]: [illegible]

[illegible]: [illegible]

[illegible]

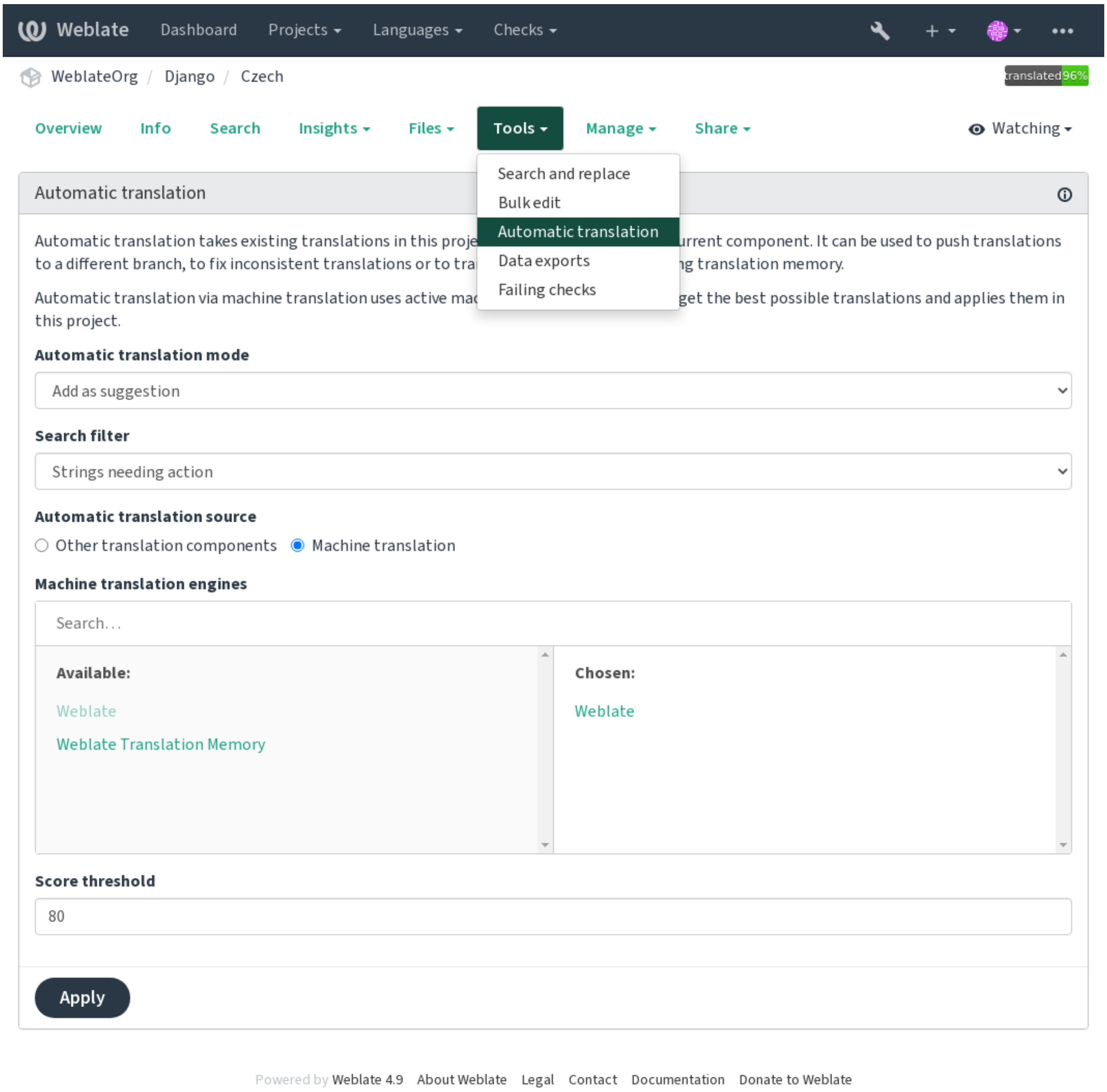
[illegible]Weblate [illegible] [illegible] [illegible] 1
[illegible]

[illegible]:

[illegible]: [illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible]
[illegible]



[illegible] 2 [illegible]:

[illegible] Weblate [illegible]

[illegible]

[illegible]

[illegible]: *[illegible]* [illegible]

[illegible]: [illegible] WEB [illegible]

[illegible]:

Keeping translations same across components

[illegible]

[illegible]
[illegible]: *[illegible]*

[illegible]

[illegible] *[illegible]* [illegible] *[illegible]* [illegible]

[illegible]: [illegible] 2 [illegible]

[illegible]

[illegible] 1 [illegible]:
[illegible]: [illegible]
[illegible]: *[illegible]*
[illegible]: labels

[illegible]: [illegible] *[illegible]* [illegible] *[illegible]* [illegible]

[illegible]:

Bulk edit addon

Matrix View

To compare different languages efficiently you can use the matrix view. It is available on every component page under the *Tools* menu. First select all languages you want to compare and confirm your selection, after that you can click on any translation to open and edit it quickly.

The matrix view is also a very good starting point to find missing translations in different languages and quickly add them from one view.

Zen Mode

The Zen editor can be enabled by clicking the *Zen* button on the top right while translating a component. It simplifies the layout and removes additional UI elements such as *Nearby strings* or the *Glossary*.

You can select the Zen editor as your default editor using the *[illegible]* tab on your *[illegible]*. Here you can also choose between having translations listed *Top to bottom* or *Side by side* depending on your personal preference.

[illegible]

[illegible]

[illegible]: [illegible] *access control* [illegible]

[illegible]

[illegible] *[illegible]* [illegible]

1 [illegible]

[illegible]Weblate [illegible]*[illegible] ↓ [illegible]* [illegible]

gettext PO

gettext [illegible] XLIFF

XLIFF 1.1

TermBase eXchange

Translation Memory eXchange

gettext MO ([illegible] gettext PO [illegible])

CSV

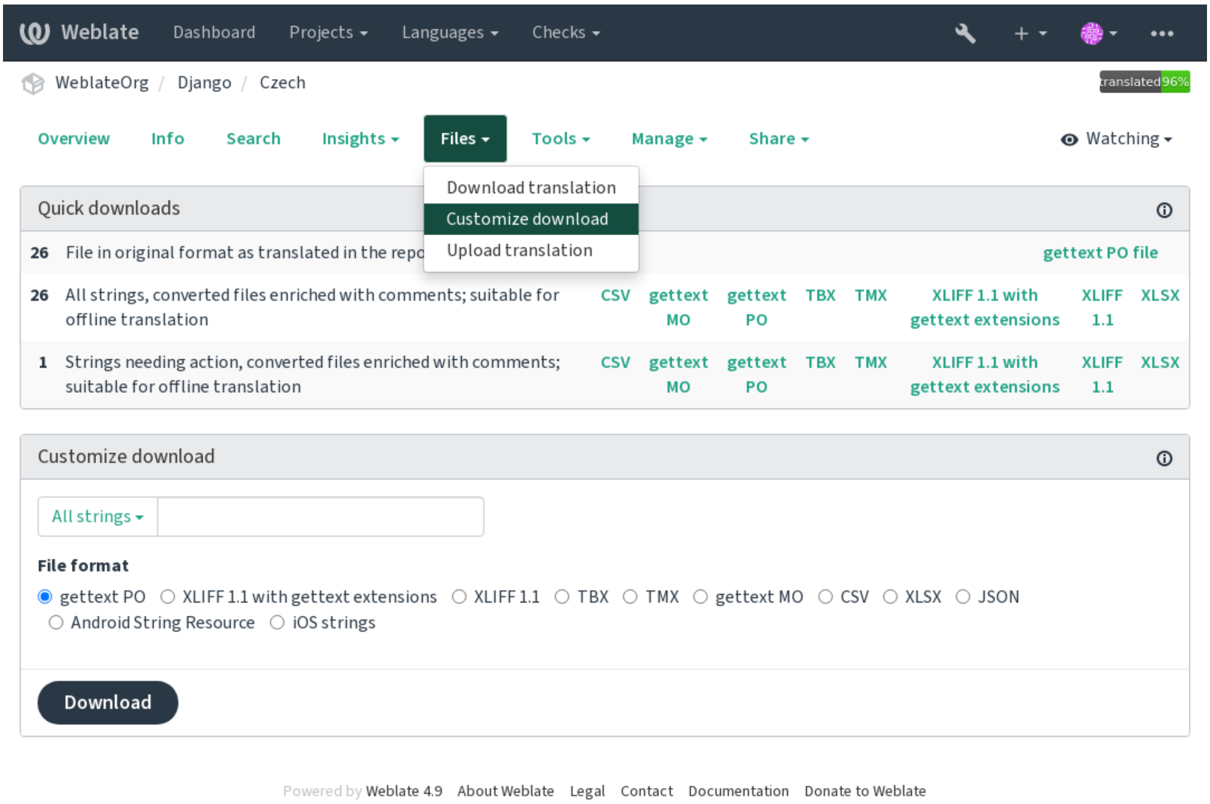
Excel Open XML

JSON[illegible]

Android [illegible]

iOS [illegible]

[illegible]: [illegible] *Translation types capabilities* [illegible]

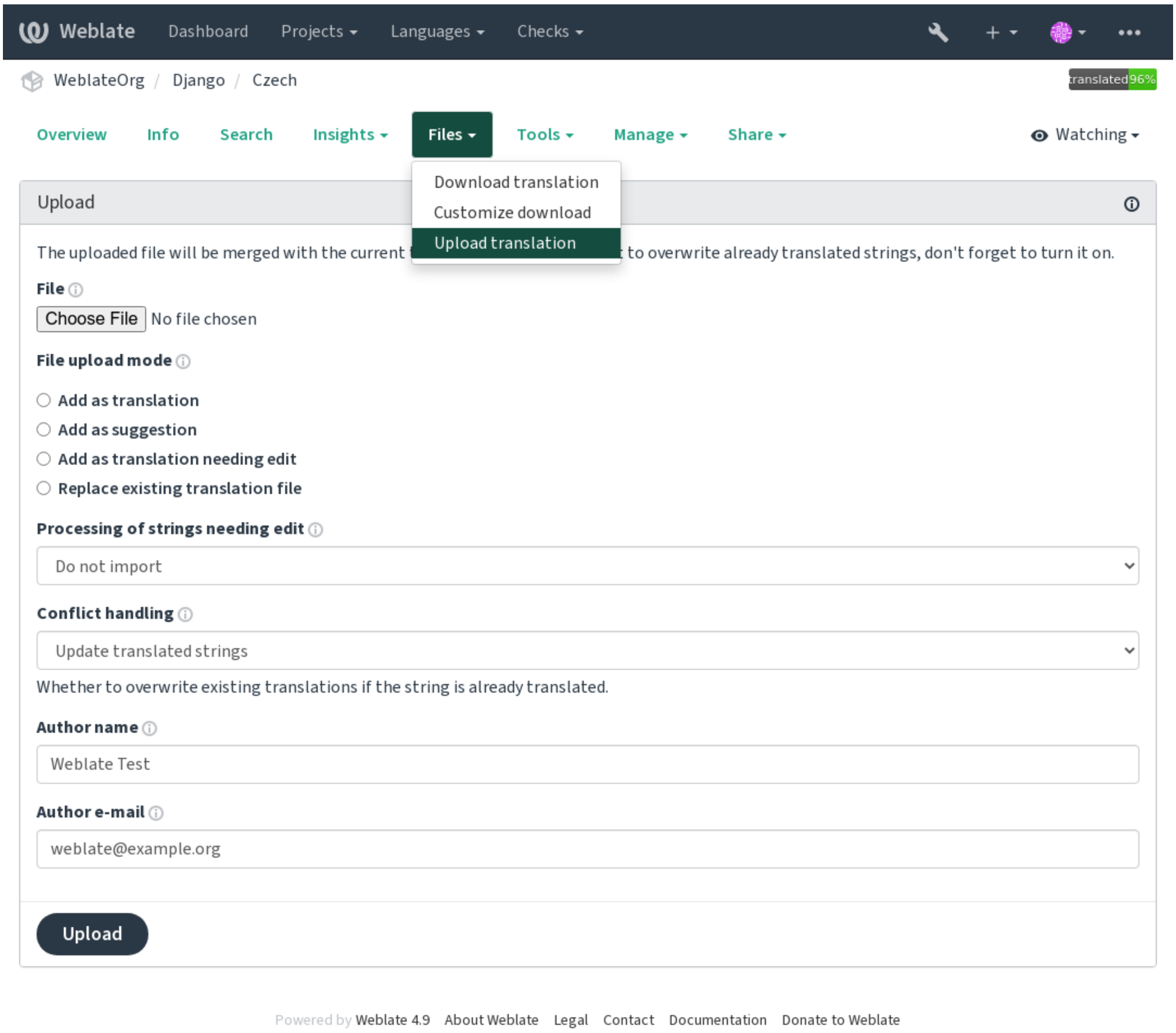


[illegible]:

GET /api/translations/(string:project)/(string:component)/(string:language)/file/

[illegible]

[illegible]



Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech
translated 96%
Overview
Info
Search
Insights
Files
Tools
Manage
Share
Watching
Download translation
Customize download
Upload translation
Upload
The uploaded file will be merged with the current translation. If you want to overwrite already translated strings, don't forget to turn it on.
File
Choose File No file chosen
File upload mode
Add as translation
Add as suggestion
Add as translation needing edit
Replace existing translation file
Processing of strings needing edit
Do not import
Conflict handling
Update translated strings
Whether to overwrite existing translations if the string is already translated.
Author name
Weblate Test
Author e-mail
weblate@example.org
Upload
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[illegible]

[illegible]

[illegible]:

[illegible]

[illegible] [illegible]/[illegible] [illegible]

[illegible]

[illegible]:

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] *POT [illegible] PO [illegible] (msgmerge)* [illegible]

[illegible]

[illegible]

[illegible] *[illegible]* [illegible]

[illegible] *[illegible]* [illegible]

[illegible]

[illegible]:

POST /api/translations/(string:project)/(string:component)/(string:language)/file/

[illegible]

[illegible]

[illegible]

[illegible] 1 [illegible]

[illegible]

[illegible]

[illegible]

[illegible] 1 [illegible]

[illegible]

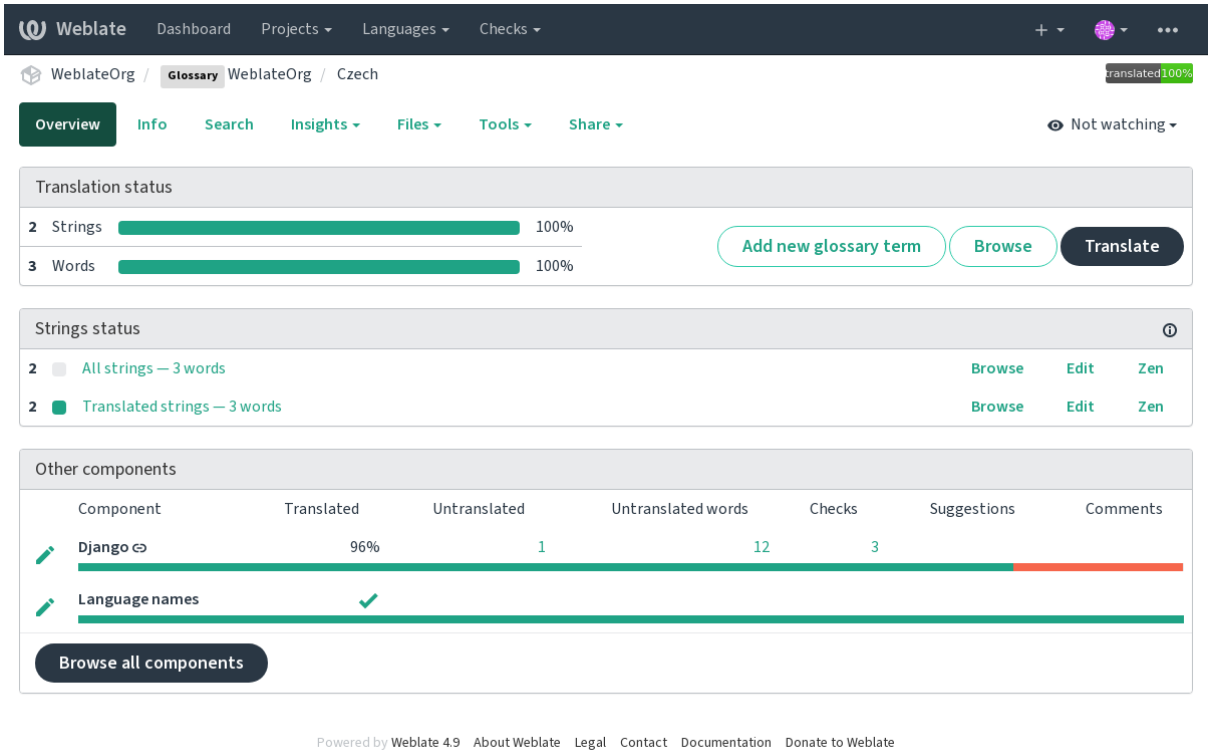
[illegible]

[illegible] 4.5 [illegible]: [illegible] Weblate [illegible]

[illegible] [illegible] 1 [illegible]

[illegible] *[illegible]* [illegible]

[illegible] Weblate [illegible]:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Glossary WeblateOrg / Czech
translated 100%
Overview
Info
Search
Insights
Files
Tools
Share
Not watching
Translation status
2 Strings 100%
3 Words 100%
Add new glossary term
Browse
Translate
Strings status
2 All strings — 3 words Browse Edit Zen
2 Translated strings — 3 words Browse Edit Zen
Other components
Component Translated Untranslated Untranslated words Checks Suggestions Comments
Django 96% 1 12 3
Language names
Browse all components
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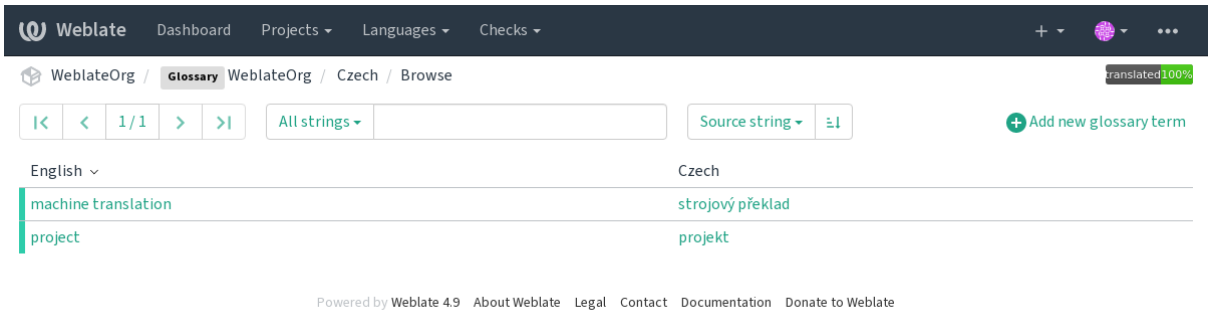
Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Glossary WeblateOrg / Czech / Browse
translated 100%
1 / 1
All strings
Source string
Add new glossary term
English
Czech
machine translation
strojový překlad
project
projekt
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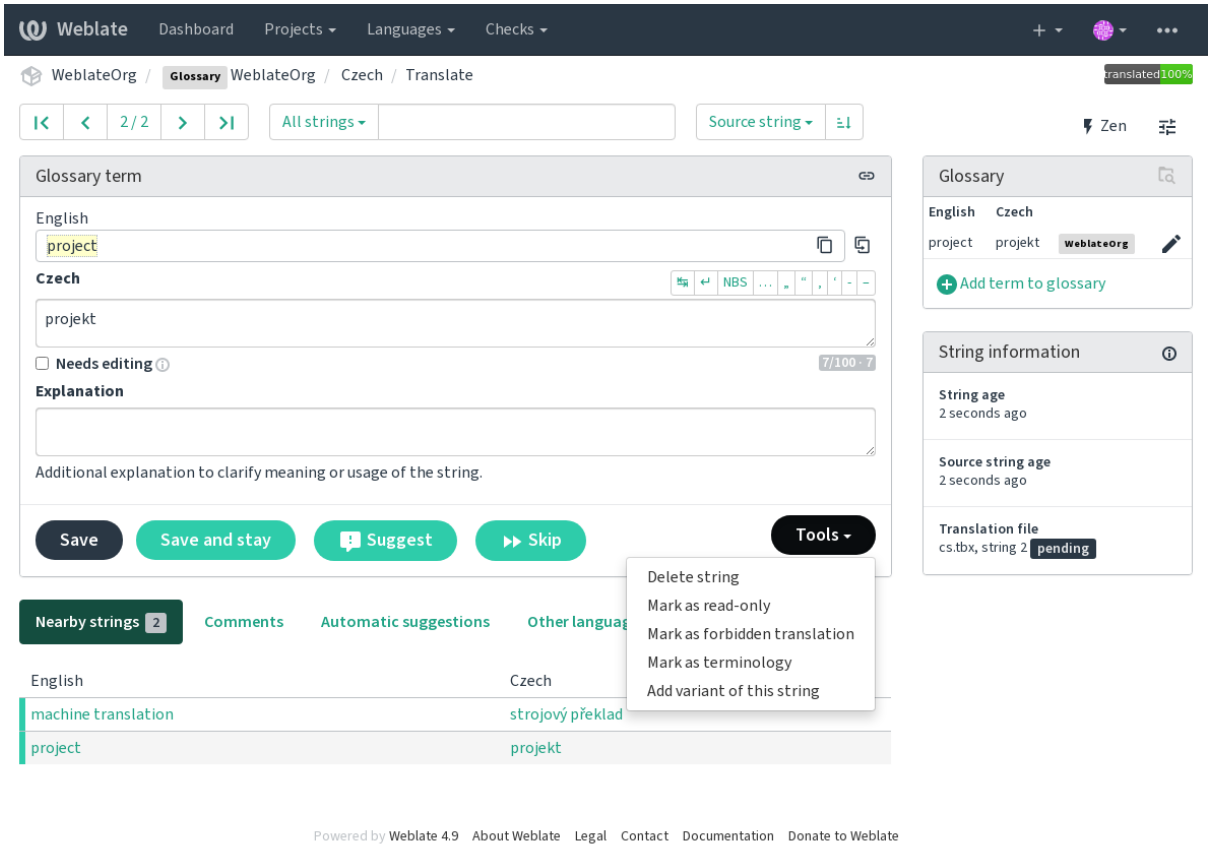
□□□□□□

□□ *Tools* □□□□□□□□□□□□□□□□□□



Untranslatable terms

[illegible] 4.5 [illegible].

[illegible] [illegible] ↓ [illegible] [illegible] `read-only` [illegible]

[illegible]:

[illegible]

[illegible]

[illegible] 4.5 [illegible].

[illegible] [illegible] ↓ [illegible] [illegible] `forbidden` [illegible] [illegible]

[illegible]:

[illegible]

[illegible]

[illegible] 4.5 [illegible].

[illegible] [illegible] ↓ [illegible] [illegible] `terminology` [illegible]

[illegible]:

[illegible]

[illegible]

Variants are a generic way to group strings together. All term variants are listed in the glossary sidebar when translating.

[illegible]: You can use this to add abbreviations or shorter expressions for a term.

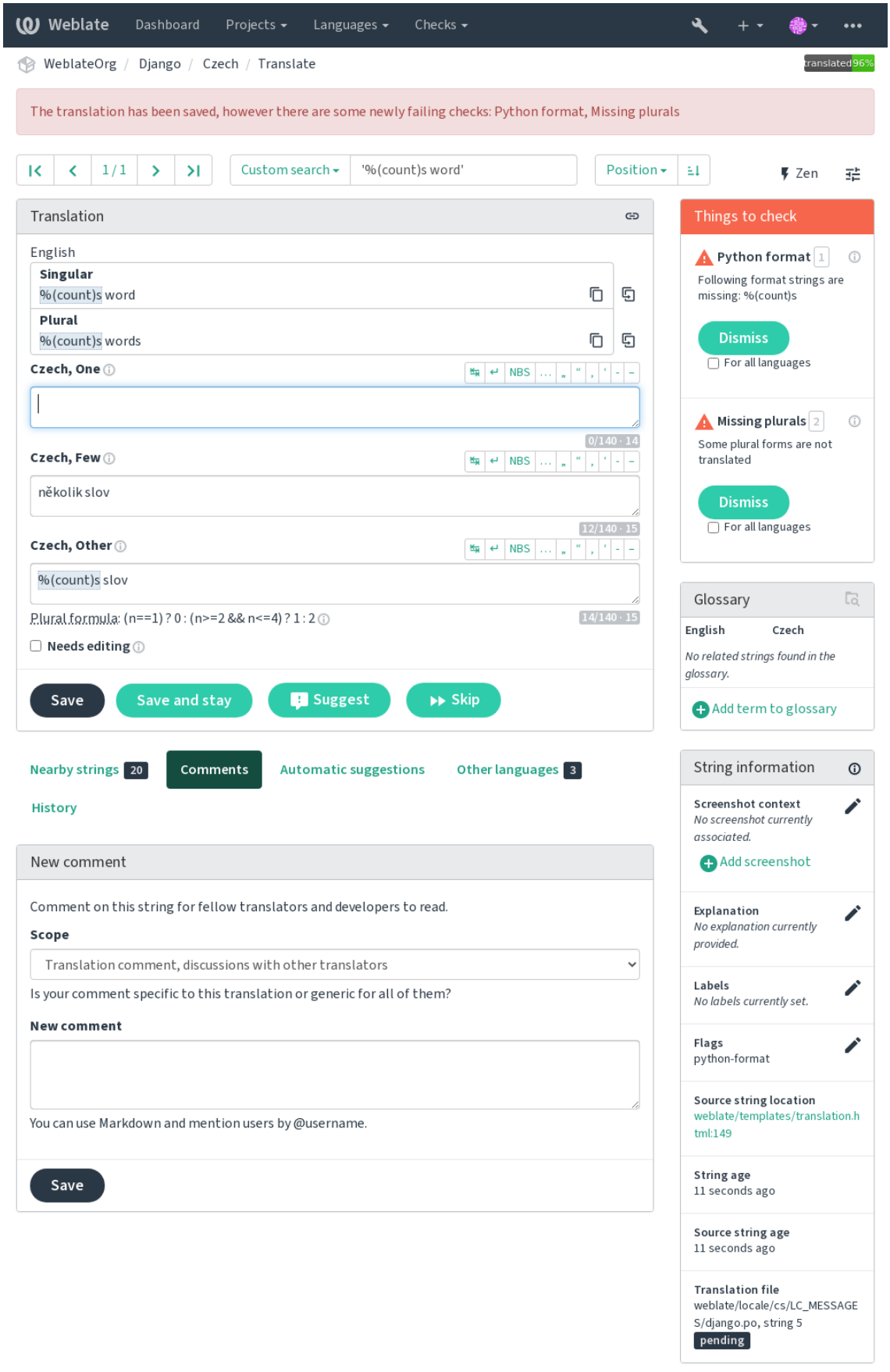
[illegible]:

variants

[illegible]

[illegible]

[illegible]


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech / Translate
translated 96%
The translation has been saved, however there are some newly failing checks: Python format, Missing plurals
1 / 1
Custom search
'%(count)s word'
Position
Zen
Translation
English
Singular
%(count)s word
Plural
%(count)s words
Czech, One
0/140 · 14
Czech, Few
několik slov
12/140 · 15
Czech, Other
%(count)s slov
Plural formula: (n==1) ? 0 : (n>=2 && n<=4) ? 1 : 2
14/140 · 15
Needs editing
Save
Save and stay
Suggest
Skip
Nearby strings 20
Comments
Automatic suggestions
Other languages 3
History
New comment
Comment on this string for fellow translators and developers to read.
Scope
Translation comment, discussions with other translators
Is your comment specific to this translation or generic for all of them?
New comment
You can use Markdown and mention users by @username.
Save
Things to check
Python format 1
Following format strings are missing: %(count)s
Dismiss
For all languages
Missing plurals 2
Some plural forms are not translated
Dismiss
For all languages
Glossary
English
Czech
No related strings found in the glossary.
Add term to glossary
String information
Screenshot context
No screenshot currently associated.
Add screenshot
Explanation
No explanation currently provided.
Labels
No labels currently set.
Flags
python-format
Source string location
weblate/templates/translation.html:149
String age
11 seconds ago
Source string age
11 seconds ago
Translation file
weblate/locale/cs/LC_MESSAGES/django.po, string 5
pending
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

[illegible]

[illegible] [illegible]Weblate [illegible]

[illegible]:

AUTOFIX_LIST

[illegible]

Weblate [illegible]

[illegible]:

CHECK_LIST[illegible]

[illegible]

[illegible]

BBcode [illegible]

[illegible] BBcode [illegible]

[illegible]

`weblate.checks.markup.BBCodeCheck`

`ignore-bbcode`

BBCode [illegible]

[illegible]BBCode [illegible]

[illegible]: [illegible]BBcode [illegible]

[illegible]

[illegible] 4.1 [illegible].

[illegible] 2 [illegible]:

[illegible]

`weblate.checks.duplicate.DuplicateCheck`

`ignore-duplicate`

[illegible]

[illegible]: [illegible]: *Weblate [illegible]*

[illegible]

[illegible] 4.5 [illegible].

[illegible]

[illegible]

`weblate.checks.glossary.GlossaryCheck`

`check-glossary`

`ignore-check-glossary`

[illegible]`check-glossary` [illegible]: *[illegible]*[illegible]:

[illegible]

[illegible]Weblate [illegible]

[illegible]:

[illegible]

[illegible]

[illegible]

[illegible]

`weblate.checks.chars.DoubleSpaceCheck`

`ignore-double-space`

[illegible]

[illegible]

[illegible]

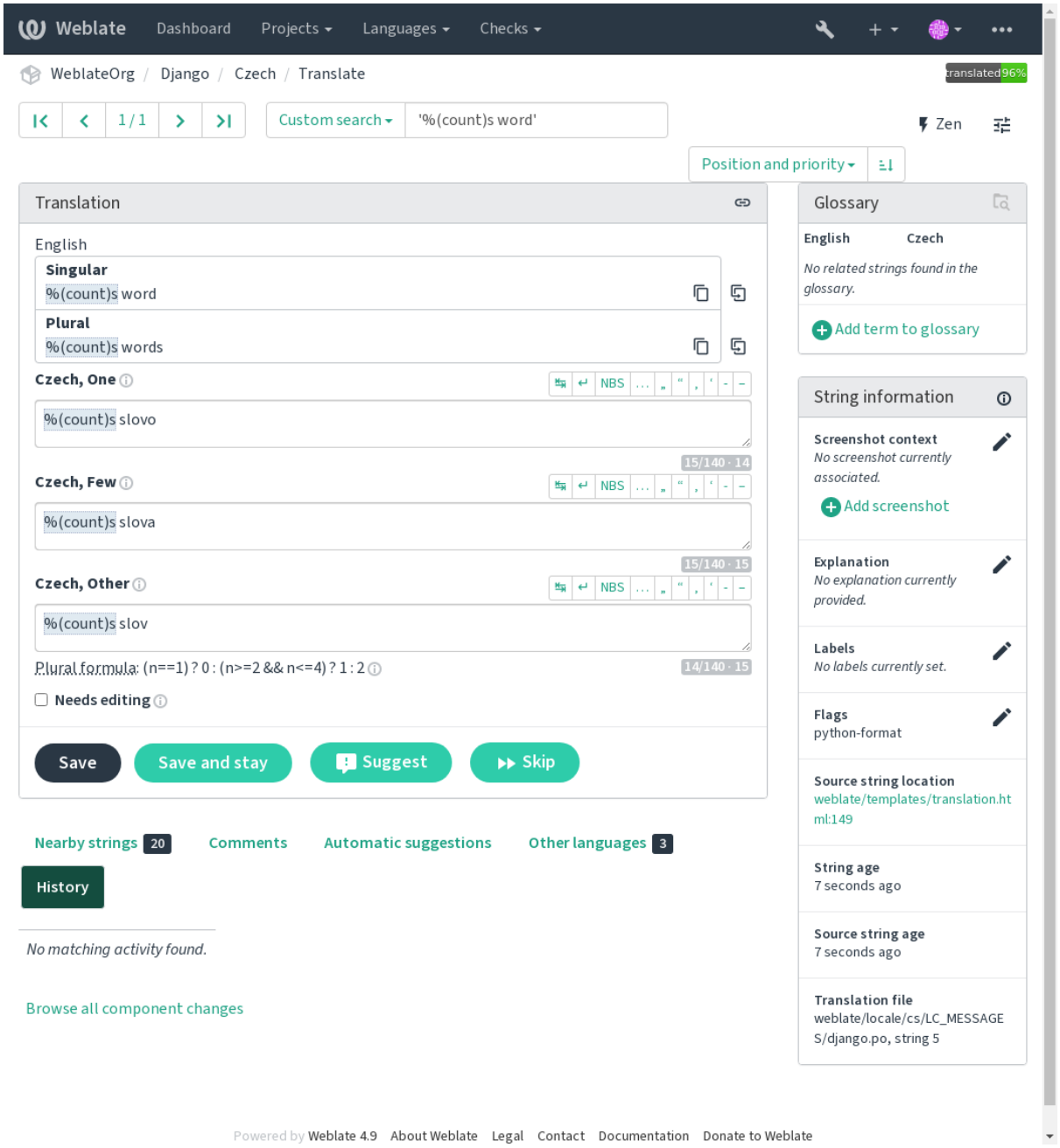
[illegible]

Weblate [illegible]: C [illegible] 'c-format'[illegible]Gettext [illegible] PO [illegible] **xgettext** [illegible]

[illegible]: *Additional info on source strings*[illegible]*Component configuration* [illegible]

[illegible]: Weblate [illegible] *[illegible]* [illegible]

[illegible]:



AngularJS ?????

??? AngularJS ??????????????
?????????
`weblate.checks.angularjs.AngularJSInterpolationCheck`
`angularjs-format`
`ignore-angularjs-format`
`Your balance is {{amount}} {{ currency }}`
??:
????????? **`AngularJS ??????<https://angular.jp/guide/interpolation>`_**

C ????

C ????????????????
????????
`weblate.checks.format.CFormatCheck`
`c-format`
`ignore-c-format`
```
There are %d apples
Your balance is %1$d %2$s
```
??:
C format strings ? C printf format

C# ??

C# ????????????????
????????
`weblate.checks.format.CSharpFormatCheck`
`c-sharp-format`
`ignore-c-sharp-format`
```
There are {0} apples
```
??:
???????? **`C# ?????<https://docs.microsoft.com/ja-jp/dotnet/api/system.string.format?view=netframework-4.7.2>`_**

ECMAScript ??????? ?????

ECMAScript ??????? ???????????
????????
`weblate.checks.format.ESTemplateLiteralsCheck`
`es-format`
`ignore-es-format`
```
There are ${number} apples
```
??:
???????? **`??????? ?????<https://developer.mozilla.org/ja/docs/Web/JavaScript/Reference/Template_literals>`_**

i18next ??

????? 4.0 ???.
i18next ???????????
????????
`weblate.checks.format.I18NextInterpolationCheck`
`i18next-interpolation`
`ignore-i18next-interpolation`
```
There are {{number}} apples
There are $t(number) apples
```
??:
???????? **`i18next ??<https://www.i18next.com/translation-function/interpolation>`_**

ICU MessageFormat

□□□□□ 4.9 □□□.

Syntax errors and/or placeholder mismatches in ICU MessageFormat strings.

□□□□□□□□□

`weblate.checks.icu.ICUMessageFormatCheck`

`icu-message-format`

`ignore-icu-message-format`

`There {number, plural, one {is one apple} other {are # apples}}.`

This check has support for both pure ICU MessageFormat messages as well as ICU with simple XML tags. You can configure the behavior of this check by using `icu-flags:*`, either by opting into XML support or by disabling certain sub-checks. For example, the following flag enables XML support while disabling validation of plural sub-messages:

`xml`	Enable support for simple XML tags. By default, XML tags are parsed loosely. Stray < characters are ignored if they are not reasonably part of a tag.
`strict-xml`	Enable support for strict XML tags. All < characters must be escaped if they are not part of a tag.
`-highlight`	Disable highlighting placeholders in the editor.
`-require_other`	Disable requiring sub-messages to have an `other` selector.
`-submessage_selectors`	Skip checking that sub-message selectors match the source.
`-types`	Skip checking that placeholder types match the source.
`-extra`	Skip checking that no placeholders are present that were not present in the source string.
`-missing`	Skip checking that no placeholders are missing that were present in the source string.

Additionally, when `strict-xml` is not enabled but `xml` is enabled, you can use the `icu-tag-prefix:PREFIX` flag to require that all XML tags start with a specific string. For example, the following flag will only allow XML tags to be matched if they start with `<x:`:

This would match `<x:link>click here</x:link>` but not `<strong>this</strong>`.

□□:

ICU MessageFormat syntax, *□□□□□□□*, ICU: Formatting Messages, Format.JS: Message Syntax

Java □□

Java □□□□□□□□□□□□□

□□□□□□□□□

`weblate.checks.format.JavaFormatCheck`

`java-format`

`ignore-java-format`

`There are %d apples`

`Your balance is %1$d %2$s`

□□:

□□□□□□□□`Java □□□□□<https://docs.oracle.com/javase/7/docs/api/java/util/Formatter.html>`_

Java MessageFormat

Java MessageFormat [illegible]
[illegible]
`weblate.checks.format.JavaMessageFormatCheck`
`java-messageformat`
`auto-java-messageformat` enables check only if there is a format string in the source
`ignore-java-messageformat`
`There are {0} apples`
[illegible]:
*[illegible]*Java MessageFormat

JavaScript [illegible]

JavaScript [illegible]
[illegible]
`weblate.checks.format.JavaScriptFormatCheck`
`javascript-format`
`ignore-javascript-format`
`There are %d apples`
[illegible]:
[illegible] **`JavaScript [illegible]<https://www.gnu.org/software/gettext/manual/html_node/javascript_002dformat.html>`_**

Lua [illegible]

Lua [illegible]
[illegible]
`weblate.checks.format.LuaFormatCheck`
`lua-format`
`ignore-lua-format`
`There are %d apples`
[illegible]:
[illegible] **`Lua [illegible]<https://www.gnu.org/software/gettext/manual/html_node/lua_002dformat.html#lua_002dformat>`_**

Object Pascal [illegible]

Object Pascal [illegible]
[illegible]
`weblate.checks.format.ObjectPascalFormatCheck`
`object-pascal-format`
`ignore-object-pascal-format`
`There are %d apples`
[illegible]:
[illegible], Object Pascal formatting strings Free Pascal formatting strings Delphi formatting strings

??????????????

????? 4.0 ???.
% ??????????????
??????????
`weblate.checks.format.PercentPlaceholdersCheck`
`percent-placeholders`
`ignore-percent-placeholders`
`There are %number% apples`
??:
????????

Perl ??

Perl ??????????????
??????????
`weblate.checks.format.PerlFormatCheck`
`perl-format`
`ignore-perl-format`
`There are %d apples`
`Your balance is %1$d %2$s`
??:
*????????*Perl sprintf?**`Perl ?????<https://www.gnu.org/software/gettext/manual/html_node/perl_002dformat.html>`_**

PHP ??

PHP ???????????????
??????????
`weblate.checks.format.PHPFormatCheck`
`php-format`
`ignore-php-format`
`There are %d apples`
`Your balance is %1$d %2$s`
??:
*????????***`PHP sprintf ??????<https://www.php.net/manual/en/function.sprintf.php>`_?`PHP ??????<https://www.gnu.org/software/gettext/manual/html_node/php_002dformat.html>`_**

Python ???????

Python ??????????????????
??????????
`weblate.checks.format.PythonBraceFormatCheck`
`python-brace-format`
`ignore-python-brace-format`
`There are {} apples`
`Your balance is {amount} {currency}`
??:
*????????*Python brace ???**`Python ?????<https://www.gnu.org/software/gettext/manual/html_node/python_002dformat.h**

Python ??

Python ??????????????
??????????
`weblate.checks.format.PythonFormatCheck`
`python-format`
`ignore-python-format`
```
There are %d apples
Your balance is %(amount)d %(currency)s
```
??:
*????????*Python string formatting?`Python ?????<https://www.gnu.org/software/gettext/manual/html_node/python_002df`

Qt ??

Qt ??????????????
??????????
`weblate.checks.qt.QtFormatCheck`
`qt-format`
`ignore-qt-format`
```
There are %1 apples
```
??:
*????????*Qt QString::arg()

Qt ????

Qt ??????????????????
??????????
`weblate.checks.qt.QtPluralCheck`
`qt-plural-format`
`ignore-qt-plural-format`
```
There are %Ln apple(s)
```
??:
????????`Qt i18n ???<https://doc.qt.io/qt-5/i18n-source-translation.html#handling-plurals>`_

Ruby ??

Ruby ???????????????
??????????
`weblate.checks.ruby.RubyFormatCheck`
`ruby-format`
`ignore-ruby-format`
```
There are %d apples
Your balance is %1$f %2$s
Your balance is %+.2<amount>f %<currency>s
Your balance is %{amount} %{currency}
```
??:
*????????*Ruby Kernel#sprintf

Scheme [illegible]

Scheme [illegible]

[illegible]

`weblate.checks.format.SchemeFormatCheck`

`scheme-format`

`ignore-scheme-format`

`There are ~d apples`

[illegible]:

[illegible], Srfi 28, Chicken Scheme format, Guile Scheme formatted output

Vue I18n [illegible]

Vue I18n [illegible]

[illegible]

`weblate.checks.format.VueFormattingCheck`

`vue-format`

`ignore-vue-format`

`There are {count} apples`

`There are %{count} apples`

`@:message.dio @:message.the_world!`

[illegible]:

[illegible][illegible]Vue I18n Formatting[illegible]Vue I18n Linked locale messages

[illegible]

[illegible]

all strings

`weblate.checks.consistency.TranslatedCheck`

`ignore-translated`

[illegible]VCS [illegible]

[illegible]

[illegible]

all strings

`weblate.checks.consistency.ConsistencyCheck`

`ignore-inconsistent`

Weblate [illegible]

1 [illegible] *[illegible]* [illegible]

[illegible]: For performance reasons, the check might not find all inconsistencies, it limits number of matches.

[illegible]: [illegible] *[illegible]* [illegible] *[illegible]* [illegible] *[illegible]* [illegible]

□□:

Keeping translations same across components

Kashida □□□□□

□□□□□ 3.5 □□□.

□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□

`weblate.checks.chars.KashidaCheck`

`ignore-kashida`

Kashida □□□□□□□□□□□□□□□□□□□□□□□□□□□ Tatweel □□□□□□□□□

□□:

Kashida Wikipedia □□:

Markdown □□□□

□□□□□ 3.5 □□□.

Markdown □□□□□□□□□□□□

□□□□□□□□□

`weblate.checks.markup.MarkdownLinkCheck`

`md-text`

`ignore-md-link`

Markdown □□□□□□□□□□□□□□□

□□:

Markdown links

Markdown □□□

□□□□□ 3.5 □□□.

Markdown □□□□□□□□□□□□□□

□□□□□□□□□

`weblate.checks.markup.MarkdownRefLinkCheck`

`md-text`

`ignore-md-reflink`

Markdown □□□□□□□□□□□□□□□□□□□

□□:

Markdown links

Markdown □□

□□□□□ 3.5 □□□.

Markdown □□□□□□□□□□□□□□

□□□□□□□□□

`weblate.checks.markup.MarkdownSyntaxCheck`

`md-text`

`ignore-md-syntax`

Markdown □□□□□□□□□□□□□□

□□:

Markdown span elements

[illegible]

[illegible]

[illegible]

weblate.checks.chars.MaxLengthCheck

max-length

ignore-max-length

[illegible]

[illegible] max-length:100 [illegible] key:value [illegible]

[illegible]: [illegible] [illegible] *[illegible]* [illegible]

replacements: [illegible]

When xml-text flag is also used, the length calculation ignores XML tags.

[illegible]

[illegible]

[illegible]

weblate.checks.render.MaxSizeCheck

max-size

ignore-max-size

[illegible] 3.7 [illegible].

[illegible]

[illegible] 1 [illegible] 2 [illegible]1 [illegible]

[illegible] font-* [illegible]: *[illegible]* [illegible]ubuntu [illegible] [illegible] 22 [illegible]2 [illegible] 500 [illegible]:

```
max-size:500:2, font-family:ubuntu, font-size:22
```

[illegible]: *Component configuration* [illegible] font-* [illegible]

replacements: [illegible]

When xml-text flag is also used, the length calculation ignores XML tags.

[illegible]:

[illegible]

\n [illegible]

Number of \n in translation does not match source

[illegible]

weblate.checks.chars.EscapedNewlineCountingCheck

ignore-escaped-newline

[illegible] \n [illegible]

[illegible]

[illegible]
[illegible]
weblate.checks.chars.EndColonCheck
ignore-end-colon
[illegible]
[illegible]:
[illegible] Wikipedia [illegible]:

[illegible]

[illegible]
[illegible]
weblate.checks.chars.EndEllipsisCheck
ignore-end-ellipsis
[illegible]3 [illegible] (. . .) [illegible] (…) [illegible]
[illegible]3[illegible]
[illegible]:
[illegible] Wikipedia [illegible]:

[illegible]

[illegible]
[illegible]
weblate.checks.chars.EndExclamationCheck
ignore-end-exclamation
[illegible]
[illegible]:
[illegible] Wikipedia [illegible]:

[illegible]

[illegible]
[illegible]
weblate.checks.chars.EndStopCheck
ignore-end-stop
[illegible] (.) [illegible]
[illegible]:
[illegible] Wikipedia [illegible]:

weblate.checks.chars.EndQuestionCheck

ignore-end-question

Wikipedia:

weblate.checks.chars.EndSemicolonCheck

ignore-end-semicolon

Wikipedia:

weblate.checks.chars.NewLineCountCheck

ignore-newline-count

\n

weblate.checks.consistency.PluralsCheck

ignore-plurals

3.9

weblate.checks.placeholders.PlaceholderCheck

placeholders

ignore-placeholders

4.3

placeholders

```
placeholders:$URL$:$TARGET$:"some long text"
```

[illegible]:

```
placeholders:r"%[^% ]%"
```

[illegible]:

[illegible]

[illegible]

[illegible] 3.9 [illegible].

[illegible]

[illegible]

weblate.checks.chars.PunctuationSpacingCheck

ignore-punctuation-spacing

[illegible]

[illegible]:

[illegible] [illegible] Wikipedia [illegible]:

[illegible]

[illegible] 3.9 [illegible].

[illegible]:

[illegible]

weblate.checks.placeholders.RegexCheck

regex

ignore-regex

[illegible]regex [illegible]

```
regex:^foo|bar$
```

[illegible]

[illegible]

[illegible]

weblate.checks.consistency.SamePluralsCheck

ignore-same-plurals

[illegible]

[illegible]

[illegible]

[illegible]

weblate.checks.chars.BeginNewlineCheck

ignore-begin-newline

[illegible]

[illegible]:

[illegible]

??????

??????????????????????
??????????
weblate.checks.chars.BeginSpaceCheck
ignore-begin-space
??

??????

??????????????????????
??????????
weblate.checks.chars.EndNewlineCheck
ignore-end-newline
??
??:
??????

??????

??????????????????????
??????????
weblate.checks.chars.EndSpaceCheck
ignore-end-space
????????????????????????????????
??

????????

??????????
??????????
weblate.checks.same.SameCheck
ignore-same
???????????????????????????? 1 ??
????????????????????????????????

??
1 ?? strict-
same ??????????
??:
Component configuration?????????????

????? HTML

????? 3.9 ???.

??????????? HTML ????????????????

?????????

`weblate.checks.markup.SafeHTMLCheck`

`safe-html`

`ignore-safe-html`

??????????? HTML ???????????????????? `safe-html` ???????: *??????????????*?? autofixer ??????????

???: When `md-text` flag is also used, the Markdown style links are also allowed.

??:

HTML ??????Mozilla ?????? Bleach ????????????????

URL

????? 3.5 ???.

???? URL ?????????

?????????

`weblate.checks.markup.URLCheck`

`url`

`ignore-url`

???? URL ???????????????????? URL ???????????????????????????????????? URL ???????????

XML ???????

???? XML ??????????

?????????

`weblate.checks.markup.XMLTagsCheck`

`ignore-xml-tags`

??

????????? XML ????????????????????

??: This check is disabled by the `safe-html` flag as the HTML cleanup done by it can produce HTML markup which is not valid XML.

XML ??

????? 2.8 ???.

???? XML ?????????

?????????

`weblate.checks.markup.XMLValidityCheck`

`ignore-xml-invalid`

XML ???????????????

??: This check is disabled by the `safe-html` flag as the HTML cleanup done by it can produce HTML markup which is not valid XML.

????????

??????????????????????
?????????
`weblate.checks.chars.ZeroWidthSpaceCheck`
`ignore-zero-width-space`
??<U+200B>??????????
??
??:
???????? Wikipedia ??:

?????

??????????????????????????????

?????

?????????? (…) ?????? 3 ?????? (...) ????????
??
`weblate.checks.source.EllipsisCheck`
`ignore-ellipsis`
??????????????? (...) ???????????3 ?????? (. . .) ??????????????????
?????????Unicode ??
??:
????? Wikipedia ??:

ICU MessageFormat syntax

?????? 4.9 ???.
Syntax errors in ICU MessageFormat strings.
??
`weblate.checks.icu.ICUSourceCheck`
`ignore-icu-message-format-syntax`
??:
ICU MessageFormat

???????

?????? 4.1 ???.
????????????????
??
`weblate.checks.source.LongUntranslatedCheck`
`ignore-long-untranslated`
??

??????????

??????????????????????????????
??
`weblate.checks.source.MultipleFailingCheck`
`ignore-multiple-failures`
??
??

????????

????? 4.1 ???.
??????????????????????????????????????
??
`weblate.checks.format.MultipleUnnamedFormatsCheck`
`ignore-unnamed-format`
??
??

????????????

????????????????????????????
??
`weblate.checks.source.OptionalPluralCheck`
`ignore-optional-plural`
The string is used as a plural, but does not use plural forms. In case your translation system supports this, you should use the plural aware variant of it.

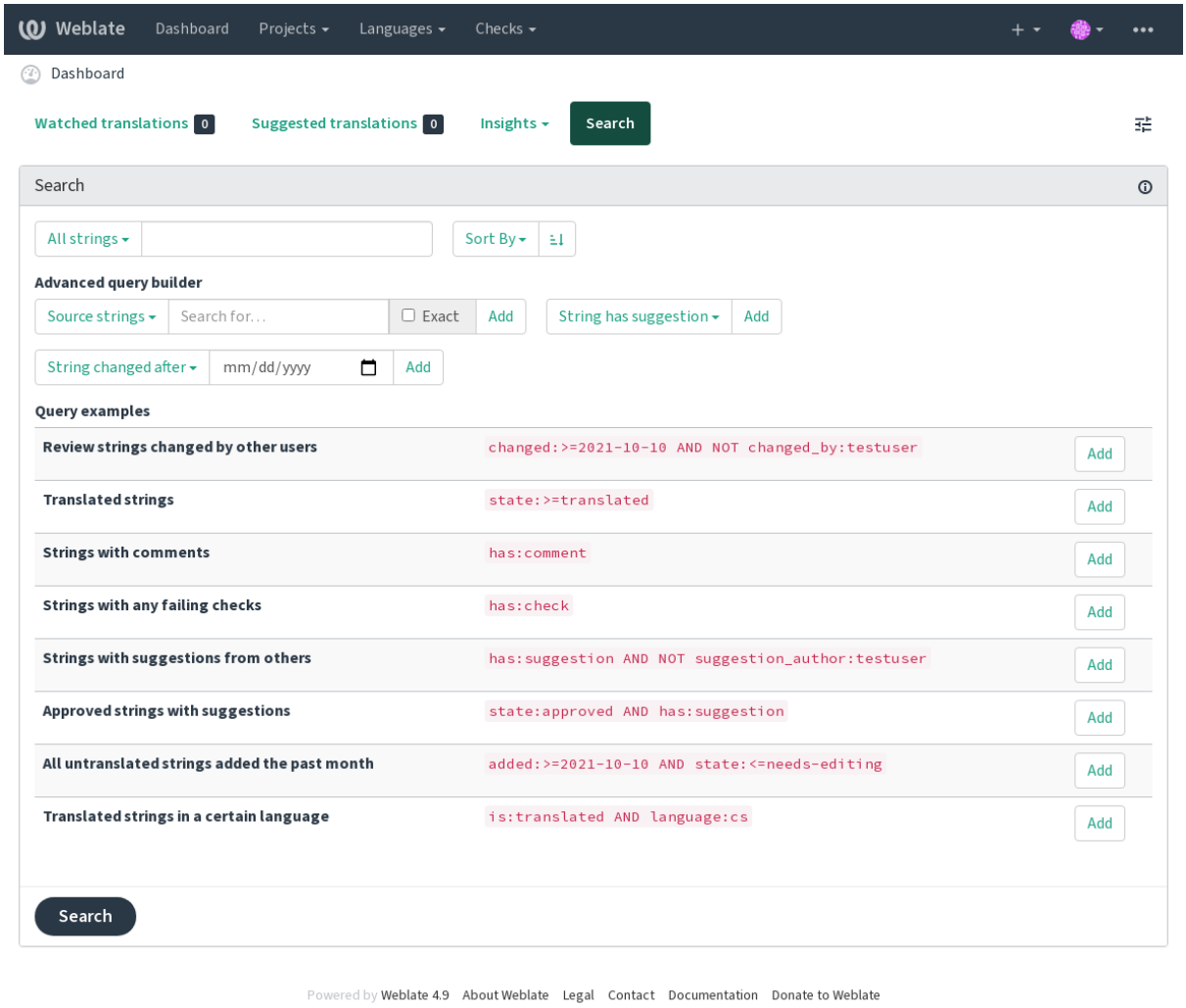
Python ? Gettext ???:

```
from gettext import ngettext

print ngettext("Selected %d file", "Selected %d files", files) % files
```

??

????? 3.9 ???.
??
??????????????????????*?????* ??? *???????* ????????????????



[illegible]

[illegible] (') [illegible] (") [illegible]: [illegible]: `"this is a quoted string"` [illegible] `'another quoted string'`[illegible]

[illegible]

Source string case-insensitive search.

Target string case-insensitive search.

Context string case-insensitive search.

Key string case-insensitive search.

Comment string case-insensitive search.

Location string case-insensitive search.

[illegible]

[illegible] Weblate [illegible]

[illegible]`approved`, `translated`, `needs-editing`, `empty`, `read-only`[illegible] [illegible]

VCS [illegible]

[illegible] - `plural`, `context`, `suggestion`, `comment`, `check`, `dismissed-check`, `translation`, `variant`, `screenshot`, `flags`, `explanation`, `glossary`, `note`[illegible]

[illegible]`pending`, `translated`, `untranslated`[illegible]

Component slug or name case-insensitive search, see *[glyphs not rendered]* and *[glyphs not rendered]*.

: *URL*

changed

change_action

change_time

AND OR NOT : `state:translated AND (source:hello OR source:bar)`

:

`translated` `approved`

2019

= `hello world` `source:="hello world"` 1 `hello` `source:=hello`

4.4 .

`change_action` `change_time`

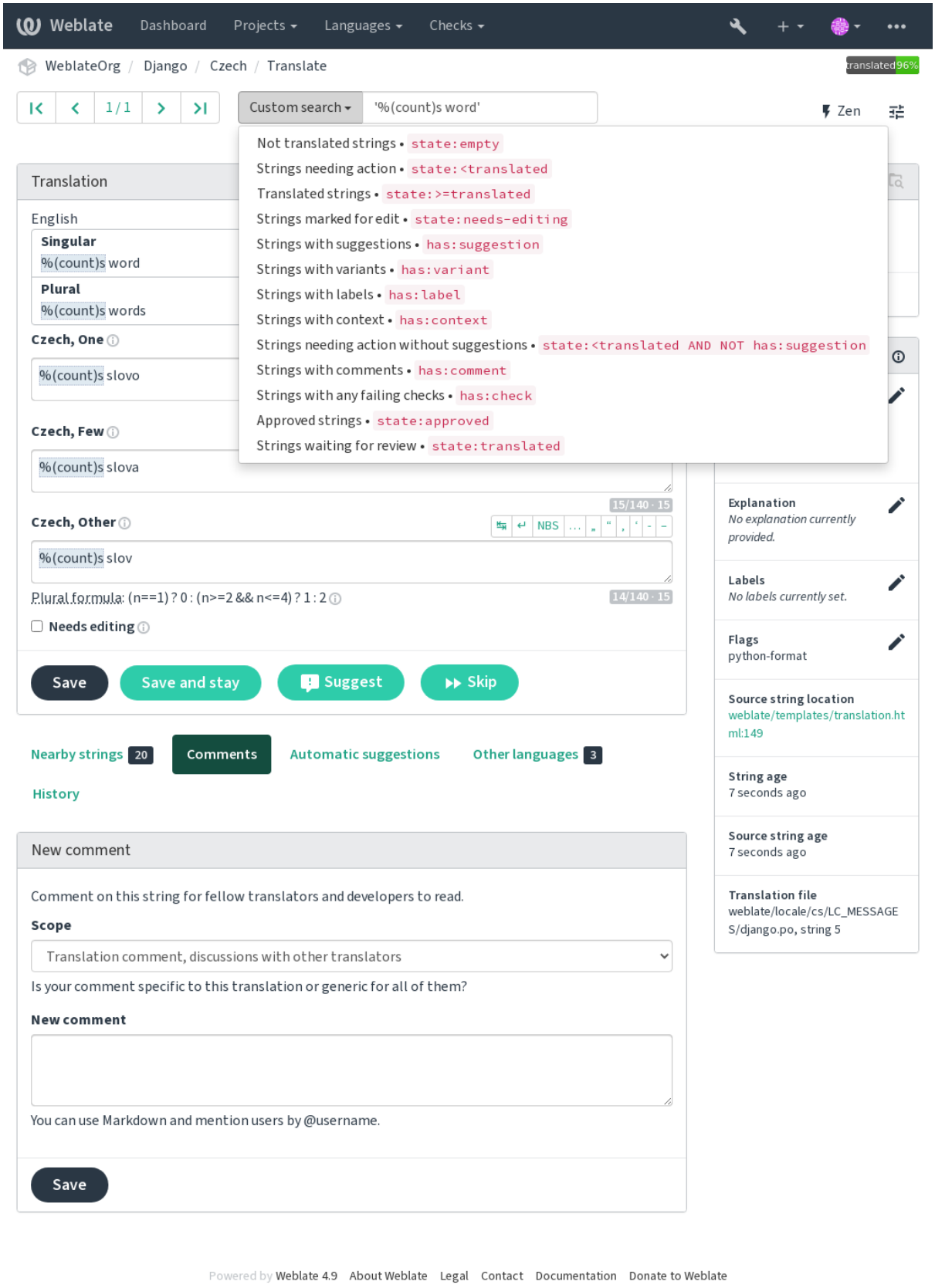
2018 `change_time:2018 AND change_action:marked-for-edit` `change_time:2018 AND change_action:"Marked for edit"`

????

??????????????r"regexp" ??????????????
????2 ~ 5 ??????????????????????source:r"[2-5]" ????????

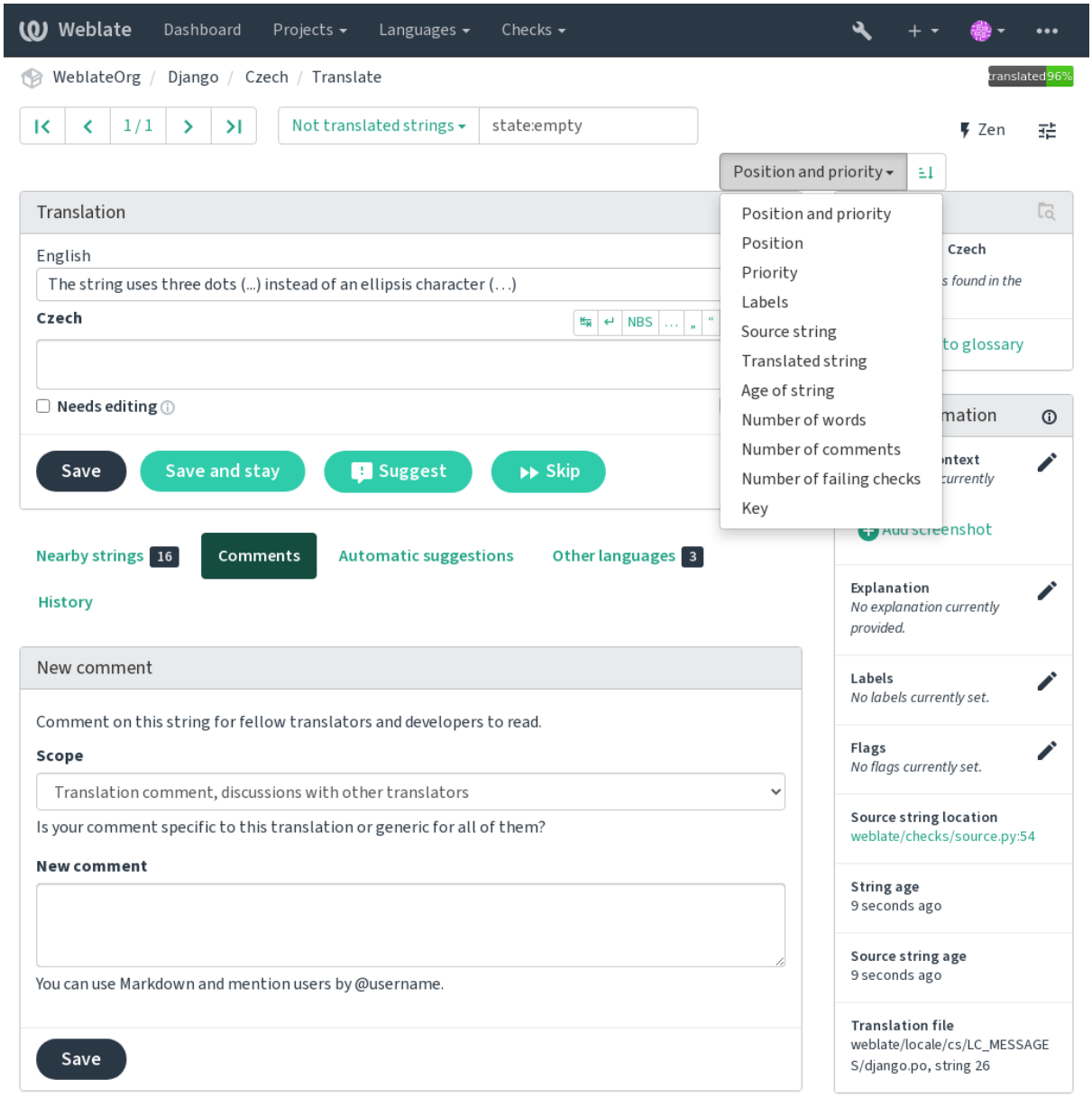
?????????

??:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech / Translate
translated 96%
1 / 1
Custom search
'%(count)s word'
Zen
Not translated strings • state:empty
Strings needing action • state:<translated
Translated strings • state:>=translated
Strings marked for edit • state:needs-editing
Strings with suggestions • has:suggestion
Strings with variants • has:variant
Strings with labels • has:label
Strings with context • has:context
Strings needing action without suggestions • state:<translated AND NOT has:suggestion
Strings with comments • has:comment
Strings with any failing checks • has:check
Approved strings • state:approved
Strings waiting for review • state:translated
Translation
English
Singular
%(count)s word
Plural
%(count)s words
Czech, One
%(count)s slovo
Czech, Few
%(count)s slova
15/140 · 15
Czech, Other
NBS
%(count)s slov
Plural formula: (n==1) ? 0 : (n>=2 && n<=4) ? 1 : 2
14/140 · 15
Needs editing
Save
Save and stay
Suggest
Skip
Nearby strings 20
Comments
Automatic suggestions
Other languages 3
History
New comment
Comment on this string for fellow translators and developers to read.
Scope
Translation comment, discussions with other translators
Is your comment specific to this translation or generic for all of them?
New comment
You can use Markdown and mention users by @username.
Save
Explanation
No explanation currently provided.
Labels
No labels currently set.
Flags
python-format
Source string location
weblate/templates/translation.html:149
String age
7 seconds ago
Source string age
7 seconds ago
Translation file
weblate/locale/cs/LC_MESSAGES/django.po, string 5
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

????????

??


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech / Translate
translated 96%
1 / 1
Not translated strings
state:empty
Zen
Position and priority
Translation
English
The string uses three dots (...) instead of an ellipsis character (…)
Czech
NBS
Needs editing
Save
Save and stay
Suggest
Skip
Position and priority
Position
Priority
Labels
Source string
Translated string
Age of string
Number of words
Number of comments
Number of failing checks
Key
Nearby strings 16
Comments
Automatic suggestions
Other languages 3
History
New comment
Comment on this string for fellow translators and developers to read.
Scope
Translation comment, discussions with other translators
Is your comment specific to this translation or generic for all of them?
New comment
You can use Markdown and mention users by @username.
Save
Add screenshot
Explanation
No explanation currently provided.
Labels
No labels currently set.
Flags
No flags currently set.
Source string location
weblate/checks/source.py:54
String age
9 seconds ago
Source string age
9 seconds ago
Translation file
weblate/locale/cs/LC_MESSAGES/django.po, string 26
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

[illegible]

Weblate [illegible]

[illegible]Weblate [illegible]

[illegible]

access control [illegible]

[illegible]*[illegible]* [illegible] *[illegible]* [illegible]

Translation states

[illegible]:

[illegible]

[illegible] Gettext [illegible] `fuzzy` [illegible]

[illegible]

[illegible]

[illegible] Weblate [illegible]

[illegible]

[illegible]: In case file format you use does not support storing states, you might want to use *[illegible] "[illegible]" [illegible]* addon to flag unchanged strings as needing editing.

[illegible]:

Translation types capabilities[illegible]

[illegible]

[illegible] Weblate [illegible]

[illegible] [illegible]

[illegible]

[illegible]	Value	[illegible]
[illegible]	OFF	[illegible] [illegible]
[illegible]	ON	[illegible]
[illegible]	OFF	
[illegible]	0	

[illegible]*[illegible]* *per-project access control* [illegible] *[illegible]* [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible]

??	Value??
???????	OFF ??????? ?????????
???????	ON
???????	OFF
????????1	??????????????????????????????

????????/????????? *per-project access control* ? *??* ?
????????????? ????????????????????

??????

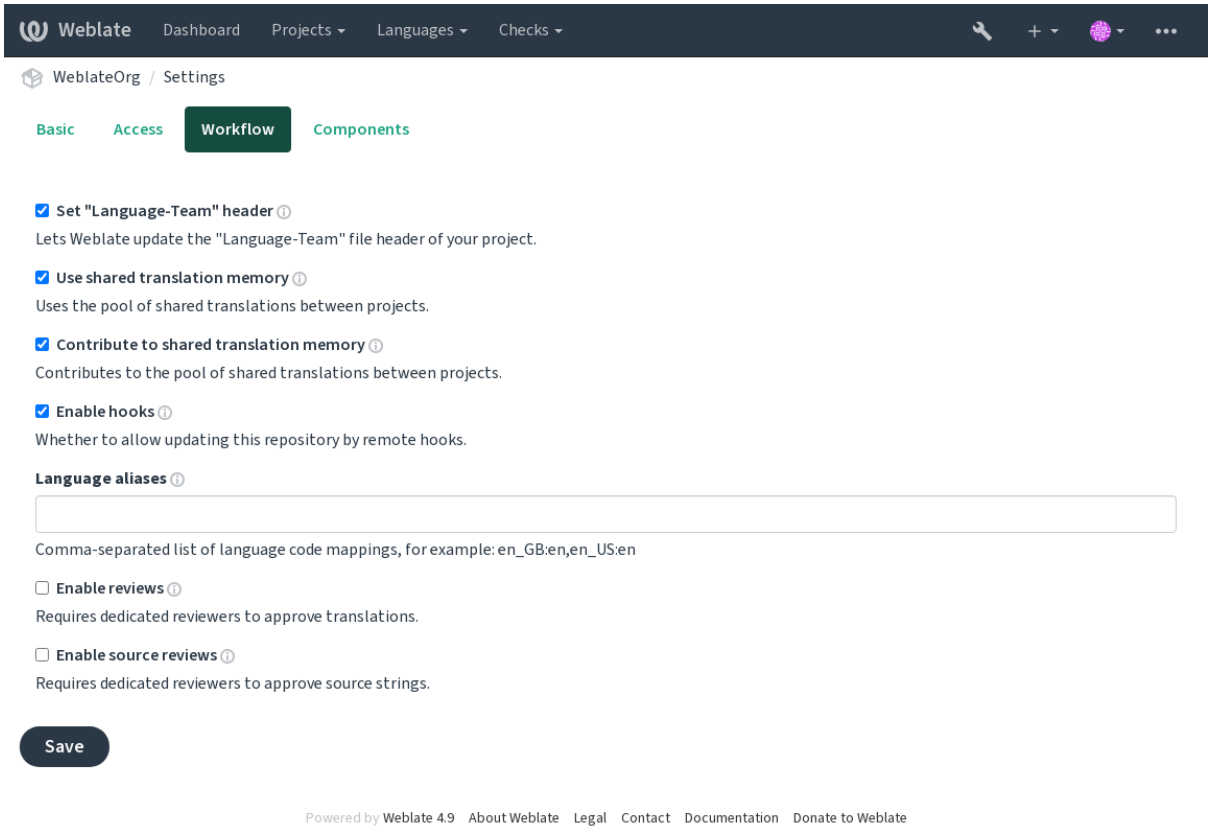
????? 2.18 ???: ????????????? Weblate 2.18 ?????
??????????2 ??????? ????????????1 ????????????? 1 ????????????????????????????????????
????????? ??????????????????
???? ?????????/?????????
???? ????????????????????????????
????????????????????????????

??	Value??
???????	ON ??????? ?????????
???????	OFF ????????????????????????????
???????	OFF
????????0	

????????/????????? *per-project access control* ? *??* ?
????????????? ????? *per-project access control* ?? *??* ?

??????

?????????????????????????????????????? *????????* ??????? *??* → *??* ?????????:

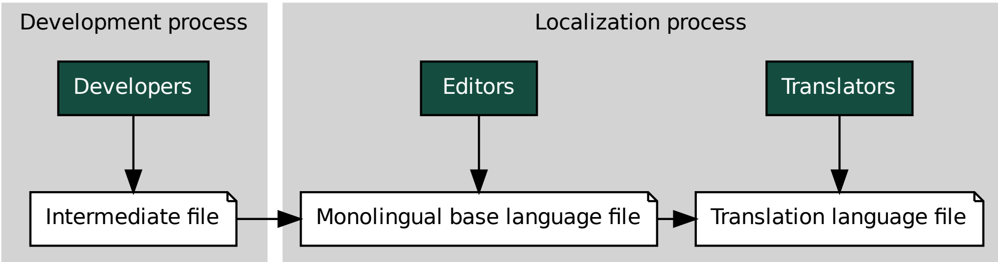


[illegible]: Weblate [illegible] Hosted Weblate [illegible]

[illegible]

[illegible]

[illegible] [illegible]



[illegible]:

[illegible]

[illegible]

[illegible] [illegible]

[illegible] *[illegible]* [illegible] - [illegible]

[illegible] *[illegible]* [illegible]

[illegible]:

[illegible] labels *[illegible]*

[illegible]

[illegible]

[illegible]

Weblate [illegible]

1. [illegible] Weblate [illegible] Git [illegible] *[illegible]* [illegible]
2. Weblate [illegible] *Component configuration* [illegible] URL [illegible] Weblate [illegible]
3. Weblate [illegible] *Component configuration* [illegible] *[illegible]* [illegible] Weblate [illegible] Weblate [illegible]

[illegible]:

[illegible] *Avoiding merge conflicts*

SSH ??????????????????

SSH ??????????*??????????* ??????????

??????????????????

????????Weblate ? upstream ??msgmerge ????????Weblate ??????????????????????Weblate ??????????????????*??* ?????? *??????????* ??

If you've already encountered a merge conflict, the easiest way to solve all conflicts locally on your machine, is to add Weblate as a remote repository, merge it into upstream and fix any conflicts. Once you push changes back, Weblate will be able to use the merged version without any other special actions.

??: ????????Weblate ??????????????????????????Weblate ?????????? *Git exporter* ???????????? API ??????????

```
# Commit all pending changes in Weblate, you can do this in the UI as well:
wlc commit
# Lock the translation in Weblate, again this can be done in the UI as␣
↪well:
wlc lock
# Add Weblate as remote:
git remote add weblate https://hosted.weblate.org/git/project/component/
# You might need to include credentials in some cases:
git remote add weblate https://username:APIKEY@hosted.weblate.org/git/
↪project/component/

# Update weblate remote:
git remote update weblate

# Merge Weblate changes:
git merge weblate/main

# Resolve conflicts:
edit …
git add …
…
git commit

# Push changes to upstream repository, Weblate will fetch merge from there:
git push

# Open Weblate for translation:
wlc unlock
```

Weblate ??:

```
# Add and update Weblate remotes
git remote add weblate-one https://hosted.weblate.org/git/project/one/
git remote add weblate-second https://hosted.weblate.org/git/project/
↪second/
git remote update weblate-one weblate-second

# Merge QA_4_7 branch:
git checkout QA_4_7
git merge weblate-one/QA_4_7
... # Resolve conflicts
git commit

# Merge main branch:
git checkout main
git merge weblates-second/main
... # Resolve conflicts
git commit
```

(??????????)

([illegible])

```
# Push changes to the upstream repository, Weblate will fetch the merge␣
↪from there:
git push
```

gettext PO [illegible]:

Weblate Git [illegible] [illegible]upstream [illegible] Git [illegible]upstream [illegible] Git [illegible] 2 [illegible]: [illegible]:

```
# Add remote:
git remote add weblate /path/to/weblate/snapshot/

# Update Weblate remote:
git remote update weblate

# Merge Weblate changes:
git merge weblate/main

# Resolve conflicts in the PO files:
for PO in `find . -name '*.po'` ; do
    msgcat --use-first /path/to/weblate/snapshot/$PO\
               /path/to/upstream/snapshot/$PO -o $PO.merge
    msgmerge --previous --lang=${PO%.po} $PO.merge domain.pot -o $PO
    rm $PO.merge
    git add $PO
done
git commit

# Push changes to the upstream repository, Weblate will fetch merge from␣
↪there:
git push
```

[illegible]:

How to export the Git repository that Weblate uses?[illegible]*Avoiding merge conflicts*[illegible]*Weblate* [illegible]

[illegible]

Weblate[illegible]1 [illegible] *Project configuration* [illegible] *Component configuration* [illegible]

Weblate [illegible]:

```
git merge -s ours origin/maintenance
```

[illegible]:

Keeping translations same across components

How to translate multi-platform projects?

Weblate supports a wide range of file formats (see *[illegible]*) and the easiest approach is to use the native format for each platform.

Once you have added all platform translation files as components in one project (see *Adding translation projects and components*), you can utilize the translation propagation feature (turned on by default, and can be turned off in the *Component configuration*) to translate strings for all platforms at once.

[illegible]:

Keeping translations same across components

How to export the Git repository that Weblate uses?

There is nothing special about the repository, it lives under the *DATA_DIR* directory and is named `vcs/<project>/<component>/`. If you have SSH access to this machine, you can use the repository directly.

For anonymous access, you might want to run a Git server and let it serve the repository to the outside world.

Alternatively, you can use *Git exporter* inside Weblate to automate this.

What are the options for pushing changes back upstream?

This heavily depends on your setup, Weblate is quite flexible in this area. Here are examples of some workflows used with Weblate:

Weblate automatically pushes and merges changes (see [illegible]).

You manually tell Weblate to push (it needs push access to the upstream repository).

Somebody manually merges changes from the Weblate git repository into the upstream repository.

Somebody rewrites history produced by Weblate (e.g. by eliminating merge commits), merges changes, and tells Weblate to reset the content in the upstream repository.

Of course you are free to mix all of these as you wish.

How can I limit Weblate access to only translations, without exposing source code to it?

You can use git submodule for separating translations from source code while still having them under version control.

1. Create a repository with your translation files.
2. Add this as a submodule to your code:

```
git submodule add git@example.com:project-translations.git path/to/
↪translations
```

3. Link Weblate to this repository, it no longer needs access to the repository containing your source code.
4. You can update the main repository with translations from Weblate by:

```
git submodule update --remote path/to/translations
```

Please consult the git submodule documentation for more details.

How can I check whether my Weblate is set up properly?

Weblate includes a set of configuration checks which you can see in the admin interface, just follow the *Performance report* link in the admin interface, or open the `/manage/performance/` URL directly.

Why are all commits committed by Weblate <noreply@weblate.org>?

This is the default committer name, configured when you create a translation component. You can change it in the administration at any time.

The author of every commit (if the underlying VCS supports it) is still recorded correctly as the user that made the translation.

[illegible]:

Component configuration

Usage

How do I review the translations of others?

There are several review based workflows available in Weblate, see [illegible].

You can subscribe to any changes made in [illegible] and then check others contributions as they come in by e-mail.

There is a review tool available at the bottom of the translation view, where you can choose to browse translations made by others since a given date.

[illegible]:

[illegible]

How do I provide feedback on a source string?

On context tabs below translation, you can use the *Comments* tab to provide feedback on a source string, or discuss it with other translators.

[illegible]:

report-source[illegible]

How can I use existing translations while translating?

Weblate [illegible]

[illegible] [illegible] Weblate [illegible]

Use the import functionality to load compendium as translations, suggestions or translations needing review. This is the best approach for a one-time translation using a compendium or a similar translation database.

You can set up *tmserver* with all databases you have and let Weblate use it. This is good when you want to use it several times during translation.

Another option is to translate all related projects in a single Weblate instance, which will make it automatically pick up translations from other projects as well.

[illegible]:

[illegible]

Does Weblate update translation files besides translations?

Weblate tries to limit changes in translation files to a minimum. For some file formats it might unfortunately lead to reformatting the file. If you want to keep the file formatted your way, please use a pre-commit hook for that.

[illegible]:

updating-target-files

Where do language definitions come from and how can I add my own?

The basic set of language definitions is included within Weblate and Translate-toolkit. This covers more than 150 languages and includes info about plural forms or text direction.

You are free to define your own languages in the administrative interface, you just need to provide info about it.

[illegible]:

[illegible]

Can Weblate highlight changes in a fuzzy string?

Weblate supports this, however it needs the data to show the difference.

For Gettext PO files, you have to pass the parameter `--previous` to **msgmerge** when updating PO files, for example:

```
msgmerge --previous -U po/cs.po po/phpmyadmin.pot
```

For monolingual translations, Weblate can find the previous string by ID, so it shows the differences automatically.

Why does Weblate still show old translation strings when I've updated the template?

Weblate does not try to manipulate the translation files in any way other than allowing translators to translate. So it also does not update the translatable files when the template or source code have been changed. You simply have to do this manually and push changes to the repository, Weblate will then pick up the changes automatically.

[illegible]: It is usually a good idea to merge changes done in Weblate before updating translation files, as otherwise you will usually end up with some conflicts to merge.

For example with gettext PO files, you can update the translation files using the **msgmerge** tool:

```
msgmerge -U locale/cs/LC_MESSAGES/django.mo locale/django.pot
```

In case you want to do the update automatically, you can install addon *POT [illegible] PO [illegible] (msgmerge)*.

[illegible]:

updating-target-files

Troubleshooting

Requests sometimes fail with "too many open files" error

This happens sometimes when your Git repository grows too much and you have many of them. Compressing the Git repositories will improve this situation.

The easiest way to do this is to run:

```
# Go to DATA_DIR directory
cd data/vcs
# Compress all Git repositories
for d in */* ; do
    pushd $d
    git gc
    popd
done
```

[illegible]:

DATA_DIR

When accessing the site I get a "Bad Request (400)" error

This is most likely caused by an improperly configured *ALLOWED_HOSTS*. It needs to contain all hostnames you want to access on your Weblate. For example:

```
ALLOWED_HOSTS = ["weblate.example.com", "weblate", "localhost"]
```

[illegible]:

[illegible]

What does mean "There are more files for the single language (en)"?

This typically happens when you have translation file for source language. Weblate keeps track of source strings and reserves source language for this. The additional file for same language is not processed.

□□□□□□□□□□□□□□□□□□□□□□□□□□□ *□□□□□* □□□□□□□□□□

□□□

□□□□□□□□□□□□□□□□□□□Weblate □□□□□□□□□□□□*□□□□□□□□* □□□□□□□□□□□□□□□□

□□□: You might get similar error message for other languages as well. In that case the most likely reason is that several files map to single language in Weblate.

This can be caused by using obsolete language codes together with new one (`ja` and `jp` for Japanese) or including both country specific and generic codes (`fr` and `fr_FR`). See *□□□□□□□□* for more details.

□□

Does Weblate support other VCSes than Git and Mercurial?

Weblate currently does not have native support for anything other than *Git* (with extended support for *GitHub*, *Gerrit* and *Subversion*) and *Mercurial*, but it is possible to write backends for other VCSes.

You can also use *Git* *□□□□* *□□□□* in Git to access other VCSes.

Weblate also supports VCS-less operation, see *□□□□* *□□□□*.

□□: For native support of other VCSes, Weblate requires using distributed VCS, and could probably be adjusted to work with anything other than Git and Mercurial, but somebody has to implement this support.

□□:

□□□□□□□□□□□

How does Weblate credit translators?

Every change made in Weblate is committed into VCS under the translators name. This way every single change has proper authorship, and you can track it down using the standard VCS tools you use for code.

Additionally, when the translation file format supports it, the file headers are updated to include the translator's name.

□□:

list_translators□../devel/reporting

Why does Weblate force showing all PO files in a single tree?

Weblate was designed in a way that every PO file is represented as a single component. This is beneficial for translators, so they know what they are actually translating.

□□□□□ 4.2 □□□: □□□

Why does Weblate use language codes such sr_Latn or zh_Hant?

These are language codes defined by **RFC 5646** to better indicate that they are really different languages instead previously wrongly used modifiers (for `@latin` variants) or country codes (for Chinese).

Weblate still understands legacy language codes and will map them to current one - for example `sr@latin` will be handled as `sr_Latn` or `zh@CN` as `zh_Hans`.

□□: Weblate defaults to POSIX style language codes with underscore, see *□□□□□* for more details.

□□:

□□□□□, *□□□□□* *□□□□*, *□□□□□□□□*

[illegible]

Weblate [illegible] translate-toolkit [illegible]

[illegible]:

Translation Related File Formats

[illegible]: When choosing a file format for your application, it's better to stick some well established format in the toolkit/platform you use. This way your translators can additionally use whatever tools they are used to, and will more likely contribute to your project.

[illegible]

[illegible] [illegible] [illegible]
GNU gettext[illegible]*XLIFF* [illegible] *Apple iOS strings*[illegible]ID[illegible]ID[illegible]
Android string resources[illegible]

For correct use of monolingual files, Weblate requires access to a file containing complete list of strings to translate with their source—this file is called *[illegible]* within Weblate, though the naming might vary in your paradigm.

Additionally this workflow can be extended by utilizing *[illegible]* to include strings provided by developers, but not to be used as is in the final strings.

[illegible]

Weblate [illegible]

Translation types capabilities

Capabilities of all supported formats:

Format	Linguality[?]	Plurals[?]	Comments[?]	Context[?]	Location[?]	Flags[?]	Additional states[?]
GNU gettext	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible][9]	needs editing
Monolingual gettext	mono	[illegible]	[illegible]	[illegible]	[illegible]	[illegible][?]	needs editing
XLIFF	both	[illegible]	[illegible]	[illegible]	[illegible]	[illegible][10]	needs editing, approved
Java properties	both	no	[illegible]	no	no	no	
mi18n lang [illegible]	mono	no	[illegible]	no	no	no	
GWT [illegible]	mono	[illegible]	[illegible]	no	no	no	
Joomla translations	mono	no	[illegible]	no	[illegible]	no	
Qt Linguist .ts	both	[illegible]	[illegible]	no	[illegible]	[illegible][?]	needs editing
Android string resources	mono	[illegible]	[illegible][7]	no	no	[illegible][?]	
Apple iOS [illegible] strings	[illegible]	no	[illegible]	no	no	no	
PHP [illegible]	mono	[illegible][11]	[illegible]	no	no	no	
JSON files	mono	no	no	no	no	no	
JSON i18next files	mono	[illegible]	no	no	no	no	
go-i18n JSON files	mono	[illegible]	no	no	no	no	
ARB File	mono	[illegible]	[illegible]	no	no	no	
WebExtension JSON	mono	[illegible]	[illegible]	no	no	no	
.XML resource files	mono	no	[illegible]	no	no	[illegible][?]	

[illegible]

Table 1 – [illegible]

Format	Linguality[?]	Plurals[?]	Comments[?]	Context[?]	Location[?]	Flags[?]	Additional states[?]
CSV files	both	no	[illegible]	[illegible]	[illegible]	no	needs editing
YAML files	mono	no	[illegible]	no	no	no	
Ruby YAML files	mono	[illegible]	[illegible]	no	no	no	
DTD files	mono	no	no	no	no	no	
Flat XML files	mono	no	no	no	no	[illegible][?]	
Windows RC files	mono	no	[illegible]	no	no	no	
Excel Open XML	mono	no	[illegible]	[illegible]	[illegible]	no	needs editing
[illegible] [illegible] [illegible] [illegible]	mono	no	no	no	no	no	
Subtitle files	mono	no	no	no	[illegible]	no	
HTML [illegible]	mono	no	no	no	no	no	
OpenDocument Format	mono	no	no	no	no	no	
IDML Format	mono	no	no	no	no	no	
INI translations	mono	no	no	no	no	no	
Inno Setup INI [illegible]	mono	no	no	no	no	no	
TermBase eXchange [illegible]	[illegible]	no	[illegible]	no	no	[illegible][?]	
[illegible]	mono	no	no	no	no	no	
Stringsdict format	mono	[illegible]	[illegible]	no	no	no	
Fluent format	mono	no[12]	[illegible]	no	no	no	

Read-only strings

[illegible] 3.10 [illegible].

Read-only strings from translation files will be included, but can not be edited in Weblate. This feature is natively supported by few formats (*XLIFF* and *Android string resources*), but can be emulated in others by adding a `read-only` flag, see [illegible].

[illegible]: [illegible]

Plurals are necessary to properly localize strings with variable count.

Comments can be used to pass additional info about the string to translate.

Context is used to differentiate identical strings used in different scopes (for example *Sun* can be used as an abbreviated name of the day "Sunday" or as the name of our closest star).

Location of a string in source code might help proficient translators figure out how the string is used.

[illegible]: [illegible]

Additional states supported by the file format in addition to "Not translated" and "Translated".

The gettext type comments are used as flags.

The flags are extracted from the non-standard attribute `weblate-flags` for all XML based formats. Additionally `max-length:N` is supported through the `maxwidth` attribute as defined in the XLIFF standard, see *Specifying translation flags*.

XML comment placed before the `<string>` element, parsed as a developer comment.

The plurals are supported only for Laravel which uses in string syntax to define them, see Localization in Laravel.

Plurals are handled in the syntax of the strings and not exposed as plurals in Weblate.

GNU gettext

libre □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Contextual info stored in the file is supported by adjusting its headers or linking to corresponding source files.

The bilingual gettext PO file typically looks like this:

```
#: weblate/media/js/bootstrap-datepicker.js:1421
msgid "Monday"
msgstr "Pondělí"

#: weblate/media/js/bootstrap-datepicker.js:1421
msgid "Tuesday"
msgstr "Úterý"

#: weblate/accounts/avatar.py:163
msgctxt "No known user"
msgid "None"
msgstr "Žádný"
```

Typical Weblate *Component configuration*

□□□□□□□□	`po/*.po`
□□□□□□□□□□□□□□□□	*Empty*
□□□□□□□□□□□□□□	`po/messages.pot`
□□□□□□□	*Gettext PO file*

□□:

devel/gettext□devel/sphinx□Gettext Wikipedia □□: □PO Files□*configure* □□□□□ *ALL_LINGUAS* □□□□□□*gettext* □□□□□□□□□□*LINGUAS* □□□□□□□□□*MO* □□□□□□□□□*POT* □□□□□ *PO* □□□□□□□□ *(msgmerge)*

Monolingual gettext

Some projects decide to use gettext as monolingual formats—they code just the IDs in their source code and the string then needs to be translated to all languages, including English. This is supported, though you have to choose this file format explicitly when importing components into Weblate.

The monolingual gettext PO file typically looks like this:

```
#: weblate/media/js/bootstrap-datepicker.js:1421
msgid "day-monday"
msgstr "Pondělí"

#: weblate/media/js/bootstrap-datepicker.js:1421
msgid "day-tuesday"
msgstr "Úterý"

#: weblate/accounts/avatar.py:163
msgid "none-user"
msgstr "Žádný"
```

While the base language file will be:

```
#: weblate/media/js/bootstrap-datepicker.js:1421
msgid "day-monday"
msgstr "Monday"

#: weblate/media/js/bootstrap-datepicker.js:1421
msgid "day-tuesday"
msgstr "Tuesday"

#: weblate/accounts/avatar.py:163
msgid "none-user"
msgstr "None"
```

Typical Weblate *Component configuration*

????????	`po/*.po`
????????????????	`po/en.po`
????????????????	`po/messages.pot`
???????	*Gettext PO file (monolingual)*

XLIFF

XML-based format created to standardize translation files, but in the end it is one of many standards, in this area.

XML Localization Interchange File Format (XLIFF) is usually used as bilingual, but Weblate supports it as monolingual as well.

??:

XML Localization Interchange File Format (XLIFF) specification

Translation states

?????? 3.3 ???: Weblate ignored the `state` attribute prior to the 3.3 release.

The `state` attribute in the file is partially processed and mapped to the "Needs edit" state in Weblate (the following states are used to flag the string as needing edit if there is a target present: `new`, `needs-translation`, `needs-adaptation`, `needs-l10n`). Should the `state` attribute be missing, a string is considered translated as soon as a `<target>` element exists.

If the translation string has `approved="yes"`, it will also be imported into Weblate as "Approved", anything else will be imported as "Waiting for review" (which matches the XLIFF specification).

While saving, Weblate doesn't add those attributes unless necessary:

The `state` attribute is only added in case string is marked as needing edit.

The `approved` attribute is only added in case string has been reviewed.

In other cases the attributes are not added, but they are updated in case they are present.

That means that when using the XLIFF format, it is strongly recommended to turn on the Weblate review process, in order to see and change the approved state of strings.

Similarly upon importing such files (in the upload form), you should choose *Import as translated* under *Processing of strings needing edit*.

??:

???????

Whitespace and newlines in XLIFF

Generally types or amounts of whitespace is not differentiated between in XML formats. If you want to keep it, you have to add the `xml:space="preserve"` flag to the string.

?:

```
    <trans-unit id="10" approved="yes">
        <source xml:space="preserve">hello</source>
        <target xml:space="preserve">Hello, world!
</target>
    </trans-unit>
```

Specifying translation flags

You can specify additional translation flags (see ??????????????) by using the `weblate-flags` attribute. Weblate also understands `maxwidth` and `font` attributes from the XLIFF specification:

```
<trans-unit id="10" maxwidth="100" size-unit="pixel" font="ubuntu;22;bold">
   <source>Hello %s</source>
</trans-unit>
<trans-unit id="20" maxwidth="100" size-unit="char" weblate-flags="c-format
↪">
   <source>Hello %s</source>
</trans-unit>
```

The `font` attribute is parsed for font family, size and weight, the above example shows all of that, though only font family is required. Any whitespace in the font family is converted to underscore, so `Source Sans Pro` becomes `Source_Sans_Pro`, please keep that in mind when naming the font group (see ????????).

?????

Weblate identifies the units in the XLIFF file by `resname` attribute in case it is present and falls back to `id` (together with `file` tag if present).

The `resname` attribute is supposed to be human friendly identifier of the unit making it more suitable for Weblate to display instead of `id`. The `resname` has to be unique in the whole XLIFF file. This is required by Weblate and is not covered by the XLIFF standard - it does not put any uniqueness restrictions on this attribute.

Typical Weblate *Component configuration* for bilingual XLIFF

????????	`localizations/*.xliff`
????????????????	*Empty*
????????????	`localizations/en-US.xliff`
???????	*XLIFF Translation File*

Typical Weblate *Component configuration* for monolingual XLIFF

File mask	`localizations/*.xliff`
????????????????	`localizations/en-US.xliff`
????????????	`localizations/en-US.xliff`
???????	*XLIFF Translation File*

??:

XLIFF Wikipedia ??: ?XLIFF?font attribute in XLIFF 1.2 ?maxwidth attribute in XLIFF 1.2

Java properties

Native Java format for translations.

Java properties are usually used as monolingual translations.

Weblate supports ISO-8859-1, UTF-8 and UTF-16 variants of this format. All of them support storing all Unicode characters, it is just differently encoded. In the ISO-8859-1, the Unicode escape sequences are used (for example `zkou\u0161ka`), all others encode characters directly either in UTF-8 or UTF-16.

??: Loading escape sequences works in UTF-8 mode as well, so please be careful choosing the correct encoding set to match your application needs.

Typical Weblate *Component configuration*

????????	`src/app/Bundle_*.properties`
????????????????	`src/app/Bundle.properties`
????????????	*Empty*
???????	*Java Properties (ISO-8859-1)*

??:

Java properties Wikipedia ??: ?Mozilla and Java properties files?*mi18n lang* ?????updating-target-files?*Java* ?????? ????????.????????????????

mi18n lang [illegible]

[illegible] 4.7 [illegible].

File format used for JavaScript localization by mi18n. Syntactically it matches *Java properties*.

Typical Weblate *Component configuration*

[illegible]	`*.lang`
[illegible]	`en-US.lang`
[illegible]	*Empty*
[illegible]	*mi18n lang [illegible]*

[illegible]:

mi18n Mozilla and Java properties files[illegible]*Java properties*[illegible]updating-target-files[illegible]*Java* [illegible]

GWT [illegible]

Native GWT format for translations.

GWT properties are usually used as monolingual translations.

Typical Weblate *Component configuration*

[illegible]	`src/app/Bundle_*.properties`
[illegible]	`src/app/Bundle.properties`
[illegible]	*Empty*
[illegible]	*GWT Properties*

[illegible]:

GWT localization guide[illegible]GWT Internationalization Tutorial[illegible]Mozilla and Java properties files[illegible]*Java* [illegible]updating-target-files[illegible]

INI translations

[illegible] 4.1 [illegible].

INI file format for translations.

INI translations are usually used as monolingual translations.

Typical Weblate *Component configuration*

[illegible]	`language/*.ini`
[illegible]	`language/en.ini`
[illegible]	*Empty*
[illegible]	*INI File*

[illegible]: Weblate only extracts keys from sections within an INI file. In case your INI file lacks sections, you might want to use *Joomla translations* or *Java properties* instead.

[illegible]:

INI Files[illegible]*Java properties*[illegible]*Joomla translations*[illegible]*Inno Setup INI* [illegible]

Inno Setup INI ???

????? 4.1 ???.

???? Inno Setup INI ????????

Inno Setup INI ????????????????????????????????

??: The only notable difference to *INI translations* is in supporting `%n` and `%t` placeholders for line break and tab.

Typical Weblate *Component configuration*

????????	`language/*.islu`
?????????????????	`language/en.islu`
??????????????	*Empty*
???????	*Inno Setup INI File*

??: Only Unicode files (`.islu`) are currently supported, ANSI variant (`.isl`) is currently not supported.

??:

INI Files?*Joomla translations*?*INI translations*

Joomla translations

????? 2.12 ???.

Native Joomla format for translations.

Joomla translations are usually used as monolingual translations.

Typical Weblate *Component configuration*

????????	`language/*/com_foobar.ini`
?????????????????	`language/en-GB/com_foobar.ini`
??????????????	*Empty*
???????	*Joomla Language File*

??:

Mozilla and Java properties files, *INI translations*, *Inno Setup INI ???*

Qt Linguist .ts

Translation format used in Qt based applications.

Qt Linguist files are used as both bilingual and monolingual translations.

Typical Weblate *Component configuration* when using as bilingual

????????	`i18n/app.*.ts`
?????????????????	*Empty*
??????????????	`i18n/app.de.ts`
???????	*Qt Linguist Translation File*

Typical Weblate *Component configuration* when using as monolingual

????????	`i18n/app.*.ts`
?????????????????	`i18n/app.en.ts`
??????????????	`i18n/app.en.ts`
???????	*Qt Linguist Translation File*

??:

Qt Linguist manual ?Qt .ts?????????????????????

Android string resources

Android specific file format for translating applications.

Android string resources are monolingual, the [illegible] is stored in a different location from the others `res/values/strings.xml`.

Typical Weblate *Component configuration*

[illegible]	`res/values-*/strings.xml`
[illegible]	`res/values/strings.xml`
[illegible]	*Empty*
[illegible]	*Android String Resource*

[illegible]:

Android string resources documentation [illegible]Android string resources

---

[illegible]: Android *string-array* structures are not currently supported. To work around this, you can break your string arrays apart:

```
<string-array name="several_strings">
    <item>First string</item>
    <item>Second string</item>
</string-array>
```

become:

```
<string-array name="several_strings">
    <item>@string/several_strings_0</item>
    <item>@string/several_strings_1</item>
</string-array>
<string name="several_strings_0">First string</string>
<string name="several_strings_1">Second string</string>
```

The *string-array* that points to the *string* elements should be stored in a different file, and not be made available for translation.

This script may help pre-process your existing strings.xml files and translations: https://gist.github.com/paour/11291062

Apple iOS strings

Apple specific file format for translating applications, used for both iOS and iPhone/iPad application translations.

Apple iOS strings are usually used as bilingual translations.

Typical Weblate *Component configuration*

[illegible]	`Resources/*.lproj/Localizable.strings`
[illegible]	`sources/en.lproj/Localizable.strings` or `Resources/Base.lproj/Localizable.strings`
[illegible]	*Empty*
[illegible]	*iOS Strings (UTF-8)*

[illegible]:

Stringsdict format, Apple "strings files" documentation, Mac OSX strings

PHP ???

PHP translations are usually monolingual, so it is recommended to specify a base file with (what is most often the) English strings.

Example file:

```
<?php
$LANG['foo'] = 'bar';
$LANG['foo1'] = 'foo bar';
$LANG['foo2'] = 'foo bar baz';
$LANG['foo3'] = 'foo bar baz bag';
```

Typical Weblate *Component configuration*

????????	`lang/*/texts.php`
????????????????	`lang/en/texts.php`
????????????	`lang/en/texts.php`
???????	*PHP strings*

Laravel PHP ???

????? 4.1 ???.

The Laravel PHP localization files are supported as well with plurals:

```
<?php
return [
    'welcome' => 'Welcome to our application',
    'apples' => 'There is one apple|There are many apples',
];
```

??:

PHP?Localization in Laravel

JSON files

????? 2.0 ???.

????? 2.16 ???: Since Weblate 2.16 and with translate-toolkit at-least 2.2.4, nested structure JSON files are supported as well.

????? 4.3 ???: The structure of JSON file is properly preserved even for complex situations which were broken in prior releases.

JSON format is used mostly for translating applications implemented in JavaScript.

Weblate currently supports several variants of JSON translations:

Simple key / value files, used for example by *vue-i18n* or *react-intl*.

Files with nested keys.

JSON i18next files

go-i18n JSON files

WebExtension JSON

ARB File

JSON translations are usually monolingual, so it is recommended to specify a base file with (what is most often the) English strings.

Example file:

```
{
  "Hello, world!\n": "Ahoj světe!\n",
  "Orangutan has %d banana.\n": "",
  "Try Weblate at https://demo.weblate.org/!\n": "",
  "Thank you for using Weblate.": ""
}
```

Nested files are supported as well (see above for requirements), such a file can look like:

```
{
  "weblate": {
    "hello": "Ahoj světe!\n",
    "orangutan": "",
    "try": "",
    "thanks": ""
  }
}
```

???: The *JSON file* and *JSON nested structure file* can both handle same type of files. Both preserve existing JSON structure when translating.

The only difference between them is when adding new strings using Weblate. The nested structure format parses the newly added key and inserts the new string into the matching structure. For example `app.name` key is inserted as:

```
{
   "app": {
      "name": "Weblate"
   }
}
```

Typical Weblate *Component configuration*

????????	`langs/translation-*.json`
?????????????	`langs/translation-en.json`
?????????????	*Empty*
???????	*JSON nested structure file*

??:

JSON?updating-target-files?*JSON* ??????????????????????????,

JSON i18next files

????? 2.17 ???: Since Weblate 2.17 and with translate-toolkit at-least 2.2.5, i18next JSON files with plurals are supported as well.

i18next is an internationalization framework written in and for JavaScript. Weblate supports its localization files with features such as plurals.

i18next translations are monolingual, so it is recommended to specify a base file with (what is most often the) English strings.

??: Weblate ? i18next JSON v3 ??????????v2 ? v1 ????????????????????????????????

Example file:

```
{
  "hello": "Hello",
  "apple": "I have an apple",
  "apple_plural": "I have {{count}} apples",
  "apple_negative": "I have no apples"
}
```

Typical Weblate *Component configuration*

????????	`langs/*.json`
?????????????	`langs/en.json`
?????????????	*Empty*
???????	*i18next JSON file*

??:

JSON?i18next JSON Format ? updating-target-files?*JSON* ??????????????????????????

go-i18n JSON files

□□□□□ 4.1 □□□.

go-i18n translations are monolingual, so it is recommended to specify a base file with (what is most often the) English strings.

□□: Weblate supports the go-i18n JSON v1 format, for flat JSON formats please use *JSON files*. The v2 format with hash is currently not supported.

Typical Weblate *Component configuration*	
□□□□□□□	`langs/*.json`
□□□□□□□□□□□□□□	`langs/en.json`
□□□□□□□□□□□□	*Empty*
□□□□□□	*go-i18n JSON file*

□□:

JSON□go-i18n □ updating-target-files□*JSON □□□□□□□□□□□□□□□□□□□□□□□□□□□□*

ARB File

□□□□□ 4.1 □□□.

ARB translations are monolingual, so it is recommended to specify a base file with (what is most often the) English strings.

Typical Weblate *Component configuration*	
□□□□□□□	`lib/l10n/intl_*.arb`
□□□□□□□□□□□□□□	`lib/l10n/intl_en.arb`
□□□□□□□□□□□□	*Empty*
□□□□□□	*ARB file*

□□:

JSON□Application Resource Bundle Specification □Internationalizing Flutter apps □ updating-target-files□*JSON □□□□□□□□□□□□□□□□□□□□□□□□□□□□*

WebExtension JSON

□□□□□ 2.16 □□□: This is supported since Weblate 2.16 and with translate-toolkit at-least 2.2.4.

File format used when translating extensions for Mozilla Firefox or Google Chromium.

□□: While this format is called JSON, its specification allows to include comments, which are not part of JSON specification. Weblate currently does not support file with comments.

Example file:

```
{
  "hello": {
    "message": "Ahoj světe!\n",
    "description": "Description",
    "placeholders": {
      "url": {
        "content": "$1",
        "example": "https://developer.mozilla.org"
      }
    }
  },
  "orangutan": {
    "message": "",
    "description": "Description"
  },
```

(□□□□□□□□□)

(□□□□□□□□□□)

```
  "try": {
    "message": "",
    "description": "Description"
  },
  "thanks": {
    "message": "",
    "description": "Description"
  }
}
```

Typical Weblate *Component configuration*

□□□□□□□	`_locales/*/messages.json`
□□□□□□□□□□□□□□	`_locales/en/messages.json`
□□□□□□□□□□□□	*Empty*
□□□□□□	*WebExtension JSON file*

□□:

JSON□Google chrome.i18n □Mozilla Extensions Internationalization

.XML resource files

□□□□□ 2.3 □□□.

A .XML resource (.resx) file employs a monolingual XML file format used in Microsoft .NET applications. It is interchangeable with .resw, when using identical syntax to .resx.

Typical Weblate *Component configuration*

□□□□□□□	`Resources/Language.*.resx`
□□□□□□□□□□□□□□	`Resources/Language.resx`
□□□□□□□□□□□□	*Empty*
□□□□□□	*.NET resource file*

□□:

.NET Resource files (.resx)□ updating-target-files□ref:*addon-weblate.cleanup.generic*

CSV files

□□□□□ 2.4 □□□.

CSV files can contain a simple list of source and translation. Weblate supports the following files:

Files with header defining fields (`location`, `source`, `target`, `ID`, `fuzzy`, `context`, `translator_comments`, `developer_comments`). This is the recommended approach, as it is the least error prone. Choose *CSV file* as a file format.

Files with two fields—source and translation (in this order). Choose *Simple CSV file* as a file format.

Headerless files with fields in order defined by the translate-toolkit: `location`, `source`, `target`, `ID`, `fuzzy`, `context`, `translator_comments`, `developer_comments`. Choose *CSV file* as a file format.

Remember to define □□□□□□□□□□□□□□□ when your files are monolingual (see □□□□□□□□□□□□□□□□□□□□).

□□: The CSV format currently automatically detects the dialect of the CSV file. In some cases the automatic detection might fail and you will get mixed results. This is especially true for CSV files with newlines in the values. As a workaround it is recommended to omit quoting characters.

Example file:

```
Thank you for using Weblate.,Děkujeme za použití Weblate.
```

Typical Weblate *Component configuration* for bilingual CSV

????????	`locale/*.csv`
?????????????????	*Empty*
?????????????	`locale/en.csv`
???????	*CSV file*

Typical Weblate *Component configuration* for monolingual CSV

????????	`locale/*.csv`
?????????????????	`locale/en.csv`
?????????????	`locale/en.csv`
???????	*????? CSV ????*

??:

CSV

YAML files

????? 2.9 ???.

The plain YAML files with string keys and values. Weblate also extract strings from lists or dictionaries.

Example of a YAML file:

```
weblate:
  hello: ""
  orangutan": ""
  try": ""
  thanks": ""
```

Typical Weblate *Component configuration*

????????	`translations/messages.*.yml`
?????????????????	`translations/messages.en.yml`
?????????????	*Empty*
???????	*YAML file*

??:

YAML?*Ruby YAML files*

Ruby YAML files

????? 2.9 ???.

Ruby i18n YAML files with language as root node.

Example Ruby i18n YAML file:

```
cs:
  weblate:
    hello: ""
    orangutan: ""
    try: ""
    thanks: ""
```

Typical Weblate *Component configuration*

????????	`translations/messages.*.yml`
?????????????????	`translations/messages.en.yml`
?????????????	*Empty*
???????	*Ruby YAML file*

??:

YAML?*YAML files*

DTD files

□□□□□ 2.18 □□□.

Example DTD file:

```
<!ENTITY hello "">
<!ENTITY orangutan "">
<!ENTITY try "">
<!ENTITY thanks "">
```

Typical Weblate *Component configuration*

□□□□□□□	`locale/*.dtd`
□□□□□□□□□□□□□□□	`locale/en.dtd`
□□□□□□□□□□□□□	*Empty*
□□□□□□□	*DTD file*

□□:

Mozilla DTD format

Flat XML files

□□□□□ 3.9 □□□.

Example of a flat XML file:

```
<?xml version='1.0' encoding='UTF-8'?>
<root>
  <str key="hello_world">Hello World!</str>
  <str key="resource_key">Translated value.</str>
</root>
```

Typical Weblate *Component configuration*

□□□□□□□	`locale/*.xml`
□□□□□□□□□□□□□□□	`locale/en.xml`
□□□□□□□□□□□□□	*Empty*
□□□□□□□	*Flat XML file*

□□:

Flat XML

Windows RC files

□□□□□ 4.1 □□□: Support for Windows RC files has been rewritten.

□□: Support for this format is currently in beta, feedback from testing is welcome.

Example Windows RC file:

```
LANGUAGE LANG_CZECH, SUBLANG_DEFAULT

STRINGTABLE
BEGIN
    IDS_MSG1                "Hello, world!\n"
    IDS_MSG2                "Orangutan has %d banana.\n"
    IDS_MSG3                "Try Weblate at http://demo.weblate.org/!\n"
    IDS_MSG4                "Thank you for using Weblate."
END
```

Typical Weblate *Component configuration*

????????	`lang/*.rc`
????????????????	`lang/en-US.rc`
????????????	`lang/en-US.rc`
???????	*RC file*

??:

Windows RC files

??? ??? ?????? ?????

?????? 3.5 ???.

Metadata used for publishing apps in various app stores can be translated. Currently the following tools are compatible:

Triple-T gradle-play-publisher

Fastlane

F-Droid

The metadata consists of several textfiles, which Weblate will present as separate strings to translate.

Typical Weblate *Component configuration*

????????	`fastlane/android/metadata/*`
????????????????	`fastlane/android/metadata/en-US`
????????????	`fastlane/android/metadata/en-US`
???????	*App store metadata files*

???: In case you don't want to translate certain strings (for example changelogs), mark them read-only (see *??????????????*). This can be automated by the *?????*.

Subtitle files

?????? 3.7 ???.

Weblate ????????????????????????

SubRip subtitle file (`*.srt`)

MicroDVD subtitle file (`*.sub`)

Advanced Substation Alpha subtitles file (`*.ass`)

Substation Alpha subtitle file (`*.ssa`)

Typical Weblate *Component configuration*

????????	???? `??/*.srt`
????????????????	???? `??/en.srt`
????????????	???? `??/en.srt`
???????	*SubRip subtitle file*

??:

Subtitles

Excel Open XML

□□□□□ 3.2 □□□.

Excel Open XML (.xlsx) files can be imported and exported.

When uploading XLSX files for translation, be aware that only the active worksheet is considered, and there must be at least a column called `source` (which contains the source string) and a column called `target` (which contains the translation). Additionally there should be the column called `context` (which contains the context path of the translation string). If you use the XLSX download for exporting the translations into an Excel workbook, you already get a file with the correct file format.

HTML □□□□

□□□□□ 4.1 □□□.

□□: Support for this format is currently in beta, feedback from testing is welcome.

The translatable content is extracted from the HTML files and offered for the translation.

□□:

HTML

□□□□□□□□□

□□□□□ 4.6 □□□.

□□: Support for this format is currently in beta, feedback from testing is welcome.

The translatable content is extracted from the plain text files and offered for the translation. Each paragraph is translated as a separate string.

□□□□□ 3 □□:

□□□□□□□□□□□□□

DokuWiki □□□□□□□□□

MediaWiki □□□□□□□□□

□□:

Simple Text Documents

OpenDocument Format

□□□□□ 4.1 □□□.

□□: Support for this format is currently in beta, feedback from testing is welcome.

The translatable content is extracted from the OpenDocument files and offered for the translation.

□□:

OpenDocument Format

IDML Format

□□□□□ 4.1 □□□.

□□: Support for this format is currently in beta, feedback from testing is welcome.

The translatable content is extracted from the Adobe InDesign Markup Language files and offered for the translation.

TermBase eXchange □□

□□□□□ 4.5 □□□.

TBX □□□□□□□□□□□□□□□□□ XML □□□□□

Typical Weblate *Component configuration*

□□□□□□□	`tbx/*.tbx`
□□□□□□□□□□□□□	*Empty*
□□□□□□□□□□□	*Empty*
□□□□□□	*TermBase eXchange □□□□*

□□:

`TBX Wikipedia □□<https://en.wikipedia.org/wiki/TermBase_eXchange>`_ □TBX□□□□

Stringsdict format

□□□□□ 4.8 □□□.

□□: Support for this format is currently in beta, feedback from testing is welcome.

XML based format used by Apple which is able to store plural forms of a string.

Typical Weblate *Component configuration*

□□□□□□□	`Resources/*.lproj/Localizable.stringsdict`
□□□□□□□□□□□□□	`□□□ources/en.lproj/Localizable.stringsdict` or `Resources/Base.lproj/Localizable.stringsdict`
□□□□□□□□□□□	*Empty*
□□□□□□	*Stringsdict file*

□□:

Apple iOS strings, Stringsdict File Format

Fluent format

□□□□□ 4.8 □□□.

□□: Support for this format is currently in beta, feedback from testing is welcome.

Fluent is a monolingual text format that focuses on asymmetric localization: a simple string in one language can map to a complex multi-variant translation in another language.

Typical Weblate *Component configuration*

□□□□□□□	`locales/*/messages.ftl`
□□□□□□□□□□□□□	`locales/en/messages.ftl`
□□□□□□□□□□□	*Empty*
□□□□□□	*Fluent file*

□□:

Project Fluent website

[illegible]

Most formats supported by translate-toolkit which support serializing can be easily supported, but they did not (yet) receive any testing. In most cases some thin layer is needed in Weblate to hide differences in behavior of different translate-toolkit storages.

To add support for a new format, the preferred approach is to first implement support for it in the translate-toolkit.

[illegible]:

Translation Related File Formats

[illegible]

Weblate [illegible] *Git* [illegible]*GitHub*[illegible]*Gerrit* [illegible] *Subversion* [illegible] *Mercurial* [illegible]

[illegible]

[illegible] VCS [illegible] Weblate [illegible] URL[illegible]: *https://github.com/WeblateOrg/weblate.git*`[illegible] URL [illegible]

Hosted Weblate [illegible]

Hosted Weblate [illegible] GitHub[illegible]Bitbucket[illegible]Codeberg[illegible] GitLab[illegible] *weblate*[illegible] `hosted@weblate.org` [illegible] *Weblate push user* [illegible]

GitHub [illegible] *weblate* [illegible]5 [illegible]

weblate [illegible]SSH [illegible]: `git@github.com:WeblateOrg/weblate.git`[illegible] *[illegible]* [illegible] *[illegible] URL* [illegible]

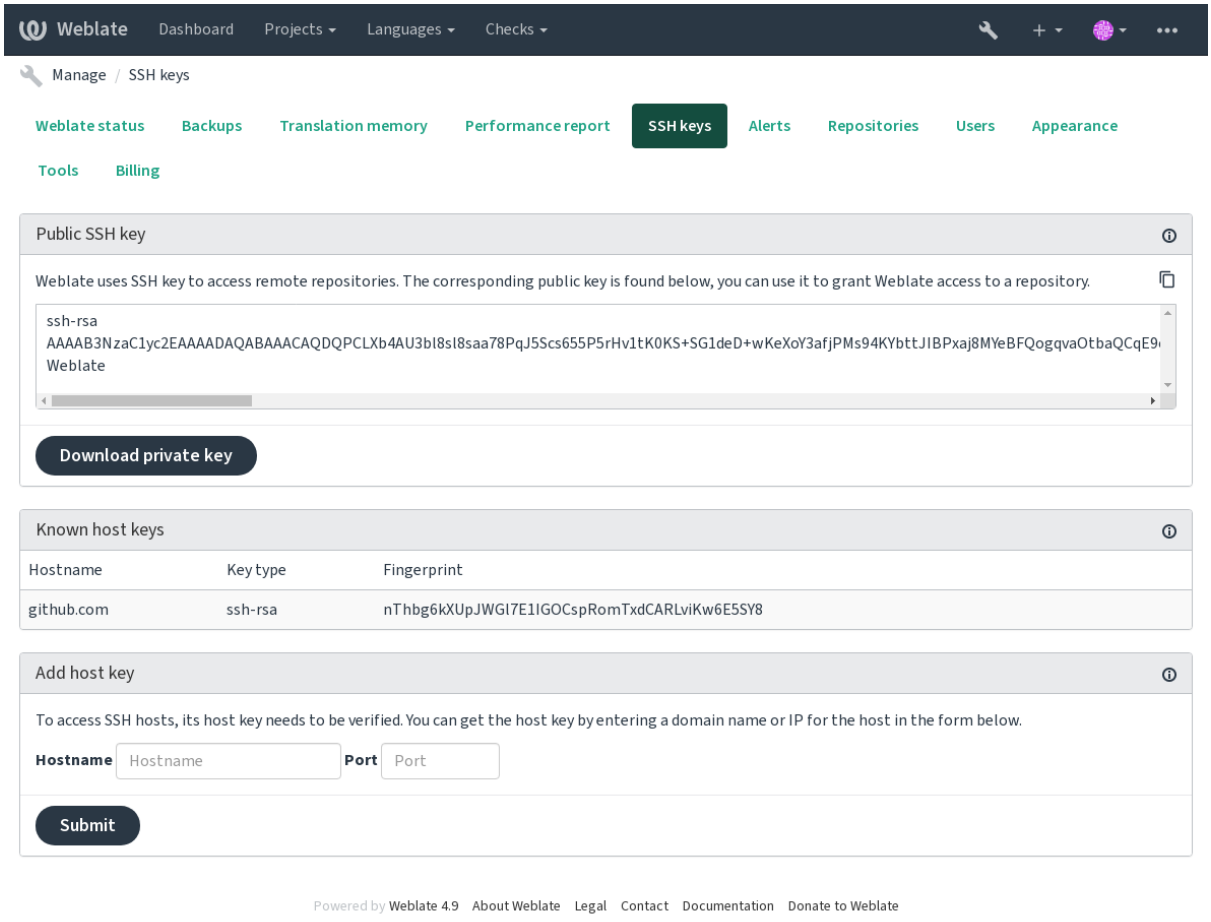
SSH [illegible]

[illegible] [illegible]SSH [illegible]SSH [illegible] upstream [illegible]Weblate SSH [illegible]: *Weblate SSH [illegible]*

> **[illegible]:** GitHub [illegible] 1 [illegible]: *GitHub [illegible]* [illegible] *Hosted Weblate [illegible]*

[illegible]Weblate [illegible]: *SSH [illegible]*

[illegible]Weblate [illegible]



Weblate SSH ??

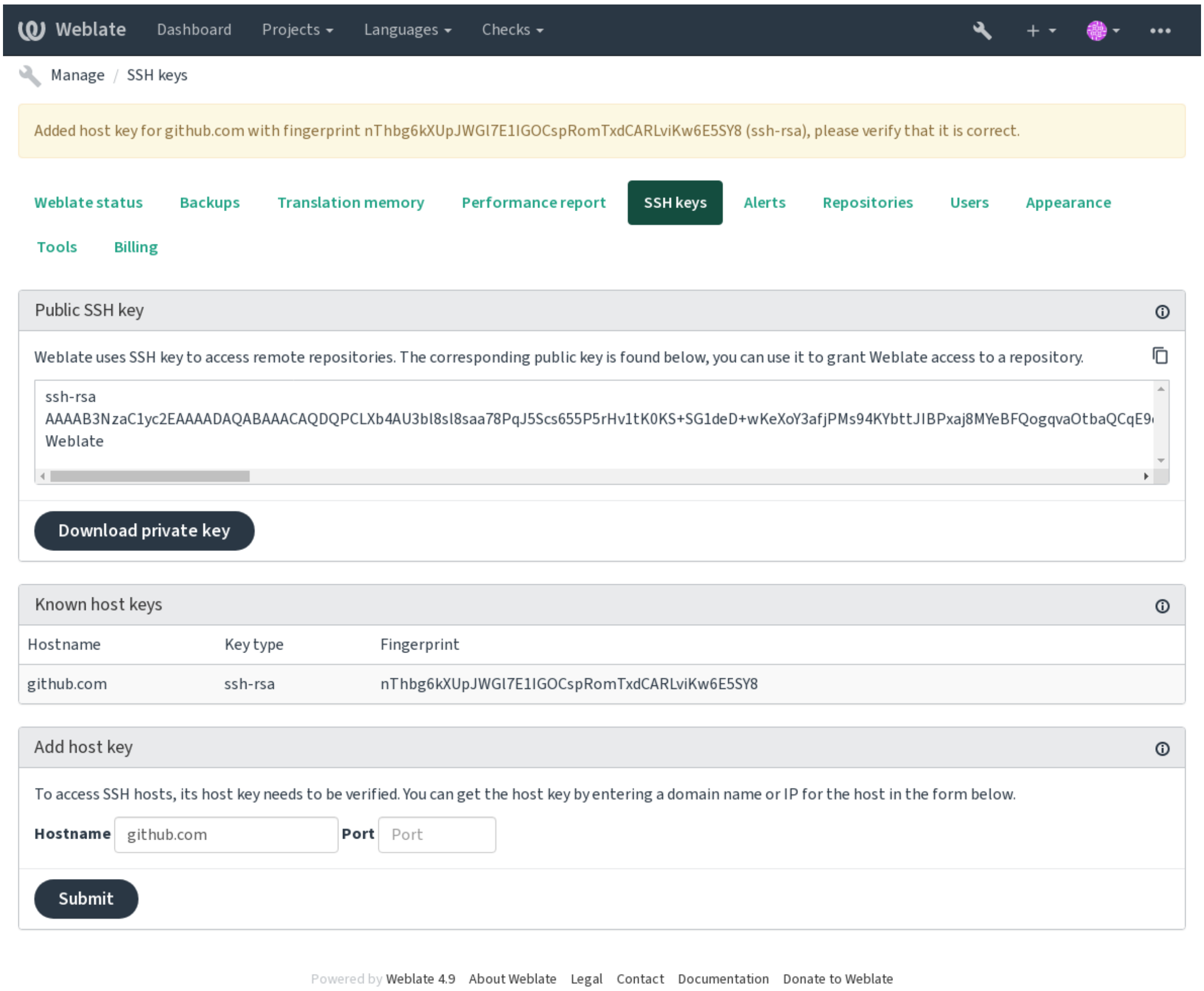
Weblate ??????*About* ??????????????????????????
??????????????? ????????????? *SSH keys*?? Weblate ??????????????????????????????

??: ?????????? SSH ??

???: ?????????????? Weblate ? SSH ???????????????????

SSH ??????????

Weblate ?????????????????????????? SSH ???????????????????
?? */?/?/?/?/?/?* ?????????? SSH
??????????????????????????????: `gitlab.com`??????*?/?/?* ??
??????????????????????????:



GitHub □□□□□

SSH □□□□□□□□□□□□□□□: *SSH □□□□*□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ SSH □□□□□□□ GitHub □□□□□□□□□□□□□□□□□□ 1 □□□□□

□□□□□ push □□□ upstream □□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□HTTPS □□□□□□□□□□ □□□□□□ GitHub □□□□□□□□□□□□□□□□: Creating an access token for command-line use □

□□□□□□□□□□□□□□□□Weblate □□□□□□□□□□□□□□□□□ Weblate □□□□□□□□ SSH □□□□□□□: *Weblate SSH □□* Hosted Weblate □□□□□□□□□□□ *weblate* □□□□□□□□□□□□□

□□:

Hosted Weblate □□□□□□□□□□□□

Weblate □□□ URL

□□□□□□□□□□□□□□□□□□□ □weblate :// project/component□ □□□ (□□) □□□□□□□□VCS□□□□□□□□□□□□□□□

> **□□:** Removing main component also removes linked components.

Weblate □□ URL □□□□□□□URL □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

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Weblate □□□□□□□□□□□□□□□□□□□□□□□□□ 1 □□□□□□: *Git exporter*□□

□□□: *Git □□□□□□□□□*□

HTTPS □□□□□□

□□□□□ HTTPS □□□□□□□□□□□□□□URL □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□URL □□□□□□□□□□□□□□□□□Weblate □□□□□□□□□□□□□□□□□□□□ URL □□□□□□□□□□□□□□□□

□□□□□□□□□□□□ GitHub URL □□□□□□□□□□□: `https://user:your_access_token@github.com/WeblateOrg/weblate.git`□

> **□□:** □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□URL □□□□□□□□□□□□□□□□□ `https://user%40example.com:%24password%23@bitbucket.org/…`□

□□□□□□□□□

□□□□□ □□□□□□□□□□□ HTTP/HTTPS VCS □□□□□□□□□□□□□□□□□□□□□□□□VCS □□□□□□□□□□□□

□□□□□□□□□cURL documentation □□□□□□□□□ `http_proxy`□ `https_proxy`□□□□ `all_proxy` □□□□□□□□VCS □□□□□□□□□□□□□□□□:

```
git config --global http.proxy http://user:password@proxy.example.com:80
```

> **□□:** □□□□□□□□□□Weblate □□□□□□□□□□□□□□□□□□□: *□□□□ □□□□□□□□□□□□□□* ``HOME=$DATA_DIR/home``□□□: *DATA_DIR*□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Weblate □ Git □□□□□□□□□□

□□:

The cURL manpage □Git config documentation

Git

> **□□□:** Weblate needs Git 2.12 or newer.

□□:

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□*□□□□□□□□□□□* □□□□□□□□□□□□□

Git [illegible]

[illegible] Git [illegible]

> **[illegible]:** upstream [illegible]

Git [illegible]

Weblate [illegible] VCS [illegible] `HOME=$DATA_DIR/home` [illegible]: *DATA_DIR*[illegible] `DATA_DIR/home/.git` [illegible]

Git [illegible] [illegible]

[illegible] remote helpers [illegible]

[illegible]Bazaar [illegible] Mercurial [illegible] GitHub [illegible]GitHub: git-remote-hg [illegible] git-remote-bzr [illegible]: `~/bin`[illegible]

[illegible] Weblate [illegible]

Bazaar [illegible] Launchpad [illegible] `gnuhello` [illegible]:

```
bzr::lp:gnuhello
```

Mercurial [illegible] selenic.com [illegible] `hello` [illegible]:

```
hg::http://selenic.com/repo/hello
```

> **[illegible]:** Git [illegible] Mercurial [illegible] tip [illegible]

GitHub

[illegible] 2.3 [illegible].

[illegible]GithHub API [illegible] *Git* [illegible]

Git [illegible]*GitHub* [illegible] Git [illegible]

[illegible]:

Pushing changes from Weblate

[illegible] GitHub [illegible]

[illegible] GitHub [illegible] 1 [illegible]

[illegible]API [illegible]

[illegible]:

GITHUB_USERNAME[illegible]*GITHUB_TOKEN*[illegible]*GITHUB_CREDENTIALS*

GitLab

[illegible] 3.9 [illegible].

[illegible]GitLab API [illegible] [illegible] *Git* [illegible]

Git[illegible] *Git* [illegible]*Git* [illegible]*GitLab* [illegible]

[illegible]:

Pushing changes from Weblate

GitLab [illegible]

[illegible] GitLab [illegible] 1 [illegible]

[illegible]API [illegible]

[illegible]:

GITLAB_USERNAME[illegible]*GITLAB_TOKEN*[illegible]*GITLAB_CREDENTIALS*

Pagure

[illegible] 4.3.2 [illegible].

[illegible]Pagure API [illegible] [illegible] *Git* [illegible]

Git [illegible] *Git* [illegible]*Git* [illegible]*Pagure* [illegible]

[illegible]:

Pushing changes from Weblate

[illegible] Pagure [illegible]

[illegible] Pagure [illegible] 1 [illegible]

[illegible]API [illegible]

[illegible]:

PAGURE_USERNAME[illegible]*PAGURE_TOKEN*[illegible]*PAGURE_CREDENTIALS*

Gerrit

[illegible] 2.2 [illegible].

git-review [illegible]Gerrit [illegible]*Git* [illegible]

Gerrit [illegible]

Mercurial

[illegible] 2.1 [illegible].

Mercurial [illegible]Weblate [illegible] 1 [illegible] VCS [illegible]

[illegible]: Mercurial [illegible]Weblate [illegible]

[illegible]:

[illegible]*[illegible]* [illegible]

Subversion

□□□□□ 2.8 □□□.

Weblate □ git-svn □□□□□ subversion □□□□□□□□□□□□□□□□□□Git □□□□□□□ Subversion □□□□□□ Perl □□□

□□: Weblate □ Subversion □□□□□ □□□□□□□□□□□□□□□□□□□□□ □ □□□□□□□□ URL □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□branches/□tags/□□□□ trunk/)□□□□ git-svn documentation □□ URL □□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□ 2.19 □□□: □□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□

Subversion □□□□

Weblate □□*DATA_DIR* □□□□□□□□□□□□□□□□'svn' □□□□□ □'$HOME' □□□□□ *DATA_DIR* □□□□□□□□□□□□□□□□□□□□

```
# Use DATA_DIR as configured in Weblate settings.py, it is /app/data in␣
↪the Docker
HOME=${DATA_DIR}/home svn co https://svn.example.com/example
```

□□:

DATA_DIR

□□□□ □□□□

Git

□□□: Underneath, this uses *Git*. It requires Git installed and allows you to switch to using Git natively with full history of your translations.

□□□□□ 3.8 □□□.

Weblate □□□□□□ VCS □□□Weblate □□□

Weblate □□□□□□□□□□ Git □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ VCS □□□□□□□□□□□□□□□□□□□□□□ Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□

Weblate □ REST API

□□□□□ 2.6 □□□: REST API □□Weblate 2.6 □□□□□□□□□□

API □ /api/ URL □□□□□□□□□□Django REST framework □□□□□□□□□□□□□□□□□□□□□□□□□□*Weblate □□□□□□* □□□□□□□□□□

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ANY /

API □□
□□□ □□□□□

format -- □□□□□□□□□Accept □□□□□□□□□□□□□□□□□□ REST □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ json □□□ api □□□□□□□□□□API □□ Web □□□□□ □□□□□□□□□□□□□□□□□□□

page -- Returns given page of paginated results (use *next* and *previous* fields in response to automate the navigation).
□□□□□ □□□□

Accept -- □□□□□□□□□□□□ Accept □□□□□□□□□□□

Authorization -- optional token to authenticate as `Authorization: Token YOUR-TOKEN`

□□□□□ □□□□

Content-Type -- □□□□□□□ Accept □□□□□□□□□□

Allow -- □□□□□□□□□□□□□□□□ HTTP □□□□□□□□□
□□□□□□ JSON □□□□□□□

detail (*string*) -- □□□□□□□□□□200 OK □□□ HTTP □□□□□□ □□□□□□□□

count (*int*) -- □□□□□□□ □□□□□□□□□□

next (*string*) -- □□□□□□□ □□□□□□□□□□ URL

previous (*string*) -- □□□□□□□ □□□□□□□□□□ URL

results (*array*) -- □□□□□□□ □□□□□□□

url (*string*) -- □□□□□□□□□ API □□□□□□□□□□□□ URL

web_url (*string*) -- □□□□□□□□□ Web □□□□□□□□□□□□□□□□□ URL
□□□□□□□□□

200 OK -- □□□□□□□□□□□□□□□□□□□

201 Created -- □□□□□□□□□□□□□□□□□□□□□□□□□

204 No Content -- □□□□□□□□□□□□□□□□□□□□

400 Bad Request -- □□□□□ □□□□□□□□□□□□□□□□

403 Forbidden -- □□□□□□□□□□□□□□

429 Too Many Requests -- □□□□□□□□□□□□□□□□□□

□□□□

□□□□□□□□:

```
GET /api/ HTTP/1.1
Host: example.com
Accept: application/json, text/javascript
Authorization: Token YOUR-TOKEN
```

□□□□□□□□:

```
HTTP/1.0 200 OK
Date: Fri, 25 Mar 2016 09:46:12 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, HEAD, OPTIONS

{
    "projects":"http://example.com/api/projects/",
    "components":"http://example.com/api/components/",
    "translations":"http://example.com/api/translations/",
    "languages":"http://example.com/api/languages/"
}
```

CURL □□:

```
curl \
    -H "Authorization: Token TOKEN" \
    https://example.com/api/
```

??????????

POST ??????????????*application/x-www-form-urlencoded*???? JSON?*application/json*??????????????????

???? ????:

```
POST /api/projects/hello/repository/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/x-www-form-urlencoded
Authorization: Token TOKEN

operation=pull
```

JSON ????:

```
POST /api/projects/hello/repository/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{"operation":"pull"}
```

CURL ??:

```
curl \
    -d operation=pull \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/components/hello/weblate/repository/
```

CURL JSON ??:

```
curl \
    --data-binary '{"operation":"pull"}' \
    -H "Content-Type: application/json" \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/components/hello/weblate/repository/
```

API ????

API ?? 100 ????? / ????????????? 5000 ????? / ?????????

????? `settings.py` ??????????????Throttling in Django REST framework documentation ?????????

??????????????????

```
X-RateLimit-Limit     ???????????????
X-RateLimit-Remaining ???????????????
X-RateLimit-Reset     ???????????????
```

????? 4.1 ???: ???????????????

??:

?????????

API ????? ?????

GET /api/
API ???? ????? ??????

????????:

```
GET /api/ HTTP/1.1
Host: example.com
Accept: application/json, text/javascript
Authorization: Token YOUR-TOKEN
```

????????:

```
HTTP/1.0 200 OK
Date: Fri, 25 Mar 2016 09:46:12 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, HEAD, OPTIONS

{
    "projects":"http://example.com/api/projects/",
    "components":"http://example.com/api/components/",
    "translations":"http://example.com/api/translations/",
    "languages":"http://example.com/api/languages/"
}
```

?????

?????? 4.0 ???.

GET /api/users/
??

??:

????? ??????????????????*GET /api/users/(str:username)/* ????????????????

POST /api/users/
????????????????
??????

username (*string*) -- ??????

full_name (*string*) -- ???????????

email (*string*) -- ????????????????

is_superuser (*boolean*) -- ?????????????????????? ????????

is_active (*boolean*) -- ????????????????? ????????

GET /api/users/(str: *username*)/
????????????????????
??????

username (*string*) -- ???????????
?????? JSON ???????

username (*string*) -- ???????????

full_name (*string*) -- ???????????

email (*string*) -- ????????????????

is_superuser (*boolean*) -- ??????????????????????

is_active (*boolean*) -- ???????????????

date_joined (*string*) -- ????????

groups (*array*) -- ??????????????????: *GET /api/groups/(int:id)/*

JSON ??????:

```
{
    "email": "user@example.com",
    "full_name": "Example User",
    "username": "exampleusername",
    "groups": [
        "http://example.com/api/groups/2/",
        "http://example.com/api/groups/3/"
    ],
    "is_superuser": true,
    "is_active": true,
    "date_joined": "2020-03-29T18:42:42.617681Z",
    "url": "http://example.com/api/users/exampleusername/",
    "statistics_url": "http://example.com/api/users/exampleusername/
↪statistics/"
}
```

PUT /api/users/(**str:** *username*)**/**
□□□□□□□□□□□□□□□□□□□□
□□□□□

username (*string*) -- □□□□□□□□□□□
□□□□□ JSON □□□□□□□

username (*string*) -- □□□□□□□□□□□

full_name (*string*) -- □□□□□□□□□□□

email (*string*) -- □□□□□□□□□□□□□

is_superuser (*boolean*) -- □□□□□□□□□□□□□□□□□□□

is_active (*boolean*) -- □□□□□□□□□□□□

date_joined (*string*) -- □□□□□□□□

PATCH /api/users/(**str:** *username*)**/**
□□□□□□□□□□□□□□□□□□□□
□□□□□

username (*string*) -- □□□□□□□□□□□
□□□□□ JSON □□□□□□□

username (*string*) -- □□□□□□□□□□□

full_name (*string*) -- □□□□□□□□□□□

email (*string*) -- □□□□□□□□□□□□□

is_superuser (*boolean*) -- □□□□□□□□□□□□□□□□□□□

is_active (*boolean*) -- □□□□□□□□□□□□

date_joined (*string*) -- □□□□□□□□

DELETE /api/users/(**str:** *username*)**/**
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□

username (*string*) -- □□□□□□□□□□□

POST /api/users/(**str:** *username*)**/groups/**
□□□□□□□□□□□□□□□□□□□□
□□□□□

username (*string*) -- □□□□□□□□□□□
□□□□ □□□□□□□

string group_id -- □□□□□□□□ ID

GET /api/users/(**str:** *username*)**/statistics/**
□□□□□□□□□□□□□□□□□□□□
□□□□□

username (*string*) -- □□□□□□□□□□□
□□□□□ JSON □□□□□□□

translated (*int*) -- □□□□□□□□□□□

suggested (*int*) -- □□□□□□□□□□□

uploaded (*int*) -- □□□□□□□□□□□□□□□

commented (*int*) -- [illegible]

languages (*int*) -- [illegible]

GET /api/users/(**str:** *username*)**/notifications/**
[illegible]
[illegible]

username (*string*) -- [illegible]

POST /api/users/(**str:** *username*)**/notifications/**
[illegible]
[illegible]

username (*string*) -- [illegible]
[illegible] JSON [illegible]

notification (*string*) -- [illegible]

scope (*int*) -- [illegible]

frequency (*int*) -- [illegible]

GET /api/users/(**str:** *username*)**/notifications/**
int: *subscription_id***/** [illegible]
[illegible]

username (*string*) -- [illegible]

subscription_id (*int*) -- [illegible] ID

PUT /api/users/(**str:** *username*)**/notifications/**
int: *subscription_id***/** [illegible]
[illegible]

username (*string*) -- [illegible]

subscription_id (*int*) -- [illegible] ID
[illegible] JSON [illegible]

notification (*string*) -- [illegible]

scope (*int*) -- [illegible]

frequency (*int*) -- [illegible]

PATCH /api/users/(**str:** *username*)**/notifications/**
int: *subscription_id***/** [illegible]
[illegible]

username (*string*) -- [illegible]

subscription_id (*int*) -- [illegible] ID
[illegible] JSON [illegible]

notification (*string*) -- [illegible]

scope (*int*) -- [illegible]

frequency (*int*) -- [illegible]

DELETE /api/users/(**str:** *username*)**/notifications/**
int: *subscription_id***/** [illegible]
[illegible]

username (*string*) -- [illegible]

subscription_id -- [illegible]

subscription_id -- int

????

?????? 4.0 ???.

GET /api/groups/
??

??:

????? ??????????????????*GET /api/groups/(int:id)/* ????????????????

POST /api/groups/
??????????????????
??????

name (*string*) -- ??????

project_selection (*int*) -- ??????????????????????????????

language_selection (*int*) -- ??????????????????????????

GET /api/groups/(**int:** *id*)**/**
??????????????????
??????

id (*int*) -- ????? ID
?????? JSON ???????

name (*string*) -- ??????

project_selection (*int*) -- ?? ????????????????

language_selection (*int*) -- ?? ???????????

roles (*array*) -- ????????????????????: *GET /api/roles/(int:id)/*

projects (*array*) -- ??????????????????????: *GET /api/projects/(string:project)/*

components (*array*) -- ??????????????????????: *GET /api/components/(string:project)/(string:component)/*

componentlist (*array*) -- ???????????? ????????????: *GET /api/component-lists/(str:slug)/*

JSON ??????:

```
{
    "name": "Guests",
    "project_selection": 3,
    "language_selection": 1,
    "url": "http://example.com/api/groups/1/",
    "roles": [
        "http://example.com/api/roles/1/",
        "http://example.com/api/roles/2/"
    ],
    "languages": [
        "http://example.com/api/languages/en/",
        "http://example.com/api/languages/cs/",
    ],
    "projects": [
        "http://example.com/api/projects/demo1/",
        "http://example.com/api/projects/demo/"
    ],
    "componentlist": "http://example.com/api/component-lists/new/",
    "components": [
        "http://example.com/api/components/demo/weblate/"
    ]
}
```

PUT /api/groups/(**int:** *id*)**/**
????? ???????????????
??????

id (*int*) -- ????? ID
?????? JSON ???????

name (*string*) -- ??????

project_selection (*int*) -- ?? ????????????????

language_selection (*int*) -- ?? ??????????

PATCH /api/groups/(**int:** *id*)**/**
???? ??????????????
?????

id (*int*) -- ???? ID
????? JSON ???????

name (*string*) -- ??????

project_selection (*int*) -- ?? ???????????????

language_selection (*int*) -- ?? ??????????

DELETE /api/groups/(**int:** *id*)**/**
???????????
?????

id (*int*) -- ???? ID

POST /api/groups/(**int:** *id*)**/roles/**
???????????????????
?????

id (*int*) -- ???? ID
???? ???????

string role_id -- ??????? ID

POST /api/groups/(**int:** *id*)**/components/**
????????????????????????
?????

id (*int*) -- ???? ID
???? ???????

string component_id -- ???????????? ID

DELETE /api/groups/(**int:** *id*)**/components/**
int: *component_id* ????????????????????????
?????

id (*int*) -- ???? ID

component_id (*int*) -- ???????????? ID

POST /api/groups/(**int:** *id*)**/projects/**
????????????????????????
?????

id (*int*) -- ???? ID
???? ???????

string project_id -- ???????????? ID

DELETE /api/groups/(**int:** *id*)**/projects/**
int: *project_id* ????????????????????????
?????

id (*int*) -- ???? ID

project_id (*int*) -- ???????????? ID

POST /api/groups/(**int:** *id*)**/languages/**
???????????????????
?????

id (*int*) -- ???? ID
???? ???????

string language_code -- ???????????

DELETE /api/groups/(**int:** *id*)**/languages/**
string: *language_code* ???????????????????
?????

id (*int*) -- ???? ID

language_code (*string*) -- ???????????

POST /api/groups/(**int:** *id*)**/componentlists/**
????????? ???????????????????
?????

id (*int*) -- ???? ID
???? ???????

string component_list_id -- ????????????? ID

DELETE /api/groups/(int: *id*)/componentlists/
int: *component_list_id* ?????????????????????????
??????

id (*int*) -- ???? ID

component_list_id (*int*) -- ????????????? ID

???

GET /api/roles/
??

??:

??????????????????*GET /api/roles/(int:id)/* ???????????????

POST /api/roles/
???????????????
??????

name (*string*) -- ????

permissions (*array*) -- ?????????????? ???

GET /api/roles/(int: *id*)/
???????????????
??????

id (*int*) -- ??? ID
?????? JSON ???????

name (*string*) -- ????

permissions (*array*) -- ?????????????? ???

JSON ??????:

```
{
    "name": "Access repository",
    "permissions": [
        "vcs.access",
        "vcs.view"
    ],
    "url": "http://example.com/api/roles/1/",
}
```

PUT /api/roles/(int: *id*)/
???????????????????
??????

id (*int*) -- ??? ID
?????? JSON ???????

name (*string*) -- ????

permissions (*array*) -- ?????????????? ???

PATCH /api/roles/(int: *id*)/
???????????????????
??????

id (*int*) -- ??? ID
?????? JSON ???????

name (*string*) -- ????

permissions (*array*) -- ?????????????? ???

DELETE /api/roles/(int: *id*)/
????????????
??????

id (*int*) -- ??? ID

??

GET /api/languages/
??????????????????????

??:

??????????????????????*GET /api/languages/(string:language)/* ????????????????

POST /api/languages/
????????????????
??????

code (*string*) -- ???

name (*string*) -- ???

direction (*string*) -- ????????

plural (*object*) -- ?????????

GET /api/languages/(string: *language*)/
????????????????
??????

language (*string*) -- ??????
?????? JSON ???????

code (*string*) -- ??????

direction (*string*) -- ????????

plural (*object*) -- ??????????????????????????

aliases (*array*) -- ???????????????

JSON ??????:

```
{
    "code": "en",
    "direction": "ltr",
    "name": "English",
    "plural": {
        "id": 75,
        "source": 0,
        "number": 2,
        "formula": "n != 1",
        "type": 1
    },
    "aliases": [
        "english",
        "en_en",
        "base",
        "source",
        "eng"
    ],
    "url": "http://example.com/api/languages/en/",
    "web_url": "http://example.com/languages/en/",
    "statistics_url": "http://example.com/api/languages/en/statistics/"
}
```

PUT /api/languages/(string: *language*)/
????????????????
??????

language (*string*) -- ??????
?????? JSON ???????

name (*string*) -- ???

direction (*string*) -- ????????

plural (*object*) -- ??????????

PATCH /api/languages/(string: *language*)/
????????????????
??????

language (*string*) -- ??????

□□□□□ JSON □□□□□□

name (*string*) -- □□□

direction (*string*) -- □□□□□□□

plural (*object*) -- □□□□□□□□□

DELETE /api/languages/(**string:** *language*)**/**
□□□□□□□□□
□□□□□

language (*string*) -- □□□□□

GET /api/languages/(**string:** *language*)**/statistics/**
□□□□□□□□□□□□□□□□
□□□□□

language (*string*) -- □□□□□
□□□□□ JSON □□□□□□

total (*int*) -- □□□□□□

total_words (*int*) -- □□□□□

last_change (*timestamp*) -- □□□□□□□□□

recent_changes (*int*) -- □□□□□

translated (*int*) -- □□□□□□□□□

translated_percent (*float*) -- □□□□□□□□□□□

translated_words (*int*) -- □□□□□□□□□

translated_words_percent (*int*) -- □□□□□□□□□□

translated_chars (*int*) -- □□□□□□□□

translated_chars_percent (*int*) -- □□□□□□□□□□

total_chars (*int*) -- □□□□□

fuzzy (*int*) -- □□□□□□□□□□□□□□□□□□

fuzzy_percent (*int*) -- □□□□□□□□□□□□□□□□□□□

failing (*int*) -- □□□□□□□□□□□

failing -- □□□□□□□□□□□

□□□□□□□

GET /api/projects/
□□□□□□□□□□□□□□□□□□□□□□□□□

□□:

□□□□□□□□□□□□□□□□□□□□□□□□□*GET /api/projects/(string:project)/* □□□□□□□□□□□□□□□

POST /api/projects/
□□□□□ 3.9 □□□.

□□□□□□□□□□□□□□□□□□
□□□□□

name (*string*) -- □□□□□□□□

slug (*string*) -- □□□□□□□ □□□□

web (*string*) -- □□□□□□□□ Web □□□

GET /api/projects/(**string:** *project*)**/**
□□□□□□□□□□□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□□ URL □□□□
□□□□□ JSON □□□□□□□

name (*string*) -- □□□□□□□□

slug (*string*) -- □□□□□□□□□□□□

web (*string*) -- □□□□□□□□ Web □□□

components_list_url (*string*) -- [illegible] URL[illegible]: *GET /api/projects/(string:project)/components/*

repository_url (*string*) -- [illegible]URL[illegible]: *GET /api/projects/(string:project)/repository/*

changes_list_url (*string*) -- [illegible] URL[illegible]: *GET /api/projects/(string:project)/changes/*

translation_review (*boolean*) -- [illegible]

source_review (*boolean*) -- [illegible]

set_language_team (*boolean*) -- *"Language-Team"* [illegible]

enable_hooks (*boolean*) -- [illegible]

instructions (*string*) -- [illegible]

language_aliases (*string*) -- [illegible]

JSON [illegible]:

```
{
    "name": "Hello",
    "slug": "hello",
    "url": "http://example.com/api/projects/hello/",
    "web": "https://weblate.org/",
    "web_url": "http://example.com/projects/hello/"
}
```

PATCH /api/projects/(string: *project*)/
[illegible] 4.3 [illegible].

PATCH [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

component (*string*) -- [illegible] URL [illegible]

PUT /api/projects/(string: *project*)/
[illegible] 4.3 [illegible].

PUT [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

DELETE /api/projects/(string: *project*)/
[illegible] 3.9 [illegible].

[illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

GET /api/projects/(string: *project*)/changes/
[illegible] *GET /api/changes/* [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

results (*array*) -- [illegible]: *GET /api/changes/(int:id)/*

GET /api/projects/(string: *project*)/repository/
[illegible]VCS [illegible]
GET /api/components/(string:project)/(string:component)/repository/
[illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

needs_commit (*boolean*) -- [illegible]

needs_merge (*boolean*) -- [illegible] upstream [illegible]

needs_push (*boolean*) -- [illegible]

JSON [illegible]:

```
{
    "needs_commit": true,
    "needs_merge": false,
    "needs_push": true
}
```

POST /api/projects/(**string:** *project*)**/repository/**
VCS [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

operation (*string*) -- [illegible]: `push`, `pull`, `commit`, `reset`, `cleanup`, `file-sync` [illegible]
[illegible] JSON [illegible]

result (*boolean*) -- [illegible]

CURL [illegible]:

```
curl \
    -d operation=pull \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/projects/hello/repository/
```

JSON [illegible]:

```
POST /api/projects/hello/repository/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{"operation":"pull"}
```

JSON [illegible]:

```
HTTP/1.0 200 OK
Date: Tue, 12 Apr 2016 09:32:50 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, POST, HEAD, OPTIONS

{"result":true}
```

GET /api/projects/(**string:** *project*)**/components/**
[illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

results (*array*) -- [illegible] [illegible]: *GET /api/components/(string:project)/(string:component)/*

POST /api/projects/(**string:** *project*)**/components/**
[illegible] 3.9 [illegible].

[illegible] 4.3 [illegible]: `zipfile` [illegible] `docfile` [illegible]VCS [illegible]: *[illegible]*

[illegible] 4.6 [illegible]: The cloned repositories are now automatically shared within a project using *Weblate [illegible] URL*. Use `disable_autoshare` to turn off this.

[illegible]

[illegible]: 1 [illegible] VCS [illegible]*Weblate [illegible] URL* [illegible]

??: ?? `task_url` ??????????????????????????

??????

project (*string*) -- ??????? URL ????? ????? ???????

file zipfile -- ???????????? Weblate ?????????? ZIP ?????

file docfile -- ????????????

boolean disable_autoshare -- Disables automatic repository sharing via *Weblate ??? URL*. ?????? JSON ???????

result (*object*) -- ???????????? ??????????: *GET /api/components/(string:project)/(string:component)/*

JSON can not be used when uploading the files using the `zipfile` and `docfile` parameters. The data has to be uploaded as *multipart/form-data*.

CURL ????? ???????:

```
curl \
    --form docfile=@strings.html \
    --form name=Weblate \
    --form slug=weblate \
    --form file_format=html \
    --form new_lang=add \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/projects/hello/components/
```

CURL JSON ???????:

```
curl \
    --data-binary '{
        "branch": "main",
        "file_format": "po",
        "filemask": "po/*.po",
        "git_export": "",
        "license": "",
        "license_url": "",
        "name": "Weblate",
        "slug": "weblate",
        "repo": "file:///home/nijel/work/weblate-hello",
        "template": "",
        "new_base": "",
        "vcs": "git"
    }' \
    -H "Content-Type: application/json" \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/projects/hello/components/
```

JSON ????????:

```
POST /api/projects/hello/components/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{
    "branch": "main",
    "file_format": "po",
    "filemask": "po/*.po",
    "git_export": "",
    "license": "",
    "license_url": "",
    "name": "Weblate",
    "slug": "weblate",
```

(??????????)

```
    "repo": "file:///home/nijel/work/weblate-hello",
    "template": "",
    "new_base": "",
    "vcs": "git"
}
```

JSON □□□□□□□:

```
HTTP/1.0 200 OK
Date: Tue, 12 Apr 2016 09:32:50 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, POST, HEAD, OPTIONS

{
    "branch": "main",
    "file_format": "po",
    "filemask": "po/*.po",
    "git_export": "",
    "license": "",
    "license_url": "",
    "name": "Weblate",
    "slug": "weblate",
    "project": {
        "name": "Hello",
        "slug": "hello",
        "source_language": {
            "code": "en",
            "direction": "ltr",
            "name": "English",
            "url": "http://example.com/api/languages/en/",
            "web_url": "http://example.com/languages/en/"
        },
        "url": "http://example.com/api/projects/hello/",
        "web": "https://weblate.org/",
        "web_url": "http://example.com/projects/hello/"
    },
    "repo": "file:///home/nijel/work/weblate-hello",
    "template": "",
    "new_base": "",
    "url": "http://example.com/api/components/hello/weblate/",
    "vcs": "git",
    "web_url": "http://example.com/projects/hello/weblate/"
}
```

GET /api/projects/(string: *project*)/languages/
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□ 3.8 □□□.
□□□□□

project (*string*) -- □□□□□□ URL □□□□
□□□□□ JSON □□□□□□

results (*array*) -- □□□□□□□□□□□□□□□

language (*string*) -- □□□

code (*string*) -- □□□□□

total (*int*) -- □□□□□□

translated (*int*) -- □□□□□□□□□□

translated_percent (*float*) -- □□□□□□□□□□□□

total_words (*int*) -- □□□□□

translated_words (*int*) -- □□□□□□□□□□

words_percent (*float*) -- □□□□□□□□□□□

GET /api/projects/(**string:** *project*)**/statistics/**
??????????????????????

????? 3.8 ???.
?????

project (*string*) -- ??????? URL ????
????? JSON ???????

total (*int*) -- ???????

translated (*int*) -- ??????????

translated_percent (*float*) -- ???????????

total_words (*int*) -- ??????

translated_words (*int*) -- ??????????

words_percent (*float*) -- ???????????

????????

GET /api/components/
??????????????????????

??:

???????? ???????????????? *GET /api/components/(string:project)/(string:component)/* ????????????

GET /api/components/(**string:** *project*)**/**
string: *component***/** ??????????????????????????
?????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????
????? JSON ???????

project (*object*) -- ???????????: *GET /api/projects/(string:project)/*

name (*string*) -- *?????????*

slug (*string*) -- *???????? ????*

vcs (*string*) -- *?????????????*

repo (*string*) -- *?????????????*

git_export (*string*) -- *????????????????? URL*

branch (*string*) -- *??????????*

push_branch (*string*) -- *????? push*

filemask (*string*) -- *File mask*

template (*string*) -- *???????????????*

edit_template (*string*) -- *??????????*

intermediate (*string*) -- *?????????*

new_base (*string*) -- *??????????????*

file_format (*string*) -- *???????*

license (*string*) -- *?????????*

agreement (*string*) -- *????????*

new_lang (*string*) -- *?????????*

language_code_style (*string*) -- *????? ????*

source_language (*object*) -- ????????????????: *GET /api/languages/(string:language)/*

push (*string*) -- *????????? URL*

check_flags (*string*) -- *?????*

priority (*string*) -- *???*

enforced_checks (*string*) -- *?????*

restricted (*string*) -- [illegible]

repoweb (*string*) -- [illegible] [illegible]

report_source_bugs (*string*) -- [illegible]

merge_style (*string*) -- [illegible] [illegible]

commit_message (*string*) -- *Commit, add, delete, merge and addon messages*

add_message (*string*) -- *Commit, add, delete, merge and addon messages*

delete_message (*string*) -- *Commit, add, delete, merge and addon messages*

merge_message (*string*) -- *Commit, add, delete, merge and addon messages*

addon_message (*string*) -- *Commit, add, delete, merge and addon messages*

allow_translation_propagation (*string*) -- [illegible]

enable_suggestions (*string*) -- [illegible]

suggestion_voting (*string*) -- [illegible]

suggestion_autoaccept (*string*) -- [illegible]

push_on_commit (*string*) -- [illegible]

commit_pending_age (*string*) -- [illegible]

auto_lock_error (*string*) -- [illegible]

language_regex (*string*) -- [illegible]

variant_regex (*string*) -- [illegible]

repository_url (*string*) -- [illegible] [illegible] URL[illegible]: *GET /api/components/(string:project)/(string:component)/repository/*

translations_url (*string*) -- [illegible] URL[illegible]: *GET /api/components/(string:project)/(string:component)/translations/*

lock_url (*string*) -- [illegible] URL[illegible]: *GET /api/components/(string:project)/(string:component)/lock/*

changes_list_url (*string*) -- [illegible] URL[illegible]: *GET /api/components/(string:project)/(string:component)/changes/*

task_url (*string*) -- [illegible] [illegible] URL[illegible]: *GET /api/tasks/(str:uuid)/*

JSON [illegible]:


```
{
    "branch": "main",
    "file_format": "po",
    "filemask": "po/*.po",
    "git_export": "",
    "license": "",
    "license_url": "",
    "name": "Weblate",
    "slug": "weblate",
    "project": {
        "name": "Hello",
        "slug": "hello",
        "source_language": {
            "code": "en",
            "direction": "ltr",
            "name": "English",
            "url": "http://example.com/api/languages/en/",
            "web_url": "http://example.com/languages/en/"
        },
        "url": "http://example.com/api/projects/hello/",
        "web": "https://weblate.org/",
        "web_url": "http://example.com/projects/hello/"
    },
    "source_language": {
        "code": "en",
        "direction": "ltr",
        "name": "English",
        "url": "http://example.com/api/languages/en/",
```


([illegible])

```
        "web_url": "http://example.com/languages/en/"
    },
    "repo": "file:///home/nijel/work/weblate-hello",
    "template": "",
    "new_base": "",
    "url": "http://example.com/api/components/hello/weblate/",
    "vcs": "git",
    "web_url": "http://example.com/projects/hello/weblate/"
}
```

PATCH /api/components/(**string:** *project*)**/**
string: *component***/** PATCH □□□□□□□□□□□□□□□□□□□□□□□□□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

source_language (*string*) -- □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ JSON □□□□□□

name (*string*) -- □□□□□□□□□

slug (*string*) -- □□□□□□□□□□□□□□

repo (*string*) -- VCS □□□□□ URL

CURL □□:

```
curl \
    --data-binary '{"name": "new name"}' \
    -H "Content-Type: application/json" \
    -H "Authorization: Token TOKEN" \
    PATCH http://example.com/api/projects/hello/components/
```

JSON □□□□□□□:

```
PATCH /api/projects/hello/components/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{
    "name": "new name"
}
```

JSON □□□□□□□:

```
HTTP/1.0 200 OK
Date: Tue, 12 Apr 2016 09:32:50 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, POST, HEAD, OPTIONS

{
    "branch": "main",
    "file_format": "po",
    "filemask": "po/*.po",
    "git_export": "",
    "license": "",
    "license_url": "",
    "name": "new name",
    "slug": "weblate",
    "project": {
        "name": "Hello",
        "slug": "hello",
```

(□□□□□□□□□)

(□□□□□□□□□□□)

```
        "source_language": {
            "code": "en",
            "direction": "ltr",
            "name": "English",
            "url": "http://example.com/api/languages/en/",
            "web_url": "http://example.com/languages/en/"
        },
        "url": "http://example.com/api/projects/hello/",
        "web": "https://weblate.org/",
        "web_url": "http://example.com/projects/hello/"
    },
    "repo": "file:///home/nijel/work/weblate-hello",
    "template": "",
    "new_base": "",
    "url": "http://example.com/api/components/hello/weblate/",
    "vcs": "git",
    "web_url": "http://example.com/projects/hello/weblate/"
}
```

PUT /api/components/(**string:** *project*)**/**
string: *component***/** PUT □□□□□□□□□□□□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□
□□□□□ JSON □□□□□□

branch (*string*) -- VCS □□□□□ □□□□

file_format (*string*) -- □□□□□□□□□

filemask (*string*) -- □□□□□□□□□□□□□□□□□

name (*string*) -- □□□□□□□□

slug (*string*) -- □□□□□□□□□□□□

repo (*string*) -- VCS □□□□□ URL

template (*string*) -- □□□□□□□□□□□□□□

new_base (*string*) -- □□□□□□□□□□□□□□□□□□□

vcs (*string*) -- □□□□□□□□□□□

DELETE /api/components/(**string:** *project*)**/**
string: *component***/** □□□□□ 3.9 □□□.

□□□□□□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

GET /api/components/(**string:** *project*)**/**
string: *component***/changes/** □□□ *GET /api/changes/* □□□□□□□□□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□
□□□□□ JSON □□□□□□

results (*array*) -- □□□□□□□□□□□□□□□□□□□□: *GET /api/changes/(int:id)/*

GET /api/components/(**string:** *project*)**/**
string: *component***/file/** □□□□□ 4.9 □□□.

Downloads all available translations associated with the component as an archive file using the requested format.
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□
□□□ □□□□□

format (*string*) -- The archive format to use; If not specified, defaults to `zip`; Supported formats: `zip`

GET /api/components/(string: *project*)/
string: *component*/screenshots/ [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

component (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

results (*array*) -- [illegible]: *GET /api/screenshots/(int:id)/*

GET /api/components/(string: *project*)/
string: *component*/lock/ [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

component (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

locked (*boolean*) -- [illegible]

JSON [illegible]:

```
{
    "locked": false
}
```

POST /api/components/(string: *project*)/
string: *component*/lock/ [illegible]

[illegible] *GET /api/components/(string:project)/(string:component)/lock/* [illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

component (*string*) -- [illegible] URL [illegible]
[illegible] JSON [illegible]

lock -- [illegible]

CURL [illegible]:

```
curl \
    -d lock=true \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/components/hello/weblate/repository/
```

JSON [illegible]:

```
POST /api/components/hello/weblate/repository/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{"lock": true}
```

JSON [illegible]:

```
HTTP/1.0 200 OK
Date: Tue, 12 Apr 2016 09:32:50 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, POST, HEAD, OPTIONS

{"locked":true}
```

GET /api/components/(string: *project*)/
string: *component*/repository/ [illegible]VCS [illegible]

[illegible] *GET /api/projects/(string:project)/repository/* [illegible]
[illegible]

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????
?????? JSON ???????

needs_commit (*boolean*) -- ??????????????????????

needs_merge (*boolean*) -- ???????? upstream ???????????

needs_push (*boolean*) -- ??????????????????????

remote_commit (*string*) -- ???? ???????

status (*string*) -- VCS ?????? VCS ?????????

merge_failure -- ???????????????????? null???????????

POST /api/components/(**string:** *project*)**/**
string: *component***/repository/** VCS ??????????????????????

?????????*POST /api/projects/(string:project)/repository/* ???????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????
?????? JSON ???????

operation (*string*) -- ???????: `push`, `pull`, `commit`, `reset`, `cleanup` ????????
?????? JSON ???????

result (*boolean*) -- ??????

CURL ??:

```
curl \
    -d operation=pull \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/components/hello/weblate/repository/
```

JSON ????????:

```
POST /api/components/hello/weblate/repository/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{"operation":"pull"}
```

JSON ????????:

```
HTTP/1.0 200 OK
Date: Tue, 12 Apr 2016 09:32:50 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, POST, HEAD, OPTIONS

{"result":true}
```

GET /api/components/(**string:** *project*)**/**
string: *component***/monolingual_base/** ??????????????????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

GET /api/components/(**string:** *project*)**/**
string: *component***/new_template/** ???????????????? ????????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

GET /api/components/(**string:** *project*)**/**
string: *component***/translations/** ??????????????????????????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????
?????? JSON ???????

results (*array*) -- ???????????????: *GET /api/translations/(string:project)/(string:component)/(string:language)/*

POST /api/components/(**string:** *project*)**/**
string: *component***/translations/** ??????????????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????
?????? JSON ???????

language_code (*string*) -- ????????????: *GET /api/languages/(string:language)/*
?????? JSON ???????

result (*object*) -- ???????????????????

CURL ??:

```
curl \
    -d language_code=cs \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/projects/hello/components/
```

JSON ????????:

```
POST /api/projects/hello/components/ HTTP/1.1
Host: example.com
Accept: application/json
Content-Type: application/json
Authorization: Token TOKEN
Content-Length: 20

{"language_code": "cs"}
```

JSON ????????:

```
HTTP/1.0 200 OK
Date: Tue, 12 Apr 2016 09:32:50 GMT
Server: WSGIServer/0.1 Python/2.7.11+
Vary: Accept, Accept-Language, Cookie
X-Frame-Options: SAMEORIGIN
Content-Type: application/json
Content-Language: en
Allow: GET, POST, HEAD, OPTIONS

{
    "failing_checks": 0,
    "failing_checks_percent": 0,
    "failing_checks_words": 0,
    "filename": "po/cs.po",
    "fuzzy": 0,
    "fuzzy_percent": 0.0,
    "fuzzy_words": 0,
    "have_comment": 0,
    "have_suggestion": 0,
    "is_template": false,
    "is_source": false,
    "language": {
        "code": "cs",
        "direction": "ltr",
        "name": "Czech",
        "url": "http://example.com/api/languages/cs/",
        "web_url": "http://example.com/languages/cs/"
```

(??????????)

```
    },
    "language_code": "cs",
    "id": 125,
    "last_author": null,
    "last_change": null,
    "share_url": "http://example.com/engage/hello/cs/",
    "total": 4,
    "total_words": 15,
    "translate_url": "http://example.com/translate/hello/weblate/cs/",
    "translated": 0,
    "translated_percent": 0.0,
    "translated_words": 0,
    "url": "http://example.com/api/translations/hello/weblate/cs/",
    "web_url": "http://example.com/projects/hello/weblate/cs/"
}
```

GET /api/components/(string: *project*)/
string: *component*/statistics/ □□

□□□□□ 2.7 □□□.
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□
□□□□□ JSON □□□□□□

results (*array*) -- □□□□□□□□□□□□□□□□□□□□: *GET /api/translations/(string:project)/(string:component)/(string:language)/statistics/*

GET /api/components/(string: *project*)/
string: *component*/links/ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□ 4.5 □□□.
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□
□□□□□ JSON □□□□□□

projects (*array*) -- □□□□□□□□□□□□□□□: *GET /api/projects/(string:project)/*

POST /api/components/(string: *project*)/
string: *component*/links/ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□ 4.5 □□□.
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□
□□□□ □□□□□□

string project_slug -- □□□□□□ □□□□

DELETE /api/components/(string: *project*)/
string: *component*/links/string: *project_slug*/ □□

□□□□□ 4.5 □□□.
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

project_slug (*string*) -- □□□□□□□□□□□□□□□□□

??

GET /api/translations/
??????????????

??:

??????????????*GET /api/translations/(string:project)/(string:component)/(string:language)/* ??????????

GET /api/translations/(**string:** *project*)**/****string:** *component***/string:** *language***/** ????????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

language (*string*) -- ????????
?????? JSON ???????

component (*object*) -- ???????? ??????????: *GET /api/components/(string:project)/(string:component)/*

failing_checks (*int*) -- ???????????

failing_checks_percent (*float*) -- ????????????

failing_checks_words (*int*) -- ???????????

filename (*string*) -- ????????

fuzzy (*int*) -- ???????????????????

fuzzy_percent (*float*) -- ???????????????????

fuzzy_words (*int*) -- ???????????????????

have_comment (*int*) -- ???????????

have_suggestion (*int*) -- ???????????

is_template (*boolean*) -- ????????????????

language (*object*) -- ????????????????: *GET /api/languages/(string:language)/*

language_code (*string*) -- ??

last_author (*string*) -- ??????

last_change (*timestamp*) -- ???????????

revision (*string*) -- ?????????? ????

share_url (*string*) -- ????????? ???????????? URL

total (*int*) -- ???????

total_words (*int*) -- ??????

translate_url (*string*) -- ??? URL

translated (*int*) -- ??????????

translated_percent (*float*) -- ???????????

translated_words (*int*) -- ??????????

repository_url (*string*) -- ?????????? URL???: *GET /api/translations/(string:project)/(string:component)/(string:language)/repository/*

file_url (*string*) -- ???? ????????? URL???: *GET /api/translations/(string:project)/(string:component)/(string:language)/file/*

changes_list_url (*string*) -- ???????? URL???: *GET /api/translations/(string:project)/(string:component)/(string:language)/changes/*

units_list_url (*string*) -- ????????? URL???: *GET /api/translations/(string:project)/(string:component)/(string:language)/units/*

JSON ??????:

```
{
    "component": {
        "branch": "main",
        "file_format": "po",
        "filemask": "po/*.po",
        "git_export": "",
        "license": "",
        "license_url": "",
        "name": "Weblate",
        "new_base": "",
        "project": {
            "name": "Hello",
            "slug": "hello",
            "source_language": {
                "code": "en",
                "direction": "ltr",
                "name": "English",
                "url": "http://example.com/api/languages/en/",
                "web_url": "http://example.com/languages/en/"
            },
            "url": "http://example.com/api/projects/hello/",
            "web": "https://weblate.org/",
            "web_url": "http://example.com/projects/hello/"
        },
        "repo": "file:///home/nijel/work/weblate-hello",
        "slug": "weblate",
        "template": "",
        "url": "http://example.com/api/components/hello/weblate/",
        "vcs": "git",
        "web_url": "http://example.com/projects/hello/weblate/"
    },
    "failing_checks": 3,
    "failing_checks_percent": 75.0,
    "failing_checks_words": 11,
    "filename": "po/cs.po",
    "fuzzy": 0,
    "fuzzy_percent": 0.0,
    "fuzzy_words": 0,
    "have_comment": 0,
    "have_suggestion": 0,
    "is_template": false,
    "language": {
        "code": "cs",
        "direction": "ltr",
        "name": "Czech",
        "url": "http://example.com/api/languages/cs/",
        "web_url": "http://example.com/languages/cs/"
    },
    "language_code": "cs",
    "last_author": "Weblate Admin",
    "last_change": "2016-03-07T10:20:05.499",
    "revision": "7ddfafe6daaf57fc8654cc852ea6be212b015792",
    "share_url": "http://example.com/engage/hello/cs/",
    "total": 4,
    "total_words": 15,
    "translate_url": "http://example.com/translate/hello/weblate/cs/",
    "translated": 4,
    "translated_percent": 100.0,
    "translated_words": 15,
    "url": "http://example.com/api/translations/hello/weblate/cs/",
    "web_url": "http://example.com/projects/hello/weblate/cs/"
}
```


DELETE /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/** [illegible] 3.9 [illegible].

[illegible]
[illegible]

project (*string*) -- [illegible] URL [illegible]

component (*string*) -- ???????? URL ????

language (*string*) -- ????????

GET /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/changes/** ??
GET /api/changes/ ????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

language (*string*) -- ????????
?????? JSON ???????

results (*array*) -- ????????????????????: *GET /api/changes/(int:id)/*

GET /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/units/** ??????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

language (*string*) -- ????????

q (*string*) -- ????????? *??* ????????
?????? JSON ???????

results (*array*) -- ???????? ???????????????: see *GET /api/units/(int:id)/*

POST /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/units/** ????????????????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

language (*string*) -- ????????
?????? JSON ???????

key (*string*) -- ???????????

value (*array*) -- ???????

??:

*????????*adding-new-strings

POST /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/autotranslate/** ???????????
??????

project (*string*) -- ??????? URL ????

component (*string*) -- ???????? URL ????

language (*string*) -- ????????
?????? JSON ???????

mode (*string*) -- ????????

filter_type (*string*) -- ????????????

auto_source (*string*) -- ????????? - `mt` ??? `others`

component (*string*) -- ??

engines (*array*) -- ?????????

threshold (*string*) -- ????????

GET /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/file/** Download current translation file as it is stored in the VCS (without the `format` parameter) or converted to another format (see *??????????*).

??: This API endpoint uses different logic for output than rest of API as it operates on whole file rather than on data. Set of accepted `format` parameter differs and without such parameter you get translation file as stored in VCS.

??? ??????

format -- File format to use; if not specified no format conversion happens; supported file formats: `po`, `mo`, `xliff`, `xliff11`, `tbx`, `csv`, `xlsx`, `json`, `aresource`, `strings`
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

language (*string*) -- □□□□□□□

POST /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/file/** □□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

language (*string*) -- □□□□□□□
□□□□ □□□□□□

string conflict -- □□□□□□□□□□ignore□replace-translated□replace-approved□

file file -- □□□□□□□□□□□□□

string email -- □□□□□□□□□□□□

string author -- □□□□

string method -- □□□□□□ □□□□□translate, approve, suggest, fuzzy, replace, source, add□□□□□: *□□□□□□□□*

string fuzzy -- □□□□□□□□□□□□□□□□□□□□□□□□`` process``□`` approve``□

CURL □□:

```
curl -X POST \
    -F file=@strings.xml \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/translations/hello/android/cs/file/
```

GET /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/repository/** □□□□□VCS □□□□□□□□□□□□□□□□

□□□□□□ *GET /api/components/(string:project)/(string:component)/repository/*
□□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

language (*string*) -- □□□□□□□

POST /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/repository/** VCS □□□□□□□□□□□□□□□□□□□□

□□□□□□□□□*POST /api/projects/(string:project)/repository/* □□□□□□□□□□
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

language (*string*) -- □□□□□□□
□□□□□ JSON □□□□□□□

operation (*string*) -- □□□□□□□: `push`, `pull`, `commit`, `reset`, `cleanup` □□□□□□□
□□□□□ JSON □□□□□□□

result (*boolean*) -- □□□□□

GET /api/translations/(**string:** *project*)**/**
string: *component***/string:** *language***/statistics/** □□□□□□□□□□□□□□□□□□□

□□□□□ 2.7 □□□.
□□□□□

project (*string*) -- □□□□□□ URL □□□□

component (*string*) -- □□□□□□□ URL □□□□

language (*string*) -- □□□□□□□
□□□□□ JSON □□□□□□□

code (*string*) -- [illegible]

failing (*int*) -- [illegible]

failing_percent (*float*) -- [illegible]

fuzzy (*int*) -- [illegible]

fuzzy_percent (*float*) -- [illegible]

total_words (*int*) -- [illegible]

translated_words (*int*) -- [illegible]

last_author (*string*) -- [illegible]

last_change (*timestamp*) -- [illegible]

name (*string*) -- [illegible]

total (*int*) -- [illegible]

translated (*int*) -- [illegible]

translated_percent (*float*) -- [illegible]

url (*string*) -- [illegible] URL[illegible] URL[illegible]

url_translate (*string*) -- [illegible] URL[illegible] URL[illegible]

[illegible]

unit [illegible] 1 [illegible] Translate Toolkit [illegible] XLIFF [illegible]

[illegible] 2.10 [illegible].

GET /api/units/
[illegible]

[illegible]:

[illegible] [illegible]*GET /api/units/(int:id)/* [illegible]

GET /api/units/(int: *id*)/
[illegible] 4.3 [illegible]: `target` [illegible] `source` [illegible]

[illegible]
[illegible]

id (*int*) -- [illegible] ID
[illegible] JSON [illegible]

translation (*string*) -- [illegible] URL

source (*array*) -- [illegible]

previous_source (*string*) -- [illegible]

target (*array*) -- [illegible]

id_hash (*string*) -- [illegible]

content_hash (*string*) -- [illegible]

location (*string*) -- [illegible]

context (*string*) -- [illegible]

note (*string*) -- [illegible]

flags (*string*) -- [illegible]

state (*int*) -- [illegible]0 - [illegible]10 - [illegible]20 - [illegible]30 - [illegible]100 - [illegible]

fuzzy (*boolean*) -- [illegible] "fuzzy" [illegible]

translated (*boolean*) -- [illegible]

approved (*boolean*) -- [illegible]

position (*int*) -- [illegible]

has_suggestion (*boolean*) -- [illegible]

has_comment (*boolean*) -- [illegible]

has_failing_check (*boolean*) -- [illegible]

num_words (*int*) -- ????????

priority (*int*) -- ???????????????? 100 ??

id (*int*) -- ????????

explanation (*string*) -- ????????????????????????: *Additional info on source strings*

extra_flags (*string*) -- ????????????????????????????: *????????????????*

web_url (*string*) -- ?????????? URL

souce_unit (*string*) -- ????????????????: *GET /api/units/(int:id)/*

PATCH /api/units/(**int:** *id*)**/**
?????? 4.3 ???.

??????????????????
??????

id (*int*) -- ???? ID
?????? JSON ???????

state (*int*) -- ??????????0 - ????10 - ????20 - ????30 - ????????????????????????????????: *????????*

target (*array*) -- ??????

explanation (*string*) -- ????????????????????????: *Additional info on source strings*

extra_flags (*string*) -- ????????????????????????????: *????????????????*

PUT /api/units/(**int:** *id*)**/**
?????? 4.3 ???.

??????????????????
??????

id (*int*) -- ???? ID
?????? JSON ???????

state (*int*) -- ??????????0 - ????10 - ????20 - ????30 - ????????????????????????????????: *????????*

target (*array*) -- ??????

explanation (*string*) -- ????????????????????????: *Additional info on source strings*

extra_flags (*string*) -- ????????????????????????????: *????????????????*

DELETE /api/units/(**int:** *id*)**/**
?????? 4.3 ???.

????????????????
??????

id (*int*) -- ???? ID

??

?????? 2.10 ???.

GET /api/changes/
?????? 4.1 ???: ???????????? 4.1 ????????????

??????????????????

??:

????????????*GET /api/changes/(int:id)/* ??????????
???? ??????

user (*string*) -- ??????????????????

action (*int*) -- ????????????????????

timestamp_after (*timestamp*) -- ????????? ISO 8601 ????????????

timestamp_before (*timestamp*) -- ????????? ISO 8601 ????????????

GET /api/changes/(**int:** *id*)**/**
??????????????????
??????

id (*int*) -- ?? ID
?????? JSON ???????

unit (*string*) -- ????????? ???????? URL

translation (*string*) -- ????????????????? URL

component (*string*) -- ????????? ???????? URL

user (*string*) -- ????????? ???????? URL

author (*string*) -- ????????????????? URL

timestamp (*timestamp*) -- ?????????????

action (*int*) -- ?????????????

action_name (*string*) -- ?????????????

target (*string*) -- ???????????????????

id (*int*) -- ???????

??????????

????? 2.14 ???.

GET /api/screenshots/
????????????????????????????????

??:

????????? ????????????*GET /api/screenshots/(int:id)/* ?????????

GET /api/screenshots/(**int:** *id*)**/**
????????????????????
?????

id (*int*) -- ????????? ID
????? JSON ???????

name (*string*) -- ????????????

component (*string*) -- ????????? ???????? URL

file_url (*string*) -- ????????????????? URL???: *GET /api/screenshots/(int:id)/file/*

units (*array*) -- ???????????????????: *GET /api/units/(int:id)/*

GET /api/screenshots/(**int:** *id*)**/file/**
????????????????????????
?????

id (*int*) -- ????????? ID

POST /api/screenshots/(**int:** *id*)**/file/**
???????????????????
?????

id (*int*) -- ????????? ID
???? ???????

file image -- ????????????

CURL ??:

```
curl -X POST \
    -F image=@image.png \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/screenshots/1/file/
```

POST /api/screenshots/(**int:** *id*)**/units/**
???????????????????
?????

id (*int*) -- ????????? ID
???? ???????

string unit_id -- ???? ID
????? JSON ???????

name (*string*) -- ????????????

translation (*string*) -- ????????????? URL

file_url (*string*) -- ????????????????? URL???: *GET /api/screenshots/(int:id)/file/*

units (*array*) -- ??????????????????: *GET /api/units/(int:id)/*

DELETE /api/screenshots/(**int:** *id*)**/units/**
int: *unit_id* ??????????????????????????
??????

id (*int*) -- ?????????? ID

unit_id -- ??????? ID

POST /api/screenshots/
??????????????????????
????? ???????

file image -- ????????????

string name -- ????????????

string project_slug -- ??????? ?????

string component_slug -- ???????? ?????

string language_code -- ??????
?????? JSON ???????

name (*string*) -- ????????????

component (*string*) -- ?????????? ???????? URL

file_url (*string*) -- ???????????????????? URL???: *GET /api/screenshots/(int:id)/file/*

units (*array*) -- ??????????????????: *GET /api/units/(int:id)/*

PATCH /api/screenshots/(**int:** *id*)**/**
??????????????????????????????
??????

id (*int*) -- ?????????? ID
?????? JSON ???????

name (*string*) -- ????????????

component (*string*) -- ?????????? ???????? URL

file_url (*string*) -- ???????????????????? URL???: *GET /api/screenshots/(int:id)/file/*

units (*array*) -- ??????????????????: *GET /api/units/(int:id)/*

PUT /api/screenshots/(**int:** *id*)**/**
??????????????????????????
??????

id (*int*) -- ?????????? ID
?????? JSON ???????

name (*string*) -- ????????????

component (*string*) -- ?????????? ???????? URL

file_url (*string*) -- ???????????????????? URL???: *GET /api/screenshots/(int:id)/file/*

units (*array*) -- ??????????????????: *GET /api/units/(int:id)/*

DELETE /api/screenshots/(**int:** *id*)**/**
???????????????????
??????

id (*int*) -- ?????????? ID

?????

?????? 4.4.1 ???.

GET /api/addons/
???????????????

??:

????? ???????????????*GET /api/addons/(int:id)/* ????????????????

GET /api/addons/(**int:** *id*)**/**
????????????????????????
??????

id (*int*) -- ????? ID
?????? JSON ????????

name (*string*) -- ?????????

component (*string*) -- ?????????? ????????? URL

configuration (*object*) -- ????????????????

??:

?????

POST /api/components/(**string:** *project*)**/**
string: *component***/addons/** ????????????????????
??????

project_slug (*string*) -- ??????? ?????

component_slug (*string*) -- ???????? ?????
?????? JSON ????????

name (*string*) -- ?????????

configuration (*object*) -- ????????????????

PATCH /api/addons/(**int:** *id*)**/**
????????????????????????????
??????

id (*int*) -- ????? ID
?????? JSON ????????

configuration (*object*) -- ????????????????

PUT /api/addons/(**int:** *id*)**/**
????????????????????????????
??????

id (*int*) -- ????? ID
?????? JSON ????????

configuration (*object*) -- ????????????????

DELETE /api/addons/(**int:** *id*)**/**
???????????????
??????

id (*int*) -- ????? ID

?????????????? ????

?????? 4.0 ???.

GET /api/component-lists/
????????????????? ???????????????????

??:

????????? ???????????????????*GET /api/component-lists/(str:slug)/* ?????????????????

GET /api/component-lists/(**str:** *slug*)**/**
????????? ????????????????????
??????

slug (*string*) -- ????????? ?????????

[illegible] JSON [illegible]

name (*string*) -- [illegible] [illegible]

slug (*string*) -- [illegible] [illegible]

show_dashboard (*boolean*) -- [illegible]

components (*array*) -- [illegible]: *GET /api/components/(string:project)/(string:component)/*

auto_assign (*array*) -- [illegible]

PUT /api/component-lists/(str: *slug*)/
[illegible] [illegible]
[illegible]

slug (*string*) -- [illegible] [illegible]
[illegible] JSON [illegible]

name (*string*) -- [illegible] [illegible]

slug (*string*) -- [illegible] [illegible]

show_dashboard (*boolean*) -- [illegible]

PATCH /api/component-lists/(str: *slug*)/
[illegible] [illegible]
[illegible]

slug (*string*) -- [illegible] [illegible]
[illegible] JSON [illegible]

name (*string*) -- [illegible] [illegible]

slug (*string*) -- [illegible] [illegible]

show_dashboard (*boolean*) -- [illegible]

DELETE /api/component-lists/(str: *slug*)/
[illegible] [illegible]
[illegible]

slug (*string*) -- [illegible] [illegible]

POST /api/component-lists/(str: *slug*)/components/
[illegible] [illegible]
[illegible]

slug (*string*) -- [illegible] [illegible]
[illegible] [illegible]

string component_id -- [illegible] ID

DELETE /api/component-lists/(str: *slug*)/components/
str: *component_slug* [illegible] [illegible]
[illegible]

slug (*string*) -- [illegible] [illegible]

component_slug (*string*) -- [illegible] [illegible]

[illegible]

[illegible] 4.5 [illegible]: [illegible] API [illegible]

???

?????? 4.4 ???.

GET /api/tasks/
???????????????????

GET /api/tasks/(**str:** *uuid*)**/**
???????????????
??????

uuid (*string*) -- ??? UUID
????? JSON ???????

completed (*boolean*) -- ??????????????

progress (*int*) -- ????????

result (*object*) -- ???????????????????

log (*string*) -- ???????

Metrics

GET /api/metrics/
Returns server metrics.
????? JSON ???????

units (*int*) -- ??????

units_translated (*int*) -- ???????????

users (*int*) -- ??????

changes (*int*) -- ???????

projects (*int*) -- ????????

components" (*int*) -- ???????????

translations" (*int*) -- ?????

languages" (*int*) -- ??????

checks" (*int*) -- ????????????

configuration_errors" (*int*) -- ???????

suggestions" (*int*) -- ????????

celery_queues (*object*) -- Celery ???????????: *Celery ???????????????? ????*

name (*string*) -- ???????????

??????

Notification hooks allow external applications to notify Weblate that the VCS repository has been updated.

You can use repository endpoints for projects, components and translations to update individual repositories; see *POST /api/projects/(string:project)/repository/* for documentation.

GET /hooks/update/(**string:** *project*)**/**
string: *component***/** ?????? 2.6 ?????: Please use *POST /api/components/(string:project)/(string:component)/repository/* instead which works properly with authentication for ACL limited projects.

???????????????????VCS ????????????????????????????

GET /hooks/update/(**string:** *project*)**/**
?????? 2.6 ?????: Please use *POST /api/projects/(string:project)/repository/* instead which works properly with authentication for ACL limited projects.

????????????????????????????????VCS ????????????????????????

POST /hooks/github/
Special hook for handling GitHub notifications and automatically updating matching components.

??: GitHub includes direct support for notifying Weblate: enable Weblate service hook in repository settings and set the URL to the URL of your Weblate installation.

??:
Automatically receiving changes from GitHub
For instruction on setting up GitHub integration
https://docs.github.com/en/github/extending-github/about-webhooks
Generic information about GitHub Webhooks
ENABLE_HOOKS
For enabling hooks for whole Weblate

POST /hooks/gitlab/
Special hook for handling GitLab notifications and automatically updating matching components.

??:
Automatically receiving changes from GitLab
For instruction on setting up GitLab integration
https://docs.gitlab.com/ee/user/project/integrations/webhooks.html
Generic information about GitLab Webhooks
ENABLE_HOOKS
For enabling hooks for whole Weblate

POST /hooks/bitbucket/
Special hook for handling Bitbucket notifications and automatically updating matching components.

??:
Automatically receiving changes from Bitbucket
For instruction on setting up Bitbucket integration
https://support.atlassian.com/bitbucket-cloud/docs/manage-webhooks/
Generic information about Bitbucket Webhooks
ENABLE_HOOKS
For enabling hooks for whole Weblate

POST /hooks/pagure/
?????? 3.3 ???.

Pagure ??

??:
Pagure ??????????????
Pagure ???????????????
https://docs.pagure.org/pagure/usage/using_webhooks.html
Pagure WEB ????????????????
ENABLE_HOOKS
For enabling hooks for whole Weblate

POST /hooks/azure/
?????? 3.8 ???.

Special hook for handling Azure Repos notifications and automatically updating matching components.

??:
Automatically receiving changes from Azure Repos
For instruction on setting up Azure integration
https://docs.microsoft.com/en-us/azure/devops/service-hooks/services/webhooks?view=azure-devops
Generic information about Azure Repos Web Hooks
ENABLE_HOOKS
For enabling hooks for whole Weblate

POST /hooks/gitea/
?????? 3.9 ???.

Special hook for handling Gitea Webhook notifications and automatically updating matching components.

??:
Automatically receiving changes from Gitea Repos
For instruction on setting up Gitea integration
https://docs.gitea.io/en-us/webhooks/
Generic information about Gitea Webhooks
ENABLE_HOOKS
For enabling hooks for whole Weblate

POST /hooks/gitee/
?????? 3.9 ???.

Special hook for handling Gitee Webhook notifications and automatically updating matching components.

??:
Automatically receiving changes from Gitee Repos
For instruction on setting up Gitee integration
https://gitee.com/help/categories/40
Generic information about Gitee Webhooks
ENABLE_HOOKS
For enabling hooks for whole Weblate

Exports

Weblate provides various exports to allow you to further process the data.

GET /exports/stats/(**string:** *project*)**/**
string: *component***/**
??? ?????

format (*string*) -- Output format: either `json` or `csv`

????? 2.6 ????: Please use *GET /api/components/(string:project)/(string:component)/statistics/* and *GET /api/translations/(string:project)/(string:component)/(string:language)/statistics/* instead; it allows access to ACL controlled projects as well.

Retrieves statistics for given component in given format.

Example request:

```
GET /exports/stats/weblate/main/ HTTP/1.1
Host: example.com
Accept: application/json, text/javascript
```

Example response:

```
HTTP/1.1 200 OK
Vary: Accept
Content-Type: application/json

[
    {
        "code": "cs",
        "failing": 0,
        "failing_percent": 0.0,
        "fuzzy": 0,
        "fuzzy_percent": 0.0,
        "last_author": "Michal Čihař",
        "last_change": "2012-03-28T15:07:38+00:00",
        "name": "Czech",
        "total": 436,
        "total_words": 15271,
        "translated": 436,
        "translated_percent": 100.0,
        "translated_words": 3201,
        "url": "http://hosted.weblate.org/engage/weblate/cs/",
        "url_translate": "http://hosted.weblate.org/projects/weblate/main/
↪cs/"
    },
    {
        "code": "nl",
        "failing": 21,
        "failing_percent": 4.8,
        "fuzzy": 11,
        "fuzzy_percent": 2.5,
        "last_author": null,
        "last_change": null,
        "name": "Dutch",
        "total": 436,
        "total_words": 15271,
        "translated": 319,
        "translated_percent": 73.2,
```

(?????????)

```
        "translated_words": 3201,
        "url": "http://hosted.weblate.org/engage/weblate/nl/",
        "url_translate": "http://hosted.weblate.org/projects/weblate/main/
↪nl/"
    },
    {
        "code": "el",
        "failing": 11,
        "failing_percent": 2.5,
        "fuzzy": 21,
        "fuzzy_percent": 4.8,
        "last_author": null,
        "last_change": null,
        "name": "Greek",
        "total": 436,
        "total_words": 15271,
        "translated": 312,
        "translated_percent": 71.6,
        "translated_words": 3201,
        "url": "http://hosted.weblate.org/engage/weblate/el/",
        "url_translate": "http://hosted.weblate.org/projects/weblate/main/
↪el/"
    }
]
```

RSS □□□□

Changes in translations are exported in RSS feeds.

GET /exports/rss/(**string:** *project*)**/**
string: *component***/string:** *language***/** Retrieves RSS feed with recent changes for a translation.

GET /exports/rss/(**string:** *project*)**/**
string: *component***/** Retrieves RSS feed with recent changes for a component.

GET /exports/rss/(**string:** *project*)**/**
Retrieves RSS feed with recent changes for a project.

GET /exports/rss/language/(**string:** *language*)**/**
Retrieves RSS feed with recent changes for a language.

GET /exports/rss/
Retrieves RSS feed with recent changes for Weblate instance.

□□:

RSS Wikipedia □□:

Weblate □□□□□□

□□□□□ 2.7 □□□: Weblate 2.7 □□□wlc □□API □□□□□□□□□□□□□□□□□□□□□□□□

□□

Weblate □□□□□□□□□□□□□□□□Python □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□*wlc* □□□□□□□□□□□□□□□□□□

```
pip3 install wlc
```

Docker ???

Weblate ???????? Docker ???????????????

?????? Docker Hub: https://hub.docker.com/r/weblate/wlc ?????????

???????:

```
docker pull weblate/wlc
```

Docker ?????? Weblate ????????????????localhost ????????? API ????????API URL ? API_KEY ??Weblate ??????????????????

???????????????????:

```
docker run --rm weblate/wlc [WLC_ARGS]
```

?:

```
docker run --rm weblate/wlc --url https://hosted.weblate.org/api/ list-
↪projects
```

You might want to pass your *???????* to the Docker container, the easiest approach is to add your current directory as `/home/weblate` volume:

```
docker run --volume $PWD:/home/weblate --rm weblate/wlc show
```

????

wlc ??? `~/.config/weblate` ???????????????????? *???????* for other locations ???:????????????????????:

```
[weblate]
url = https://hosted.weblate.org/api/

[keys]
https://hosted.weblate.org/api/ = APIKEY
```

??????????? ????????????????????

```
wlc ls
wlc commit sandbox/hello-world
```

??:

???????

??

```
wlc [arguments] <command> [options]
```

??????????????????????????????

??

Weblate ???????? Python ????????*Weblate ? REST API* ?????? Weblate ?? ???????????**wlc** ????????????*wlc* ???????????

??

??????????????????????????????? Weblate ???????????????????????????????????????

--format {csv,json,text,html}
???????????

--url URL
API ? URL ????????????????????????????: *????????*URL ????? /api/ ???????: https://hosted.weblate.org/api/?

--key KEY
????? API ????? ????????????????????????????????: *????????*????? Weblate ??????????????????

--config PATH
????????????????????: *????????*?

--config-section SECTION
???????????? ???????????????????: *????????*?

????

???????????

version
??????????????????

list-languages
Weblate ?????????????????????

list-projects
Weblate ???????????????????

list-components
Weblate ?????????????????????

list-translations
Weblate ????????????????

show
Weblate ???

ls
Weblate ???

commit
Weblate ???

pull
??????????????? Weblate ???

push
Weblate ?????????????????? ???

reset
?????? 0.7 ???: wlc 0.7 ??????

Weblate ?????????????????????????? ???

cleanup
?????? 0.9 ???: wlc 0.9 ??????

????? ??? Weblate ?????????????????????????

repo
????? Weblate ??

statistics
????? Weblate ???

lock-status
?????? 0.5 ???: wlc 0.5 ??????

????????????????

lock
?????? 0.5 ???: wlc 0.5 ??????

Weblate ?????????????????????????????

unlock
[illegible] 0.5 [illegible]: wlc 0.5 [illegible]

Weblate [illegible]

changes
[illegible] 0.7 [illegible]: wlc 0.7 [illegible] Weblate 2.10 [illegible]

[illegible]

download
[illegible] 0.7 [illegible]: wlc 0.7 [illegible]

[illegible]

--convert
[illegible]

--output
[illegible]

upload
[illegible] 0.9 [illegible]: wlc 0.9 [illegible]

[illegible]

--overwrite
[illegible]

--input
[illegible]stdin [illegible]

[illegible]: `--help` [illegible]: `wlc ls --help`[illegible]

[illegible]

[illegible] 1.6 [illegible]: [illegible] *.ini* [illegible]

[illegible]

[illegible] 1.6 [illegible].

Windows [illegible]

[illegible]

[illegible]

[illegible] XDG [illegible] `XDG_CONFIG_HOME` [illegible] `XDG_CONFIG_DIRS` [illegible]Windows [illegible] `APPDATA` [illegible]

`[weblate]` [illegible] *--config-section* [illegible]:

key
Weblate [illegible] API [illegible]

url
API [illegible] URL[illegible] `http://127.0.0.1:8000/api/`[illegible]

translation
[illegible] - [illegible]

[illegible] INI [illegible]:

```
[weblate]
url = https://hosted.weblate.org/api/
key = APIKEY
translation = weblate/application
```

[illegible]API [illegible] `[keys]` [illegible]:

```
[keys]
https://hosted.weblate.org/api/ = APIKEY
```

[illegible]VCS [illegible] `.weblate` [illegible]wlc [illegible]

?:

??????????????????:

```
$ wlc version
version: 0.1
```

??????????????????:

```
$ wlc list-projects
name: Hello
slug: hello
url: http://example.com/api/projects/hello/
web: https://weblate.org/
web_url: http://example.com/projects/hello/
```

???wlc ??????????????????:

```
$ cat .weblate
[weblate]
url = https://hosted.weblate.org/api/
translation = weblate/application

$ wlc show
branch: main
file_format: po
source_language: en
filemask: weblate/locale/*/LC_MESSAGES/django.po
git_export: https://hosted.weblate.org/git/weblate/application/
license: GPL-3.0+
license_url: https://spdx.org/licenses/GPL-3.0+
name: Application
new_base: weblate/locale/django.pot
project: weblate
repo: git://github.com/WeblateOrg/weblate.git
slug: application
template:
url: https://hosted.weblate.org/api/components/weblate/application/
vcs: git
web_url: https://hosted.weblate.org/projects/weblate/application/
```

??:

```
$ wlc commit
```

Weblate ? Python API

??

The Python API is shipped separately, you need to install the *Weblate ??????* (wlc) to have it.

```
pip install wlc
```

wlc

WeblateException

exception wlc.**WeblateException**
???????????????

Weblate

class wlc.**Weblate**(*key=''*, *url=None*, *config=None*)

□□□□□

key (*str*) -- □□□□ key

url (*str*) -- API □□□□□ URL□□□□□□□□□□□□□□□□□□□□□

config (wlc.config.WeblateConfig) -- □□□□□□□□□□□□□□□□□□□□□□□□□□

API □□□□□□□ □□□□□API □□□□□□□ API URL □□□□□□□

get(*path*)

□□□□□
path (*str*) -- □□□□□□□□□
□□□□□
object

□□□ API GET □□□□□□□□□□□□

post(*path*, ***kwargs*)

□□□□□
path (*str*) -- □□□□□□□□□
□□□□□
object

□□□ API GET □□□□□□□□□□□□

wlc.config

WeblateConfig

class wlc.config.**WeblateConfig**(*section='wlc'*)

□□□□□
section (*str*) -- □□□□□□□□□□□□□

XDG □□□□□□□□□□□□□□□□□□□□□□□

load(*path=None*)

□□□□□
path (*str*) -- □□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□XDG □□□□□/etc/xdg/wlc □□□□□□□□ *wlc* □□□□□□□~/.config/wlc □□□□□□□□□□□

wlc.main

wlc.main.**main**(*settings=None*, *stdout=None*, *args=None*)

□□□□□

settings (*list*) -- □□□□□□□□□□□□□□□□□□□□

stdout (*object*) -- □□□□□ stdout □□□□□ □□□□□□□□□□□□□□□ sys.stdout □□□□□

args (*list*) -- □□□□□□□□□□□□□□□□□□□□□□□□ sys.args □□□□□

□□□□□ □□□□ □□□□□□□□□□□□□□□ □□□□□ □□□□□□

@wlc.main.**register_command**(*command*)
main() □□□□□□□□□□ □□□□□□□*main()* □□□□□□□□□□□□□□□□□

Command

class wlc.main.**Command**(*args*, *config*, *stdout=None*)
□□□□□□□□□□□□□□□□ □□□□

□□□□□□□□□□

□□□□

Weblate □□□□□□□□

Docker □□□□□□□□□□□□

With dockerized Weblate deployment you can get your personal Weblate instance up and running in seconds. All of Weblate's dependencies are already included. PostgreSQL is set up as the default database.

Hardware requirements

Weblate should run on any contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2GB□RAM

2 CPU cores

1 GB of storage space

The more memory the better - it is used for caching on all levels (filesystem, database and Weblate).

Many concurrent users increases the amount of needed CPU cores. For hundreds of translation components at least 4 GB of RAM is recommended.

The typical database storage usage is around 300 MB per 1 million hosted words. Storage space needed for cloned repositories varies, but Weblate tries to keep their size minimal by doing shallow clones.

□□: Actual requirements for your installation of Weblate vary heavily based on the size of the translations managed in it.

□□

The following examples assume you have a working Docker environment, with `docker-compose` installed. Please check the Docker documentation for instructions.

1. Clone the weblate-docker repo:

```
git clone https://github.com/WeblateOrg/docker-compose.git weblate-docker
cd weblate-docker
```

2. Create a `docker-compose.override.yml` file with your settings. See *Docker environment variables* for full list of environment variables.

```
version: '3'
services:
  weblate:
    ports:
      - 80:8080
    environment:
      WEBLATE_EMAIL_HOST: smtp.example.com
      WEBLATE_EMAIL_HOST_USER: user
      WEBLATE_EMAIL_HOST_PASSWORD: pass
      WEBLATE_SERVER_EMAIL: weblate@example.com
      WEBLATE_DEFAULT_FROM_EMAIL: weblate@example.com
      WEBLATE_SITE_DOMAIN: weblate.example.com
      WEBLATE_ADMIN_PASSWORD: password for the admin user
      WEBLATE_ADMIN_EMAIL: weblate.admin@example.com
```

□□: If *WEBLATE_ADMIN_PASSWORD* is not set, the admin user is created with a random password shown on first startup.

The provided example makes Weblate listen on port 80, edit the port mapping in the `docker-compose.override.yml` file to change it.

3.Start Weblate containers:

```
docker-compose up
```

Enjoy your Weblate deployment, it's accessible on port 80 of the `weblate` container.

□□□□□ 2.15-2 □□□: The setup has changed recently, priorly there was separate web server container, since 2.15-2 the web server is embedded in the Weblate container.

□□□□□ 3.7.1-6 □□□: In July 2019 (starting with the 3.7.1-6 tag), the containers are not running as a root user. This has changed the exposed port from 80 to 8080.

□□:

Invoking management commands

Choosing Docker hub tag

You can use following tags on Docker hub, see https://hub.docker.com/r/weblate/weblate/tags/ for full list of available ones.

Tag name	□□	Use case
`latest`	Weblate stable release, matches latest tagged release	Rolling updates in a production environment
`<VERSION>-<PATCH>`	Weblate stable release	Well defined deploy in a production environment
`edge`	Weblate stable release with development changes in the Docker container (for example updated dependencies)	Rolling updates in a staging environment
`edge-<DATE>-<SHA>`	Weblate stable release with development changes in the Docker container (for example updated dependencies)	Well defined deploy in a staging environment
`bleeding`	Development version Weblate from Git	Rollling updates to test upcoming Weblate features
`bleeding-<DATE>-<SHA>`	Development version Weblate from Git	Well defined deploy to test upcoming Weblate features

Every image is tested by our CI before it gets published, so even the *bleeding* version should be quite safe to use.

Docker container with HTTPS support

Please see □□ for generic deployment instructions, this section only mentions differences compared to it.

Using own SSL certificates

□□□□□ 3.8-3 □□□.

In case you have own SSL certificate you want to use, simply place the files into the Weblate data volume (see *Docker container volumes*):

`ssl/fullchain.pem` containing the certificate including any needed CA certificates

`ssl/privkey.pem` containing the private key

Both of these files must be owned by the same user as the one starting the docker container and have file mask set to `600` (readable and writable only by the owning user).

Additionally, Weblate container will now accept SSL connections on port 4443, you will want to include the port forwarding for HTTPS in docker compose override:

```
version: '3'
services:
  weblate:
    ports:
      - 80:8080
      - 443:4443
```

If you already host other sites on the same server, it is likely ports `80` and `443` are used by a reverse proxy, such as NGINX. To pass the HTTPS connection from NGINX to the docker container, you can use the following configuration:

```
server {
    listen 443;
    listen [::]:443;

    server_name <SITE_URL>;
    ssl_certificate /etc/letsencrypt/live/<SITE>/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/<SITE>/privkey.pem;

    location / {
            proxy_set_header HOST $host;
            proxy_set_header X-Forwarded-Proto https;
            proxy_set_header X-Real-IP $remote_addr;
            proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
            proxy_set_header X-Forwarded-Host $server_name;
            proxy_pass https://127.0.0.1:<EXPOSED_DOCKER_PORT>;
    }
}
```

Replace `<SITE_URL>`, `<SITE>` and `<EXPOSED_DOCKER_PORT>` with actual values from your environment.

Automatic SSL certificates using Let's Encrypt

In case you want to use Let's Encrypt automatically generated SSL certificates on public installation, you need to add a reverse HTTPS proxy an additional Docker container, https-portal will be used for that. This is made use of in the `docker-compose-https.yml` file. Then create a `docker-compose-https.override.yml` file with your settings:

```
version: '3'
services:
  weblate:
    environment:
      WEBLATE_EMAIL_HOST: smtp.example.com
      WEBLATE_EMAIL_HOST_USER: user
      WEBLATE_EMAIL_HOST_PASSWORD: pass
      WEBLATE_SITE_DOMAIN: weblate.example.com
      WEBLATE_ADMIN_PASSWORD: password for admin user
  https-portal:
    environment:
      DOMAINS: 'weblate.example.com -> http://weblate:8080'
```

Whenever invoking **`docker-compose`** you need to pass both files to it, and then do:

```
docker-compose -f docker-compose-https.yml -f docker-compose-https.
↪override.yml build
docker-compose -f docker-compose-https.yml -f docker-compose-https.
↪override.yml up
```

Upgrading the Docker container

Usually it is good idea to only update the Weblate container and keep the PostgreSQL container at the version you have, as upgrading PostgreSQL is quite painful and in most cases does not bring many benefits.

You can do this by sticking with the existing docker-compose and just pull the latest images and then restart:

```
# Fetch latest versions of the images
docker-compose pull
# Stop and destroy the containers
docker-compose down
# Spawn new containers in the background
docker-compose up -d
# Follow the logs during upgrade
docker-compose logs -f
```

The Weblate database should be automatically migrated on first startup, and there should be no need for additional manual actions.

??: Upgrades across 3.0 are not supported by Weblate. If you are on 2.x series and want to upgrade to 3.x, first upgrade to the latest 3.0.1-x (at time of writing this it is the `3.0.1-7`) image, which will do the migration and then continue upgrading to newer versions.

You might also want to update the `docker-compose` repository, though it's not needed in most case. Please beware of PostgreSQL version changes in this case as it's not straightforward to upgrade the database, see GitHub issue for more info.

?????? ??

After container setup, you can sign in as *admin* user with password provided in *WEBLATE_ADMIN_PASSWORD*, or a random password generated on first start if that was not set.

To reset *admin* password, restart the container with *WEBLATE_ADMIN_PASSWORD* set to new password.

??:

WEBLATE_ADMIN_PASSWORD?*WEBLATE_ADMIN_NAME*?*WEBLATE_ADMIN_EMAIL*

Number of processes and memory consumption

The number of worker processes for both uWSGI and Celery is determined automatically based on number of CPUs. This works well for most cloud virtual machines as these typically have few CPUs and good amount of memory.

In case you have a lot of CPU cores and hit out of memory issues, try reducing number of workers:

```
environment:
  WEBLATE_WORKERS: 2
```

You can also fine-tune individual worker categories:

```
environment:
  UWSGI_WORKERS: 4
  CELERY_MAIN_OPTIONS: --concurrency 2
  CELERY_NOTIFY_OPTIONS: --concurrency 1
  CELERY_TRANSLATE_OPTIONS: --concurrency 1
```

??:

WEBLATE_WORKERS *CELERY_MAIN_OPTIONS*, *CELERY_NOTIFY_OPTIONS*, *CELERY_MEMORY_OPTIONS*, *CELERY_TRANSLATE_OPTIONS*, *CELERY_BACKUP_OPTIONS*, *CELERY_BEAT_OPTIONS*, *UWSGI_WORKERS*

Scaling horizontally

□□□□□ 4.6 □□□.

□□: □□□□□□□□□□□□□□□

You can run multiple Weblate containers to scale the service horizontally. The `/app/data` volume has to be shared by all containers, it is recommended to use cluster filesystem such as GlusterFS for this. The `/app/cache` volume should be separate for each container.

Each Weblate container has defined role using *WEBLATE_SERVICE* environment variable. Please follow carefully the documentation as some of the services should be running just once in the cluster and the ordering of the services matters as well.

You can find example setup in the `docker-compose` repo as docker-compose-split.yml.

Docker environment variables

Many of Weblate's □□ can be set in the Docker container using environment variables:

Generic settings

WEBLATE_DEBUG
Configures Django debug mode using *DEBUG*.

□:

```
environment:
  WEBLATE_DEBUG: 1
```

□□:

□□□□ □□□□□□

WEBLATE_LOGLEVEL
Configures the logging verbosity.

WEBLATE_SITE_TITLE
Changes the site-title shown in the header of all pages.

WEBLATE_SITE_DOMAIN
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□:

□□□□□□□□□□□□□□□*SITE_DOMAIN*

WEBLATE_ADMIN_NAME

WEBLATE_ADMIN_EMAIL
Configures the site-admin's name and e-mail. It is used for both *ADMINS* setting and creating *admin* user (see *WEBLATE_ADMIN_PASSWORD* for more info on that).

□:

```
environment:
  WEBLATE_ADMIN_NAME: Weblate admin
  WEBLATE_ADMIN_EMAIL: noreply@example.com
```

□□:

□□□□□□ □□□□□□□□□□□□□□*ADMINS*

WEBLATE_ADMIN_PASSWORD
Sets the password for the *admin* user.

If not set and *admin* user does not exist, it is created with a random password shown on first container startup.

If not set and *admin* user exists, no action is performed.

If set the *admin* user is adjusted on every container startup to match *WEBLATE_ADMIN_PASSWORD*, *WEBLATE_ADMIN_NAME* and *WEBLATE_ADMIN_EMAIL*.

??: It might be a security risk to store password in the configuration file. Consider using this variable only for initial setup (or let Weblate generate random password on initial startup) or for password recovery.

??:

*??????? ???WEBLATE_ADMIN_PASSWORD?WEBLATE_ADMIN_PASSWORD_FILE?WEBLATE_ADMIN_NAME?WEBLATE_*

WEBLATE_ADMIN_PASSWORD_FILE
Sets the path to a file containing the password for the *admin* user.

??:

WEBLATE_ADMIN_PASSWORD

WEBLATE_SERVER_EMAIL

WEBLATE_DEFAULT_FROM_EMAIL
Configures the address for outgoing e-mails.

??:

?????????

WEBLATE_CONTACT_FORM
Configures contact form behavior, see *CONTACT_FORM*.

WEBLATE_ALLOWED_HOSTS
Configures allowed HTTP hostnames using *ALLOWED_HOSTS*.

Defaults to `*` which allows all hostnames.

?:

```
environment:
  WEBLATE_ALLOWED_HOSTS: weblate.example.com,example.com
```

??:

ALLOWED_HOSTS?????????????????????????

WEBLATE_REGISTRATION_OPEN
Configures whether registrations are open by toggling *REGISTRATION_OPEN*.

?:

```
environment:
  WEBLATE_REGISTRATION_OPEN: 0
```

WEBLATE_REGISTRATION_ALLOW_BACKENDS
Configure which authentication methods can be used to create new account via *REGISTRATION_ALLOW_BACKENDS*.

?:

```
environment:
  WEBLATE_REGISTRATION_OPEN: 0
  WEBLATE_REGISTRATION_ALLOW_BACKENDS: azuread-oauth2,azuread-tenant-oauth2
```

WEBLATE_TIME_ZONE
Configures the used time zone in Weblate, see TIME_ZONE.

??: To change the time zone of the Docker container itself, use the `TZ` environment variable.

?:

```
environment:
  WEBLATE_TIME_ZONE: Europe/Prague
```

WEBLATE_ENABLE_HTTPS
Makes Weblate assume it is operated behind a reverse HTTPS proxy, it makes Weblate use HTTPS in e-mail and API links or set secure flags on cookies.

???: Please see *ENABLE_HTTPS* documentation for possible caveats.

??: This does not make the Weblate container accept HTTPS connections, you need to configure that as well, see *Docker container with HTTPS support* for examples.

?:

```
environment:
  WEBLATE_ENABLE_HTTPS: 1
```

??:

ENABLE_HTTPS ??????????????*WEBLATE_SECURE_PROXY_SSL_HEADER*

WEBLATE_IP_PROXY_HEADER
Lets Weblate fetch the IP address from any given HTTP header. Use this when using a reverse proxy in front of the Weblate container.

Enables *IP_BEHIND_REVERSE_PROXY* and sets *IP_PROXY_HEADER*.

??: The format must conform to Django's expectations. Django transforms raw HTTP header names as follows:

converts all characters to uppercase

replaces any hyphens with underscores

prepends `HTTP_` prefix

So `X-Forwarded-For` would be mapped to `HTTP_X_FORWARDED_FOR`.

?:

```
environment:
  WEBLATE_IP_PROXY_HEADER: HTTP_X_FORWARDED_FOR
```

WEBLATE_SECURE_PROXY_SSL_HEADER
A tuple representing a HTTP header/value combination that signifies a request is secure. This is needed when Weblate is running behind a reverse proxy doing SSL termination which does not pass standard HTTPS headers.

?:

```
environment:
  WEBLATE_SECURE_PROXY_SSL_HEADER: HTTP_X_FORWARDED_PROTO,https
```

??:

`SECURE_PROXY_SSL_HEADER`

WEBLATE_REQUIRE_LOGIN
Enables *REQUIRE_LOGIN* to enforce authentication on whole Weblate.

?:

```
environment:
  WEBLATE_REQUIRE_LOGIN: 1
```

WEBLATE_LOGIN_REQUIRED_URLS_EXCEPTIONS

WEBLATE_ADD_LOGIN_REQUIRED_URLS_EXCEPTIONS

WEBLATE_REMOVE_LOGIN_REQUIRED_URLS_EXCEPTIONS
Adds URL exceptions for authentication required for the whole Weblate installation using *LOGIN_REQUIRED_URLS_EXCEPTIONS*.

You can either replace whole settings, or modify default value using `ADD` and `REMOVE` variables.

WEBLATE_GOOGLE_ANALYTICS_ID
Configures ID for Google Analytics by changing *GOOGLE_ANALYTICS_ID*.

WEBLATE_GITHUB_USERNAME
Configures GitHub username for GitHub pull-requests by changing *GITHUB_USERNAME*.

??:

GitHub

WEBLATE_GITHUB_TOKEN
????? 4.3 ???.

Configures GitHub personal access token for GitHub pull-requests via API by changing *GITHUB_TOKEN*.

??:

GitHub

WEBLATE_GITLAB_USERNAME
Configures GitLab username for GitLab merge-requests by changing *GITLAB_USERNAME*

??:

GitLab

WEBLATE_GITLAB_TOKEN
Configures GitLab personal access token for GitLab merge-requests via API by changing *GITLAB_TOKEN*

??:

GitLab

WEBLATE_PAGURE_USERNAME
PAGURE_USERNAME ???????Pagure merge-requests ?? Pagure ??????????

??:

Pagure

WEBLATE_PAGURE_TOKEN
PAGURE_TOKEN ???????API ??? Pagure ???? ??????????Pagure ????????? ??????????

??:

Pagure

WEBLATE_SIMPLIFY_LANGUAGES
Configures the language simplification policy, see *SIMPLIFY_LANGUAGES*.

WEBLATE_DEFAULT_ACCESS_CONTROL
Configures the default *??????* for new projects, see *DEFAULT_ACCESS_CONTROL*.

WEBLATE_DEFAULT_RESTRICTED_COMPONENT
Configures the default value for *??????* for new components, see *DEFAULT_RESTRICTED_COMPONENT*.

WEBLATE_DEFAULT_TRANSLATION_PROPAGATION
Configures the default value for *?????????* for new components, see *DEFAULT_TRANSLATION_PROPAGATION*.

WEBLATE_DEFAULT_COMMITER_EMAIL
Configures *DEFAULT_COMMITER_EMAIL*.

WEBLATE_DEFAULT_COMMITER_NAME
Configures *DEFAULT_COMMITER_NAME*.

WEBLATE_DEFAULT_SHARED_TM
DEFAULT_SHARED_TM ????

WEBLATE_AKISMET_API_KEY
Configures the Akismet API key, see *AKISMET_API_KEY*.

WEBLATE_GPG_IDENTITY
Configures GPG signing of commits, see *WEBLATE_GPG_IDENTITY*.

??:

Signing Git commits with GnuPG

WEBLATE_URL_PREFIX
Configures URL prefix where Weblate is running, see *URL_PREFIX*.

WEBLATE_SILENCED_SYSTEM_CHECKS
Configures checks which you do not want to be displayed, see SILENCED_SYSTEM_CHECKS.

WEBLATE_CSP_SCRIPT_SRC

WEBLATE_CSP_IMG_SRC

WEBLATE_CSP_CONNECT_SRC

WEBLATE_CSP_STYLE_SRC

WEBLATE_CSP_FONT_SRC
Allows to customize `Content-Security-Policy` HTTP header.

??:

??????,???????,??????CSP_SCRIPT_SRC?CSP_IMG_SRC?CSP_CONNECT_SRC?CSP_STYLE_SRC?CSP_FONT_SRC

WEBLATE_LICENSE_FILTER
LICENSE_FILTER ????

WEBLATE_LICENSE_REQUIRED
LICENSE_REQUIRED ???

WEBLATE_WEBSITE_REQUIRED
WEBSITE_REQUIRED ???

WEBLATE_HIDE_VERSION
HIDE_VERSION ????

WEBLATE_BASIC_LANGUAGES
BASIC_LANGUAGES ????

WEBLATE_DEFAULT_AUTO_WATCH
DEFAULT_AUTO_WATCH ????

WEBLATE_RATELIMIT_ATTEMPTS

WEBLATE_RATELIMIT_LOCKOUT

WEBLATE_RATELIMIT_WINDOW
????? 4.6 ???.

??????????

???: You can set configuration for any rate limiter scopes. To do that add `WEBLATE_` prefix to any of setting described in *????*.

??:

?????RATELIMIT_ATTEMPTS?RATELIMIT_WINDOW?RATELIMIT_LOCKOUT

WEBLATE_ENABLE_AVATARS
????? 4.6.1 ???.

ENABLE_AVATARS ????

WEBLATE_LIMIT_TRANSLATION_LENGTH_BY_SOURCE_LENGTH
????? 4.9 ???.

Configures *LIMIT_TRANSLATION_LENGTH_BY_SOURCE_LENGTH*.

WEBLATE_SSH_EXTRA_ARGS
????? 4.9 ???.

Configures *SSH_EXTRA_ARGS*.

WEBLATE_BORG_EXTRA_ARGS
????? 4.9 ???.

Configures *BORG_EXTRA_ARGS*.

Machine translation settings

???: Configuring API key for a service automatically configures it in *MT_SERVICES*.

WEBLATE_MT_APERTIUM_APY
Enables *Apertium* machine translation and sets *MT_APERTIUM_APY*

WEBLATE_MT_AWS_REGION

WEBLATE_MT_AWS_ACCESS_KEY_ID

WEBLATE_MT_AWS_SECRET_ACCESS_KEY
Configures *AWS* machine translation.

```
environment:
  WEBLATE_MT_AWS_REGION: us-east-1
  WEBLATE_MT_AWS_ACCESS_KEY_ID: AKIAIOSFODNN7EXAMPLE
  WEBLATE_MT_AWS_SECRET_ACCESS_KEY: wJalrXUtnFEMI/K7MDENG/
↪bPxRfiCYEXAMPLEKEY
```

WEBLATE_MT_DEEPL_KEY
Enables *DeepL* machine translation and sets *MT_DEEPL_KEY*

WEBLATE_MT_DEEPL_API_URL
□□□□ *DeepL* API □□□□□□□□□□□□□□□□: *MT_DEEPL_API_URL*□

WEBLATE_MT_LIBRETRANSLATE_KEY
Enables *LibreTranslate* machine translation and sets *MT_LIBRETRANSLATE_KEY*

WEBLATE_MT_LIBRETRANSLATE_API_URL
Configures *LibreTranslate* API instance to use, see *MT_LIBRETRANSLATE_API_URL*.

WEBLATE_MT_GOOGLE_KEY
Enables *Google Translate* and sets *MT_GOOGLE_KEY*

WEBLATE_MT_GOOGLE_CREDENTIALS
Enables *Google Translate API V3 (Advanced)* and sets *MT_GOOGLE_CREDENTIALS*

WEBLATE_MT_GOOGLE_PROJECT
Enables *Google Translate API V3 (Advanced)* and sets *MT_GOOGLE_PROJECT*

WEBLATE_MT_GOOGLE_LOCATION
Enables *Google Translate API V3 (Advanced)* and sets *MT_GOOGLE_LOCATION*

WEBLATE_MT_MICROSOFT_COGNITIVE_KEY
Enables *Microsoft Cognitive Services Translator* and sets *MT_MICROSOFT_COGNITIVE_KEY*

WEBLATE_MT_MICROSOFT_ENDPOINT_URL
Sets *MT_MICROSOFT_ENDPOINT_URL*, please note this is supposed to contain domain name only.

WEBLATE_MT_MICROSOFT_REGION
Sets *MT_MICROSOFT_REGION*

WEBLATE_MT_MICROSOFT_BASE_URL
Sets *MT_MICROSOFT_BASE_URL*

WEBLATE_MT_MODERNMT_KEY
Enables *ModernMT* and sets *MT_MODERNMT_KEY*.

WEBLATE_MT_MYMEMORY_ENABLED

Enables *MyMemory* machine translation and sets *MT_MYMEMORY_EMAIL* to *WEBLATE_ADMIN_EMAIL*.

□:

```
environment:
  WEBLATE_MT_MYMEMORY_ENABLED: 1
```

WEBLATE_MT_GLOSBE_ENABLED
Glosbe □□□□□□□□□□

```
environment:
  WEBLATE_MT_GLOSBE_ENABLED: 1
```

WEBLATE_MT_MICROSOFT_TERMINOLOGY_ENABLED
Microsoft Terminology Service □□□□□□□□□□

```
environment:
  WEBLATE_MT_MICROSOFT_TERMINOLOGY_ENABLED: 1
```

WEBLATE_MT_SAP_BASE_URL

WEBLATE_MT_SAP_SANDBOX_APIKEY

WEBLATE_MT_SAP_USERNAME

WEBLATE_MT_SAP_PASSWORD

WEBLATE_MT_SAP_USE_MT
Configures *SAP Translation Hub* machine translation.

```
environment:
    WEBLATE_MT_SAP_BASE_URL: "https://example.hana.ondemand.com/
↪translationhub/api/v1/"
    WEBLATE_MT_SAP_USERNAME: "user"
    WEBLATE_MT_SAP_PASSWORD: "password"
    WEBLATE_MT_SAP_USE_MT: 1
```

Authentication settings

LDAP

WEBLATE_AUTH_LDAP_SERVER_URI

WEBLATE_AUTH_LDAP_USER_DN_TEMPLATE

WEBLATE_AUTH_LDAP_USER_ATTR_MAP

WEBLATE_AUTH_LDAP_BIND_DN

WEBLATE_AUTH_LDAP_BIND_PASSWORD

WEBLATE_AUTH_LDAP_CONNECTION_OPTION_REFERRALS

WEBLATE_AUTH_LDAP_USER_SEARCH

WEBLATE_AUTH_LDAP_USER_SEARCH_FILTER

WEBLATE_AUTH_LDAP_USER_SEARCH_UNION

WEBLATE_AUTH_LDAP_USER_SEARCH_UNION_DELIMITER
LDAP authentication configuration.

Example for direct bind:

```
environment:
  WEBLATE_AUTH_LDAP_SERVER_URI: ldap://ldap.example.org
  WEBLATE_AUTH_LDAP_USER_DN_TEMPLATE: uid=%(user)s,ou=People,dc=example,
↪dc=net
  # map weblate 'full_name' to ldap 'name' and weblate 'email' attribute␣
↪to 'mail' ldap attribute.
  # another example that can be used with OpenLDAP: 'full_name:cn,
↪email:mail'
  WEBLATE_AUTH_LDAP_USER_ATTR_MAP: full_name:name,email:mail
```

Example for search and bind:

```
environment:
  WEBLATE_AUTH_LDAP_SERVER_URI: ldap://ldap.example.org
  WEBLATE_AUTH_LDAP_BIND_DN: CN=ldap,CN=Users,DC=example,DC=com
  WEBLATE_AUTH_LDAP_BIND_PASSWORD: password
  WEBLATE_AUTH_LDAP_USER_ATTR_MAP: full_name:name,email:mail
  WEBLATE_AUTH_LDAP_USER_SEARCH: CN=Users,DC=example,DC=com
```

Example for union search and bind:

```
environment:
  WEBLATE_AUTH_LDAP_SERVER_URI: ldap://ldap.example.org
  WEBLATE_AUTH_LDAP_BIND_DN: CN=ldap,CN=Users,DC=example,DC=com
  WEBLATE_AUTH_LDAP_BIND_PASSWORD: password
  WEBLATE_AUTH_LDAP_USER_ATTR_MAP: full_name:name,email:mail
  WEBLATE_AUTH_LDAP_USER_SEARCH_UNION: ou=users,dc=example,
↪dc=com|ou=otherusers,dc=example,dc=com
```

Example with search and bind against Active Directory:

```
environment:
  WEBLATE_AUTH_LDAP_BIND_DN: CN=ldap,CN=Users,DC=example,DC=com
  WEBLATE_AUTH_LDAP_BIND_PASSWORD: password
  WEBLATE_AUTH_LDAP_SERVER_URI: ldap://ldap.example.org
  WEBLATE_AUTH_LDAP_CONNECTION_OPTION_REFERRALS: 0
  WEBLATE_AUTH_LDAP_USER_ATTR_MAP: full_name:name,email:mail
  WEBLATE_AUTH_LDAP_USER_SEARCH: CN=Users,DC=example,DC=com
  WEBLATE_AUTH_LDAP_USER_SEARCH_FILTER: (sAMAccountName=%(user)s)
```

??:

LDAP ??

GitHub

WEBLATE_SOCIAL_AUTH_GITHUB_KEY

WEBLATE_SOCIAL_AUTH_GITHUB_SECRET
GitHub □□ □□□□□

Bitbucket

WEBLATE_SOCIAL_AUTH_BITBUCKET_KEY

WEBLATE_SOCIAL_AUTH_BITBUCKET_SECRET
Bitbucket □□ □□□□□

Facebook

WEBLATE_SOCIAL_AUTH_FACEBOOK_KEY

WEBLATE_SOCIAL_AUTH_FACEBOOK_SECRET
Facebook OAuth 2 □□□□□

Google

WEBLATE_SOCIAL_AUTH_GOOGLE_OAUTH2_KEY

WEBLATE_SOCIAL_AUTH_GOOGLE_OAUTH2_SECRET

WEBLATE_SOCIAL_AUTH_GOOGLE_OAUTH2_WHITELISTED_DOMAINS

WEBLATE_SOCIAL_AUTH_GOOGLE_OAUTH2_WHITELISTED_EMAILS
Google OAuth 2 □□□□□

GitLab

WEBLATE_SOCIAL_AUTH_GITLAB_KEY

WEBLATE_SOCIAL_AUTH_GITLAB_SECRET

WEBLATE_SOCIAL_AUTH_GITLAB_API_URL
GitLab OAuth 2 □□□□□

Azure Active Directory

WEBLATE_SOCIAL_AUTH_AZUREAD_OAUTH2_KEY

WEBLATE_SOCIAL_AUTH_AZUREAD_OAUTH2_SECRET
Enables Azure Active Directory authentication, see *Microsoft Azure Active Directory*.

Azure Active Directory with Tenant support

WEBLATE_SOCIAL_AUTH_AZUREAD_TENANT_OAUTH2_KEY

WEBLATE_SOCIAL_AUTH_AZUREAD_TENANT_OAUTH2_SECRET

WEBLATE_SOCIAL_AUTH_AZUREAD_TENANT_OAUTH2_TENANT_ID
Enables Azure Active Directory authentication with Tenant support, see *Microsoft Azure Active Directory*.

Keycloak

WEBLATE_SOCIAL_AUTH_KEYCLOAK_KEY

WEBLATE_SOCIAL_AUTH_KEYCLOAK_SECRET

WEBLATE_SOCIAL_AUTH_KEYCLOAK_PUBLIC_KEY

WEBLATE_SOCIAL_AUTH_KEYCLOAK_ALGORITHM

WEBLATE_SOCIAL_AUTH_KEYCLOAK_AUTHORIZATION_URL

WEBLATE_SOCIAL_AUTH_KEYCLOAK_ACCESS_TOKEN_URL
Enables Keycloak authentication, see documentation.

Linux vendors

You can enable authentication using Linux vendors authentication services by setting following variables to any value.

WEBLATE_SOCIAL_AUTH_FEDORA

WEBLATE_SOCIAL_AUTH_OPENSUSE

WEBLATE_SOCIAL_AUTH_UBUNTU

Slack

WEBLATE_SOCIAL_AUTH_SLACK_KEY

SOCIAL_AUTH_SLACK_SECRET
Enables Slack authentication, see *Slack*.

SAML

Self-signed SAML keys are automatically generated on first container startup. In case you want to use own keys, place the certificate and private key in `/app/data/ssl/saml.crt` and `/app/data/ssl/saml.key`.

WEBLATE_SAML_IDP_ENTITY_ID

WEBLATE_SAML_IDP_URL

WEBLATE_SAML_IDP_X509CERT
SAML Identity Provider settings, see *SAML ??*.

Other authentication settings

WEBLATE_NO_EMAIL_AUTH
Disables e-mail authentication when set to any value.

PostgreSQL database setup

The database is created by `docker-compose.yml`, so these settings affect both Weblate and PostgreSQL containers.

??:

Weblate ?????????

POSTGRES_PASSWORD
PostgreSQL password.

POSTGRES_PASSWORD_FILE
Path to the file containing the PostgreSQL password. Use as an alternative to POSTGRES_PASSWORD.

POSTGRES_USER
PostgreSQL username.

POSTGRES_DATABASE
PostgreSQL database name.

POSTGRES_HOST
PostgreSQL server hostname or IP address. Defaults to `database`.

POSTGRES_PORT
PostgreSQL server port. Defaults to none (uses the default value).

POSTGRES_SSL_MODE
Configure how PostgreSQL handles SSL in connection to the server, for possible choices see SSL Mode Descriptions

POSTGRES_ALTER_ROLE
Configures name of role to alter during migrations, see *PostgreSQL [illegible] Webrate [illegible]*.

POSTGRES_CONN_MAX_AGE
[illegible] 4.8.1 [illegible].

The lifetime of a database connection, as an integer of seconds. Use 0 to close database connections at the end of each request (this is the default behavior).

Enabling connection persistence will typically, cause more open connection to the database. Please adjust your database configuration prior enabling.

[illegible]:

```
environment:
    POSTGRES_CONN_MAX_AGE: 3600
```

[illegible]:

`CONN_MAX_AGE`, Persistent connections

Database backup settings

[illegible]:

Dumped data for backups

WEBLATE_DATABASE_BACKUP
Configures the daily database dump using *`DATABASE_BACKUP`*. Defaults to `plain`.

Caching server setup

Using Redis is strongly recommended by Weblate and you have to provide a Redis instance when running Weblate in Docker.

[illegible]:

[illegible]

REDIS_HOST
The Redis server hostname or IP address. Defaults to `cache`.

REDIS_PORT
The Redis server port. Defaults to `6379`.

REDIS_DB
The Redis database number, defaults to `1`.

REDIS_PASSWORD
The Redis server password, not used by default.

REDIS_TLS
Enables using SSL for Redis connection.

REDIS_VERIFY_SSL
Can be used to disable SSL certificate verification for Redis connection.

Email server setup

To make outgoing e-mail work, you need to provide a mail server.

Example TLS configuration:

```
environment:
    WEBLATE_EMAIL_HOST: smtp.example.com
    WEBLATE_EMAIL_HOST_USER: user
    WEBLATE_EMAIL_HOST_PASSWORD: pass
```

Example SSL configuration:

```
environment:
    WEBLATE_EMAIL_HOST: smtp.example.com
    WEBLATE_EMAIL_PORT: 465
    WEBLATE_EMAIL_HOST_USER: user
    WEBLATE_EMAIL_HOST_PASSWORD: pass
    WEBLATE_EMAIL_USE_TLS: 0
    WEBLATE_EMAIL_USE_SSL: 1
```

??:

????????

WEBLATE_EMAIL_HOST
Mail server hostname or IP address.

??:

WEBLATE_EMAIL_PORT?*WEBLATE_EMAIL_USE_SSL*?*WEBLATE_EMAIL_USE_TLS*?EMAIL_HOST

WEBLATE_EMAIL_PORT
Mail server port, defaults to 25.

??:

EMAIL_PORT

WEBLATE_EMAIL_HOST_USER
??????????

??:

EMAIL_HOST_USER

WEBLATE_EMAIL_HOST_PASSWORD
??????????

??:

EMAIL_HOST_PASSWORD

WEBLATE_EMAIL_HOST_PASSWORD_FILE
??????????

??:

WEBLATE_EMAIL_HOST_PASSWORD

WEBLATE_EMAIL_USE_SSL
Whether to use an implicit TLS (secure) connection when talking to the SMTP server. In most e-mail documentation, this type of TLS connection is referred to as SSL. It is generally used on port 465. If you are experiencing problems, see the explicit TLS setting *WEBLATE_EMAIL_USE_TLS*.

??:

WEBLATE_EMAIL_PORT?*WEBLATE_EMAIL_USE_TLS*?EMAIL_USE_SSL

WEBLATE_EMAIL_USE_TLS
Whether to use a TLS (secure) connection when talking to the SMTP server. This is used for explicit TLS connections, generally on port 587 or 25. If you are experiencing connections that hang, see the implicit TLS setting *WEBLATE_EMAIL_USE_SSL*.

??:

WEBLATE_EMAIL_PORT?*WEBLATE_EMAIL_USE_SSL*?EMAIL_USE_TLS

WEBLATE_EMAIL_BACKEND
Configures Django back-end to use for sending e-mails.

??:

?????????`EMAIL_BACKEND`

WEBLATE_AUTO_UPDATE
Configures if and how Weblate should update repositories.

??:

AUTO_UPDATE

??: This is a Boolean setting (use `"true"` or `"false"`).

?????

WEBLATE_GET_HELP_URL
GET_HELP_URL ????

WEBLATE_STATUS_URL
STATUS_URL ????

WEBLATE_LEGAL_URL
LEGAL_URL ????

WEBLATE_PRIVACY_URL
Configures *PRIVACY_URL*.

Error reporting

It is recommended to collect errors from the installation systematically, see *??? ????????*.

To enable support for Rollbar, set the following:

ROLLBAR_KEY
Your Rollbar post server access token.

ROLLBAR_ENVIRONMENT
Your Rollbar environment, defaults to `production`.

To enable support for Sentry, set following:

SENTRY_DSN
Your Sentry DSN.

SENTRY_ENVIRONMENT
Your Sentry Environment (optional).

CDN ????

WEBLATE_LOCALIZE_CDN_URL

WEBLATE_LOCALIZE_CDN_PATH
????? 4.2.1 ???.

Configuration for *JavaScript ???? CDN*.

The *WEBLATE_LOCALIZE_CDN_PATH* is path within the container. It should be stored on the persistent volume and not in the transient storage.

One of possibilities is storing that inside the Weblate data dir:

```
environment:
  WEBLATE_LOCALIZE_CDN_URL: https://cdn.example.com/
  WEBLATE_LOCALIZE_CDN_PATH: /app/data/l10n-cdn
```

??: You are responsible for setting up serving of the files generated by Weblate, it only does stores the files in configured location.

??:

weblate-cdn?*LOCALIZE_CDN_URL*?*LOCALIZE_CDN_PATH*

Changing enabled apps, checks, addons or autofixes

□□□□□ 3.8-5 □□□.

The built-in configuration of enabled checks, addons or autofixes can be adjusted by the following variables:

WEBLATE_ADD_APPS

WEBLATE_REMOVE_APPS

WEBLATE_ADD_CHECK

WEBLATE_REMOVE_CHECK

WEBLATE_ADD_AUTOFIX

WEBLATE_REMOVE_AUTOFIX

WEBLATE_ADD_ADDONS

WEBLATE_REMOVE_ADDONS

□:

```
environment:
  WEBLATE_REMOVE_AUTOFIX: weblate.trans.autofixes.whitespace.
↪SameBookendingWhitespace
  WEBLATE_ADD_ADDONS: customize.addons.MyAddon,customize.addons.OtherAddon
```

□□:

CHECK_LIST□*AUTOFIX_LIST*□*WEBLATE_ADDONS*□INSTALLED_APPS

□□□□□□□□

WEBLATE_WORKERS
□□□□□ 4.6.1 □□□.

Base number of worker processes running in the container. When not set it is determined automatically on container startup based on number of CPU cores available.

It is used to determine *CELERY_MAIN_OPTIONS*, *CELERY_NOTIFY_OPTIONS*, *CELERY_MEMORY_OPTIONS*, *CELERY_TRANSLATE_OPTIONS*, *CELERY_BACKUP_OPTIONS*, *CELERY_BEAT_OPTIONS*, and *UWSGI_WORKERS*. You can use these settings to fine-tune.

CELERY_MAIN_OPTIONS

CELERY_NOTIFY_OPTIONS

CELERY_MEMORY_OPTIONS

CELERY_TRANSLATE_OPTIONS

CELERY_BACKUP_OPTIONS

CELERY_BEAT_OPTIONS
These variables allow you to adjust Celery worker options. It can be useful to adjust concurrency (`--concurrency 16`) or use different pool implementation (`--pool=gevent`).

By default, the number of concurrent workers is based on *WEBLATE_WORKERS*.

□:

```
environment:
  CELERY_MAIN_OPTIONS: --concurrency 16
```

□□:

Celery worker options□*Celery* □□□□□□□□□□□□□□ □□□

UWSGI_WORKERS
Configure how many uWSGI workers should be executed.

It defaults to *WEBLATE_WORKERS*.

□:

```
environment:
  UWSGI_WORKERS: 32
```

WEBLATE_SERVICE
Defines which services should be executed inside the container. Use this for *Scaling horizontally*.

□□□□ □ □□□□□□□□□□:
`celery-beat`
Celery task scheduler, only one instance should be running. This container is also responsible for the database structure migrations and it should be started prior others.
`celery-backup`
Celery worker for backups, only one instance should be running.
`celery-celery`
Generic Celery worker.
`celery-memory`
□□□□□ Celery □□□□□
`celery-notify`
□□ Celery □□□□□
`celery-translate`
□□□□ Celery □□□□□
`web`
Web □□□□□

Docker container volumes

There are two volumes (data and cache) exported by the Weblate container. The other service containers (PostgreSQL or Redis) have their data volumes as well, but those are not covered by this document.

The data volume is used to store Weblate persistent data such as cloned repositories or to customize Weblate installation.

The placement of the Docker volume on host system depends on your Docker configuration, but usually it is stored in `/var/lib/docker/volumes/weblate-docker_weblate-data/_data/` (the path consist of name of your docker-compose directory, container, and volume names). In the container it is mounted as `/app/data`.

The cache volume is mounted as `/app/cache` and is used to store static files. Its content is recreated on container startup and the volume can be mounted using ephemeral filesystem such as *tmpfs*.

When creating the volumes manually, the directories should be owned by UID 1000 as that is user used inside the container.

□□:

Docker volumes documentation

Further configuration customization

You can further customize Weblate installation in the data volume, see *Docker container volumes*.

Custom configuration files

You can additionally override the configuration in `/app/data/settings-override.py` (see *Docker container volumes*). This is executed at the end of built-in settings, after all environment settings are loaded, and you can adjust or override them.

Replacing logo and other static files

□□□□□ 3.8-5 □□□.

The static files coming with Weblate can be overridden by placing into `/app/data/python/customize/static` (see *Docker container volumes*). For example creating `/app/data/python/customize/static/favicon.ico` will replace the favicon.

□□□: The files are copied to the corresponding location upon container startup, so a restart of Weblate is needed after changing the content of the volume.

Alternatively you can also include own module (see *Customizing Weblate*) and add it as separate volume to the Docker container, for example:

```
weblate:
  volumes:
    - weblate-data:/app/data
    - ./weblate_customization/weblate_customization:/app/data/python/
↪weblate_customization
  environment:
    WEBLATE_ADD_APPS: weblate_customization
```

Adding own Python modules

□□□□□ 3.8-5 □□□.

You can place own Python modules in `/app/data/python/` (see *Docker container volumes*) and they can be then loaded by Weblate, most likely by using *Custom configuration files*.

□□:

Customizing Weblate

Installing on Debian and Ubuntu

Hardware requirements

Weblate should run on any contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2GB□RAM

2 CPU cores

1 GB of storage space

The more memory the better - it is used for caching on all levels (filesystem, database and Weblate).

Many concurrent users increases the amount of needed CPU cores. For hundreds of translation components at least 4 GB of RAM is recommended.

The typical database storage usage is around 300 MB per 1 million hosted words. Storage space needed for cloned repositories varies, but Weblate tries to keep their size minimal by doing shallow clones.

□□: Actual requirements for your installation of Weblate vary heavily based on the size of the translations managed in it.

□□

System requirements

Install the dependencies needed to build the Python modules (see □□□□□□□□):

```
apt install \
   libxml2-dev libxslt-dev libfreetype6-dev libjpeg-dev libz-dev libyaml-
↪dev \
   libcairo-dev gir1.2-pango-1.0 libgirepository1.0-dev libacl1-dev libssl-
↪dev \
   build-essential python3-gdbm python3-dev python3-pip python3-virtualenv␣
↪virtualenv git
```

Install wanted optional dependencies depending on features you intend to use (see □□□□□□□□□□):

```
apt install tesseract-ocr libtesseract-dev libleptonica-dev
```

Optionally install software for running production server, see □□□□□□, *Weblate* □□□□□□□□□, *Celery* □□□□□□□□□□□□□□□ □□□□. Depending on size of your installation you might want to run these components on dedicated servers.

The local installation instructions:

```
# Web server option 1: NGINX and uWSGI
apt install nginx uwsgi uwsgi-plugin-python3

# Web server option 2: Apache with ``mod_wsgi``
apt install apache2 libapache2-mod-wsgi-py3

# Caching backend: Redis
apt install redis-server

# Database server: PostgreSQL
apt install postgresql postgresql-contrib

# SMTP server
apt install exim4
```

Python modules

???: We're using virtualenv to install Weblate in a separate environment from your system. If you are not familiar with it, check virtualenv User Guide.

1.Create the virtualenv for Weblate:

```
virtualenv --python=python3 ~/weblate-env
```

2.Activate the virtualenv for Weblate:

```
. ~/weblate-env/bin/activate
```

3.Install Weblate including all optional dependencies:

```
pip install "Weblate[all]"
```

Please check *??????????* for fine-tuning of optional dependencies.

Configuring Weblate

??: Following steps assume virtualenv used by Weblate is active (what can be done by `. ~/weblate-env/bin/activate`). In case this is not true, you will have to specify full path to **`weblate`** command as `~/weblate-env/bin/weblate`.

1.Copy the file `~/weblate-env/lib/python3.7/site-packages/weblate/settings_example.py` to `~/weblate-env/lib/python3.7/site-packages/weblate/settings.py`.

2.Adjust the values in the new `settings.py` file to your liking. You will need to provide at least the database credentials and Django secret key, but you will want more changes for production setup, see *????*.

3.Create the database and its structure for Weblate (the example settings use PostgreSQL, check *Weblate ??????????* for production ready setup):

```
weblate migrate
```

4.Create the administrator user account and copy the password it outputs to the clipboard, and also save it for later use:

```
weblate createadmin
```

5.Collect static files for web server (see *???????* and *??????????*):

```
weblate collectstatic
```

6.Compress JavaScript and CSS files (optional, see *??????* *????????*):

```
weblate compress
```

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Celery ?????????????* *???* for more info:

```
~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start
```

8.Start the development server (see [illegible] for production setup):

```
weblate runserver
```

After installation

Congratulations, your Weblate server is now running and you can start using it.

You can now access Weblate on `http://localhost:8000/`.

Login with admin credentials obtained during installation or register with new users.

You can now run Weblate commands using **`weblate`** command when Weblate virtualenv is active, see [illegible].

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on `/manage/performance/` URL (see [illegible]) or using **`weblate check --deploy`**, see [illegible].

Adding translation

1.Open the admin interface (`http://localhost:8000/create/project/`) and create the project you want to translate. See *Project configuration* for more details.

All you need to specify here is the project name and its website.

2.Create a component which is the real object for translation - it points to the VCS repository, and selects which files to translate. See *Component configuration* for more details.

The important fields here are: Component name, VCS repository address and mask for finding translatable files. Weblate supports a wide range of formats including gettext PO files, Android resource strings, iOS string properties, Java properties or Qt Linguist files, see [illegible] for more details.

3.Once the above is completed (it can be lengthy process depending on the size of your VCS repository, and number of messages to translate), you can start translating.

Installing on SUSE and openSUSE

Hardware requirements

Weblate should run on any contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2GB RAM

2 CPU cores

1 GB of storage space

The more memory the better - it is used for caching on all levels (filesystem, database and Weblate).

Many concurrent users increases the amount of needed CPU cores. For hundreds of translation components at least 4 GB of RAM is recommended.

The typical database storage usage is around 300 MB per 1 million hosted words. Storage space needed for cloned repositories varies, but Weblate tries to keep their size minimal by doing shallow clones.

: Actual requirements for your installation of Weblate vary heavily based on the size of the translations managed in it.

??

System requirements

Install the dependencies needed to build the Python modules (see ????????):

```
zypper install \
   libxslt-devel libxml2-devel freetype-devel libjpeg-devel zlib-devel␣
↪libyaml-devel \
   cairo-devel typelib-1_0-Pango-1_0 gobject-introspection-devel libacl-
↪devel \
   python3-pip python3-virtualenv python3-devel git
```

Install wanted optional dependencies depending on features you intend to use (see ??????????):

```
zypper install tesseract-ocr tesseract-devel leptonica-devel
```

Optionally install software for running production server, see ??????, *Weblate* ????????, *Celery* ?????????????? ???. Depending on size of your installation you might want to run these components on dedicated servers.

The local installation instructions:

```
# Web server option 1: NGINX and uWSGI
zypper install nginx uwsgi uwsgi-plugin-python3

# Web server option 2: Apache with ``mod_wsgi``
zypper install apache2 apache2-mod_wsgi

# Caching backend: Redis
zypper install redis-server

# Database server: PostgreSQL
zypper install postgresql postgresql-contrib

# SMTP server
zypper install postfix
```

Python modules

???: We're using virtualenv to install Weblate in a separate environment from your system. If you are not familiar with it, check virtualenv User Guide.

1.Create the virtualenv for Weblate:

```
virtualenv --python=python3 ~/weblate-env
```

2.Activate the virtualenv for Weblate:

```
. ~/weblate-env/bin/activate
```

3.Install Weblate including all optional dependencies:

```
pip install "Weblate[all]"
```

Please check ?????????? for fine-tuning of optional dependencies.

Configuring Weblate

??: Following steps assume virtualenv used by Weblate is active (what can be done by `. ~/weblate-env/bin/activate`). In case this is not true, you will have to specify full path to **`weblate`** command as `~/weblate-env/bin/weblate`.

1. Copy the file `~/weblate-env/lib/python3.7/site-packages/weblate/settings_example.py` to `~/weblate-env/lib/python3.7/site-packages/weblate/settings.py`.
2. Adjust the values in the new `settings.py` file to your liking. You will need to provide at least the database credentials and Django secret key, but you will want more changes for production setup, see ????.
3. Create the database and its structure for Weblate (the example settings use PostgreSQL, check *Weblate* ????????? for production ready setup):

```
weblate migrate
```

4. Create the administrator user account and copy the password it outputs to the clipboard, and also save it for later use:

```
weblate createadmin
```

5. Collect static files for web server (see ??????? and ?????????):

```
weblate collectstatic
```

6. Compress JavaScript and CSS files (optional, see ?????? ???????):

```
weblate compress
```

7. Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Celery* ???????????? ??? for more info:

```
~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start
```

8. Start the development server (see ??????? for production setup):

```
weblate runserver
```

After installation

Congratulations, your Weblate server is now running and you can start using it.

You can now access Weblate on `http://localhost:8000/`.

Login with admin credentials obtained during installation or register with new users.

You can now run Weblate commands using **`weblate`** command when Weblate virtualenv is active, see ??????.

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on `/manage/performance/` URL (see ????) or using **`weblate check --deploy`**, see ????????.

Adding translation

1. Open the admin interface (`http://localhost:8000/create/project/`) and create the project you want to translate. See *Project configuration* for more details.

   All you need to specify here is the project name and its website.

2. Create a component which is the real object for translation - it points to the VCS repository, and selects which files to translate. See *Component configuration* for more details.

   The important fields here are: Component name, VCS repository address and mask for finding translatable files. Weblate supports a wide range of formats including gettext PO files, Android resource strings, iOS string properties, Java properties or Qt Linguist files, see ????????????? for more details.

3. Once the above is completed (it can be lengthy process depending on the size of your VCS repository, and number of messages to translate), you can start translating.

Installing on RedHat, Fedora and CentOS

Hardware requirements

Weblate should run on any contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2GB RAM

2 CPU cores

1 GB of storage space

The more memory the better - it is used for caching on all levels (filesystem, database and Weblate).

Many concurrent users increases the amount of needed CPU cores. For hundreds of translation components at least 4 GB of RAM is recommended.

The typical database storage usage is around 300 MB per 1 million hosted words. Storage space needed for cloned repositories varies, but Weblate tries to keep their size minimal by doing shallow clones.

: Actual requirements for your installation of Weblate vary heavily based on the size of the translations managed in it.

System requirements

Install the dependencies needed to build the Python modules (see):

```
dnf install \
   libxslt-devel libxml2-devel freetype-devel libjpeg-devel zlib-devel␣
↪libyaml-devel \
   cairo-devel pango-devel gobject-introspection-devel libacl-devel \
   python3-pip python3-virtualenv python3-devel git
```

Install wanted optional dependencies depending on features you intend to use (see):

```
dnf install tesseract-langpack-eng tesseract-devel leptonica-devel
```

Optionally install software for running production server, see , *Weblate* , *Celery* . Depending on size of your installation you might want to run these components on dedicated servers.

The local installation instructions:

```
# Web server option 1: NGINX and uWSGI
dnf install nginx uwsgi uwsgi-plugin-python3

# Web server option 2: Apache with ``mod_wsgi``
dnf install apache2 apache2-mod_wsgi

# Caching backend: Redis
dnf install redis

# Database server: PostgreSQL
dnf install postgresql postgresql-contrib

# SMTP server
dnf install postfix
```

Python modules

???: We're using virtualenv to install Weblate in a separate environment from your system. If you are not familiar with it, check virtualenv User Guide.

1.Create the virtualenv for Weblate:

```
virtualenv --python=python3 ~/weblate-env
```

2.Activate the virtualenv for Weblate:

```
. ~/weblate-env/bin/activate
```

3.Install Weblate including all optional dependencies:

```
pip install "Weblate[all]"
```

Please check ?????????? for fine-tuning of optional dependencies.

Configuring Weblate

??: Following steps assume virtualenv used by Weblate is active (what can be done by `. ~/weblate-env/bin/activate`). In case this is not true, you will have to specify full path to **`weblate`** command as `~/weblate-env/bin/weblate`.

1.Copy the file `~/weblate-env/lib/python3.7/site-packages/weblate/settings_example.py` to `~/weblate-env/lib/python3.7/site-packages/weblate/settings.py`.

2.Adjust the values in the new `settings.py` file to your liking. You will need to provide at least the database credentials and Django secret key, but you will want more changes for production setup, see ????.

3.Create the database and its structure for Weblate (the example settings use PostgreSQL, check *Weblate* ?????????? for production ready setup):

```
weblate migrate
```

4.Create the administrator user account and copy the password it outputs to the clipboard, and also save it for later use:

```
weblate createadmin
```

5.Collect static files for web server (see ??????? and ??????????):

```
weblate collectstatic
```

6.Compress JavaScript and CSS files (optional, see ??????? ????????):

```
weblate compress
```

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Celery* ????????????? ??? for more info:

```
~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start
```

8.Start the development server (see ??????? for production setup):

```
weblate runserver
```

After installation

Congratulations, your Weblate server is now running and you can start using it.

You can now access Weblate on `http://localhost:8000/`.

Login with admin credentials obtained during installation or register with new users.

You can now run Weblate commands using **`weblate`** command when Weblate virtualenv is active, see ??????.

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on `/manage/performance/` URL (see ????) or using **`weblate check --deploy`**, see ????????.

Adding translation

1. Open the admin interface (`http://localhost:8000/create/project/`) and create the project you want to translate. See *Project configuration* for more details.

   All you need to specify here is the project name and its website.

2. Create a component which is the real object for translation - it points to the VCS repository, and selects which files to translate. See *Component configuration* for more details.

   The important fields here are: Component name, VCS repository address and mask for finding translatable files. Weblate supports a wide range of formats including gettext PO files, Android resource strings, iOS string properties, Java properties or Qt Linguist files, see ?????????? for more details.

3. Once the above is completed (it can be lengthy process depending on the size of your VCS repository, and number of messages to translate), you can start translating.

Installing on macOS

Hardware requirements

Weblate should run on any contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2GB?RAM

2 CPU cores

1 GB of storage space

The more memory the better - it is used for caching on all levels (filesystem, database and Weblate).

Many concurrent users increases the amount of needed CPU cores. For hundreds of translation components at least 4 GB of RAM is recommended.

The typical database storage usage is around 300 MB per 1 million hosted words. Storage space needed for cloned repositories varies, but Weblate tries to keep their size minimal by doing shallow clones.

??: Actual requirements for your installation of Weblate vary heavily based on the size of the translations managed in it.

??

System requirements

Install the dependencies needed to build the Python modules (see ????????):

```
brew install python pango cairo gobject-introspection libffi glib libyaml
pip3 install virtualenv
```

Make sure pip will be able to find the `libffi` version provided by homebrew — this will be needed during the installation build step.

```
export PKG_CONFIG_PATH="/usr/local/opt/libffi/lib/pkgconfig"
```

Install wanted optional dependencies depending on features you intend to use (see ??????????):

```
brew install tesseract
```

Optionally install software for running production server, see [illegible], *Weblate* [illegible], *Celery* [illegible]. Depending on size of your installation you might want to run these components on dedicated servers.

The local installation instructions:

```
# Web server option 1: NGINX and uWSGI
brew install nginx uwsgi

# Web server option 2: Apache with ``mod_wsgi``
brew install httpd

# Caching backend: Redis
brew install redis

# Database server: PostgreSQL
brew install postgresql
```

Python modules

[illegible]: We're using virtualenv to install Weblate in a separate environment from your system. If you are not familiar with it, check virtualenv User Guide.

1.Create the virtualenv for Weblate:

```
virtualenv --python=python3 ~/weblate-env
```

2.Activate the virtualenv for Weblate:

```
. ~/weblate-env/bin/activate
```

3.Install Weblate including all optional dependencies:

```
pip install "Weblate[all]"
```

Please check [illegible] for fine-tuning of optional dependencies.

Configuring Weblate

[illegible]: Following steps assume virtualenv used by Weblate is active (what can be done by `. ~/weblate-env/bin/activate`). In case this is not true, you will have to specify full path to **`weblate`** command as `~/weblate-env/bin/weblate`.

1.Copy the file `~/weblate-env/lib/python3.7/site-packages/weblate/settings_example.py` to `~/weblate-env/lib/python3.7/site-packages/weblate/settings.py`.

2.Adjust the values in the new `settings.py` file to your liking. You will need to provide at least the database credentials and Django secret key, but you will want more changes for production setup, see [illegible].

3.Create the database and its structure for Weblate (the example settings use PostgreSQL, check *Weblate* [illegible] for production ready setup):

```
weblate migrate
```

4.Create the administrator user account and copy the password it outputs to the clipboard, and also save it for later use:

```
weblate createadmin
```

5.Collect static files for web server (see [illegible] and [illegible]):

```
weblate collectstatic
```

6.Compress JavaScript and CSS files (optional, see [illegible]):

```
weblate compress
```

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Celery* [illegible] for more info:

```
~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start
```

8.Start the development server (see [illegible] for production setup):

```
weblate runserver
```

After installation

Congratulations, your Weblate server is now running and you can start using it.

You can now access Weblate on `http://localhost:8000/`.

Login with admin credentials obtained during installation or register with new users.

You can now run Weblate commands using **`weblate`** command when Weblate virtualenv is active, see [illegible].

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on `/manage/performance/` URL (see [illegible]) or using **`weblate check --deploy`**, see [illegible].

Adding translation

1.Open the admin interface (`http://localhost:8000/create/project/`) and create the project you want to translate. See *Project configuration* for more details.

All you need to specify here is the project name and its website.

2.Create a component which is the real object for translation - it points to the VCS repository, and selects which files to translate. See *Component configuration* for more details.

The important fields here are: Component name, VCS repository address and mask for finding translatable files. Weblate supports a wide range of formats including gettext PO files, Android resource strings, iOS string properties, Java properties or Qt Linguist files, see [illegible] for more details.

3.Once the above is completed (it can be lengthy process depending on the size of your VCS repository, and number of messages to translate), you can start translating.

[illegible]

1.[illegible]:

Installing on Debian and Ubuntu

Installing on SUSE and openSUSE

Installing on RedHat, Fedora and CentOS

2.Git [illegible] Weblate [illegible] tarball [illegible]:

```
git clone https://github.com/WeblateOrg/weblate.git weblate-src
```

[illegible]Web [illegible] <https://weblate.org/> [illegible] [illegible]

3.[illegible] Weblate [illegible] virtualenv [illegible]:

```
. ~/weblate-env/bin/activate
pip install -e weblate-src
```

4.`weblate/settings_example.py` [illegible] `weblate/settings.py` [illegible]

5.Adjust the values in the new `settings.py` file to your liking. You will need to provide at least the database credentials and Django secret key, but you will want more changes for production setup, see [illegible].

6.Weblate [illegible]: *Weblate* [illegible]

7.Django [illegible]: [illegible] [illegible] [illegible]:

```
weblate migrate
weblate collectstatic
weblate compress
weblate compilemessages
```

??: ??????????????????????????????????????

Installing on OpenShift

With the OpenShift Weblate template you can get your personal Weblate instance up and running in seconds. All of Weblate's dependencies are already included. PostgreSQL is set up as the default database and persistent volume claims are used.

You can find the template at <https://github.com/WeblateOrg/openshift/>.

??

The following examples assume you have a working OpenShift v3.x environment, with `oc` client tool installed. Please check the OpenShift documentation for instructions.

The `template.yml` is suited for running all components in OpenShift. There is also `template-external-postgresql.yml` which does not start a PostgreSQL server and allows you to configure external PostgreSQL server.

Web Console

Copy the raw content from template.yml and import them into your project, then use the `Create` button in the OpenShift web console to create your application. The web console will prompt you for the values for all of the parameters used by the template.

CLI

To upload the Weblate template to your current project's template library, pass the `template.yml` file with the following command:

```
$ oc create -f https://raw.githubusercontent.com/WeblateOrg/openshift/main/
↪template.yml \
   -n <PROJECT>
```

The template is now available for selection using the web console or the CLI.

?????

The parameters that you can override are listed in the parameters section of the template. You can list them with the CLI by using the following command and specifying the file to be used:

```
$ oc process --parameters -f https://raw.githubusercontent.com/WeblateOrg/
↪openshift/main/template.yml

# If the template is already uploaded
$ oc process --parameters -n <PROJECT> weblate
```

????????

You can also use the CLI to process templates and use the configuration that is generated to create objects immediately.

```
$ oc process -f https://raw.githubusercontent.com/WeblateOrg/openshift/
↪main/template.yml \
    -p APPLICATION_NAME=weblate \
    -p WEBLATE_VERSION=4.3.1-1 \
    -p WEBLATE_SITE_DOMAIN=weblate.app-openshift.example.com \
    -p POSTGRESQL_IMAGE=docker-registry.default.svc:5000/openshift/
↪postgresql:9.6 \
    -p REDIS_IMAGE=docker-registry.default.svc:5000/openshift/redis:3.2 \
    | oc create -f
```

The Weblate instance should be available after successful migration and deployment at the specified `WEBLATE_SITE_DOMAIN` parameter.

After container setup, you can sign in as *admin* user with password provided in `WEBLATE_ADMIN_PASSWORD`, or a random password generated on first start if that was not set.

To reset *admin* password, restart the container with `WEBLATE_ADMIN_PASSWORD` set to new password in the respective `Secret`.

????

```
$ oc delete all -l app=<APPLICATION_NAME>
$ oc delete configmap -l app= <APPLICATION_NAME>
$ oc delete secret -l app=<APPLICATION_NAME>
# ATTTENTION! The following command is only optional and will permanently␣
↪delete all of your data.
$ oc delete pvc -l app=<APPLICATION_NAME>

$ oc delete all -l app=weblate \
    && oc delete secret -l app=weblate \
    && oc delete configmap -l app=weblate \
    && oc delete pvc -l app=weblate
```

??

By processing the template a respective `ConfigMap` will be created and which can be used to customize the Weblate image. The `ConfigMap` is directly mounted as environment variables and triggers a new deployment every time it is changed. For further configuration options, see *Docker environment variables* for full list of environment variables.

Installing on Kubernetes

??: This guide is looking for contributors experienced with Kubernetes to cover the setup in more details.

With the Kubernetes Helm chart you can get your personal Weblate instance up and running in seconds. All of Weblate's dependencies are already included. PostgreSQL is set up as the default database and persistent volume claims are used.

You can find the chart at <https://github.com/WeblateOrg/helm/> and it can be displayed at <https://artifacthub.io/packages/helm/weblate/weblate>.

[illegible]

```
helm repo add weblate https://helm.weblate.org
helm install my-release weblate/weblate
```

[illegible]

For further configuration options, see *Docker environment variables* for full list of environment variables.

[illegible]:

Docker [illegible][illegible]

Virtualenv [illegible]:

Installing on Debian and Ubuntu

Installing on SUSE and openSUSE

Installing on RedHat, Fedora and CentOS

Installing on macOS

[illegible][illegible]

Installing on OpenShift

Installing on Kubernetes

[illegible]

[illegible] [illegible]

Weblate [illegible]Linux[illegible]FreeBSD[illegible]macOS[illegible] Unix [illegible]

Weblate [illegible] Windows [illegible]

[illegible]

Weblate [illegible]:

PostgreSQL [illegible] [illegible]: *Weblate [illegible]*[illegible]

[illegible] [illegible] Redis [illegible]: *Celery [illegible] [illegible]*

[illegible] SMTP [illegible]: *[illegible]*

Python [illegible]

Weblate[illegible]Python [illegible]Python 3.6 [illegible] pip [illegible]
`requirements.txt` [illegible]

[illegible]:

https://www.djangoproject.com/

https://docs.celeryproject.org/

https://toolkit.translatehouse.org/

https://github.com/WeblateOrg/translation-finder

https://python-social-auth.readthedocs.io/

https://www.django-rest-framework.org/

[illegible]

Weblate [illegible] [illegible]requirements-optional.txt [illegible]

https://www.mercurial-scm.org/

https://github.com/viraptor/phply

https://github.com/sirfz/tesserocr

https://github.com/Nekmo/python-akismet

https://pypi.org/project/ruamel.yaml/

https://docs.python-zeep.org/

https://pypi.org/project/aeidon/

https://projectfluent.org/

[illegible]: When installing using pip, you can directly specify desired features when installing:

```
pip install "Weblate[PHP,Fluent]"
```

Or you can install Weblate will all optional features:

```
pip install "Weblate[all]"
```

Or you can install Weblate without any optional features:

```
pip install Weblate
```

[illegible]

Weblate [illegible]PostgreSQL[illegible]MySQL [illegible] MariaDB [illegible] *Weblate* [illegible]

[illegible]

[illegible]:

https://git-scm.com/

https://cairographics.org/[illegible]https://pango.gnome.org/[illegible]: *Pango* [illegible] *Cairo*

https://pypi.org/project/git-review/

https://git-scm.com/docs/git-svn

https://github.com/tesseract-ocr/tesseract

https://github.com/licensee/licensee

[illegible]

Python [illegible] [illegible] pip [illegible] Wheels [illegible]

Pango □ Cairo

□□□□□ 3.7 □□□.

Weblate□□□□□□□□ □□□□□□□□□□□□□: promotion□□□□□□□□□□□□□□□: *□□□□□□□□□□* Pango □ Cairo □□□□□□□□□□□□ Python □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□Cairo □ Pango □□□□□□□□□□□□ GLib □□□□□□□□□□□□□□□□□□□□□□□□ GObject □□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□

Weblate □□□Michal Čihař □□□□□ PGP □□□□:

```
63CB 1DF1 EF12 CF2A C0EE 5A32 9C27 B313 42B7 511D
```

□□□□<https://keybase.io/nijel> □□□□□□□□□□□□□□□□□□□□□

□□

□□□□□□□□□□PGP □□□□□ `.asc` □□□

```
$ gpg --verify Weblate-3.5.tar.xz.asc
gpg: assuming signed data in 'Weblate-3.5.tar.xz'
gpg: Signature made Ne 3. března 2019, 16:43:15 CET
gpg:                using RSA key 87E673AF83F6C3A0C344C8C3F4AA229D4D58C245
gpg: Can't check signature: public key not found
```

□□□□□□□GPG □□:

wkd □□□□□□□□□□□□□□□□□□□:

```
$ gpg --auto-key-locate wkd --locate-keys michal@cihar.com
pub   rsa4096 2009-06-17 [SC]
      63CB1DF1EF12CF2AC0EE5A329C27B31342B7511D
uid           [ultimate] Michal Čihař <michal@cihar.com>
uid           [ultimate] Michal Čihař <nijel@debian.org>
uid           [ultimate] [jpeg image of size 8848]
uid           [ultimate] Michal Čihař (Braiins) <michal.cihar@braiins.cz>
sub   rsa4096 2009-06-17 [E]
sub   rsa4096 2015-09-09 [S]
```

Michal □□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□:

```
$ gpg --import wmxth3chu9jfxdxywj1skpmhsj311mzm
```

□□□□□□ 1 □□□□□□□□□□□□□□□□□□□□□□□□□□□:

```
$ gpg --keyserver hkp://pgp.mit.edu --recv-keys␣
↪87E673AF83F6C3A0C344C8C3F4AA229D4D58C245
gpg: key 9C27B31342B7511D: "Michal Čihař <michal@cihar.com>" imported
gpg: Total number processed: 1
gpg:              unchanged: 1
```

□□□□□□□□□□□□□□□□ - □□□:

```
$ gpg --verify Weblate-3.5.tar.xz.asc
gpg: assuming signed data in 'Weblate-3.5.tar.xz'
gpg: Signature made Ne 3. března 2019, 16:43:15 CET
gpg:                using RSA key 87E673AF83F6C3A0C344C8C3F4AA229D4D58C245
gpg: Good signature from "Michal Čihař <michal@cihar.com>" [ultimate]
gpg:                 aka "Michal Čihař <nijel@debian.org>" [ultimate]
gpg:                 aka "[jpeg image of size 8848]" [ultimate]
gpg:                 aka "Michal Čihař (Braiins) <michal.cihar@braiins.cz>
↪" [ultimate]
gpg: WARNING: This key is not certified with a trusted signature!
gpg:          There is no indication that the signature belongs to the␣
↪owner.
Primary key fingerprint: 63CB 1DF1 EF12 CF2A C0EE  5A32 9C27 B313 42B7 511D
```

□□
GNU □□□□□□ □□□□□□□□□□Validating other keys on your public keyring

[illegible] WEB [illegible]

[illegible]:

```
$ gpg --verify Weblate-3.5.tar.xz.asc
gpg: assuming signed data in 'Weblate-3.5.tar.xz'
gpg: Signature made Sun Mar  3 16:43:15 2019 CET
gpg:                using RSA key 87E673AF83F6C3A0C344C8C3F4AA229D4D58C245
gpg: Good signature from "Michal Čihař <michal@cihar.com>" [ultimate]
gpg:                 aka "Michal Čihař <nijel@debian.org>" [ultimate]
gpg:                 aka "[jpeg image of size 8848]" [ultimate]
gpg:                 aka "Michal Čihař (Braiins) <michal.cihar@braiins.cz>
↪" [ultimate]
```

[illegible]:

```
$ gpg --verify Weblate-3.5.tar.xz.asc
gpg: Signature made Sun Mar  3 16:43:15 2019 CET
gpg:                using RSA key 87E673AF83F6C3A0C344C8C3F4AA229D4D58C245
gpg: BAD signature from "Michal Čihař <michal@cihar.com>" [ultimate]
```

[illegible] [illegible]

Weblate [illegible] (`DATA_DIR`) [illegible] Weblat [illegible] WSGI [illegible] Celery[illegible]: *[illegible]* [illegible] *Celery* *[illegible]*

[illegible] Weblate [illegible]: `/var/lib/weblate`[illegible]

Weblate [illegible]

[illegible] *[illegible]* [illegible]Weblate [illegible]

Docker [illegible]`/app/data` [illegible] weblate [illegible]UID 1000[illegible]

[illegible]:

[illegible]

Weblate [illegible]

PostgreSQL [illegible] [illegible] Weblate [illegible]

[illegible]:

[illegible] [illegible][illegible]*Migrating from other databases to PostgreSQL*

PostgreSQL

[illegible]PostgreSQL [illegible] Django [illegible]Django [illegible]

[illegible]: Weblate [illegible]`postgresql-contrib` [illegible]

[illegible]:

PostgreSQL notes

PostgreSQL [illegible]

[illegible] Weblate [illegible] [illegible]:

```
# If PostgreSQL was not installed before, set the main password
sudo -u postgres psql postgres -c "\password postgres"

# Create a database user called "weblate"
sudo -u postgres createuser --superuser --pwprompt weblate

# Create the database "weblate" owned by "weblate"
sudo -u postgres createdb -E UTF8 -O weblate weblate
```

[illegible]: Weblate [illegible] PostgreSQL [illegible]Weblate [illegible] PostgreSQL [illegible]:

```
CREATE EXTENSION IF NOT EXISTS pg_trgm WITH SCHEMA weblate;
```

PostgreSQL [illegible] Webrate [illegible]

`settings.py` PostgreSQL [illegible]:

```
DATABASES = {
    "default": {
        # Database engine
        "ENGINE": "django.db.backends.postgresql",
        # Database name
        "NAME": "weblate",
        # Database user
        "USER": "weblate",
        # Name of role to alter to set parameters in PostgreSQL,
        # use in case role name is different than user used for␣
↪authentication.
        # "ALTER_ROLE": "weblate",
        # Database password
        "PASSWORD": "password",
        # Set to empty string for localhost
        "HOST": "database.example.com",
        # Set to empty string for default
        "PORT": "",
    }
}
```

[illegible]Weblate [illegible] [illegible] ALTER ROLE [illegible] username [illegible]`psycopg2.errors.UndefinedObject: role "weblate@hostname" does not exist`[illegible] Azure Database for PostgreSQL [illegible] Weblate [illegible]`ALTER_ROLE` [illegible]

MySQL [illegible] MariaDB

[illegible]: Weblate [illegible]*PostgreSQL* [illegible]

Weblate [illegible] MySQL [illegible] MariaDB [illegible]Django [illegible]MySQL notes [illegible] MariaDB notes [illegible] *PostgreSQL* [illegible]

Weblate [illegible]MySQL 5.7.8 [illegible] MariaDB 10.2.7 [illegible]

Weblate [illegible]:

`utf8mb4` [illegible] Unicode [illegible]

[illegible] [illegible]`innodb_large_prefix` [illegible]

[illegible] `READ COMMITTED` [illegible]

SQL □□□□ STRICT_TRANS_TABLES □□□□□□□

MySQL 8.x, MariaDB 10.5.x or newer have reasonable default configuration so that no server tweaking should be necessary and all what is needed can be configured on the client side.

□□□□8 GB □ RAM □□□□□□□□□□□ /etc/my.cnf.d/server.cnf □□□□□□□□□□□□□□□□□□□□□□□□□□MySQL □ MariaDB □□

Weblate □□□□□□□□□□□□□□ MySQL/MariaDB □□□□□□□□□□□innodb_file_per_table □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
[mysqld]
character-set-server = utf8mb4
character-set-client = utf8mb4
collation-server = utf8mb4_unicode_ci

datadir=/var/lib/mysql

log-error=/var/log/mariadb/mariadb.log

innodb_large_prefix=1
innodb_file_format=Barracuda
innodb_file_per_table=1
innodb_buffer_pool_size=2G
sql_mode=STRICT_TRANS_TABLES
```

□□□: #1071 - Specified key was too long; max key length is 767 bytes □□□□□□□□□□□□□□□□□□□□ innodb □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□: In case you are getting #2006 - MySQL server has gone away error, configuring CONN_MAX_AGE might help.

MySQL/MariaDB □□□□□□□□□ Weblate □□□

settings.py MySQL □ MariaDB □□□□□□□:

```
DATABASES = {
    "default": {
        # Database engine
        "ENGINE": "django.db.backends.mysql",
        # Database name
        "NAME": "weblate",
        # Database user
        "USER": "weblate",
        # Database password
        "PASSWORD": "password",
        # Set to empty string for localhost
        "HOST": "127.0.0.1",
        # Set to empty string for default
        "PORT": "3306",
        # In case you wish to use additional
        # connection options
        "OPTIONS": {},
    }
}
```

□□□□□□□□□□□□□□MySQL □□□ MariaDB □ weblate □□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□:

```
GRANT ALL ON weblate.* to 'weblate'@'localhost' IDENTIFIED BY 'password';
FLUSH PRIVILEGES;
```

??????

?????????

Weblate ?????????????????????? - ??????????????????????????????????????SMTP ???????????????

??? ??????????????????????????????: EMAIL_HOST?EMAIL_HOST_PASSWORD?EMAIL_USE_TLS?EMAIL_USE_SSL
??? EMAIL_PORT? ?????????????????? Django ???????????????

???: ??????????????????????????????: SMTP AUTH extension not supported by server???EMAIL_USE_TLS
???????????????

??:

Not receiving e-mails from Weblate?Configuring outgoing e-mail in Docker container

???? ???????????

Weblate ????????????????? IP ????????????????????????????????*??????*Spam protection ??? *?????* ????????

???????????WEBlate ? WSGI ????????????????? REMOTE_ADDR ?? IP ???????????

???? ?? HTTP ????????????????
IP ????????????? Webrate ?????????????????? ?????????????????????? IP
??*IP_BEHIND_REVERSE_PROXY*
????????????????????????*IP_PROXY_HEADER* ??? *IP_PROXY_OFFSET* ???????????????

??:

Spam protection?*??????*?*??????*?*IP_BEHIND_REVERSE_PROXY*?*IP_PROXY_HEADER*?*IP_PROXY_OFFSET*?SECURE_PRO

HTTP ????

Weblate ? VCS ??? settings.py:

```
import os

os.environ["http_proxy"] = "http://proxy.example.com:8080"
os.environ["HTTPS_PROXY"] = "http://proxy.example.com:8080"
```

??:

Proxy Environment Variables

????

??:

???

weblate/settings_example.py ? weblate/settings.py ??:
ADMINS

???????? Django ????????????????????????????????????

??:

ADMINS, *??????????*

ALLOWED_HOSTS

??:

```
ALLOWED_HOSTS = ["demo.weblate.org"]
```

????????????????????:

```
ALLOWED_HOSTS = ["*"]
```

[illegible]:

ALLOWED_HOSTS[illegible]*WEBLATE_ALLOWED_HOSTS*[illegible]

SESSION_ENGINE

[illegible]: **weblate clearsessions** [illegible]

Redis [illegible]: *[illegible]* [illegible] Redis [illegible]:

```
SESSION_ENGINE = "django.contrib.sessions.backends.cache"
```

[illegible]:

[illegible]SESSION_ENGINE

DATABASES

[illegible]Django [illegible]

[illegible]:

*Weblate [illegible]*DATABASES[illegible]

DEBUG

[illegible]Django [illegible] ADMINS [illegible]

[illegible]Django [illegible]Weblate [illegible]

[illegible]:

DEBUG, *[illegible]*

DEFAULT_FROM_EMAIL

[illegible]: [illegible]

[illegible]:

DEFAULT_FROM_EMAIL

SECRET_KEY

Django [illegible] Cookie [illegible]*Django [illegible]* [illegible]

[illegible]:

SECRET_KEY

SERVER_EMAIL

[illegible]: [illegible]

[illegible]:

SERVER_EMAIL

[illegible]

[illegible]weblate migrate [illegible]

[illegible]weblate migrate --noinput [illegible]*createadmin* [illegible] admin [illegible]

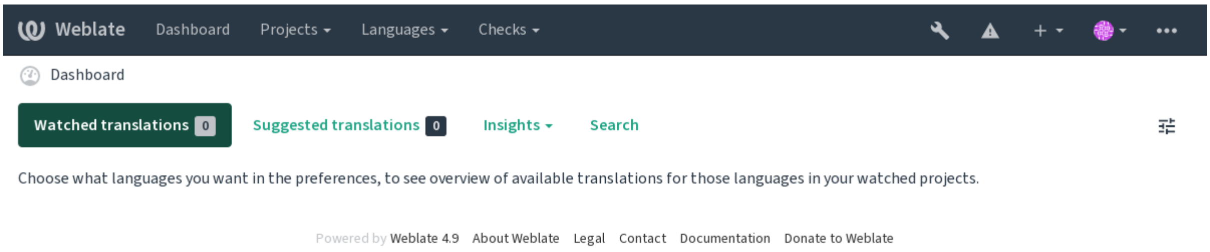
[illegible] *Performance report* [illegible]

[illegible]:

[illegible], *[illegible]*

[illegible]

[illegible]:



[illegible]Django [illegible]:

```
weblate check --deploy
```

[illegible] [illegible]

[illegible]:

[illegible]

[illegible] [illegible]

Django [illegible] [illegible] *DEBUG*[illegible]:

```
DEBUG = False
```

[illegible] [illegible]Django [illegible] [illegible]

[illegible]:

[illegible]

[illegible]

[illegible] *ADMINS* [illegible]:

```
ADMINS = (("Your Name", "your_email@example.com"),)
```

[illegible]:

[illegible]

[illegible]

[illegible]RSS [illegible] *SITE_DOMAIN* [illegible]

[illegible] 4.2 [illegible]: 4.2 [illegible] Django sites [illegible]: The "sites" framework[illegible]

[illegible]:

[illegible]HTTPS [illegible][illegible]*SITE_DOMAIN*[illegible]*WEBLATE_SITE_DOMAIN*[illegible]*ENABLE_HTTPS*

HTTPS ??????????

??????? HTTPS ?????????? Webrate ?????????????????????? *ENABLE_HTTPS* ???????:

```
ENABLE_HTTPS = True
```

???: HSTS ??????????????????SSL/HTTPS ??????????

??:

ENABLE_HTTPS?????????????????????

SECURE_HSTS_SECONDS ???????

???? SSL ??????????HTTP Strict Transport Security ??????????`settings.py` ?? SECURE_HSTS_SECONDS ?????????????????????????????? 0 ??????????

```
SECURE_HSTS_SECONDS = 0
```

??????????????`django.middleware.security.SecurityMiddleware` ??HTTP Strict Transport Security ??????????????????????????

> **??:** ??? HTTP Strict Transport Security ???????????????

?????????? ????????

??????? PostgreSQL ????????????????*Weblate* *??????????* ??????????

Use adjacent location for running the database server, otherwise the networking performance or reliability might ruin your Weblate experience.

Check the database server performance or tweak its configuration, for example using PGTune.

??:

Weblate *????????????Migrating from other databases to PostgreSQL*?*????*, *???????*

??????????

???????????? `CACHES` ?????? Django ? Redis ????????????:

```
CACHES = {
    "default": {
        "BACKEND": "django_redis.cache.RedisCache",
        "LOCATION": "redis://127.0.0.1:6379/0",
        # If redis is running on same host as Weblate, you might
        # want to use unix sockets instead:
        # 'LOCATION': 'unix:///var/run/redis/redis.sock?db=0',
        "OPTIONS": {
            "CLIENT_CLASS": "django_redis.client.DefaultClient",
            "PARSER_CLASS": "redis.connection.HiredisParser",
        },
    }
}
```

???: ??????? Redis ????????????Celery ????????????????: *Celery* *????????????* *????*

??:

*????????????*Django's cache framework

??????????

Django ??????????Weblate ?????????????????????? ?????? ??????????????????:

```
CACHES = {
    "default": {
        # Default caching backend setup, see above
        "BACKEND": "django_redis.cache.RedisCache",
        "LOCATION": "unix:///var/run/redis/redis.sock?db=0",
        "OPTIONS": {
            "CLIENT_CLASS": "django_redis.client.DefaultClient",
            "PARSER_CLASS": "redis.connection.HiredisParser",
        },
    },
    "avatar": {
        "BACKEND": "django.core.cache.backends.filebased.FileBasedCache",
        "LOCATION": os.path.join(DATA_DIR, "avatar-cache"),
        "TIMEOUT": 604800,
        "OPTIONS": {
            "MAX_ENTRIES": 1000,
        },
    },
}
```

??:

ENABLE_AVATARS?*AVATAR_URL_PREFIX*?*Avatars*??????????Django's cache framework

????????

Weblate ?? *SERVER_EMAIL* ??? *DEFAULT_FROM_EMAIL* ??????????????:

```
SERVER_EMAIL = "admin@example.org"
DEFAULT_FROM_EMAIL = "weblate@example.org"
```

??: Weblate ??????????????????EMAIL_BACKEND ? `django.core.mail.backends.dummy.EmailBackend` ????????

????????????? ???????? *????* ?????????????????

??:

*??????????????*EMAIL_BACKEND?DEFAULT_FROM_EMAIL?SERVER_EMAIL

??????????

Django ??? *ALLOWED_HOSTS* ????????????????????????????????????

HTTP ??Invalid HTTP_HOST header: '1.1.1.1'. You may need to add '1.1.1.1' to ALLOWED_HOSTS.

???: Docker ????????*WEBLATE_ALLOWED_HOSTS* ??????????

??:

ALLOWED_HOSTS?*WEBLATE_ALLOWED_HOSTS*?*????????????*

Django □□□□

SECRET_KEY □□□□Django □ cookie □□ □□□□□□□□□□□□Weblate □□□ `weblate/examples/generate-secret-key` □□□□□□□□

□□:

SECRET_KEY

□□□ □□□□□□

□□□□□ 2.1 □□□: □□□□□□□□□□□□Weblate □□□□□□□□□□□ *DATA_DIR* □□□□□□□□

Weblate □□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ SSH □□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□Git □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Git □□□□□□□□□□□

Weblate □□□□□□□□□□□□□□□ `settings.py` □□□□□□□□□Weblate □□□ `configuration` □□□□□□□□□□□□□□

```
os.environ["HOME"] = os.path.join(BASE_DIR, "configuration")
```

□□: Linux □□□□□□□□□ UNIX □□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□ `/etc/passwd` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□WEB □□□□□□□□□□□□□□□□□□□`apache`□`www-data` □□□ `wwwrun` □□ Webrate □□□□□□□□□□□□□□□□□□□□□□□□

□□:

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Django □□□□□□□□□□□□□□□□□□□ □□□ `loaders` □□□□□□□□□□□□□□□□□□□:

```
TEMPLATES = [
    {
        "BACKEND": "django.template.backends.django.DjangoTemplates",
        "DIRS": [
            os.path.join(BASE_DIR, "templates"),
        ],
        "OPTIONS": {
            "context_processors": [
                "django.contrib.auth.context_processors.auth",
                "django.template.context_processors.debug",
                "django.template.context_processors.i18n",
                "django.template.context_processors.request",
                "django.template.context_processors.csrf",
                "django.contrib.messages.context_processors.messages",
                "weblate.trans.context_processors.weblate_context",
            ],
            "loaders": [
                (
                    "django.template.loaders.cached.Loader",
                    [
                        "django.template.loaders.filesystem.Loader",
                        "django.template.loaders.app_directories.Loader",
                    ],
                ),
            ],
        },
    },
]
```

□□:

`django.template.loaders.cached.Loader`

[illegible]

[illegible] *Celery* [illegible]:

[illegible]

[illegible]: *Lazy commits* [illegible] *commit_pending*

[illegible]

[illegible]: *AUTO_UPDATE*

JSON [illegible]: *dump_memory*

[illegible]: *cleanuptrans*

[illegible] 3.2 [illegible]: [illegible] 3.2 [illegible] Celery [illegible] Weblate [illegible]: *Celery* [illegible]

[illegible]

[illegible] UTF-8 [illegible] Linux [illegible] UTF-8 [illegible]

[illegible] `/etc/default/locale` [illegible] ``LANG="C.UTF-8"`` [illegible]

[illegible] Web [illegible] Web [illegible]

Apache on Ubuntu uses `/etc/apache2/envvars`:

```
export LANG='en_US.UTF-8'
export LC_ALL='en_US.UTF-8'
```

Apache on CentOS uses `/etc/sysconfig/httpd` (or `/opt/rh/httpd24/root/etc/sysconfig/httpd`):

```
LANG='en_US.UTF-8'
```

[illegible]

Weblate [illegible] HTTP [illegible] SSL [illegible]

[illegible] Debian [illegible] CA [illegible] `/usr/local/share/ca-certificates/` [illegible] **update-ca-certificates** [illegible]

[illegible] Git [illegible]

Python [illegible] CA [illegible] CA [illegible] `settings.py` [illegible] Debian [illegible]:

```
import os

os.environ["REQUESTS_CA_BUNDLE"] = "/etc/ssl/certs/ca-certificates.crt"
```

[illegible]

Weblate [illegible] JavaScript [illegible] CSS [illegible] Weblate [illegible]

[illegible] `django.conf.settings.COMPRESS_OFFLINE` [illegible] `django.conf.settings.COMPRESS_OFFLINE_CONTEXT` [illegible]:

```
COMPRESS_OFFLINE = True
```

[illegible]:

```
weblate compress
```

???: ??? Docker ??????????????????????

??:

Common Deployment Scenarios?????????

??????

???: In case you are not experienced with services described below, you might want to try *Docker ??????????*.

Weblate ????????????????:

??????? ????????: *Weblate ??????????* ?

????? ????????: *??????????* ?

???????? SSL ???????????????????? Web ????????: *??????????* ?

????????? WSGI ????????: *NGINX ??? uWSGI ????* ?

????????? ????????????????: *Celery ?????????????? ???* ?

??: ?????????????????????????Celery ??? uwsgi ????????????????????????????????????

???Celery ????? Wsgi ????? `DATA_DIR` ??????????????????

??: WSGI ???????Celery ?????????????????????????????`DATA_DIR` ????????????????????????????????????

???? ????????? ??? *Celery ?????????????* *???* ???????????

Web ????????

Weblate ???????? Django ?????????????????????? Django ? uWSGI ??? fcgi ?????????????? Web ????????????

?????????Django ????????? Web ??????????:

```
weblate runserver
```

??: ??? `runserver` ? Django ??????????????????

???: Django ?????????????????????????`DEBUG`??*NGINX ??? uWSGI ?????*?*Apache ?????*?*Apache ? Gunicorn ??????????* *????????????* ????????????????

??????????

????? 2.4 ???: ????? 2.4 ??????Weblate ? Django ??????? ??????????????????????????

Django ????????? 1 ????????????????????????????`weblate collectstatic --noinput` ???????????????`STATIC_ROOT` ??? *`DATA_DIR`* ?? `static` ?????????

?????????Web ????????????????????????????????????:

Weblate ????????????????????????`STATIC_ROOT` ???????

????????????????????????: ???????????

`/static/favicon.ico` ????????????????????????

??:

NGINX ??? uWSGI ????, *Apache ?????Apache ? Gunicorn ??????????* ?????????Django ?????????????????

?????? ??????? ????

Weblate ???????????weblate.middleware.SecurityMiddleware ???????????Content-Security-Policy ??? X-XSS-Protection ??????????? HTTP ????????????????????????? Weblate ????????????????????????????????????

??:

CSP_SCRIPT_SRC?*CSP_IMG_SRC*?*CSP_CONNECT_SRC*?*CSP_STYLE_SRC*?*CSP_FONT_SRC*

NGINX ??? uWSGI ????

????? WEB ???????????Weblate ????????????? wsgi ???????????virtual env ????~/weblate-env/lib/python3.7/site-packages/weblate/wsgi.py ???????????? Python ????? virtualenv ??????????????????: uWSGI ? `virtualenv = /home/user/weblate-env` ?????

????????NGINX WEB ???????? Weblate ? uWSGI ??????????

NGINX ???? `weblate/examples/weblate.nginx.conf` ???????:

```
# This example assumes Weblate is installed in virtualenv in /home/weblate/
↪weblate-env
# and DATA_DIR is set to /home/weblate/data, please adjust paths to match␣
↪your setup.
server {
    listen 80;
    server_name weblate;
    # Not used
    root /var/www/html;

    location ~ ^/favicon.ico$ {
        # DATA_DIR/static/favicon.ico
        alias /home/weblate/data/static/favicon.ico;
        expires 30d;
    }

    location /static/ {
        # DATA_DIR/static/
        alias /home/weblate/data/static/;
        expires 30d;
    }

    location /media/ {
        # DATA_DIR/media/
        alias /home/weblate/data/media/;
        expires 30d;
    }

    location / {
        include uwsgi_params;
        # Needed for long running operations in admin interface
        uwsgi_read_timeout 3600;
        # Adjust based to uwsgi configuration:
        uwsgi_pass unix:///run/uwsgi/app/weblate/socket;
        # uwsgi_pass 127.0.0.1:8080;
    }
}
```

uWSGI ???? `weblate/examples/weblate.uwsgi.ini` ????????

```
# This example assumes Weblate is installed in virtualenv in /home/weblate/
↪weblate-env
# and DATA_DIR is set to /home/weblate/data, please adjust paths to match␣
↪your setup.
```

(?????????)

(□□□□□□□□□□)

```
[uwsgi]
plugins        = python3
master         = true
protocol       = uwsgi
socket         = 127.0.0.1:8080
wsgi-file      = /home/weblate/weblate-env/lib/python3.9/site-packages/
↪weblate/wsgi.py

# Add path to Weblate checkout if you did not install
# Weblate by pip
# python-path   = /path/to/weblate

# In case you're using virtualenv uncomment this:
virtualenv = /home/weblate/weblate-env

# Needed for OAuth/OpenID
buffer-size    = 8192

# Reload when consuming too much of memory
reload-on-rss = 250

# Increase number of workers for heavily loaded sites
workers        = 8

# Enable threads for Sentry error submission
enable-threads = true

# Child processes do not need file descriptors
close-on-exec = true

# Avoid default 0000 umask
umask = 0022

# Run as weblate user
uid = weblate
gid = weblate

# Enable harakiri mode (kill requests after some time)
# harakiri = 3600
# harakiri-verbose = true

# Enable uWSGI stats server
# stats = :1717
# stats-http = true

# Do not log some errors caused by client disconnects
ignore-sigpipe = true
ignore-write-errors = true
disable-write-exception = true
```

□□:

Django □ uWSGI □□□□□□□□□□

Apache □□□□

Weblate □ WSGI □□□□□□□□□□prefork MPM □□□□□□□□□□

□□□Weblate □ WSGI □□□□□□□□□□□□□□mod_wsgi □□□□□□□□□□weblate/examples/apache.conf □□□□□□□□:

```
#
# VirtualHost for Weblate
#
# This example assumes Weblate is installed in virtualenv in /home/weblate/
↪weblate-env
# and DATA_DIR is set to /home/weblate/data, please adjust paths to match␣
↪your setup.
```

(□□□□□□□□□)

(□□□□□□□□□□)

```
#
<VirtualHost *:80>
    ServerAdmin admin@weblate.example.org
    ServerName weblate.example.org

    # DATA_DIR/static/favicon.ico
    Alias /favicon.ico /home/weblate/data/static/favicon.ico

    # DATA_DIR/static/
    Alias /static/ /home/weblate/data/static/
    <Directory /home/weblate/data/static/>
        Require all granted
    </Directory>

    # DATA_DIR/media/
    Alias /media/ /home/weblate/data/media/
    <Directory /home/weblate/data/media/>
        Require all granted
    </Directory>

    # Path to your Weblate virtualenv
    WSGIDaemonProcess weblate python-home=/home/weblate/weblate-env␣
↪user=weblate
    WSGIProcessGroup weblate
    WSGIApplicationGroup %{GLOBAL}

    WSGIScriptAlias / /home/weblate/weblate-env/lib/python3.7/site-
↪packages/weblate/wsgi.py process-group=weblate request-timeout=600
    WSGIPassAuthorization On

    <Directory /home/weblate/weblate-env/lib/python3.7/site-packages/
↪weblate/>
        <Files wsgi.py>
        Require all granted
        </Files>
    </Directory>

</VirtualHost>
```

□□: Weblate □□ Python3 □□□□□□□modwsgi □ Python 3 variant □□□□□□□□□□□□□□□□□□□□□□□□□libapache2-mod-wsgi-py3 □□□□□□□□□□□□□□□□□□□□□□□□□

□□:

□□□□□□□□□□□□□□□□Django □ Apache □ mod_wsgi □□□□□□□□□□

Apache □ Gunicorn □□□□

□□□□□□Gunicorn □□□ Apache 2.4 □ Weblate □□□□□□□□□weblate/examples/apache.gunicorn.conf □□□□□□□:

```
#
# VirtualHost for Weblate using gunicorn on localhost:8000
#
# This example assumes Weblate is installed in virtualenv in /home/weblate/
↪weblate-env
# and DATA_DIR is set to /home/weblate/data, please adjust paths to match␣
↪your setup.
#
<VirtualHost *:443>
    ServerAdmin admin@weblate.example.org
    ServerName weblate.example.org

    # DATA_DIR/static/favicon.ico
    Alias /favicon.ico /home/weblate/data/static/favicon.ico
```

(□□□□□□□□□)

```
    # DATA_DIR/static/
    Alias /static/ /home/weblate/data/static/
    <Directory /home/weblate/data/static/>
        Require all granted
    </Directory>

    # DATA_DIR/media/
    Alias /media/ /home/weblate/data/media/
    <Directory /home/weblate/data/media/>
        Require all granted
    </Directory>

    SSLEngine on
    SSLCertificateFile /etc/apache2/ssl/https_cert.cert
    SSLCertificateKeyFile /etc/apache2/ssl/https_key.pem
    SSLProxyEngine On

    ProxyPass /favicon.ico !
    ProxyPass /static/ !
    ProxyPass /media/ !

    ProxyPass / http://localhost:8000/
    ProxyPassReverse / http://localhost:8000/
    ProxyPreserveHost On
</VirtualHost>
```

□□:

How to use Django with Gunicorn

□□□□□□ Weblate □□□

□□□□□ 1.3 □□□.

Weblate □ WSGI □□□□□□□□□□prefork MPM □□□□□□□□□□□

Weblate □ `/weblate` □□□□□□□□ Apache □□□□□□□□□□ `mod_wsgi` □□□□□□□□weblate/examples/apache-path.conf □□□□□□□□:

```
#
# VirtualHost for Weblate, running under /weblate path
#
# This example assumes Weblate is installed in virtualenv in /home/weblate/
↪weblate-env
# and DATA_DIR is set to /home/weblate/data, please adjust paths to match␣
↪your setup.
#
<VirtualHost *:80>
    ServerAdmin admin@weblate.example.org
    ServerName weblate.example.org

    # DATA_DIR/static/favicon.ico
    Alias /weblate/favicon.ico /home/weblate/data/static/favicon.ico

    # DATA_DIR/static/
    Alias /weblate/static/ /home/weblate/data/static/
    <Directory /home/weblate/data/static/>
        Require all granted
    </Directory>

    # DATA_DIR/media/
    Alias /weblate/media/ /home/weblate/data/media/
    <Directory /home/weblate/data/media/>
        Require all granted
    </Directory>
```

```
    # Path to your Weblate virtualenv
    WSGIDaemonProcess weblate python-home=/home/weblate/weblate-env␣
↪user=weblate
    WSGIProcessGroup weblate
    WSGIApplicationGroup %{GLOBAL}

    WSGIScriptAlias /weblate /home/weblate/weblate-env/lib/python3.7/site-
↪packages/weblate/wsgi.py process-group=weblate request-timeout=600
    WSGIPassAuthorization On

    <Directory /home/weblate/weblate-env/lib/python3.7/site-packages/
↪weblate/>
        <Files wsgi.py>
        Require all granted
        </Files>
    </Directory>

</VirtualHost>
```

□□□□weblate/settings.py □□□□□□□□□

```
URL_PREFIX = "/weblate"
```

Celery □□□□□□□□□□□□□□ □□□

□□□□□ 3.2 □□□.

Weblate uses Celery to execute regular and background tasks. You are supposed to run a Celery service that will execute these. For example, it is responsible for handling following operations (this list is not complete):

Receiving webhooks from external services (see *□□□□□*).

Runing regular maintenance tasks such as backups, cleanups, daily add-ons, or updates (see *Weblate □□□□□□□□□□*, *BACKGROUND_TASKS*, *□□□□*).

Running *□□□□*.

Sending digest notifications.

Offloading expensive operations from the wsgi process.

Commiting pending changes (see *Lazy commits*).

A typical setup using Redis as a backend looks like this:

```
CELERY_TASK_ALWAYS_EAGER = False
CELERY_BROKER_URL = "redis://localhost:6379"
CELERY_RESULT_BACKEND = CELERY_BROKER_URL
```

□□:

Redis broker configuration in Celery

□□□Celery □□□ □□:

```
./weblate/examples/celery start
./weblate/examples/celery stop
```

□□: Celery □□□□□□WSGI □□*DATA_DIR* □□□

□□□□ □□□□□□□□□□ □□□ □□□□□□ □□□□□□□□□□□

Executing Celery tasks in the wsgi using eager mode

??: This will have severe performance impact on the web interface, and will break features depending on regullar trigger (for example commiting pending changes, digest notifications, or backups).

For development, you might want to use eager configuration, which does process all tasks in place:

```
CELERY_TASK_ALWAYS_EAGER = True
CELERY_BROKER_URL = "memory://"
CELERY_TASK_EAGER_PROPAGATES = True
```

???? ???????????? Celery

??????Celery ???????????????????? Daemonization ??????????systemd ???????????? Linux ???????????? `examples` ???????????????? ????????????????

`/etc/systemd/system/celery-weblate.service` ????? Systemd ??????????:

```
[Unit]
Description=Celery Service (Weblate)
After=network.target

[Service]
Type=forking
User=weblate
Group=weblate
EnvironmentFile=/etc/default/celery-weblate
WorkingDirectory=/home/weblate
RuntimeDirectory=celery
RuntimeDirectoryPreserve=restart
LogsDirectory=celery
ExecStart=/bin/sh -c '${CELERY_BIN} multi start ${CELERYD_NODES} \
  -A ${CELERY_APP} --pidfile=${CELERYD_PID_FILE} \
  --logfile=${CELERYD_LOG_FILE} --loglevel=${CELERYD_LOG_LEVEL} ${CELERYD_
↪OPTS}'
ExecStop=/bin/sh -c '${CELERY_BIN} multi stopwait ${CELERYD_NODES} \
  --pidfile=${CELERYD_PID_FILE}'
ExecReload=/bin/sh -c '${CELERY_BIN} multi restart ${CELERYD_NODES} \
  -A ${CELERY_APP} --pidfile=${CELERYD_PID_FILE} \
  --logfile=${CELERYD_LOG_FILE} --loglevel=${CELERYD_LOG_LEVEL} ${CELERYD_
↪OPTS}'

[Install]
WantedBy=multi-user.target
```

`/etc/default/celery-weblate` ????????????:

```
# Name of nodes to start
CELERYD_NODES="celery notify memory backup translate"

# Absolute or relative path to the 'celery' command:
CELERY_BIN="/home/weblate/weblate-env/bin/celery"

# App instance to use
# comment out this line if you don't use an app
CELERY_APP="weblate.utils"

# Extra command-line arguments to the worker,
# increase concurency if you get weblate.E019
CELERYD_OPTS="--beat:celery --queues:celery=celery --prefetch-
↪multiplier:celery=4 \
    --queues:notify=notify --prefetch-multiplier:notify=10 \
    --queues:memory=memory --prefetch-multiplier:memory=10 \
    --queues:translate=translate --prefetch-multiplier:translate=4 \
    --concurrency:backup=1 --queues:backup=backup  --prefetch-
↪multiplier:backup=2"
```

(?????????)

```
# Logging configuration
# - %n will be replaced with the first part of the nodename.
# - %I will be replaced with the current child process index
#   and is important when using the prefork pool to avoid race conditions.
CELERYD_PID_FILE="/run/celery/weblate-%n.pid"
CELERYD_LOG_FILE="/var/log/celery/weblate-%n%I.log"
CELERYD_LOG_LEVEL="INFO"
```

`/etc/logrotate.d/celery` □□□ Celery □□□ **logrotate** □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□:

```
/var/log/celery/*.log {
        weekly
        missingok
        rotate 12
        compress
        notifempty
}
```

Celery beat □□□□□□□□□□□□□

Weblate □□`settings.py` □□□□□□□□□□□□□□□□□□*Lazy commits* □□□□□□□□□□□□□

□□□□ Celery beats □□

Celery □□□□□□□

You can find current length of the Celery task queues in the *□□□□* or you can use `celery_queues` on the command line. In case the queue will get too long, you will also get configuration error in the admin interface.

> **□□:** □□□□□□□□□Celery □□□□ Celery □□□*□□□□□□□□□□* □□□□□□□□□□□□

□□:

Configuration and defaults□Workers Guide□Daemonization□Monitoring and Management Guide□`celery_queues`

Weblate □□□

Weblate □□□□□ Kubernetes □□□□□□□□□□□□□□□□□□□ `/healthz/` URL□□□□□□□□Docker □□□□□□□□□□ URL □□□□□□□□□□□□□□□□□□□□□□□□□□

For monitoring metrics of Weblate you can use *GET /api/metrics/* API endpoint.

□□:

`Munin □□ Weblate □□□□□<https://github.com/WeblateOrg/munin>`_

□□□ □□□□□□□□

Weblate □□Weblate □□□□□□□□□:

Sentry

Weblate [illegible]`Sentry <https://sentry.io/>`_ [illegible] `settings.py` [illegible] *SENTRY_DSN* [illegible]

```
SENTRY_DSN = "https://id@your.sentry.example.com/"
```

Rollbar

Weblate [illegible] Rollbar [illegible] Rollbar notifier for Python [illegible]

[illegible]`settings.py` [illegible]:

```
# Add rollbar as last middleware:
MIDDLEWARE = [
    # … other middleware classes …
    "rollbar.contrib.django.middleware.RollbarNotifierMiddleware",
]

# Configure client access
ROLLBAR = {
    "access_token": "POST_SERVER_ITEM_ACCESS_TOKEN",
    "client_token": "POST_CLIENT_ITEM_ACCESS_TOKEN",
    "environment": "development" if DEBUG else "production",
    "branch": "main",
    "root": "/absolute/path/to/code/root",
}
```

[illegible]

Weblate [illegible]

Weblate [illegible] Weblate [illegible]

[illegible]

[illegible]1 [illegible]

[illegible]: **mysqldump`[illegible] :command:`pg_dump**[illegible]Django [illegible]:

```
# Export current data
weblate dumpdata > /tmp/weblate.dump
# Import dump
weblate loaddata /tmp/weblate.dump
```

VCS [illegible]

DATA_DIR [illegible] VCS [illegible] **rsync** [illegible]

□□□□□□□□□

Redis □ Cron □□□□□□□□□□□□□□□□□□□□□Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Weblate □□□

Weblate □□:

Docker □□□□□□□□□□□□

Installing on OpenShift

Installing on Kubernetes

□□□ □□□□□□ Weblate □□□

□□: □□□□□□□Weblate □□

Bitnami Weblate □□□□

Bitnami □□<https://bitnami.com/stack/weblate> □□□□□□□□□□□□□□ Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ <https://bitnami.com/stack/weblate/README.txt> □□□□□□□□□□□

Weblate Cloudron □□□□□□

Cloudron □□□□□□□□□ Web □□□□□□□□□□□□□□□□□□□□□□□Cloudron □□□□□□□□□□□□□□ Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□ Cloudron □□□□ Weblate package repo □□□□□□□□□□□

Cloudron install

YunoHost □ Weblate

□□□□□□□□□□□□□ YunoHost □ Weblate □□□□□□□□□□□□□□□□□□YunoHost □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Webrate □□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□:

Install with YUNOHOST

□□□□□□□□ □□□□□□□□□□□□□□□□:

```
yunohost app install https://github.com/YunoHost-Apps/weblate_ynh
```

Weblate □□□□□□□□□

Docker □□□□□□□□□□□□□□□

□□□ Docker □□□□□□□□: *Docker □□□□□□□□□□□□*□□

[illegible]

[illegible] *[illegible]* [illegible] `settings.py` [illegible] `settings_example.py` [illegible]

Always check *Version specific instructions* before upgrade. In case you are skipping some versions, please follow instructions for all versions you are skipping in the upgrade. Sometimes it's better to upgrade to some intermediate version to ensure a smooth migration. Upgrading across multiple releases should work, but is not as well tested as single version upgrades.

[illegible]: It is recommended to perform a full database backup prior to upgrade so that you can roll back the database in case upgrade fails, see *Weblate [illegible]*.

---

1. Stop wsgi and Celery processes. The upgrade can perform incompatible changes in the database, so it is always safer to avoid old processes running while upgrading.
2. Upgrade Weblate code.

   For pip installs it can be achieved by:

   ```
   pip install -U "Weblate[all]"
   ```

   If you don't want to install all of the optional dependencies do:

   ```
   pip install -U Weblate
   ```

   With Git checkout you need to fetch new source code and update your installation:

   ```
   cd weblate-src
   git pull
   # Update Weblate inside your virtualenv
   . ~/weblate-env/bin/pip install -e .
   # Install dependencies directly when not using virtualenv
   pip install --upgrade -r requirements.txt
   # Install optional dependencies directly when not using virtualenv
   pip install --upgrade -r requirements-optional.txt
   ```

3. New Weblate release might have new *[illegible]*, please check if they cover features you want.
4. Upgrade configuration file, refer to `settings_example.py` or *Version specific instructions* for needed steps.
5. Upgrade database structure:

   ```
   weblate migrate --noinput
   ```

6. Collect updated static files (see *[illegible]* and *[illegible]*):

   ```
   weblate collectstatic --noinput
   ```

7. Compress JavaScript and CSS files (optional, see *[illegible] [illegible]*):

   ```
   weblate compress
   ```

8. Git [illegible]:

   ```
   weblate compilemessages
   ```

9. Verify that your setup is sane (see also *[illegible]*):

   ```
   weblate check --deploy
   ```

10. Celery [illegible] ([illegible] *Celery [illegible] [illegible]*)[illegible]

Version specific instructions

Upgrade from 2.x

If you are upgrading from 2.x release, always first upgrade to 3.0.1 and then continue upgrading in the 3.x series. Upgrades skipping this step are not supported and will break.

??:

Upgrade from 2.20 to 3.0 in Weblate 3.0 documentation

Upgrade from 3.x

If you are upgrading from 3.x release, always first upgrade to 4.0.4 or 4.1.1 and then continue upgrading in the 4.x series. Upgrades skipping this step are not supported and will break.

??:

Upgrade from 3.11 to 4.0 in Weblate 4.0 documentation

Upgrade from 4.0 to 4.1

Please follow *??????????????* in order to perform update.

Notable configuration or dependencies changes:

There are several changes in `settings_example.py`, most notable middleware changes, please adjust your settings accordingly.

There are new file formats, you might want to include them in case you modified the *`WEBLATE_FORMATS`*.

There are new quality checks, you might want to include them in case you modified the *`CHECK_LIST`*.

`DEFAULT_THROTTLE_CLASSES` ????????API ????????????????????

There are some new and updated requirements.

There is a change in `INSTALLED_APPS`.

The `MT_DEEPL_API_VERSION` setting has been removed in Version 4.7. The *DeepL* machine translation now uses the new *`MT_DEEPL_API_URL`* instead. You might need to adjust *`MT_DEEPL_API_URL`* to match your subscription.

??:

??????????????

Upgrade from 4.1 to 4.2

Please follow *??????????????* in order to perform update.

Notable configuration or dependencies changes:

Upgrade from 3.x releases is not longer supported, please upgrade to 4.0 or 4.1 first.

There are some new and updated requirements.

There are several changes in `settings_example.py`, most notable new middleware and changed application ordering.

The keys for JSON based formats no longer include leading dot. The strings are adjusted during the database migration, but external components might need adjustment in case you rely on keys in exports or API.

The Celery configuration was changed to no longer use `memory` queue. Please adjust your startup scripts and `CELERY_TASK_ROUTES` setting.

The Weblate domain is now configured in the settings, see *`SITE_DOMAIN`* (or *`WEBLATE_SITE_DOMAIN`*). You will have to configure it before running Weblate.

The username and email fields on user database now should be case insensitive unique. It was mistakenly not enforced with PostgreSQL.

??:

??????????????

Upgrade from 4.2 to 4.3

Please follow [illegible] in order to perform update.

Notable configuration or dependencies changes:

There are some changes in quality checks, you might want to include them in case you modified the *CHECK_LIST*.

The source language attribute was moved from project to a component what is exposed in the API. You will need to update *Weblate* [illegible] in case you are using it.

The database migration to 4.3 might take long depending on number of strings you are translating (expect around one hour of migration time per 100,000 source strings).

There is a change in INSTALLED_APPS.

There is a new setting *SESSION_COOKIE_AGE_AUTHENTICATED* which complements SESSION_COOKIE_AGE.

In case you were using **hub** or **lab** to integrate with GitHub or GitLab, you will need to reconfigure this, see *GITHUB_CREDENTIALS* and *GITLAB_CREDENTIALS*.

[illegible] 4.3.1 [illegible]:

The Celery configuration was changed to add `memory` queue. Please adjust your startup scripts and CELERY_TASK_ROUTES setting.

[illegible] 4.3.2 [illegible]:

The `post_update` method of addons now takes extra `skip_push` parameter.

[illegible]:

[illegible]

Upgrade from 4.3 to 4.4

Please follow [illegible] in order to perform update.

Notable configuration or dependencies changes:

There is a change in INSTALLED_APPS, `weblate.configuration` has to be added there.

Django 3.1 is now required.

In case you are using MySQL or MariaDB, the minimal required versions have increased, see *MySQL [illegible] MariaDB*.

[illegible] 4.4.1 [illegible]:

Monolingual gettext now uses both `msgid` and `msgctxt` when present. This will change identification of translation strings in such files breaking links to Weblate extended data such as screenshots or review states. Please make sure you commit pending changes in such files prior upgrading and it is recommeded to force loading of affected component using *loadpo*.

Increased minimal required version of translate-toolkit to address several file format issues.

[illegible]:

[illegible]

Upgrade from 4.4 to 4.5

Please follow [illegible] in order to perform update.

Notable configuration or dependencies changes:

The migration might take considerable time if you had big glossaries.

Glossaries are now stored as regular components.

The glossary API is removed, use regular translation API to access glossaries.

There is a change in INSTALLED_APPS - `weblate.metrics` should be added.

[illegible] 4.5.1 [illegible]:

There is a new dependency on the *pyahocorasick* module.

[illegible]:

[illegible]

Upgrade from 4.5 to 4.6

Please follow [illegible] in order to perform update.

Notable configuration or dependencies changes:

There are new file formats, you might want to include them in case you modified the *WEBLATE_FORMATS*.

[illegible] API [illegible] *Weblate* [illegible] *URL* [illegible]: *POST /api/projects/(string:project)/components/*[illegible]

There is a change in dependencies and PASSWORD_HASHERS to prefer Argon2 for passwords hashing.

[illegible]:

[illegible]

Upgrade from 4.6 to 4.7

Please follow [illegible] in order to perform update.

Notable configuration or dependencies changes:

There are several changes in `settings_example.py`, most notable middleware changes (MIDDLEWARE), please adjust your settings accordingly.

The *DeepL* machine translation now has a generic *MT_DEEPL_API_URL* setting to adapt to different subscription models more flexibly. The MT_DEEPL_API_VERSION setting is no longer used.

Django 3.2 is now required.

[illegible]:

[illegible]

Upgrade from 4.7 to 4.8

Please follow [illegible] in order to perform update.

There are no additional upgrade steps needed in this release.

[illegible]:

[illegible]

Upgrade from 4.8 to 4.9

Please follow [illegible] in order to perform update.

There is a change in storing metrics, the upgrade can take log time on larger sites.

[illegible]:

[illegible]

Upgrading from Python 2 to Python 3

Weblate no longer supports Python older than 3.5. In case you are still running on older version, please perform migration to Python 3 first on existing version and upgrade later. See Upgrading from Python 2 to Python 3 in the Weblate 3.11.1 documentation.

Migrating from other databases to PostgreSQL

If you are running Weblate on other dabatase than PostgreSQL, you should consider migrating to PostgreSQL as Weblate performs best with it. The following steps will guide you in migrating your data between the databases. Please remember to stop both web and Celery servers prior to the migration, otherwise you might end up with inconsistent data.

PostgreSQL ??????????

?????????????? Weblate ???????????????????? ??????????:

```
# If PostgreSQL was not installed before, set the main password
sudo -u postgres psql postgres -c "\password postgres"

# Create a database user called "weblate"
sudo -u postgres createuser -D -P weblate

# Create the database "weblate" owned by "weblate"
sudo -u postgres createdb -E UTF8 -O weblate weblate
```

Migrating using Django JSON dumps

The simplest approach for migration is to utilize Django JSON dumps. This works well for smaller installations. On bigger sites you might want to use pgloader instead, see *Migrating to PostgreSQL using pgloader*.

1. Add PostgreSQL as additional database connection to the `settings.py`:

```
DATABASES = {
    "default": {
        # Database engine
        "ENGINE": "django.db.backends.mysql",
        # Database name
        "NAME": "weblate",
        # Database user
        "USER": "weblate",
        # Database password
        "PASSWORD": "password",
        # Set to empty string for localhost
        "HOST": "database.example.com",
        # Set to empty string for default
        "PORT": "",
        # Additional database options
        "OPTIONS": {
            # In case of using an older MySQL server, which has MyISAM as␣
↪a default storage
            # 'init_command': 'SET storage_engine=INNODB',
            # Uncomment for MySQL older than 5.7:
            # 'init_command': "SET sql_mode='STRICT_TRANS_TABLES'",
            # If your server supports it, see the Unicode issues above
            "charset": "utf8mb4",
            # Change connection timeout in case you get MySQL gone away␣
↪error:
            "connect_timeout": 28800,
        },
    },
    "postgresql": {
        # Database engine
        "ENGINE": "django.db.backends.postgresql",
        # Database name
        "NAME": "weblate",
        # Database user
        "USER": "weblate",
        # Database password
        "PASSWORD": "password",
        # Set to empty string for localhost
        "HOST": "database.example.com",
```

(??????????)

```
        # Set to empty string for default
        "PORT": "",
    },
}
```

2.Run migrations and drop any data inserted into the tables:

```
weblate migrate --database=postgresql
weblate sqlflush --database=postgresql | weblate dbshell --
↪database=postgresql
```

3.Dump legacy database and import to PostgreSQL

```
weblate dumpdata --all --output weblate.json
weblate loaddata weblate.json --database=postgresql
```

4.Adjust `DATABASES` to use just PostgreSQL database as default, remove legacy connection.

Weblate should be now ready to run from the PostgreSQL database.

Migrating to PostgreSQL using pgloader

The pgloader is a generic migration tool to migrate data to PostgreSQL. You can use it to migrate Weblate database.

1.Adjust your `settings.py` to use PostgreSQL as a database.

2.Migrate the schema in the PostgreSQL database:

```
weblate migrate
weblate sqlflush | weblate dbshell
```

3.Run the pgloader to transfer the data. The following script can be used to migrate the database, but you might want to learn more about pgloader to understand what it does and tweak it to match your setup:

```
LOAD DATABASE
     FROM      mysql://weblate:password@localhost/weblate
     INTO postgresql://weblate:password@localhost/weblate

WITH include no drop, truncate, create no tables, create no indexes, no␣
↪foreign keys, disable triggers, reset sequences, data only

ALTER SCHEMA 'weblate' RENAME TO 'public'
;
```

Migrating from Pootle

As Weblate was originally written as replacement from Pootle, it is supported to migrate user accounts from Pootle. You can dump the users from Pootle and import them using *importusers*.

Weblate [illegible]

BorgBackup [illegible]

[illegible] 3.9 [illegible].

Weblate [illegible] BorgBackup [illegible]Borg [illegible] *[illegible]* [illegible]

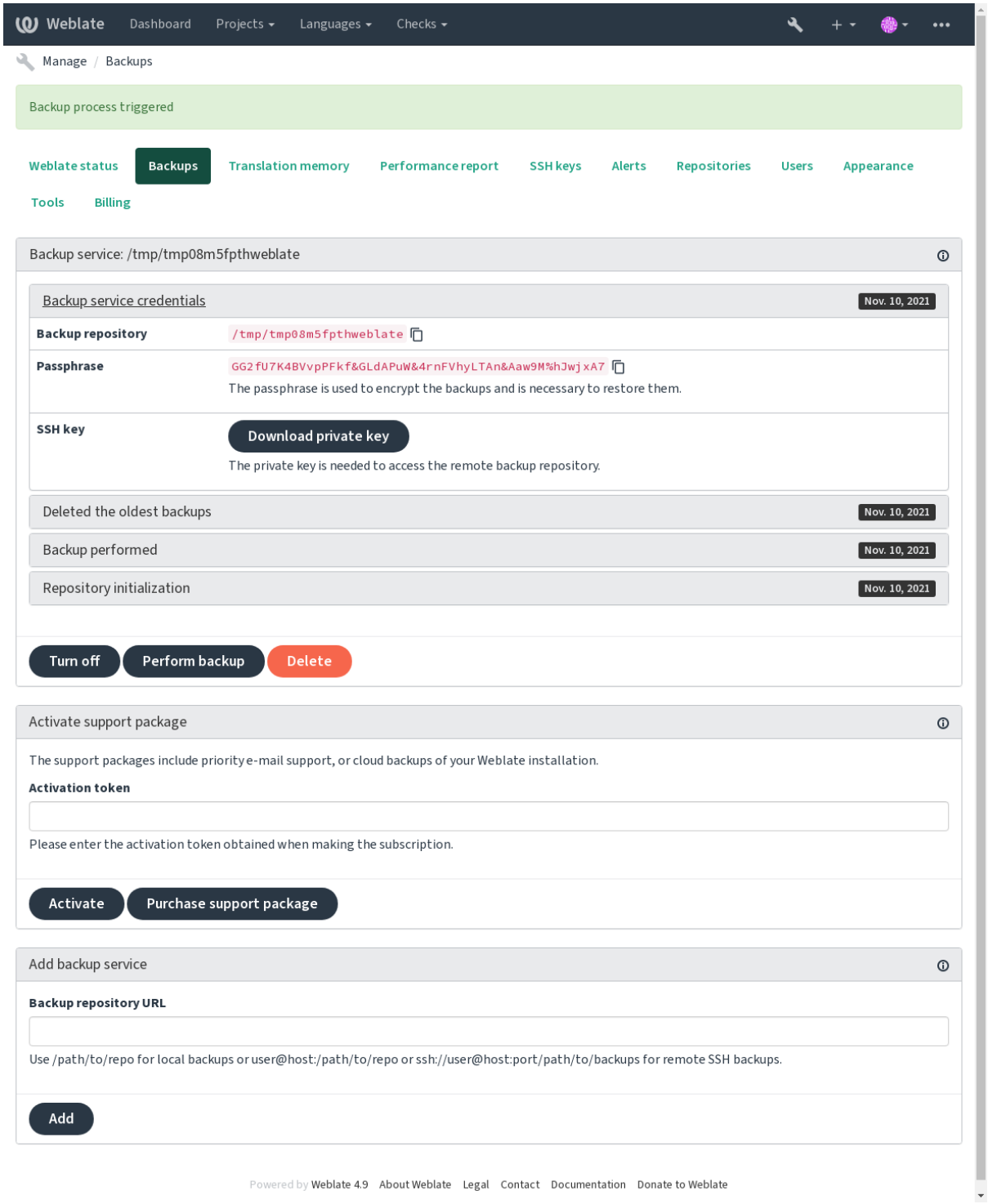
[illegible] 4.4.1 [illegible]: PostgreSQL [illegible] MySQL/MariaDB [illegible]

Borg [illegible] Webrate [illegible]

[illegible] 14 [illegible]

[illegible] 6 [illegible]

[illegible] 6 [illegible]


Weblate
Dashboard
Projects
Languages
Checks
Manage / Backups
Backup process triggered
Weblate status
Backups
Translation memory
Performance report
SSH keys
Alerts
Repositories
Users
Appearance
Tools
Billing
Backup service: /tmp/tmp08m5fpthweblate
Backup service credentials
Nov. 10, 2021
Backup repository
/tmp/tmp08m5fpthweblate
Passphrase
GG2fU7K4BVvpPFkf&GLdAPuW&4rnFVhyLTAn&Aaw9M%hJwjxA7
The passphrase is used to encrypt the backups and is necessary to restore them.
SSH key
Download private key
The private key is needed to access the remote backup repository.
Deleted the oldest backups
Nov. 10, 2021
Backup performed
Nov. 10, 2021
Repository initialization
Nov. 10, 2021
Turn off
Perform backup
Delete
Activate support package
The support packages include priority e-mail support, or cloud backups of your Weblate installation.
Activation token
Please enter the activation token obtained when making the subscription.
Activate
Purchase support package
Add backup service
Backup repository URL
Use /path/to/repo for local backups or user@host:/path/to/repo or ssh://user@host:port/path/to/backups for remote SSH backups.
Add
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

Borg [illegible]

BorgBackup [illegible]

Weblate [illegible] [illegible] [illegible] SSH [illegible]

[illegible]:

borg init

Customizing backup

The database backup can be configured via *DATABASE_BACKUP*.

The backup creation can be customized using *BORG_EXTRA_ARGS*.

Weblate [illegible] [illegible]

Weblate [illegible]weblate.org [illegible] [illegible]:

1. https://weblate.org/support/#backup [illegible] *[illegible] [illegible]* [illegible]
2. [illegible]: *[illegible]*
3. Weblate [illegible] [illegible]
4. *[illegible]* [illegible]
5. Borg [illegible]: *Borg [illegible]*

[illegible]: [illegible]

[illegible] [illegible]

[illegible]SSH [illegible] BorgBackup [illegible]

[illegible]:

Borg[illegible] General

[illegible] [illegible]

[illegible] */path/to/backup* [illegible]Weblate [illegible]: *[illegible]* *[illegible]*[illegible]Weblate [illegible]

[illegible]: Docker [illegible] Weblate [illegible] Weblate [illegible] Docker [illegible]

1 [illegible]/app/data/borgbackup[illegible]

[illegible] /borgbackup [illegible]Docker Compose[illegible]:

```
services:
  weblate:
    volumes:
      - /home/weblate/data:/app/data
      - /home/weblate/borgbackup:/borgbackup
```

[illegible]UID 1000 [illegible]Weblate [illegible]

???? ???????

???? ????????????????Weblate ? SSH ???????? SSH ????????????? Weblate ????????? BorgBackup ??????????????????????:

1. Prepare a server where your backups will be stored.
2. Install the SSH server on it (you will get it by default with most Linux distributions).
3. Install BorgBackup on that server; most Linux distributions have packages available (see Installation).
4. Choose an existing user or create a new user that will be used for backing up.
5. Add Weblate SSH key to the user so that Weblate can SSH to the server without a password (see *Weblate SSH ??*).
6. Configure the backup location in Weblate as `user@host:/path/to/backups` or `ssh://user@host:port/path/to/backups`.

???: *Weblate ????????? ?????* ???????????? ??????????????????

??:

Weblate SSH ??, General

BorgBackup ?????

1. ??????? ?????????????????????? ????????????
2. `borg list REPOSITORY` ????????????????????????????????
3. `borg extract REPOSITORY::ARCHIVE` ????????????????????????????????
4. Weblate ???? ????????? `backup` ????????? SQL ????????????????????: *Dumped data for backups*??
5. Weblate ????????`backups/settings.py`???: *Dumped data for backups*??????????????????

   When using Docker container, the settings file is already included in the container and you should restore the original environment variables. The `environment.yml` file might help you with this (see *Dumped data for backups*).
6. ????????? ?????????*DATA_DIR* ????????????

   When using Docker container place the data into the data volume, see *Docker container volumes*.

   Please make sure the files have correct ownership and permissions, see *???? ?????????*.

   Borg ????????:

```
$ borg list /tmp/xxx
Enter passphrase for key /tmp/xxx:
2019-09-26T14:56:08                  Thu, 2019-09-26 14:56:08␣
↪[de0e0f13643635d5090e9896bdaceb92a023050749ad3f3350e788f1a65576a5]
$ borg extract /tmp/xxx::2019-09-26T14:56:08
Enter passphrase for key /tmp/xxx:
```

??:

borg list?borg extract

?????????

???????????Weblate ????????????????????????????????????

???: If you are doing the manual backups, you might want to silence Weblate's warning about a lack of backups by adding `weblate.I028` to `SILENCED_SYSTEM_CHECKS` in `settings.py` or *`WEBLATE_SILENCED_SYSTEM_CHECKS`* for Docker.

```
SILENCED_SYSTEM_CHECKS.append("weblate.I028")
```

??????

??????????????????????????????

???: ??

????????????????

?????????**pg_dump** ?**mysqldump** ??
Django ??

You can restore this backup in a newer Weblate release, it will perform all the necessary migrations when running in `migrate`. Please consult *Weblate ?????????* on more detailed info on how to upgrade between versions.

Django ???????????????

Alternatively, you can back up your database using Django's `dumpdata` command. That way the backup is database agnostic and can be used in case you want to change the database backend.

Prior to restoring the database you need to be running exactly the same Weblate version the backup was made on. This is necessary as the database structure does change between releases and you would end up corrupting the data in some way. After installing the same version, run all database migrations using `migrate`.

Afterwards some entries will already be created in the database and you will have them in the database backup as well. The recommended approach is to delete such entries manually using the management shell (see *Invoking management commands*):

```
weblate shell
>>> from weblate.auth.models import User
>>> User.objects.get(username='anonymous').delete()
```

?????

If you have enough backup space, simply back up the whole *DATA_DIR*. This is a safe bet even if it includes some files you don't want. The following sections describe what you should back up and what you can skip in detail.

Dumped data for backups

????? 4.7 ???: The environment dump was added as `environment.yml` to help in restoring in the Docker environments.

Stored in *DATA_DIR* `/backups`.

Weblate dumps various data here, and you can include these files for more complete backups. The files are updated daily (requires a running Celery beats server, see *Celery ??????????????? ????*). Currently, this includes:

Weblate settings as `settings.py` (there is also expanded version in `settings-expanded.py`).

PostgreSQL database backup as `database.sql`.

Environment dump as `environment.yml`.

The database backups are saved as plain text by default, but they can also be compressed or entirely skipped using *DATABASE_BACKUP*.

To restore the database backup load it using dabase tools, for example:

```
psql --file=database.sql weblate
```

Version control repositories

Stored in *DATA_DIR*`/vcs`.

The version control repositories contain a copy of your upstream repositories with Weblate changes. If you have [illegible] enabled for all your translation components, all Weblate changes are included upstream. No need to back up the repositories on the Weblate side as they can be cloned again from the upstream location(s) with no data loss.

SSH and GPG keys

Stored in *DATA_DIR*`/ssh` and *DATA_DIR*`/home`.

If you are using SSH or GPG keys generated by Weblate, you should back up these locations. Otherwise you will lose the private keys and you will have to regenerate new ones.

User uploaded files

Stored in *DATA_DIR*`/media`.

[illegible]: *Visual context for strings*[illegible]

Celery tasks

The Celery task queue might contain some info, but is usually not needed for a backup. At most you will lose updates not yet been processed to translation memory. It is recommended to perform the fulltext or repository update upon restoration anyhow, so there is no problem in losing these.

[illegible]:

Celery [illegible]

Command line for manual backup

Using a cron job, you can set up a Bash command to be executed on a daily basis, for example:

```
$ XZ_OPT="-9" tar -Jcf ~/backup/weblate-backup-$(date -u +%Y-%m-%d_%H%M%S).
↪xz backups vcs ssh home media fonts secret
```

The string between the quotes after *XZ_OPT* allows you to choose your xz options, for instance the amount of memory used for compression; see https://linux.die.net/man/1/xz

You can adjust the list of folders and files to your needs. To avoid saving the translation memory (in backups folder), you can use:

```
$ XZ_OPT="-9" tar -Jcf ~/backup/weblate-backup-$(date -u +%Y-%m-%d_%H%M%S).
↪xz backups/database.sql backups/settings.py vcs ssh home media fonts␣
↪secret
```

Restoring manual backup

1. Restore all data you have backed up.
2. Update all repositories using *updategit*.

```
weblate updategit --all
```

Moving a Weblate installation

Relocate your installation to a different system by following the backing up and restoration instructions above.

[illegible]:

Upgrading from Python 2 to Python 3[illegible]*Migrating from other databases to PostgreSQL*

[illegible]

[illegible]

Weblate [illegible] Web [illegible] python-social-auth [illegible]

[illegible]*REGISTRATION_OPEN* [illegible]

[illegible]*[illegible]* [illegible]

[illegible]

Django [illegible] Django [illegible]: *Migrating from Pootle*[illegible]

Django [illegible]

[illegible]:

Authentication settings [illegible] Docker [illegible]

[illegible]

Welcome to Python Social Auth's documentation! [illegible]GitLab[illegible]Ubuntu[illegible]Fedora [illegible]

[illegible]Django Framework [illegible]

[illegible]: [illegible]Weblate [illegible]Weblate [illegible]:

```
SOCIAL_AUTH_OPENSUSE_FORCE_EMAIL_VALIDATION = True
```

[illegible]:

Pipeline

[illegible]AUTHENTICATION_BACKENDS [illegible]

[illegible]: Most of the authentication backends require HTTPS. Once HTTPS is enabled in your web server please configure Weblate to report it properly using *ENABLE_HTTPS*, or by *WEBLATE_ENABLE_HTTPS* in the Docker container.

[illegible]:

Python Social Auth backend

OpenID ??

OpenID ??OpenSUSE?Fedora???? Ubuntu ? OpenID ??????????:

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.email.EmailAuth",
    "social_core.backends.suse.OpenSUSEOpenId",
    "social_core.backends.ubuntu.UbuntuOpenId",
    "social_core.backends.fedora.FedoraOpenId",
    "weblate.accounts.auth.WeblateUserBackend",
)
```

??:

OpenID

GitHub ??

GitHub ?? OAuth ??????????????????Weblate ??????????????????:

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.github.GithubOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
SOCIAL_AUTH_GITHUB_KEY = "GitHub Client ID"
SOCIAL_AUTH_GITHUB_SECRET = "GitHub Client Secret"
SOCIAL_AUTH_GITHUB_SCOPE = ["user:email"]
```

GitHub ???????? URL ? `https://example.com/accounts/complete/github/` ???????????????

??: ???? Weblate ?????????? URL ??????????????????????URL ??????????????????????????????????????? ??????????

??:

GitHub

Bitbucket ??

????????? Bitbucket ??????????????Weblate ??????????????????:

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.bitbucket.BitbucketOAuth",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
SOCIAL_AUTH_BITBUCKET_KEY = "Bitbucket Client ID"
SOCIAL_AUTH_BITBUCKET_SECRET = "Bitbucket Client Secret"
SOCIAL_AUTH_BITBUCKET_VERIFIED_EMAILS_ONLY = True
```

??: ???? Weblate ?????????? URL ??????????????????????URL ??????????????????????????????????????? ??????????

??:

Bitbucket

Google OAuth 2

Google OAuth 2 ??????????<https://console.developers.google.com/> ??????????????????Google+API ??????????????????

????????? URL ??`https://WEBLATE SERVER/accounts/complete/google-oauth2/`

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.google.GoogleOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
SOCIAL_AUTH_GOOGLE_OAUTH2_KEY = "Client ID"
SOCIAL_AUTH_GOOGLE_OAUTH2_SECRET = "Client secret"
```

??: ???? Weblate ?????????? URL ??????????????????????URL ??????????????????????????????????????? ??????????

??:

Google

Facebook OAuth 2

???? OAuth 2 ??????????Facebook ????????????????????????????????????Webrate ??????:

????????? URL ??`https://WEBLATE SERVER/accounts/complete/facebook/`

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.facebook.FacebookOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
SOCIAL_AUTH_FACEBOOK_KEY = "key"
SOCIAL_AUTH_FACEBOOK_SECRET = "secret"
SOCIAL_AUTH_FACEBOOK_SCOPE = ["email", "public_profile"]
```

??: ???? Weblate ?????????? URL ??????????????????????URL ??????????????????????????????????????? ??????????

??:

Facebook

GitLab OAuth 2

GitLab OAuth 2 ??????????<https://gitlab.com/profile/applications> ??????????????????????????

????????? URL ? `https://WEBLATE SERVER/accounts/complete/gitlab/` ?????????? *read_user* ??????????????????????

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.gitlab.GitLabOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
```

(??????????)

```
SOCIAL_AUTH_GITLAB_KEY = "Application ID"
SOCIAL_AUTH_GITLAB_SECRET = "Secret"
SOCIAL_AUTH_GITLAB_SCOPE = ["read_user"]

# If you are using your own GitLab
# SOCIAL_AUTH_GITLAB_API_URL = 'https://gitlab.example.com/'
```

□□: □□□□ Weblate □□□□□□□□□□□ URL □□□□□□□□□□□□□□□□□□□□□□URL □□□□□□□□□□□□□□□□□□□□*□□□□□□□□□□□□□* □□□□□□□□□□

□□:

GitLab

Microsoft Azure Active Directory

Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□ URL □□□□□□ `https://WEBLATE SERVER/accounts/complete/azuread-oauth2/` □□□□□□□□□□□□ `https://WEBLATE SERVER/accounts/complete/azuread-tenant-oauth2/` □□□

```
# Azure AD common

# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.azuread.AzureADOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# OAuth2 keys
SOCIAL_AUTH_AZUREAD_OAUTH2_KEY = ""
SOCIAL_AUTH_AZUREAD_OAUTH2_SECRET = ""
```

```
# Azure AD Tenant

# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.azuread_tenant.AzureADTenantOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# OAuth2 keys
SOCIAL_AUTH_AZUREAD_TENANT_OAUTH2_KEY = ""
SOCIAL_AUTH_AZUREAD_TENANT_OAUTH2_SECRET = ""
# Tenant ID
SOCIAL_AUTH_AZUREAD_TENANT_OAUTH2_TENANT_ID = ""
```

□□: □□□□ Weblate □□□□□□□□□□□ URL □□□□□□□□□□□□□□□□□□□□□□URL □□□□□□□□□□□□□□□□□□□□*□□□□□□□□□□□□□* □□□□□□□□□□

□□:

Microsoft Azure Active Directory

Slack

Slack OAuth 2 ??????????<https://api.slack.com/apps> ??????????????????????????

????????? URL ??https://WEBLATE SERVER/accounts/complete/slack/

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.slack.SlackOAuth2",
    "social_core.backends.email.EmailAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
SOCIAL_AUTH_SLACK_KEY = ""
SOCIAL_AUTH_SLACK_SECRET = ""
```

??: ???? Weblate ?????????? URL ??????????????????URL ??????????????????????????????????? ??????????

??:

Slack

Overriding authentication method names and icons

You can override the authentication method display name and icon using using settings as `SOCIAL_AUTH_<NAME>_IMAGE` and `SOCIAL_AUTH_<NAME>_TITLE`. For example overriding naming for Auth0 would look like:

```
SOCIAL_AUTH_AUTH0_IMAGE = "custom.svg"
SOCIAL_AUTH_AUTH0_TITLE = "Custom auth"
```

??????????

??????????????AUTHENTICATION_BACKENDS ?? social_core.backends.email.EmailAuth ??????????????weblate.accounts.auth.WeblateUserBackend ? Weblate ??????????????????????

????: ??????????????????????????????????????/admin/ ??????????

---

openSUSE Open ID ??????????????????:

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.suse.OpenSUSEOpenId",
    "weblate.accounts.auth.WeblateUserBackend",
)
```

????????

?????? settings.py ????? AUTH_PASSWORD_VALIDATORS ??????????:

??????????????????????

????????10 ??????????

??????????????????????

??????????????????????

??????????????????????????????

??????????????????

????????? ??????????????????

??? django-zxcvbn-password ??

SAML ??

????? 4.1.1 ???.

?????????Python Social Auth ??????????????????????:

Weblate ?????????????? IDP ????????????*SOCIAL_AUTH_SAML_ENABLED_IDPS* ?? *weblate* ???????????

SAML ? XML ?????? URL ??`/accounts/metadata/saml/`?

????????????: `SOCIAL_AUTH_SAML_SP_ENTITY_ID`, `SOCIAL_AUTH_SAML_TECHNICAL_CONTACT`, `SOCIAL_AUTH_SAML_SUPPORT_CONTACT`

???:

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.email.EmailAuth",
    "social_core.backends.saml.SAMLAuth",
    "weblate.accounts.auth.WeblateUserBackend",
)

# Social auth backends setup
SOCIAL_AUTH_SAML_SP_ENTITY_ID = f"https://{SITE_DOMAIN}/accounts/metadata/
↪saml/"
SOCIAL_AUTH_SAML_SP_PUBLIC_CERT = "-----BEGIN CERTIFICATE-----"
SOCIAL_AUTH_SAML_SP_PRIVATE_KEY = "-----BEGIN PRIVATE KEY-----"
SOCIAL_AUTH_SAML_ENABLED_IDPS = {
    "weblate": {
        "entity_id": "https://idp.testshib.org/idp/shibboleth",
        "url": "https://idp.testshib.org/idp/profile/SAML2/Redirect/SSO",
        "x509cert": "MIIEDjCCAvagAwIBAgIBADA ... 8Bbnl+ev0peYzxFyF5sQA==",
        "attr_name": "full_name",
        "attr_username": "username",
        "attr_email": "email",
    }
}
SOCIAL_AUTH_SAML_ORG_INFO = {
    "en-US": {
        "name": "example",
        "displayname": "Example Inc.",
        "url": "http://example.com"
    }
}
SOCIAL_AUTH_SAML_TECHNICAL_CONTACT = {
    "givenName": "Tech Gal",
    "emailAddress": "technical@example.com"
}
SOCIAL_AUTH_SAML_SUPPORT_CONTACT = {
    "givenName": "Support Guy",
    "emailAddress": "support@example.com"
}
```

The default configuration extracts user details from following attributes, configure your IDP to provide them:

??	SAML ?? URI
?????	`urn:oid:2.5.4.3`
?? (?)	`urn:oid:2.5.4.42`
?	`urn:oid:2.5.4.4`
?????????	`urn:oid:0.9.2342.19200300.100.1.3`
?????	`urn:oid:0.9.2342.19200300.100.1.1`

???: ????? Docker ???????`weblate` ?????????? IDP ??????????IDP ????????? *Relay* ??????????????????????

??:

Configuring SAML in Docker?SAML

LDAP □□

LDAP□□□□*django-auth-ldap* □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□:

```
# Using PyPI
pip install django-auth-ldap>=1.3.0

# Using apt-get
apt-get install python-django-auth-ldap
```

□□□: □□□□□□□□□Docker □□□□□□□□□□□□□□□□□: *Docker □□□□□□□□□□□□□*

□□: Python LDAP 3.1.0 □□ AttributeError: 'module' object has no attribute '_trace_level' □□□□□□□□□□python-ldap □ 3.0.0 □□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□Django □□□□□□□□□□□:

```
# Add LDAP backed, keep Django one if you want to be able to sign in
# even without LDAP for admin account
AUTHENTICATION_BACKENDS = (
    "django_auth_ldap.backend.LDAPBackend",
    "weblate.accounts.auth.WeblateUserBackend",
)

# LDAP server address
AUTH_LDAP_SERVER_URI = "ldaps://ldap.example.net"

# DN to use for authentication
AUTH_LDAP_USER_DN_TEMPLATE = "cn=%(user)s,o=Example"
# Depending on your LDAP server, you might use a different DN
# like:
# AUTH_LDAP_USER_DN_TEMPLATE = 'ou=users,dc=example,dc=com'

# List of attributes to import from LDAP upon sign in
# Weblate stores full name of the user in the full_name attribute
AUTH_LDAP_USER_ATTR_MAP = {
    "full_name": "name",
    # Use the following if your LDAP server does not have full name
    # Weblate will merge them later
    # 'first_name': 'givenName',
    # 'last_name': 'sn',
    # Email is required for Weblate (used in VCS commits)
    "email": "mail",
}

# Hide the registration form
REGISTRATION_OPEN = False
```

□□: `AUTHENTICATION_BACKENDS` □□□□□ `'social_core.backends.email.EmailAuth'` □□□□□□□□□□□□□□□□□□□□□□□□□□ Weblate □□ `accounts.auth.WeblateUserBackend'` □□□ *createadmin*□□

???? ?????????

???:

```
import ldap
from django_auth_ldap.config import LDAPSearch

AUTH_LDAP_BIND_DN = ""
AUTH_LDAP_BIND_PASSWORD = ""
AUTH_LDAP_USER_SEARCH = LDAPSearch(
    "ou=users,dc=example,dc=com", ldap.SCOPE_SUBTREE, "(uid=%(user)s)"
)
```

Active Directory ???

```
import ldap
from django_auth_ldap.config import LDAPSearch,␣
↪NestedActiveDirectoryGroupType

AUTH_LDAP_BIND_DN = "CN=ldap,CN=Users,DC=example,DC=com"
AUTH_LDAP_BIND_PASSWORD = "password"

# User and group search objects and types
AUTH_LDAP_USER_SEARCH = LDAPSearch(
    "CN=Users,DC=example,DC=com", ldap.SCOPE_SUBTREE, "(sAMAccountName=
↪%(user)s)"
)

# Make selected group a superuser in Weblate
AUTH_LDAP_USER_FLAGS_BY_GROUP = {
    # is_superuser means user has all permissions
    "is_superuser": "CN=weblate_AdminUsers,OU=Groups,DC=example,DC=com",
}

# Map groups from AD to Weblate
AUTH_LDAP_GROUP_SEARCH = LDAPSearch(
    "OU=Groups,DC=example,DC=com", ldap.SCOPE_SUBTREE, "(objectClass=group)
↪"
)
AUTH_LDAP_GROUP_TYPE = NestedActiveDirectoryGroupType()
AUTH_LDAP_FIND_GROUP_PERMS = True

# Optionally enable group mirroring from LDAP to Weblate
# AUTH_LDAP_MIRROR_GROUPS = True
```

??:

Django Authentication Using LDAP?Authentication

CAS ??

CAS ????*django-cas-ng* ??????????????????????

???? 1?CAS ??CAS ????????????????????????CAS v 1 ???????????????????????? CAS v 2 ??????????

???? 2?Weblate ?????? CAS ????????????????

django-cas-ng ??????????:

```
pip install django-cas-ng
```

????????????????????settings.py ?????????? Django ????????????????:

```
# Add CAS backed, keep the Django one if you want to be able to sign in
# even without LDAP for the admin account
AUTHENTICATION_BACKENDS = (
```

(??????????)

```
    "django_cas_ng.backends.CASBackend",
    "weblate.accounts.auth.WeblateUserBackend",
)

# CAS server address
CAS_SERVER_URL = "https://cas.example.net/cas/"

# Add django_cas_ng somewhere in the list of INSTALLED_APPS
INSTALLED_APPS = (..., "django_cas_ng")
```

[illegible]signal [illegible] *django-cas-ng* [illegible] signal [illegible] signal [illegible]:

[illegible]`django.apps.AppConfig.ready()` [illegible]

[illegible] `urls.py` [illegible]

```
from django_cas_ng.signals import cas_user_authenticated
from django.dispatch import receiver


@receiver(cas_user_authenticated)
def update_user_email_address(sender, user=None, attributes=None,␣
↪**kwargs):
    # If your CAS server does not always include the email attribute
    # you can wrap the next two lines of code in a try/catch block.
    user.email = attributes["email"]
    user.save()
```

[illegible]:

Django CAS NG

[illegible] Django [illegible]

[illegible]Django [illegible] Weblate [illegible]Weblate user backend [illegible]

[illegible]:

LDAP [illegible]CAS [illegible]

[illegible] `AUTHENTICATION_BACKENDS` [illegible] `INSTALLED_APPS` [illegible]:

```
AUTHENTICATION_BACKENDS = (
    # Add authentication backend here
    "weblate.accounts.auth.WeblateUserBackend",
)

INSTALLED_APPS += (
    # Install authentication app here
)
```

[illegible]

Weblate [illegible]

[illegible] 3.0 [illegible]: Weblate 3.0 [illegible]Django [illegible] Weblate [illegible]

[illegible]

[illegible] Weblate [illegible]Hosted Weblate [illegible]

[illegible]

[illegible]: [illegible] Hosted Weblate [illegible] Libre [illegible]

[illegible] *Access control* [illegible]

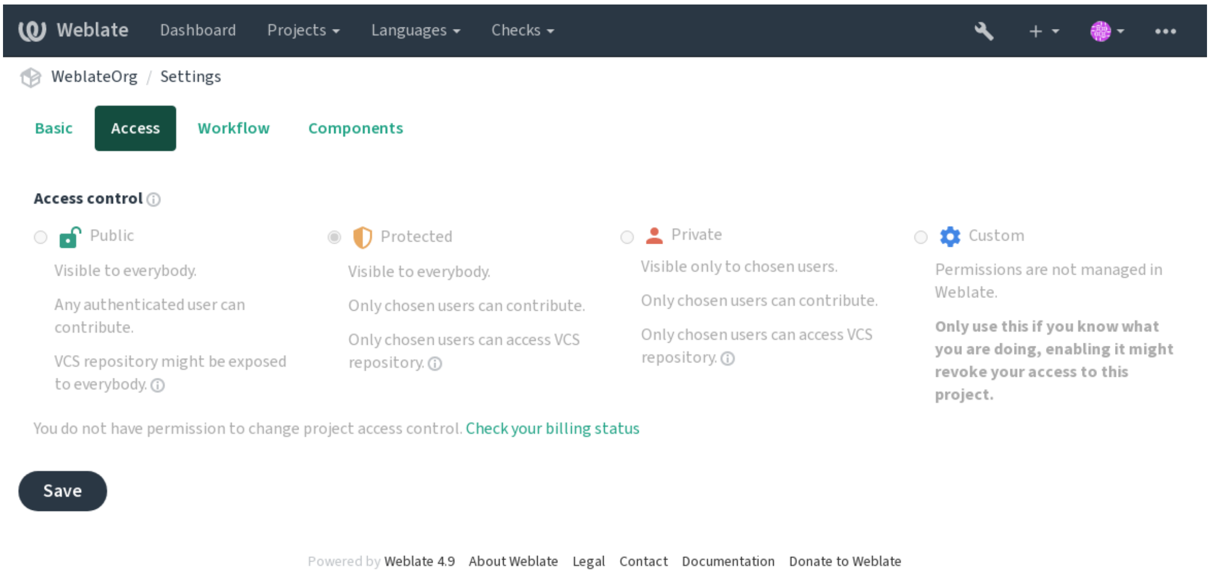
[illegible]

[illegible]

[illegible]

User management features will be disabled; by default all users are forbidden to performed any actions on the project. You will have to set up all the permissions using *[illegible]*.

Access control can be changed in the *Access* tab of the configuration (*Manage* ↓ *Settings*) of each respective project.



[illegible] *DEFAULT_ACCESS_CONTROL* [illegible]

[illegible]: [illegible]

[illegible]: *Public*[illegible]` Protected`[illegible] `Private`[illegible]Weblate[illegible] :ref:`custom settings <custom-acl>`[illegible]

[illegible]: *[illegible]* [illegible]Weblate [illegible] special groups [illegible]Weblate [illegible]

[illegible]:

[illegible]

[illegible]

[illegible] [illegible]: *[illegible]* [illegible]

Public [illegible] *Protected* [illegible] *Private* [illegible]:

[illegible]

[illegible]

Protected [illegible] *Private* [illegible]:

[illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

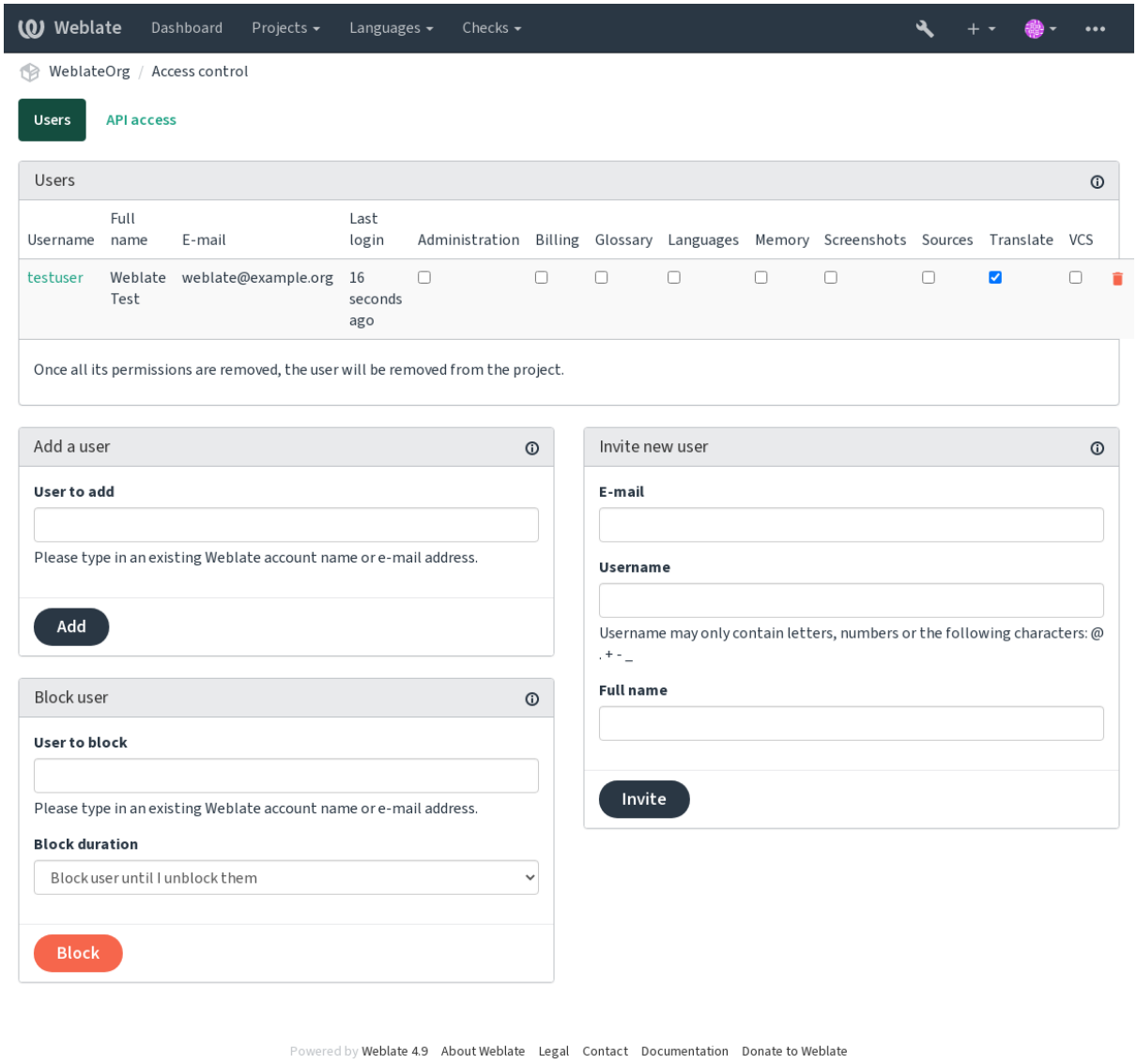
[illegible]

VCS [illegible]

[illegible]: *[illegible]*

Unfortunately, it's not possible to change this predefined set of groups for now. Also this way it's not possible to give just some additional permissions to all users.

[illegible]: For non-*Custom* access control an instance of each group described above is actually defined for each project. The actual name of those groups will be `Project@Group`, also displayed in the Django admin interface this way. Although they can't be edited from Weblate user-interface.



These features are available on the *Access control* page, which can be accessed from the project's menu *Manage* ↓ *Users*.

??????????

Also, besides adding an existing user to the project, it is possible to invite new ones. Any new user will be created immediately, but the account will remain inactive until signing in with a link in the invitation sent via an e-mail. It is not required to have any site-wide privileges in order to do so, access management permission on the project's scope (e.g. a membership in the *Administration* group) would be sufficient.

???: If the invited user missed the validity of the invitation, they can set their password using invited e-mail address in the password reset form as the account is created already.

????? 3.11 ???: ??

The same kind of invitations are available site-wide from the *management interface* on the *Users* tab.

[illegible]

[illegible] 4.7 [illegible].

In case some users behave badly in your project, you have an option to block them from contributing. The blocked user still will be able to see the project if he has permissions for that, but he won't be able to contribute.

[illegible]

Weblate [illegible] [illegible] *[illegible]* [illegible] *manage users* [illegible]

By default this prevents Weblate from granting access provided by *Users* and *Viewers default groups* due to these groups' own configuration. This doesn't prevent you from granting permissions to those projects site-wide by altering default groups, creating a new one, or creating additional custom settings for individual component as described in *[illegible]* below.

One of the main benefits of managing permissions through the Weblate user interface is that you can delegate it to other users without giving them the superuser privilege. In order to do so, add them to the *Administration* group of the project.

[illegible]

[illegible]: [illegible] Hosted Weblate [illegible] Libre [illegible]

[illegible] *[illegible]* [illegible]

The most powerful features of the Weblate's access control system for now are available only through the *Django admin interface*. You can use it to manage permissions of any project. You don't necessarily have to switch it to *Custom access control* to utilize it. However you must have superuser privileges in order to use it.

If you are not interested in details of implementation, and just want to create a simple-enough configuration based on the defaults, or don't have a site-wide access to the whole Weblate installation (like on Hosted Weblate), please refer to the *[illegible]* section.

[illegible]

This section contains an overview of some common configurations you may be interested in.

[illegible]

To manage permissions for a whole instance at once, add users to appropriate *default groups*:

Users (this is done by default by the *automatic group assignment*).

Reviewers (if you are using *review workflow* with dedicated reviewers).

Managers (if you want to delegate most of the management operations to somebody else).

You should keep all projects configured as *Public* (see *[illegible]*), otherwise the site-wide permissions provided by membership in the *Users* and *Reviewers* groups won't have any effect.

You may also grant some additional permissions of your choice to the default groups. For example, you may want to give a permission to manage screenshots to all the *Users*.

You can define some new custom groups as well. If you want to keep managing your permissions site-wide for these groups, choose an appropriate value for the *Project selection* (e.g. *All projects* or *All public projects*).

[illegible]

You can create your own dedicated groups to manage permissions for distinct objects such as languages, components, and projects. Although these groups can only grant additional privileges, you can't revoke any permission granted by site-wide or per-project groups by adding another custom group.

[illegible]:

If you want (for whatever reason) to allow translation to a specific language (lets say *Czech*) only to a closed set of reliable translators while keeping translations to other languages public, you will have to:

1. Remove the permission to translate *Czech* from all the users. In the default configuration this can be done by altering the *Users default group*.

Table2[illegible] *[illegible]*

[illegible]	*[illegible]*
[illegible]	All but *Czech*

2. Add a dedicated group for *Czech* translators.

Table3[illegible] *[illegible]*

[illegible]	*[illegible]*
[illegible]	*[illegible]*
[illegible]	*[illegible]*
[illegible]	*[illegible]*

3. Add users you wish to give the permissions to into this group.

As you can see, permissions management this way is powerful, but can be quite a tedious job. You can't delegate it to another user, unless granting superuser permissions.

[illegible]

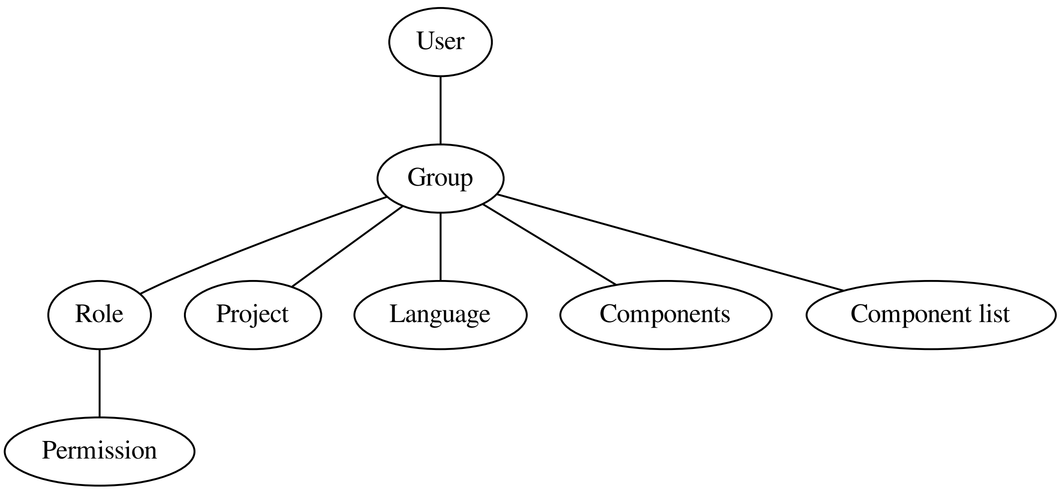
[illegible]:

Weblate [illegible]

[illegible]

[illegible]

[illegible]



[illegible]: A group can have no roles assigned to it, in that case access to browse the project by anyone is assumed (see below).

[illegible]

[illegible] *[illegible]* [illegible]: *[illegible]*

[illegible]

[illegible]

[illegible]

The scope of the permission assigned by the roles in the groups are applied by the following rules:

If the group specifies any *Component list*, all the permissions given to members of that group are granted for all the components in the component lists attached to the group, and an access with no additional permissions is granted for all the projects these components are in. *Components* and *Projects* are ignored.

If the group specifies any *Components*, all the permissions given to the members of that group are granted for all the components attached to the group, and an access with no additional permissions is granted for all the projects these components are in. *Projects* are ignored.

Otherwise, if the group specifies any *Projects*, either by directly listing them or by having *Projects selection* set to a value like *All public projects*, all those permissions are applied to all the projects, which effectively grants the same permissions to access all projects *unrestricted components*.

The restrictions imposed by a group's *Languages* are applied separately, when it's verified if a user has an access to perform certain actions. Namely, it's applied only to actions directly related to the translation process itself like reviewing, saving translations, adding suggestions, etc.

[illegible]: *[illegible]* [illegible] *[illegible]* [illegible]

[illegible]:

Let's say there is a project `foo` with the components: `foo/bar` and `foo/baz` and the following group:

Table4Group *Spanish Admin-Reviewers*

[illegible]	*[illegible]*
[illegible]	foo/bar
[illegible]	*[illegible]*

Members of that group will have following permissions (assuming the default role settings):

General (browsing) access to the whole project `foo` including both components in it: `foo/bar` and `foo/baz`.

Review strings in `foo/bar` Spanish translation (not elsewhere).

Manage VCS for the whole `foo/bar` repository e.g. commit pending changes made by translators for all languages.

[illegible]

Django admin interface [illegible] *[illegible]* [illegible] *[illegible]* [illegible]

The most common use-case for the feature is to assign all new users to some default group. In order to do so, you will probably want to keep the default value (`^.*$`) in the regular expression field. Another use-case for this option might be to give some additional privileges to employees of your company by default. Assuming all of them use corporate e-mail addresses on your domain, this can be accomplished with an expression like `^.*@mycompany.com`.

[illegible]: [illegible] Weblate [illegible] *[illegible]* [illegible] *[illegible]* [illegible] `^$` [illegible]

[illegible]: As for now, there is no way to bulk-add already existing users to some group via the user interface. For that, you may resort to using the *REST API*.

□□□□□□□□□□□□□□□

After installation, a default set of groups is created (see □□□□□□).
□□□

□□□□□

□□□□□□□ [*Administration*, *Billing*]
□□□□□□□□□ [*Administration*]
□□□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
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□□□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
□□□□□□□□ [*Administration*, `Manage translation memory]
□□□□□□□□ [*Administration*, *Manage translation memory*]
□□□□□□□□□□□ [*Administration*]
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□□□□□□□□□□□□ [*Administration*, *Manage screenshots*]
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□□□□□□□□□□□ [*Administration*, *Edit source*]
□□□□□□□□ [*Administration*]
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Dismiss failing check [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
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□□□□□□ [*Administration*, *Review strings*]
□□□□□□□□□□□□ [*Administration*, *Review strings*]
□□□□□ [*Administration*, *Edit source*, *Power user*]
□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
□□□□□ [*Administration*, *Power user*]
□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
□□□□□□□□ [*Administration*, *Power user*, *Manage languages*]
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□□□□□□□□□□ [*Administration*, *Manage languages*]
Download translation file [*Administration*, *Edit source*, *Access repository*, *Power user*, *Review strings*, *Translate*, *Manage languages*]
□□□□□□□□□□□□ [*Administration*, *Manage languages*]
□□□□□□□□□□□□□□□□□ [*Administration*]
□□□□□□□□□□□□□□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
□□□□□□□□□□ [*Administration*, *Edit source*, *Power user*, *Review strings*, *Translate*]
□□□□□□□□□□□□□ [*Administration*, *Access repository*, *Power user*, *Manage repository*]

[illegible] [*Administration*, *Manage repository*]
[illegible] [*Administration*, *Manage repository*]
[illegible] [*Administration*, *Manage repository*]
upstream [illegible] [*Administration*, *Access repository*, *Power user*, *Manage repository*]
[illegible] [*Administration*, *Manage repository*]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] [illegible]

[illegible]: [illegible] Weblate [illegible]

[illegible]

[illegible] `setupgroups` [illegible] [illegible]
[illegible]
[illegible]: *ANONYMOUS_USER_NAME*)[illegible]
[illegible]
[illegible]: *Add suggestion*[illegible] *Access repository*
[illegible]
[illegible]*automatic group assignment* [illegible]
[illegible]: none
[illegible]
[illegible]*automatic group assignment* [illegible]
[illegible]: *Power user*
[illegible]: *[illegible]*[illegible]
[illegible]: *Review strings*
[illegible]
[illegible]: *Administration*

> **[illegible]:** [illegible] Weblate [illegible]

??????????

If you want to use your Weblate installation in a less public manner, i.e. allow new users on an invitational basis only, it can be done by configuring Weblate in such a way that only known users have an access to it. In order to do so, you can set *REGISTRATION_OPEN* to `False` to prevent registrations of any new users, and set *REQUIRE_LOGIN* to `/.*` to require logging-in to access all the site pages. This is basically the way to lock your Weblate installation.

???: You can use built-in *invitations* to add new users.

?????????

Translation organization

Weblate organizes translatable VCS content of project/components into a tree-like structure.

The bottom level object is *Project configuration*, which should hold all translations belonging together (for example translation of an application in several versions and/or accompanying documentation).

On the level above, *Component configuration*, which is actually the component to translate, you define the VCS repository to use, and the mask of files to translate.

Above *Component configuration* there are individual translations, handled automatically by Weblate as translation files (which match *File mask* defined in *Component configuration*) appear in the VCS repository.

Weblate supports a wide range of translation formats (both bilingual and monolingual ones) supported by Translate Toolkit, see *??????????*.

??: You can share cloned VCS repositories using *Weblate ??? URL*. Using this feature is highly recommended when you have many components sharing the same VCS. It improves performance and decreases required disk space.

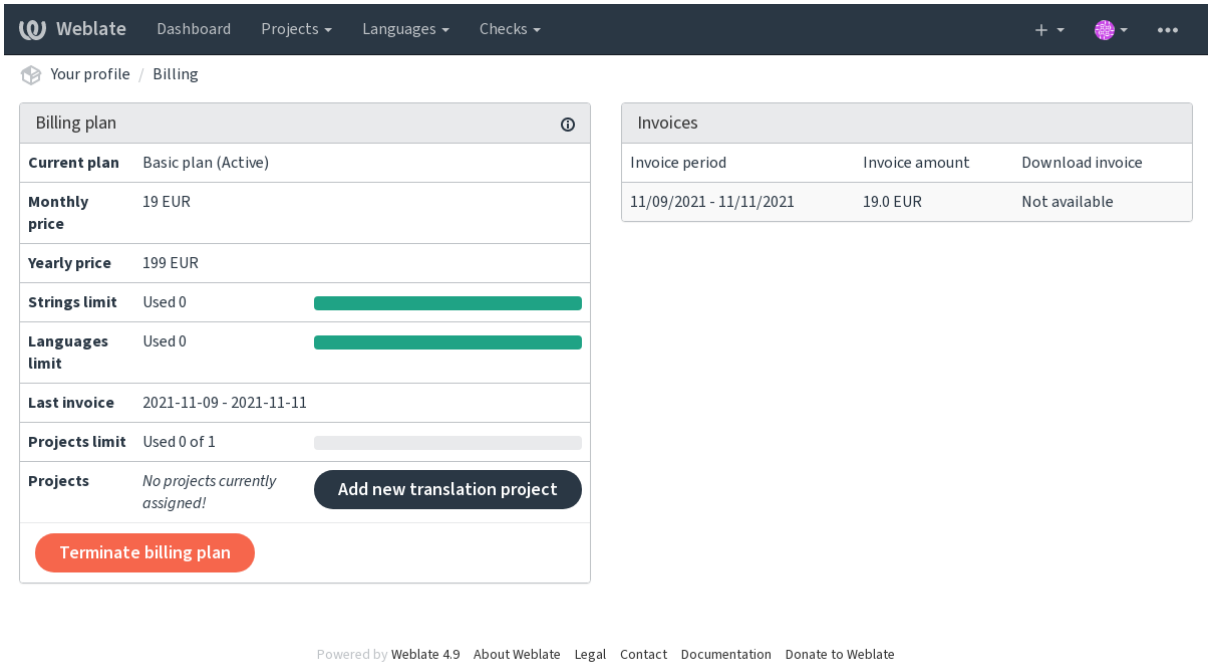
Adding translation projects and components

????? 3.2 ???: An interface for adding projects and components is included, and you no longer have to use *Django ?????*.

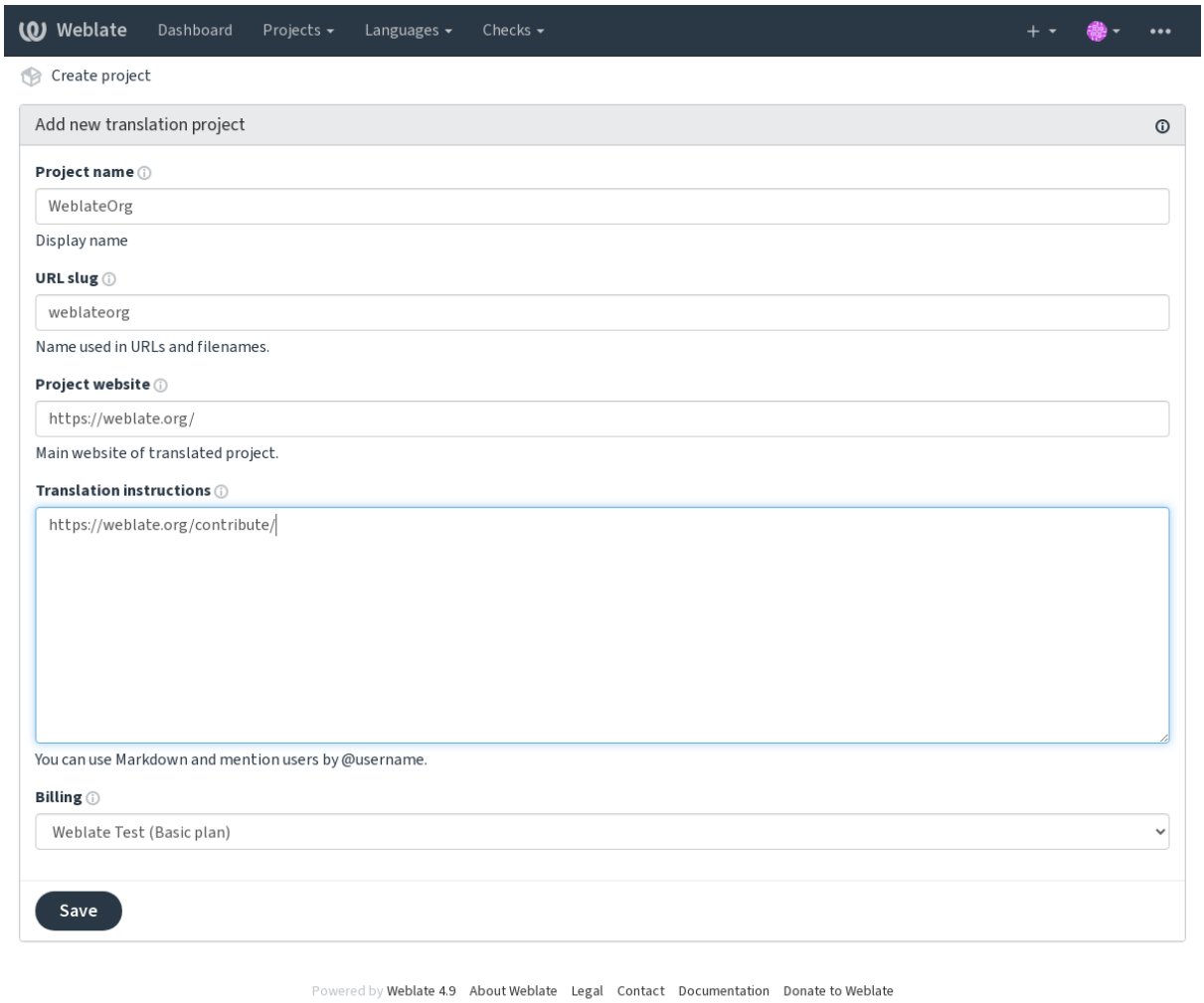
????? 3.4 ???: The process of adding components is now multi staged, with automated discovery of most parameters.

Based on your permissions, new translation projects and components can be created. It is always permitted for users with the *Add new projects* permission, and if your instance uses billing (e.g. like https://hosted.weblate.org/ see *??*), you can also create those based on your plans allowance from the user account that manages billing.

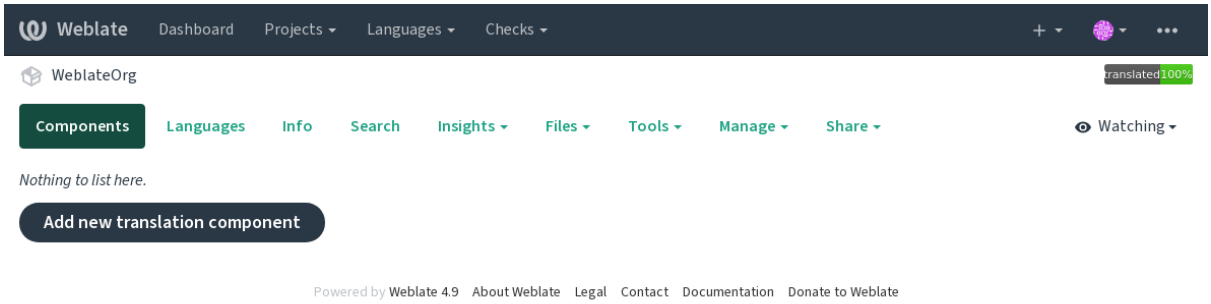
You can view your current billing plan on a separate page:



The project creation can be initiated from there, or using the menu in the navigation bar, filling in basic info about the translation project to complete addition of it:



After creating the project, you are taken directly to the project page:



Creating a new translation component can be initiated via a single click there. The process of creating a component is multi-staged and automatically detects most translation parameters. There are several approaches to creating component:

Creates component from remote version control repository.

Creates additional component to existing one by choosing different files.

Creates additional component to existing one, just for different branch.

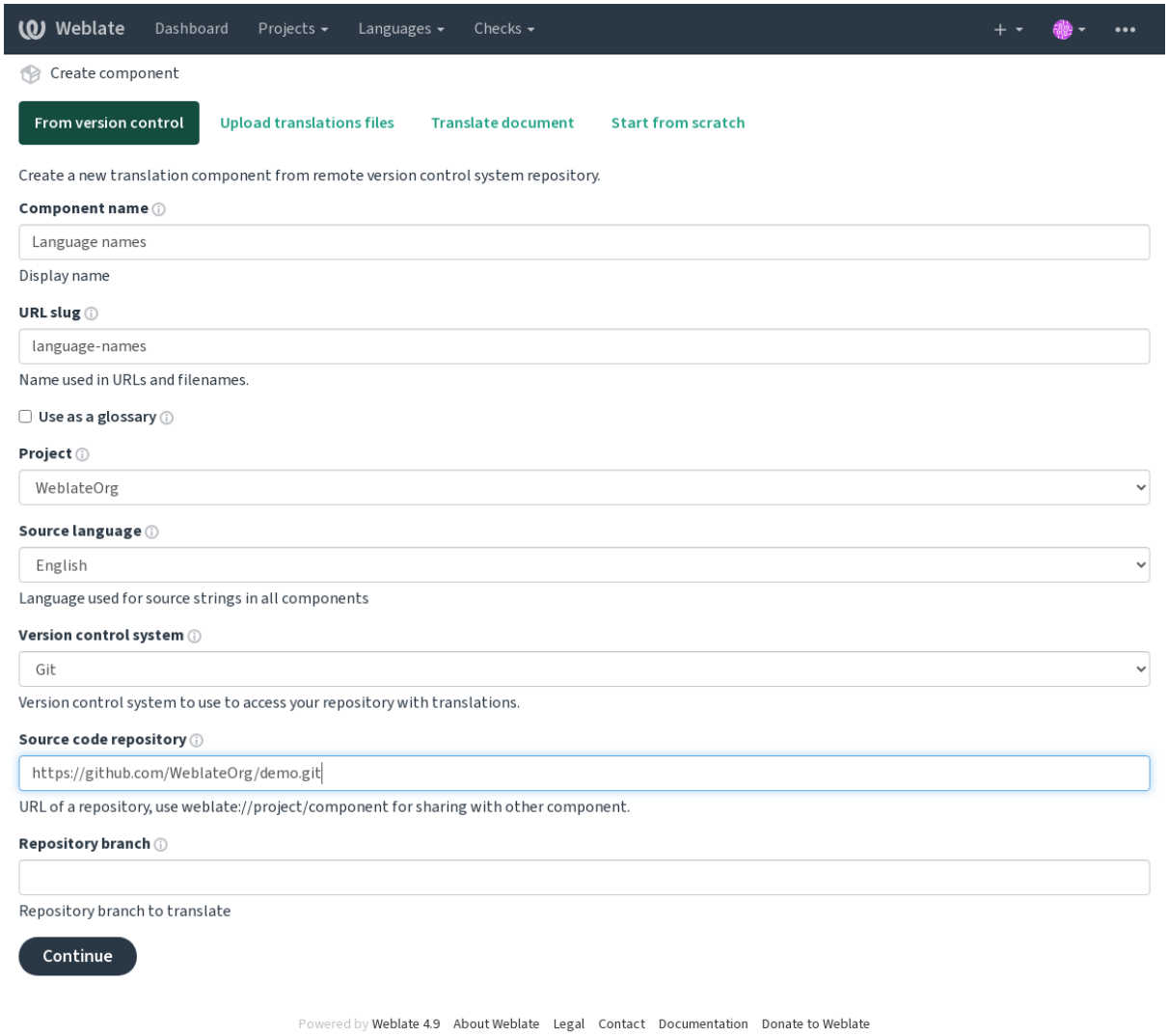
Upload translation files to Weblate in case you do not have version control or do not want to integrate it with Weblate. You can later update the content using the web interface or *Weblate REST API*.

Upload single document or translation file and translate that.

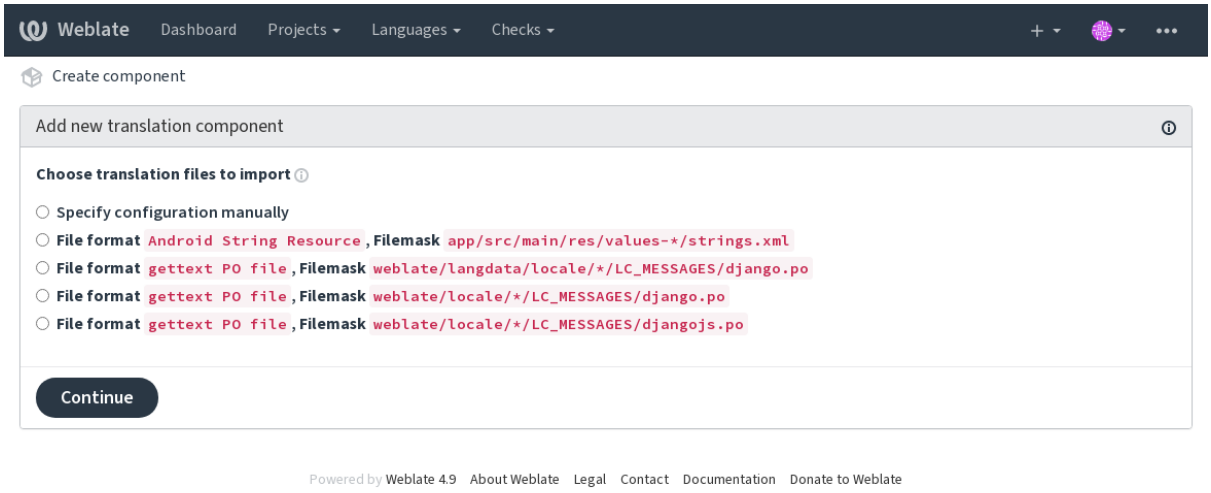
Create blank translation project and add strings manually.

Once you have existing translation components, you can also easily add new ones for additional files or branches using same repository.

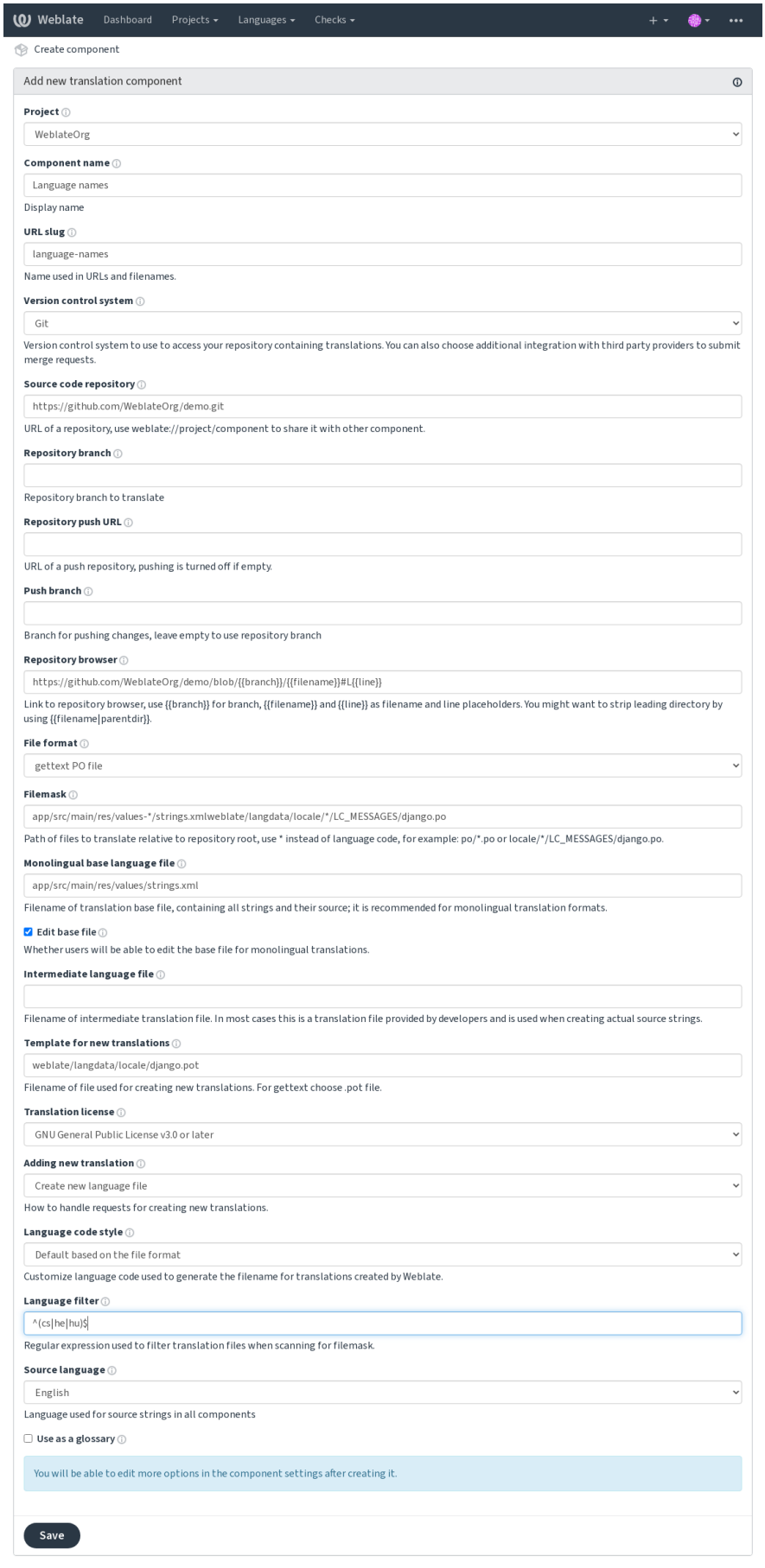
First you need to fill in name and repository location:



On the next page, you are presented with a list of discovered translatable resources:



As a last step, you review the translation component info and fill in optional details:


Weblate
Dashboard
Projects
Languages
Checks
Create component
Add new translation component
Project
WeblateOrg
Component name
Language names
Display name
URL slug
language-names
Name used in URLs and filenames.
Version control system
Git
Version control system to use to access your repository containing translations. You can also choose additional integration with third party providers to submit merge requests.
Source code repository
https://github.com/WeblateOrg/demo.git
URL of a repository, use weblate://project/component to share it with other component.
Repository branch
Repository branch to translate
Repository push URL
URL of a push repository, pushing is turned off if empty.
Push branch
Branch for pushing changes, leave empty to use repository branch
Repository browser
https://github.com/WeblateOrg/demo/blob/{{branch}}/{{filename}}#L{{line}}
Link to repository browser, use {{branch}} for branch, {{filename}} and {{line}} as filename and line placeholders. You might want to strip leading directory by using {{filename|parentdir}}.
File format
gettext PO file
Filemask
app/src/main/res/values-*/strings.xmlweblate/langdata/locale/*/LC_MESSAGES/django.po
Path of files to translate relative to repository root, use * instead of language code, for example: po/*.po or locale/*/LC_MESSAGES/django.po.
Monolingual base language file
app/src/main/res/values/strings.xml
Filename of translation base file, containing all strings and their source; it is recommended for monolingual translation formats.
Edit base file
Whether users will be able to edit the base file for monolingual translations.
Intermediate language file
Filename of intermediate translation file. In most cases this is a translation file provided by developers and is used when creating actual source strings.
Template for new translations
weblate/langdata/locale/django.pot
Filename of file used for creating new translations. For gettext choose .pot file.
Translation license
GNU General Public License v3.0 or later
Adding new translation
Create new language file
How to handle requests for creating new translations.
Language code style
Default based on the file format
Customize language code used to generate the filename for translations created by Weblate.
Language filter
^(cs|he|hu)$
Regular expression used to filter translation files when scanning for filemask.
Source language
English
Language used for source strings in all components
Use as a glossary
You will be able to edit more options in the component settings after creating it.
Save
Powered by Weblate 4.9 About Weblate Legal Contact Documentation Donate to Weblate

[illegible]:

Django [illegible], *Project configuration*, *Component configuration*

Project configuration

[illegible]

[illegible]:

/devel/integration

These basic attributes set up and inform translators of a project:

[illegible]

Verbose project name, used to display the project name.

URL [illegible]

Project name suitable for URLs.

[illegible] Web [illegible]

URL where translators can find more info about the project.

This is a required parameter unless turned off by *WEBSITE_REQUIRED*.

[illegible]

Text describing localization process in the project, and any other information useful for translators. Markdown can be used for text formatting or inserting links.

"Language-Team" [illegible]

Whether Weblate should manage the `Language-Team` header (this is a *GNU gettext* only feature right now).

[illegible]

Whether to use shared translation memory, see *[illegible]* for more details.

[illegible] *DEFAULT_SHARED_TM* [illegible]

[illegible]

Whether to contribute to shared translation memory, see *[illegible]* for more details.

[illegible] *DEFAULT_SHARED_TM* [illegible]

??????

Configure per project access control, see ?????????????? for more details.

Default value can be changed by `DEFAULT_ACCESS_CONTROL`.

??????

Enable review workflow for translations, see ??????.

??????????

Enable review workflow for source strings, see ?????.

??:

report-source?????

????????

Whether unauthenticated ????? are to be used for this repository.

??:

?????????,??????????????,???????????????????,?????

?????

Define language codes mapping when importing translations into Weblate. Use this when language codes are inconsistent in your repositories and you want to get a consistent view in Weblate or in case you want to use non-standard naming of your translation files.

The typical use case might be mapping American English to English: `en_US:en`

Multiple mappings to be separated by comma: `en_GB:en,en_US:en`

Using non standard code: `ia_FOO:ia`

???: The language codes are mapped when matching the translation files and the matches are case sensitive, so make sure you use the source language codes in same form as used in the filenames.

??:

?????????

Component configuration

A component is a grouping of something for translation. You enter a VCS repository location and file mask for which files you want translated, and Weblate automatically fetches from this VCS, and finds all matching translatable files.

??:

/devel/integration

You can find some examples of typical configurations in the ??????????.

??: It is recommended to keep translation components to a reasonable size - split the translation by anything that makes sense in your case (individual apps or addons, book chapters or websites).

Weblate easily handles translations with 10000s of strings, but it is harder to split work and coordinate among translators with such large translation components.

Should the language definition for a translation be missing, an empty definition is created and named as "cs_CZ (generated)". You should adjust the definition and report this back to the Weblate authors, so that the missing languages can be included in next release.

The component contains all important parameters for working with the VCS, and for getting translations out of it:

?????????

Verbose component name, used to display the component name.

???????? ????

Component name suitable for URLs.

Component project

Project configuration where the component belongs.

????????????

VCS to use, see *??????????* for details.

??:

Pushing changes from Weblate

?????????????

VCS repository used to pull changes.

??:

See *??????????* for more details on specifying URLs.

???: This can either be a real VCS URL or `weblate://project/component` indicating that the repository should be shared with another component. See *Weblate ??? URL* for more details.

????????? URL

Repository URL used for pushing. This setting is used only for *Git* and *Mercurial* and push support is turned off for these when this is empty.

??:

See *??????????* for more details on how to specify a repository URL and *Pushing changes from Weblate* for more details on pushing changes from Weblate.

????? ?????

URL of repository browser used to display source files (location of used messages). When empty, no such links will be generated. You can use *???????????????*.

For example on GitHub, use something like: `https://github.com/WeblateOrg/hello/blob/{{branch}}/{{filename}}#L{{line}}`

In case your paths are relative to different folder (path contains `..`), you might want to strip leading directory by `parentdir` filter (see *???????????????*): `https://github.com/WeblateOrg/hello/blob/{{branch}}/{{filename|parentdir}}#L{{line}}`

[illegible] URL

URL where changes made by Weblate are exported. This is important when [illegible] is not used, or when there is a need to manually merge changes. You can use *Git exporter* to automate this for Git repositories.

[illegible]

Which branch to checkout from the VCS, and where to look for translations.

[illegible] push

Branch for pushing changes, leave empty to use [illegible].

[illegible]: This is currently only supported for Git, GitLab and GitHub, it is ignored for other VCS integrations.

[illegible]:

Pushing changes from Weblate

File mask

Mask of files to translate, including path. It should include one "*" replacing language code (see [illegible] for info on how this is processed). In case your repository contains more than one translation file (e.g. more gettext domains), you need to create a component for each of them.

[illegible]: `po/*.po` [illegible] `locale/*/LC_MESSAGES/django.po`[illegible]

In case your filename contains special characters such as `[`, `]`, these need to be escaped as `[[]` or `[]]`.

[illegible]:

[illegible] *What does mean "There are more files for the single language (en)"?*

[illegible]

Base file containing string definitions for [illegible].

[illegible]:

[illegible] *What does mean "There are more files for the single language (en)"?*

[illegible]

Whether to allow editing the base file for [illegible].

[illegible]

Intermediate language file for [illegible]. In most cases this is a translation file provided by developers and is used when creating actual source strings.

When set, the source strings are based on this file, but all other languages are based on [illegible]. In case the string is not translated into the source langugage, translating to other languages is prohibited. This provides [illegible].

[illegible]:

[illegible] [illegible] *What does mean "There are more files for the single language (en)"?*

[illegible]

Base file used to generate new translations, e.g. `.pot` file with gettext.

[illegible]: In many monolingual formats Weblate starts with blank file by default. Use this in case you want to have all strings present with empty value when creating new translation.

[illegible]:

adding-translation[illegible][illegible][illegible][illegible]*What does mean "There are more files for the single language (en)"?*

[illegible]

Translation file format, see also *[illegible]*.

[illegible]

Email address used for reporting upstream bugs. This address will also receive notification about any source string comments made in Weblate.

[illegible]

You can turn off propagation of translations to this component from other components within same project. This really depends on what you are translating, sometimes it's desirable to have make use of a translation more than once.

It's usually a good idea to turn this off for monolingual translations, unless you are using the same IDs across the whole project.

Default value can be changed by *`DEFAULT_TRANSLATION_PROPAGATION`*.

[illegible]:

Keeping translations same across components

[illegible]

Whether translation suggestions are accepted for this component.

[illegible]

Turns on vote casting for suggestions, see *[illegible]*.

[illegible]

Automatically accept voted suggestions, see *[illegible]*.

[illegible]

[illegible] Weblate [illegible]: *[illegible]*

?????

List of checks which can not be ignored, see *?????*.

??: Enforcing the check does not automatically enable it, you still should enabled it using *??????????????* in *?????* or *Additional info on source strings*.

?????????

License of the translation (does not need to be the same as the source code license).

????????

????????????????????????????????????

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How to handle requests for creation of new languages. Available options:

User can select desired language and the project maintainers will receive a notification about this. It is up to them to add (or not) the language to the repository.

User is presented a link to page which describes process of starting new translations. Use this in case more formal process is desired (for example forming a team of people before starting actual translation).

User can select language and Weblate automatically creates the file for it and translation can begin.

There will be no option for user to start new translation.

???: The project admins can add new translations even if it is disabled here when it is possible (either *??????????????* or the file format supports starting from an empty file).

??:

adding-translation?*??????????*

??????

????? 4.5 ???.

Configures whether users in Weblate will be allowed to add new strings and remove existing ones. Adjust this to match your localization workflow - how the new strings are supposed to be introduced.

For bilingual formats, the strings are typically extracted from the source code (for example by using **xgettext**) and adding new strings in Weblate should be disabled (they would be discarded next time you update the translation files). In Weblate you can manage strings for every translation and it does not enforce the strings in all translations to be consistent.

For monolingual formats, the strings are managed only on source language and are automatically added or removed in the translations. The strings appear in the translation files once they are translated.

??:

*??????????????????*adding-new-strings?*POST /api/translations/(string:project)/(string:component)/(string:language)/units/*

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Weblate ??

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You can configure how updates from the upstream repository are handled. This might not be supported for some VCSs. See *Merge or rebase* for more details.

Default value can be changed by `DEFAULT_MERGE_STYLE`.

Commit, add, delete, merge and addon messages

Message used when committing a translation, see *????????????????*.

???????????????? `DEFAULT_ADD_MESSAGE`?`DEFAULT_ADDON_MESSAGE`?`DEFAULT_COMMIT_MESSAGE`?`DEFAULT_`

????????????????

Whether committed changes should be automatically pushed to the upstream repository. When enabled, the push is initiated once Weblate commits changes to its underlying repository (see *Lazy commits*). To actually enable pushing *Repository push URL* has to be configured as well.

????????????????

Sets how old (in hours) changes have to be before they are committed by background task or the `commit_pending` management command. All changes in a component are committed once there is at least one change older than this period.

Default value can be changed by `COMMIT_PENDING_HOURS`.

???: There are other situations where pending changes might be committed, see *Lazy commits*.

?????????

Locks the component (and linked components, see *Weblate ??? URL*) upon the first failed push or merge into its upstream repository, or pull from it. This avoids adding another conflicts, which would have to be resolved manually.

The component will be automatically unlocked once there are no repository errors left.

??????

Language used for source strings. Change this if you are translating from something else than English.

???: In case you are translating bilingual files from English, but want to be able to do fixes in the English translation as well, choose *English (Developer)* as a source language to avoid conflict between the name of the source language and the existing translation.

For monolingual translations, you can use intermediate translation in this case, see *?????????*.

[illegible]

[illegible]Weblate [illegible]

[illegible]: You need to list language codes as they appear in the filename.

Some examples of filtering:

Filter description	[illegible]
Selected languages only	`^(cs|de|es)$`
Exclude languages	`^(?!(it|fr)$).+$`
Filter two letter codes only	`^..$`
Exclude non language files	`^(?!(blank)$).+$`
Include all files (default)	`^[^.]+$`

[illegible]

[illegible]: variants[illegible]

[illegible]: [illegible]Weblate [illegible]

[illegible]:

Does Weblate support other VCSes than Git and Mercurial?[illegible]alerts

[illegible]

[illegible]

[illegible]

[illegible]

Restricting access at a component, or component-list level takes over access permission to a component, regardless of project-level permissions. You will have to grant access to it explicitly. This can be done through granting access to a new user group and putting users in it, or using the default *custom* or *private* access control groups.

[illegible] *DEFAULT_RESTRICTED_COMPONENT* [illegible]

[illegible]: [illegible] — [illegible]

[illegible]

[illegible]

[illegible]: [illegible]

??????????

?????? 4.5 ???.

??????????????????????????????*??????* ??????????????????????????

The glossary will be accessible in all projects defined by *??????????*.

It is recommended to enable *???????* on glossaries in order to allow adding new words to them.

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Display color for a glossary used when showing word matches.

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Weblate ?? The Django Template Language ??????????????????????

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???????parentdir ????????????????????????????????: `{{filename|parentdir}}`

????????????????:

```
{{ component|title }}
```

[illegible]:

```
{% if stats.translated_percent > 80 %}Well translated!{% endif %}
```

[illegible]:

```
{% replace component "-" " " %}
```

[illegible]:

```
{% replace component|capfirst "-" " " %}
```

[illegible]:

```
Directory of a file: {{ filename|dirname }}
File without extension: {{ filename|stripext }}
File in parent dir: {{ filename|parentdir }}
It can be used multiple times:  {{ filename|parentdir|parentdir }}
```

...[illegible] Django [illegible]

[illegible]

VCS [illegible] Weblate [illegible]:

[illegible]

[illegible]Weblate [illegible]
[illegible]:

[illegible] [illegible] Celery [illegible]: *Celery [illegible] [illegible]* [illegible]

[illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible]

[illegible]

[illegible] [illegible]

[illegible]—[illegible] Weblate [illegible]

CPU [illegible] [illegible]: *Celery [illegible] [illegible]* [illegible]

[illegible]

[illegible] [illegible] *CHECK_LIST* [illegible]

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??????????????????????: ???? gettext ???????? Android ??
import_project ??? *import_json* ????????*??????????????* ??????????????????????????????

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??*import_project* ??? *import_json* ??????????

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?????????Weblate ???????????? ISO 639-1 ??????????????????????????????????????

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??????????????????????????? -- `cs_CZ` ????? `cs` ?????

??1 ?? `xx_XX` ??????*xx_XX (generated)* ??: *????????* ????????????????????: *Weblate ????* ???????????????? Weblate ????????????????

???: ????????????????????????????*????????* ??

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????????????????????????`/languages/` URL??????????

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? 600 ???????? Weblate ????????????????????????????????????Weblate ????????????????????????????????????
`weblate migrate` ????????????????: *????????????????* ????????????????????Weblate ????????????????????????????????????

?????? *`UPDATE_LANGUAGES`* ????????????????*`setuplang`* ???????Weblate ??

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Extending built-in language definitions

[illegible]

[illegible] Weblate [illegible]

[illegible]:

[illegible]

[illegible]

[illegible]:

[illegible]

[illegible] Weblate [illegible] ISO 639-1 [illegible] 2 [illegible] 2 [illegible] ISO 639-2 [illegible] ISO 639-3 [illegible] BCP 47 [illegible]

[illegible]:

[illegible]

[illegible]

[illegible] Weblate [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Gettext [illegible]

[illegible]:

[illegible] GNU gettext utilities: Plural forms [illegible] Language Plural Rules by the Unicode Consortium

[illegible]

[illegible] 2.18 [illegible]: 2.18 [illegible]

Weblate [illegible]

[illegible]: *Android string resources* [illegible]: *GNU gettext* [illegible]: *JSON files* [illegible]

Component configuration [illegible] *[illegible]* [illegible] Weblate [illegible]

[illegible] [illegible]

[illegible] [illegible]:

[illegible] POSIX [illegible]

[illegible] gettext [illegible] `pt_BR` [illegible]

[illegible] POSIX [illegible]: `cs_CZ` [illegible]

[illegible] Web [illegible] `pt-BR` [illegible]

[illegible] BCP [illegible]: `cs-CZ` [illegible]

Android [illegible] `pt-rBR` [illegible]

Java □□□—□□□□□□□□□□□ □□□□□□□□□ BCP□

□□□□*□□□□□* □□□□□□□□□□□□□□□□□□□□□□□□□

□□: Weblate □□

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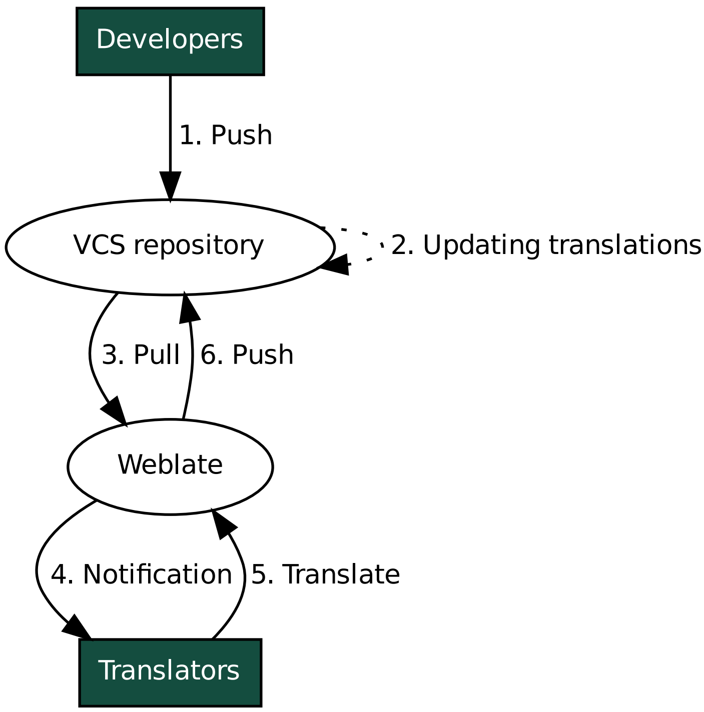
/devel/integration □□□□□□□□ Weblate □□□□□□□□□□□□□□□□□□□□□□□□

This is the process:

1. Developers make changes and push them to the VCS repository.
2. Optionally the translation files are updated (this depends on the file format, see *Why does Weblate still show old translation strings when I've updated the template?*).
3. Weblate pulls changes from the VCS repository, see *Updating repositories*.
4. Once Weblate detects changes in translations, translators are notified based on their subscription settings.
5. Translators submit translations using the Weblate web interface, or upload offline changes.
6. Once the translators are finished, Weblate commits the changes to the local repository (see *Lazy commits*) and pushes them back if it has permissions to do so (see *Pushing changes from Weblate*).



Updating repositories

You should set up some way of updating backend repositories from their source.

□□□□□ □□□□□□□□□□□□□□□□□ □□□□□□ □□□□:

Automatically receiving changes from GitHub

Automatically receiving changes from GitLab

Automatically receiving changes from Bitbucket

Pagure □□□□□□□□□□□

Automatically receiving changes from Azure Repos

□□□□□□□□□□□□□ *Weblate □ REST API* □□□□ *Weblate □□□□□□* □□□□□□□□□□□□□□□□

`AUTO_UPDATE` □□□□□□□Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

`updategit` □□□□□□□□□□□□□□□□□ `--all` □□□□□□□□□□□

Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□: *□□□□□*

Avoiding merge conflicts

The merge conflicts from Weblate arise when same file was changed both in Weblate and outside it. There are two approaches to deal with that - avoid edits outside Weblate or integrate Weblate into your updating process, so that it flushes changes prior to updating the files outside Weblate.

The first approach is easy with monolingual files - you can add new strings within Weblate and leave whole editing of the files there. For bilingual files, there is usually some kind of message extraction process to generate translatable files from the source code. In some cases this can be split into two parts - one for the extraction generates template (for example gettext POT is generated using **xgettext**) and then further process merges it into actual translations (the gettext PO files are updated using **msgmerge**). You can perform the second step within Weblate and it will make sure that all pending changes are included prior to this operation.

The second approach can be achieved by using *Weblate □ REST API* to force Weblate to push all pending changes and lock the translation while you are doing changes on your side.

The script for doing updates can look like this:

```
# Lock Weblate translation
wlc lock
# Push changes from Weblate to upstream repository
wlc push
# Pull changes from upstream repository to your local copy
git pull
# Update translation files, this example is for Django
./manage.py makemessages --keep-pot -a
git commit -m 'Locale updates' -- locale
# Push changes to upstream repository
git push
# Tell Weblate to pull changes (not needed if Weblate follows your repo
# automatically)
wlc pull
# Unlock translations
wlc unlock
```

If you have multiple components sharing same repository, you need to lock them all separately:

```
wlc lock foo/bar
wlc lock foo/baz
wlc lock foo/baj
```

□□: The example uses *Weblate □□□□□□*, which needs configuration (API keys) to be able to control Weblate remotely. You can also achieve this using any HTTP client instead of wlc, e.g. curl, see *Weblate □ REST API*.

□□:

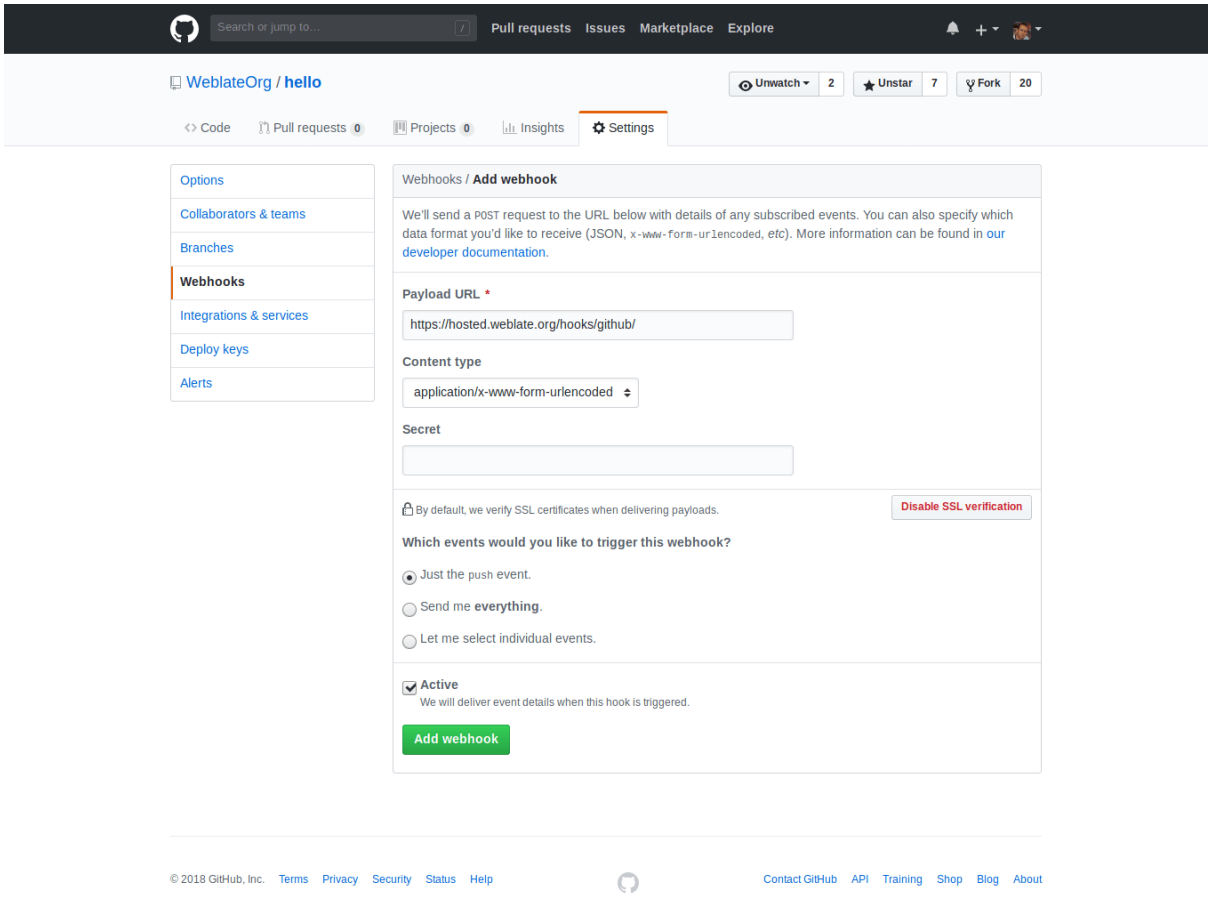
Weblate □□□□□□

Automatically receiving changes from GitHub

Weblate comes with native support for GitHub.

If you are using Hosted Weblate, the recommended approach is to install the Weblate app, that way you will get the correct setup without having to set much up. It can also be used for pushing changes back.

To receive notifications on every push to a GitHub repository, add the Weblate Webhook in the repository settings (*Webhooks*) as shown on the image below:



For the payload URL, append `/hooks/github/` to your Weblate URL, for example for the Hosted Weblate service, this is `https://hosted.weblate.org/hooks/github/`.

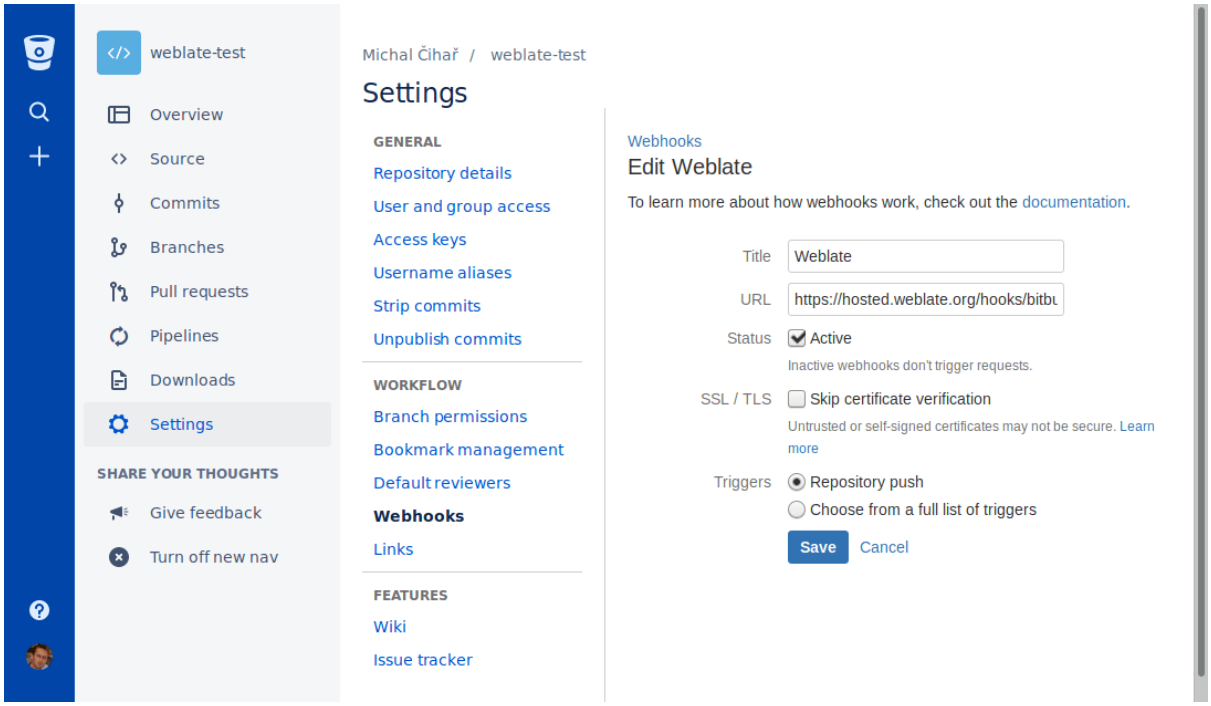
You can leave other values at default settings (Weblate can handle both content types and consumes just the *push* event).

??:

`POST /hooks/github/`?Hosted Weblate ??????????

Automatically receiving changes from Bitbucket

Weblate has support for Bitbucket webhooks, add a webhook which triggers upon repository push, with destination to `/hooks/bitbucket/` URL on your Weblate installation (for example `https://hosted.weblate.org/hooks/bitbucket/`).



□□:

POST /hooks/bitbucket/□Hosted Weblate □□□□□□□□□□□□

Automatically receiving changes from GitLab

Weblate has support for GitLab hooks, add a project webhook with destination to `/hooks/gitlab/` URL on your Weblate installation (for example `https://hosted.weblate.org/hooks/gitlab/`).

□□:

POST /hooks/gitlab/□Hosted Weblate □□□□□□□□□□□□

Pagure □□□□□□□□□□□□□

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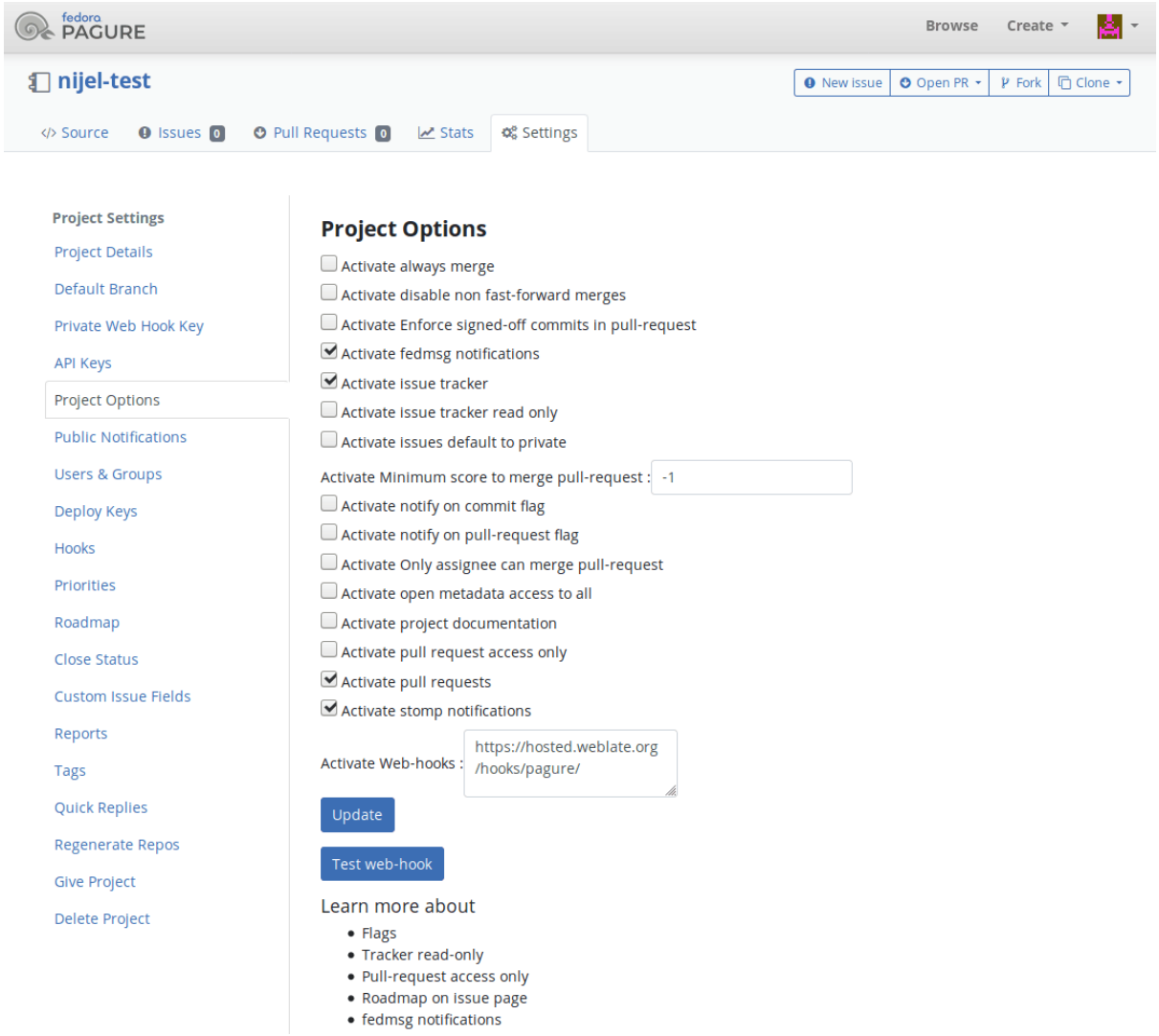
Weblate □□Pagure □□□□□□□□□□□□□□□□□□□ Weblate □□□□□□□□□ `/hooks/pagure/` URL □□□□□□ WEB □□□□□□□□□□□□: `https://hosted.weblate.org/hooks/pagure/`□□*Project options* □□□ *Activate Web-hooks* □□□□□□□□:



??:

`POST /hooks/pagure/`?*Hosted Weblate* ??????????

Automatically receiving changes from Azure Repos

????? 3.8 ???.

Weblate has support for Azure Repos web hooks, add a webhook for *Code pushed* event with destination to `/hooks/azure/` URL on your Weblate installation (for example `https://hosted.weblate.org/hooks/azure/`). This can be done in *Service hooks* under *Project settings*.

??:

Web hooks in Azure DevOps manual ?`POST /hooks/azure/`?*Hosted Weblate* ??????????

Automatically receiving changes from Gitea Repos

□□□□□ 3.9 □□□.

Weblate has support for Gitea webhooks, add a *Gitea Webhook* for *Push events* event with destination to `/hooks/gitea/` URL on your Weblate installation (for example `https://hosted.weblate.org/hooks/gitea/`). This can be done in *Webhooks* under repository *Settings*.

□□:

Webhooks in Gitea manual □*POST /hooks/gitea/*□*Hosted Weblate* □□□□□□□□□□□

Automatically receiving changes from Gitee Repos

□□□□□ 3.9 □□□.

Weblate has support for Gitee webhooks, add a *WebHook* for *Push* event with destination to `/hooks/gitee/` URL on your Weblate installation (for example `https://hosted.weblate.org/hooks/gitee/`). This can be done in *WebHooks* under repository *Management*.

□□:

Webhooks in Gitee manual □*POST /hooks/gitee/*□*Hosted Weblate* □□□□□□□□□□□

Automatically updating repositories nightly

Weblate automatically fetches remote repositories nightly to improve performance when merging changes later. You can optionally turn this into doing nightly merges as well, by enabling *AUTO_UPDATE*.

Pushing changes from Weblate

Each translation component can have a push URL set up (see □□□□□□□□□ *URL*), and in that case Weblate will be able to push change to the remote repository. Weblate can be also be configured to automatically push changes on every commit (this is default, see □□□□□□□□□□□□□). If you do not want changes to be pushed automatically, you can do that manually under *Repository maintenance* or using API via *wlc push*.

The push options differ based on the □□□□□□□□□□ used, more details are found in that chapter.

Weblate □□□□□□□□□□□□□□□□□□□□□*GitHub*□*GitLab*□*Pagure* □□□ □□□□□□□□ *Gerrit* □□□□□□□□□□□□□□□□□□□□□□□□□□*Component configuration* □ □□□□□□□□□□□ □□□ *GitHub*□*GitLab*□*Gerrit* □□□ *Pagure* □□□□□□□□

□□□□□□□Git□GitHub□GitLab □□□□□□□□□□□□□□□□□□□:

Desired setup	□□□□□□□□□□□□ □□□□□□□□□□□ *URL*□□□□□□ *push*		
No push	*Git*	*empty*	*empty*
Push directly	*Git*	SSH URL	*empty*
□□□□□□□□ push	*Git*	SSH URL	Branch name
GitHub pull request from fork	*GitHub*	*empty*	*empty*
GitHub pull request from branch	*GitHub*	SSH URL[1]	Branch name
GitLab merge request from fork	*GitLab*	*empty*	*empty*
GitLab merge request from branch	*GitLab*	SSH URL[?]	Branch name
□□□□□□□□ Pagure □□□ □□□□□	*Pagure*	*empty*	*empty*
□□□□□□□□ Pagure □□□ □□□□□	*Pagure*	SSH URL[?]	Branch name

□□: You can also enable automatic pushing of changes after Weblate commits, this can be done in □□□□□□□□□□□□□.

□□:

See □□□□□□□□□□ for setting up SSH keys, and *Lazy commits* for info about when Weblate decides to commit changes.

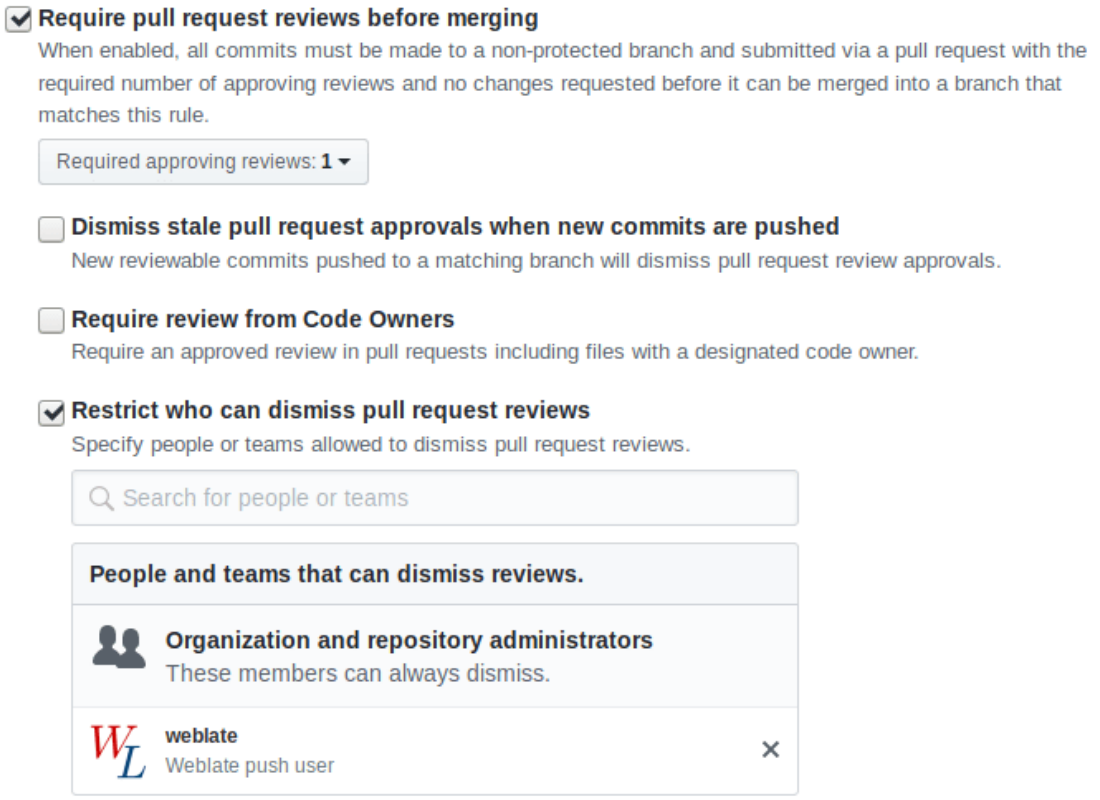
---

[1] Can be empty in case □□□□□□□□□□□□□ supports pushing.

Protected branches

If you are using Weblate on protected branch, you can configure it to use pull requests and perform actual review on the translations (what might be problematic for languages you do not know). An alternative approach is to waive this limitation for the Weblate push user.

For example on GitHub this can be done in the repository configuration:



Merge or rebase

By default, Weblate merges the upstream repository into its own. This is the safest way in case you also access the underlying repository by other means. In case you don't need this, you can enable rebasing of changes on upstream, which will produce a history with fewer merge commits.

??: Rebasing can cause you trouble in case of complicated merges, so carefully consider whether or not you want to enable them.

Interacting with others

Weblate makes it easy to interact with others using its API.

??:

Weblate ? REST API

Lazy commits

The behaviour of Weblate is to group commits from the same author into one commit if possible. This greatly reduces the number of commits, however you might need to explicitly tell it to do the commits in case you want to get the VCS repository in sync, e.g. for merge (this is by default allowed for the *Managers* group, see [illegible]).

The changes in this mode are committed once any of the following conditions are fulfilled:

Somebody else changes an already changed string.

A merge from upstream occurs.

An explicit commit is requested.

Change is older than period defined as [illegible] on *Component configuration*.

[illegible]: Commits are created for every component. So in case you have many components you will still see lot of commits. You might utilize *Git* [illegible] addon in that case.

If you want to commit changes more frequently and without checking of age, you can schedule a regular task to perform a commit:

```
CELERY_BEAT_SCHEDULE = {
    # Unconditionally commit all changes every 2 minutes
    "commit": {
        "task": "weblate.trans.tasks.commit_pending",
        # Ommiting hours will honor per component settings,
        # otherwise components with no changes older than this
        # won't be committed
        "kwargs": {"hours": 0},
        # How frequently to execute the job in seconds
        "schedule": 120,
    }
}
```

Processing repository with scripts

The way to customize how Weblate interacts with the repository is [illegible]. Consult [illegible] for info on how to execute external scripts through addons.

Keeping translations same across components

Once you have multiple translation components, you might want to ensure that the same strings have same translation. This can be achieved at several levels.

Translation propagation

With [illegible] enabled (what is the default, see *Component configuration*), all new translations are automatically done in all components with matching strings. Such translations are properly credited to currently translating user in all components.

[illegible]: The translation propagation requires the key to be match for monolingual translation formats, so keep that in mind when creating translation keys.

Consistency check

The *[illegible]* check fires whenever the strings are different. You can utilize this to review such differences manually and choose the right translation.

[illegible]

Automatic translation based on different components can be way to synchronize the translations across components. You can either trigger it manually (see *[illegible]*) or make it run automatically on repository update using addon (see *[illegible]*).

[illegible]

[illegible]

[illegible] *Component configuration* [illegible]

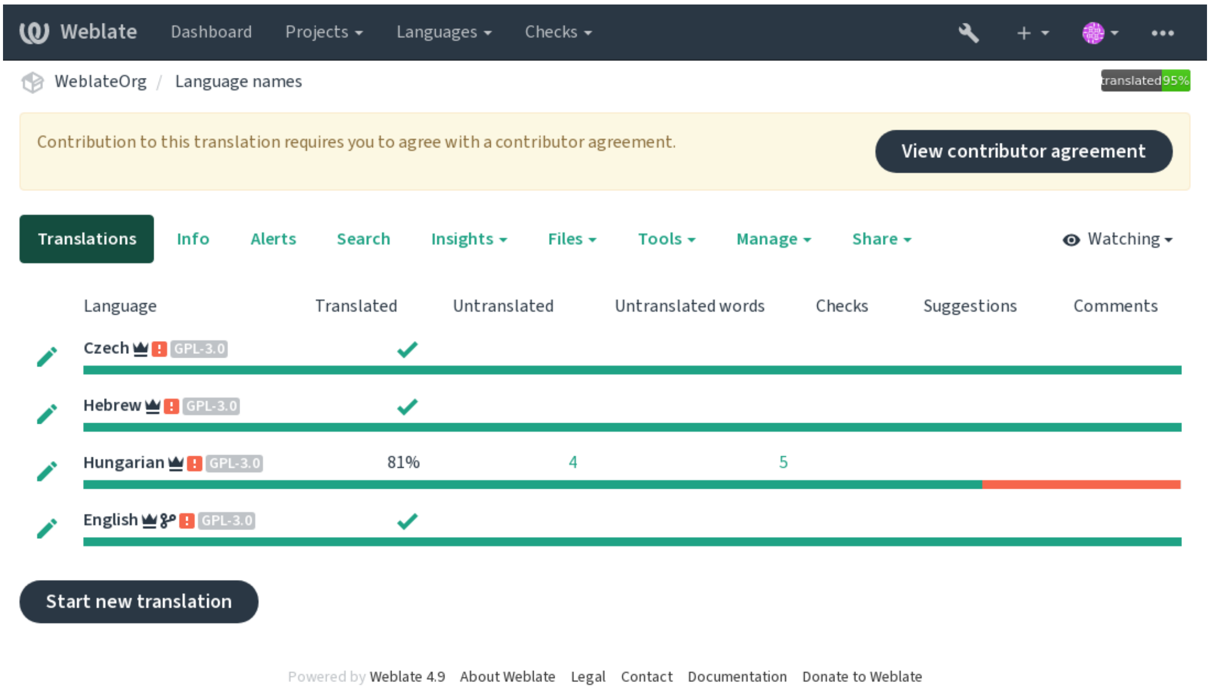
[illegible]

[illegible] URL[illegible] *Component configuration* [illegible]

[illegible] Libre [illegible]

[illegible]

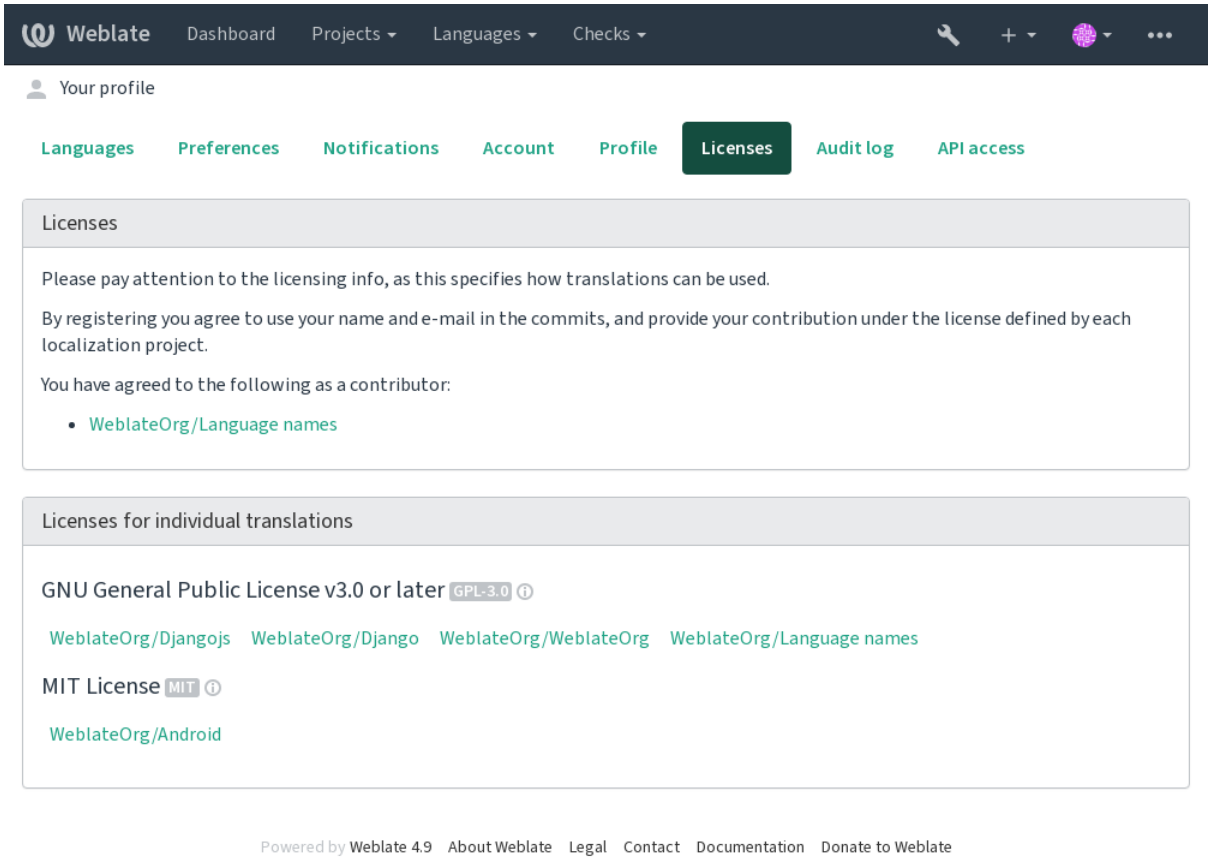
[illegible]:



[illegible]HTML [illegible]

[illegible]

[illegible]:



[illegible]

[illegible]

Everyone can add suggestions by default, to be accepted by signed in users. Suggestion voting can be used to make use of a string when more than one signed-in user agrees, by setting up the *Component configuration* with *Suggestion voting* to turn on voting, and *Autoaccept suggestions* to set a threshold for accepted suggestions (this includes a vote from the user making the suggestion if it is cast).

[illegible]: Once automatic acceptance is set up, normal users lose the privilege to directly save translations or accept suggestions. This can be overridden with the *Edit string when suggestions are enforced permission*.

You can combine these with *access control* into one of the following setups:

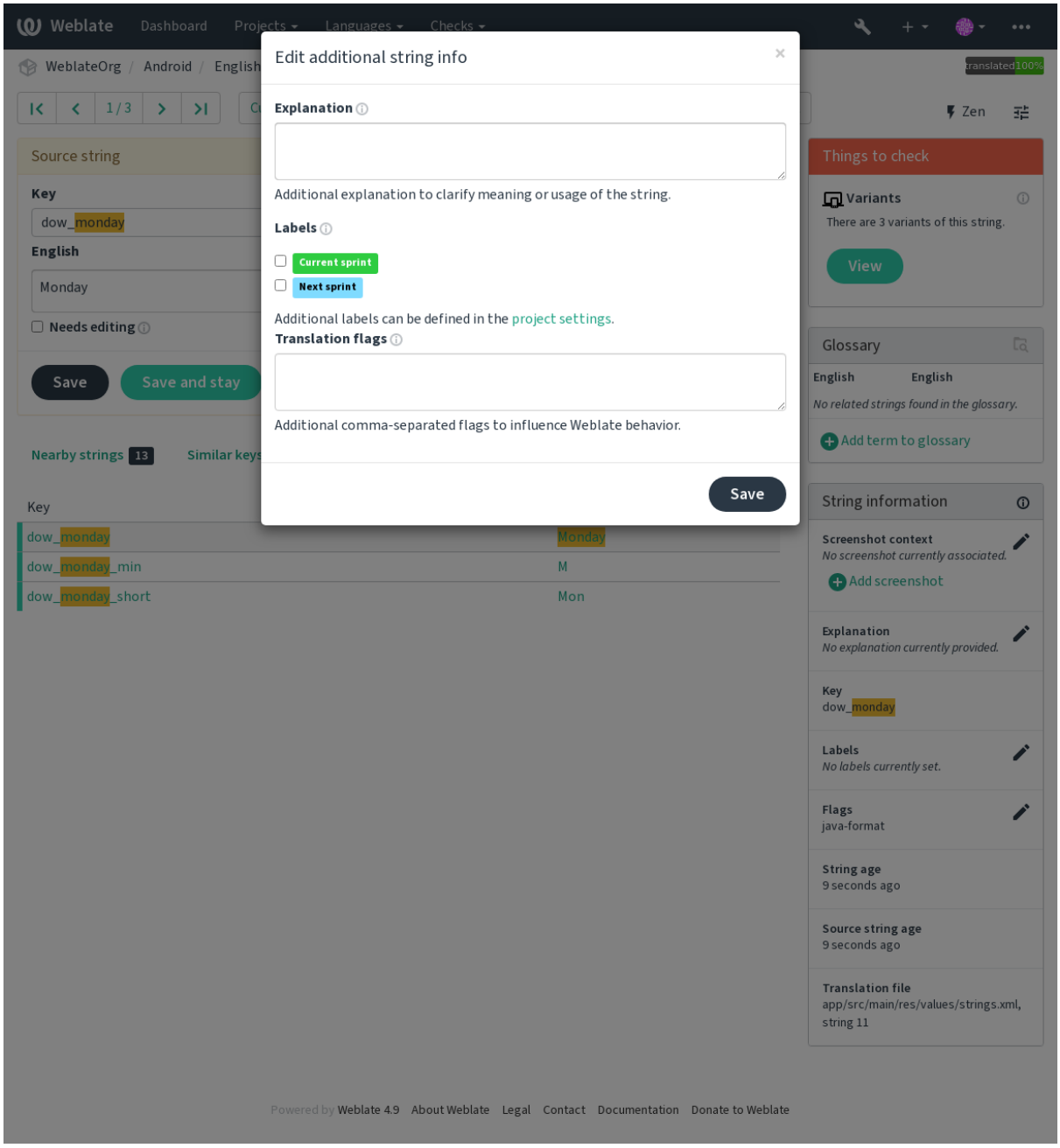
Users suggest and vote for suggestions and a limited group controls what is accepted. - Turn on voting. - Turn off automatic acceptance. - Don't let users save translations.

Users suggest and vote for suggestions with automatic acceptance once the defined number of them agree. - Turn on voting. - Set the desired number of votes for automatic acceptance.

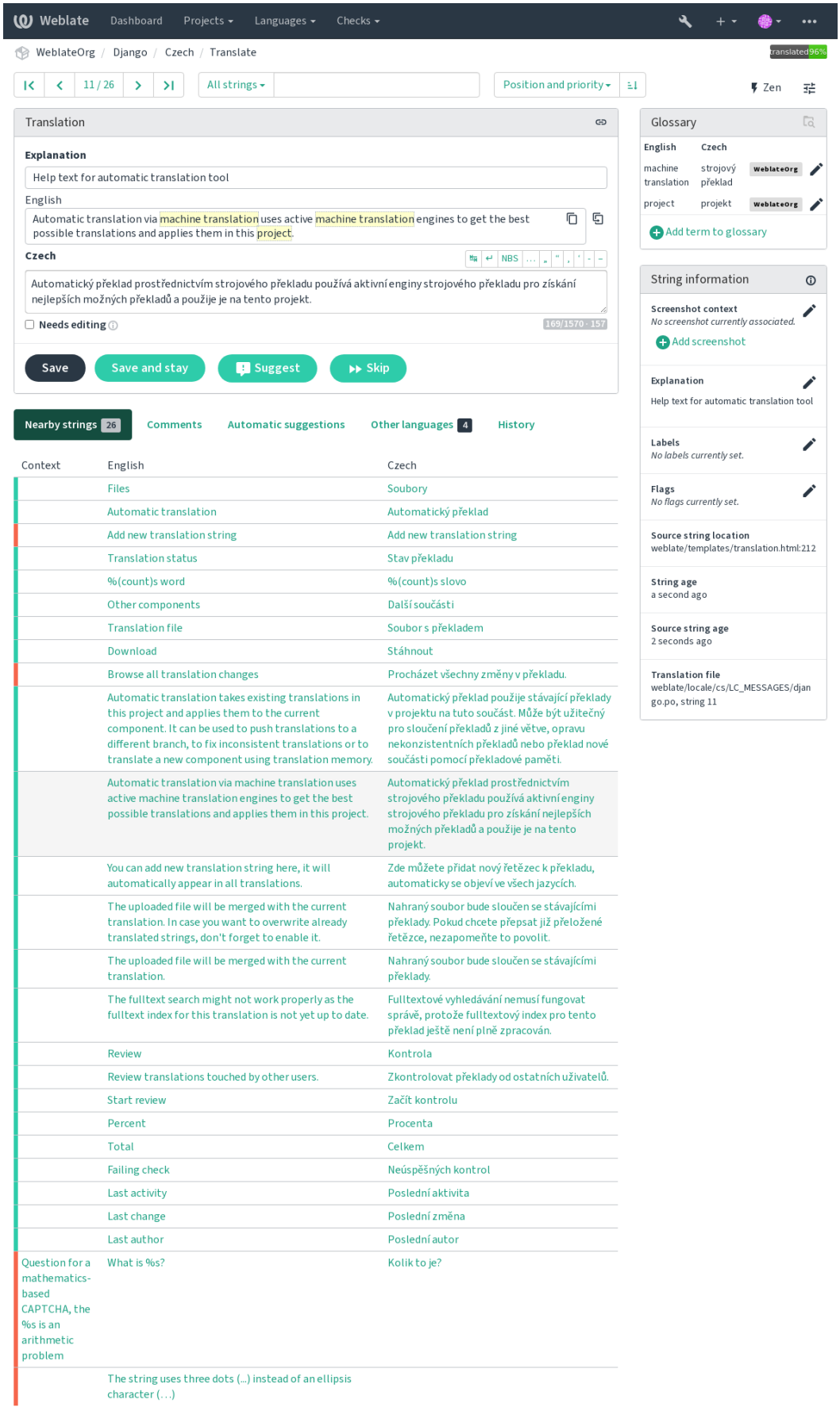
Optional voting for suggestions. (Can optionally be used by users when they are unsure about a translation by making multiple suggestions.) - Only turn on voting.

Additional info on source strings

Enhance the translation process by adding additional info to the strings including explanations, string priorities, check flags and visual context. Some of that info may be extracted from the translation files and some may be added by editing the additional string info:



Access this directly from the translation interface by clicking the "Edit" icon next to *Screenshot context* or *Flags*.


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Czech / Translate
translated 96%
11 / 26
All strings
Position and priority
Zen
Translation
Explanation
Help text for automatic translation tool
English
Automatic translation via machine translation uses active machine translation engines to get the best possible translations and applies them in this project.
Czech
Automatický překlad prostřednictvím strojového překladu používá aktivní enginy strojového překladu pro získání nejlepších možných překladů a použije je na tento projekt.
Needs editing
169/1570 · 157
Save
Save and stay
Suggest
Skip
Nearby strings 26
Comments
Automatic suggestions
Other languages 4
History
Context
English
Czech
Files
Soubory
Automatic translation
Automatický překlad
Add new translation string
Add new translation string
Translation status
Stav překladu
%(count)s word
%(count)s slovo
Other components
Další součásti
Translation file
Soubor s překladem
Download
Stáhnout
Browse all translation changes
Procházet všechny změny v překladu.
Automatic translation takes existing translations in this project and applies them to the current component. It can be used to push translations to a different branch, to fix inconsistent translations or to translate a new component using translation memory.
Automatický překlad použije stávající překlady v projektu na tuto součást. Může být užitečný pro sloučení překladů z jiné větve, opravu nekonzistentních překladů nebo překlad nové součásti pomocí překladové paměti.
Automatic translation via machine translation uses active machine translation engines to get the best possible translations and applies them in this project.
Automatický překlad prostřednictvím strojového překladu používá aktivní enginy strojového překladu pro získání nejlepších možných překladů a použije je na tento projekt.
You can add new translation string here, it will automatically appear in all translations.
Zde můžete přidat nový řetězec k překladu, automaticky se objeví ve všech jazycích.
The uploaded file will be merged with the current translation. In case you want to overwrite already translated strings, don't forget to enable it.
Nahraný soubor bude sloučen se stávajícími překlady. Pokud chcete přepsat již přeložené řetězce, nezapomeňte to povolit.
The uploaded file will be merged with the current translation.
Nahraný soubor bude sloučen se stávajícími překlady.
The fulltext search might not work properly as the fulltext index for this translation is not yet up to date.
Fulltextové vyhledávání nemusí fungovat správě, protože fulltextový index pro tento překlad ještě není plně zpracován.
Review
Kontrola
Review translations touched by other users.
Zkontrolovat překlady od ostatních uživatelů.
Start review
Začít kontrolu
Percent
Procenta
Total
Celkem
Failing check
Neúspěšných kontrol
Last activity
Poslední aktivita
Last change
Poslední změna
Last author
Poslední autor
Question for a mathematics-based CAPTCHA, the %s is an arithmetic problem
What is %s?
Kolik to je?
The string uses three dots (...) instead of an ellipsis character (…)
Glossary
English
Czech
machine translation
strojový překlad
WeblateOrg
project
projekt
WeblateOrg
Add term to glossary
String information
Screenshot context
No screenshot currently associated.
Add screenshot
Explanation
Help text for automatic translation tool
Labels
No labels currently set.
Flags
No flags currently set.
Source string location
weblate/templates/translation.html:212
String age
a second ago
Source string age
2 seconds ago
Translation file
weblate/locale/cs/LC_MESSAGES/django.po, string 11
Powered by Weblate 4.9
About Weblate
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Strings prioritization

□□□□□ 2.0 □□□.

String priority can be changed to offer higher priority strings for translation earlier by using the `priority` flag.

□□□: This can be used to order the flow of translation in a logical manner.

□□:

□□□□

□□□□□

□□□□□ 2.4 □□□.

□□□□□ 3.3 □□□: Previously called *Quality checks flags*, it no longer configures only checks.

The default set of translation flags is determined by the translation *Component configuration* and the translation file. However, you might want to use it to customize this per source string.

□□:

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□□

□□□□□ 4.1 □□□: In previous versions this has been called *Extra context*.

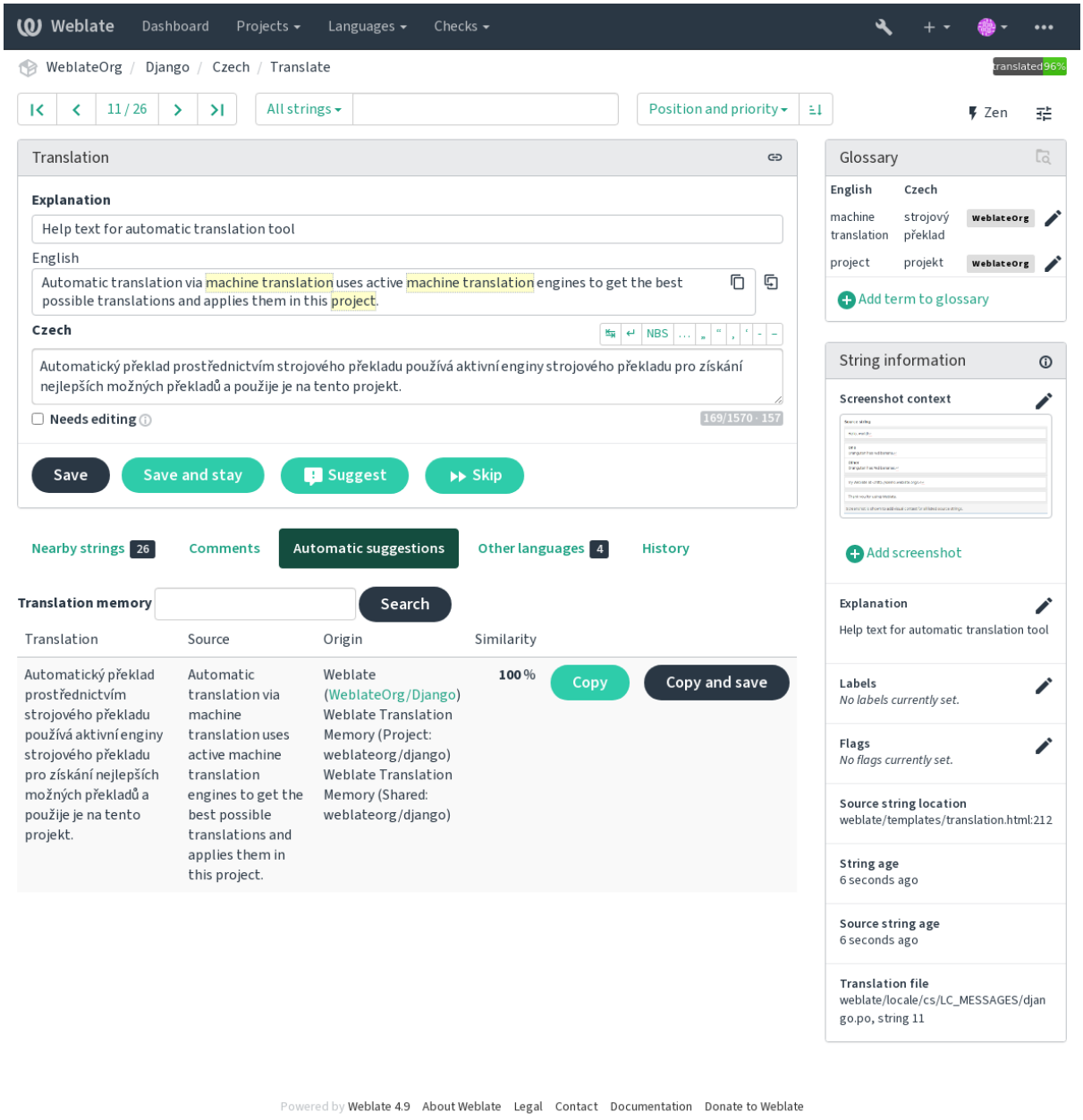
Use the explanation to clarify scope or usage of the translation. You can use Markdown to include links and other markup.

Visual context for strings

□□□□□ 2.9 □□□.

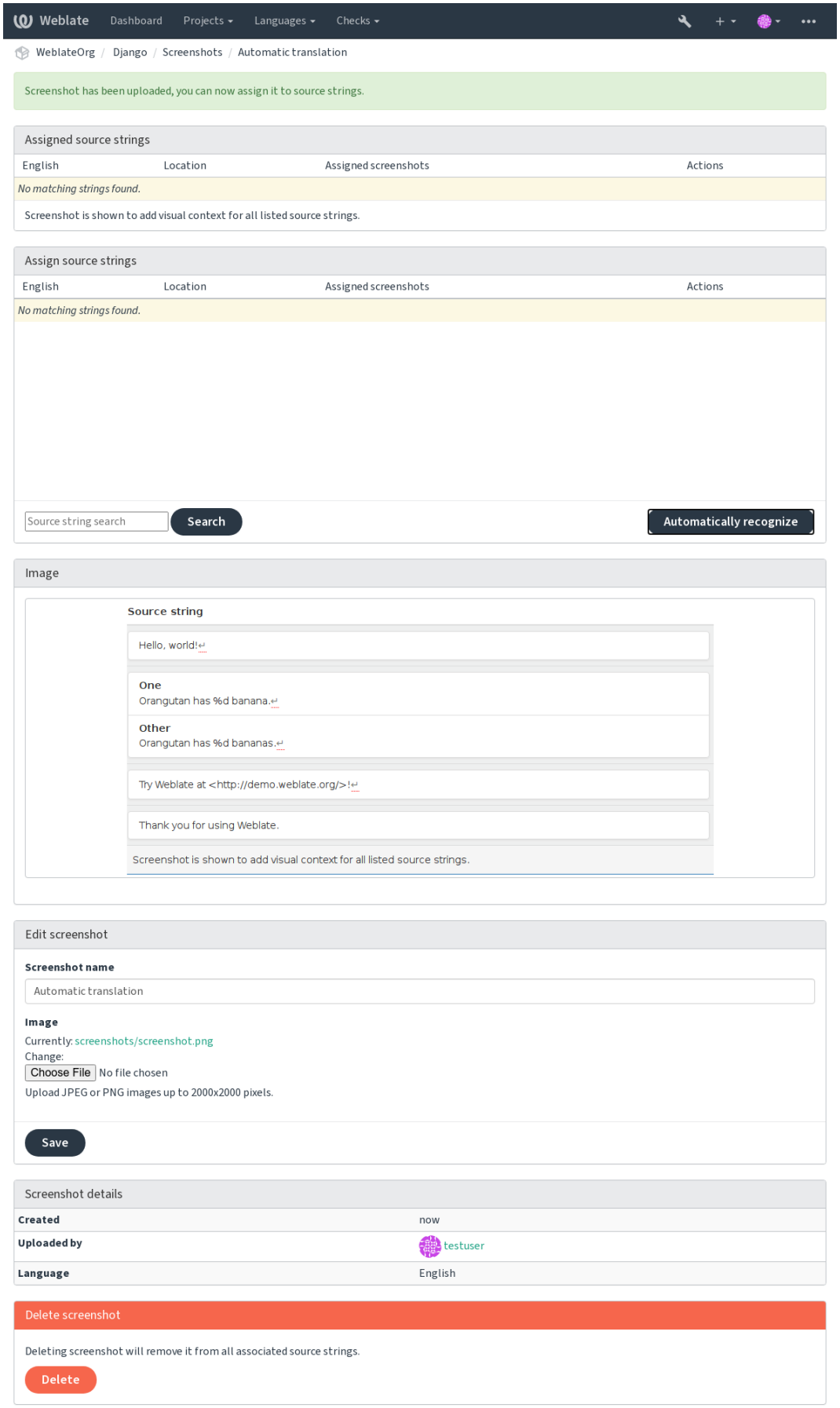
You can upload a screenshot showing a given source string in use within your program. This helps translators understand where it is used, and how it should be translated.

The uploaded screenshot is shown in the translation context sidebar:



In addition to *Additional info on source strings*, screenshots have a separate management interface under the *Tools* menu. Upload screenshots, assign them to source strings manually, or use optical character recognition to do so.

Once a screenshot is uploaded, this interface handles management and source string association:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Django / Screenshots / Automatic translation
Screenshot has been uploaded, you can now assign it to source strings.
Assigned source strings
English
Location
Assigned screenshots
Actions
No matching strings found.
Screenshot is shown to add visual context for all listed source strings.
Assign source strings
English
Location
Assigned screenshots
Actions
No matching strings found.
Source string search
Search
Automatically recognize
Image
Source string
Hello, world!
One
Orangutan has %d banana.
Other
Orangutan has %d bananas.
Try Weblate at <http://demo.weblate.org/>!
Thank you for using Weblate.
Screenshot is shown to add visual context for all listed source strings.
Edit screenshot
Screenshot name
Automatic translation
Image
Currently: screenshots/screenshot.png
Change:
Choose File
No file chosen
Upload JPEG or PNG images up to 2000x2000 pixels.
Save
Screenshot details
Created
now
Uploaded by
testuser
Language
English
Delete screenshot
Deleting screenshot will remove it from all associated source strings.
Delete
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

??????

???????????

??????????????????????*AUTOFIX_LIST* ????????
??????????????????????????; ??????????????????
?????????????????????????? `foo` ? `bar` ???????:

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#

from django.utils.translation import gettext_lazy as _

from weblate.trans.autofixes.base import AutoFix


class ReplaceFooWithBar(AutoFix):
    """Replace foo with bar."""

    name = _("Foobar")

    def fix_single_target(self, target, source, unit):
        if "foo" in target:
            return target.replace("foo", "bar"), True
        return target, False
```

??????????????????*AUTOFIX_LIST* ?? Python ??????????????????????:
??????????????????????

????????????

Weblate ??????????????????????: *Additional info on source strings*????? *Component configuration* ?
?????????????????????? ??: *???????????*

??:

```
placeholders:"special:value":"other value", regex:.*
```

????????????????:

????? reStructuredText ????????????: *????????*

UNIX ????? DOS ????????????\n ????? \r\n??

???????????? Weblate ??????????: *Read-only strings*?

?? 100 ??

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????? XML ????????????????????: *XML ??* ??? *XML ???????*

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Define flags for customizing the behavior of the *ICU MessageFormat* quality check.

Set a required prefix for XML tags for the *ICU MessageFormat* quality check.

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`replacements:%s:"John Doe"` □

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AngularJS □□□□□ □□□□□□□□□□□□□□

C □□□□ □□□□□□□□□□□□□□

Enable the *C# □□* quality check.

Enable the *ECMAScript □□□□□□ □□□□* quality check.

Enable the *i18next □□* quality check.

Enable the *ICU MessageFormat* quality check.

Enable the *Java □□* quality check.

Enable the *Java MessageFormat* quality check.

Enable the *JavaScript □□* quality check.

Enable the *Lua □□* quality check.

Enable the *Object Pascal □□* quality check.

Enable the *□□□□□□□□□□□□□□□* quality check.

Enable the *Perl □□* quality check.

Enable the *PHP □□* quality check.

Enable the *Python □□□□□□* quality check.

Enable the *Python □□* quality check.

Enable the *Qt □□* quality check.

Enable the *Qt □□□□* quality check.

Enable the *Ruby □□* quality check.

Enable the *Scheme □□* quality check.

Enable the *Vue I18n □□* quality check.

Treat text as a Markdown document. Enable *Markdown □□□□*, *Markdown □□□*, and *Markdown □□* quality checks.

Enable the *□□□□□ HTML* quality check.

The string should consist of only a URL. Enable the *URL* quality check.

Skip the *BBcode □□□□□□* quality check.

Skip the *□□□□□□□□* quality check.

Skip the *□□□□□□□□□□□* quality check.

Skip the *□□□□□□□* quality check.

Skip the *AngularJS □□□□□* quality check.

Skip the *C □□□□* quality check.

Skip the *C# □□* quality check.

Skip the *ECMAScript □□□□□□ □□□□* quality check.

Skip the *i18next □□* quality check.

Skip the *ICU MessageFormat* quality check.

Skip the *Java □□* quality check.

Skip the *Java MessageFormat* quality check.
Skip the *JavaScript* quality check.
Skip the *Lua* quality check.
Skip the *Object Pascal* quality check.
Skip the quality check.
Skip the *Perl* quality check.
Skip the *PHP* quality check.
Skip the *Python* quality check.
Skip the *Python* quality check.
Skip the *Qt* quality check.
Skip the *Qt* quality check.
Skip the *Ruby* quality check.
Skip the *Scheme* quality check.
Skip the *Vue I18n* quality check.
Skip the quality check.
Skip the quality check.
Skip the *Kashida* quality check.
Skip the *Markdown* quality check.
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Skip the quality check.
Skip the quality check.
Skip the quality check.
Skip the quality check.
Skip the *HTML* quality check.
Skip the *URL* quality check.
Skip the *XML* quality check.
Skip the *XML* quality check.
Skip the quality check.
Skip the quality check.
Skip the *ICU MessageFormat syntax* quality check.

Skip the *□□□□□□* quality check.

Skip the *□□□□□□□□□□* quality check.

Skip the *□□□□□□□□* quality check.

Skip the *□□□□□□□□□□□* quality check.

□□: □□□□□□□□□□□□ `ignore-*` □□□

□□□□□□□*Component configuration* □□□□□□□□□□□□□□□□□□□□□□□□□□□: GNU gettext□□□□□□□□□□□□□

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□□□□□ 3.11 □□□.

Component configuration □ *□□□□□* □□□
□□□ □□□: *Translation states*□□□□□□□□□□

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□□□□□ 3.7 □□□.

□□□: Weblate □□□□□□□□□□□□□□□□□ *□□□□□□□□□□□□* □□□□□□□□□□□□□□□□Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□

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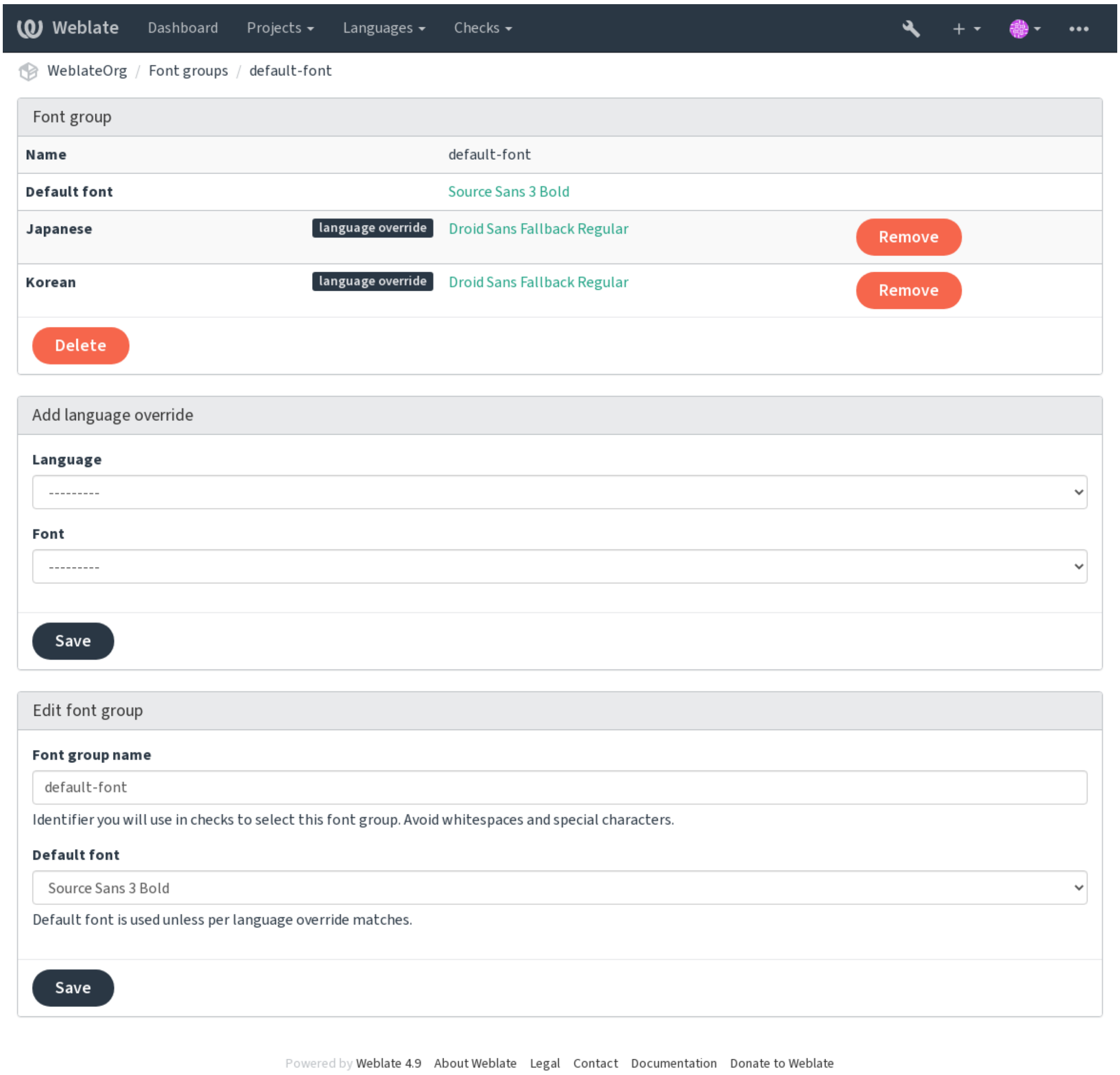
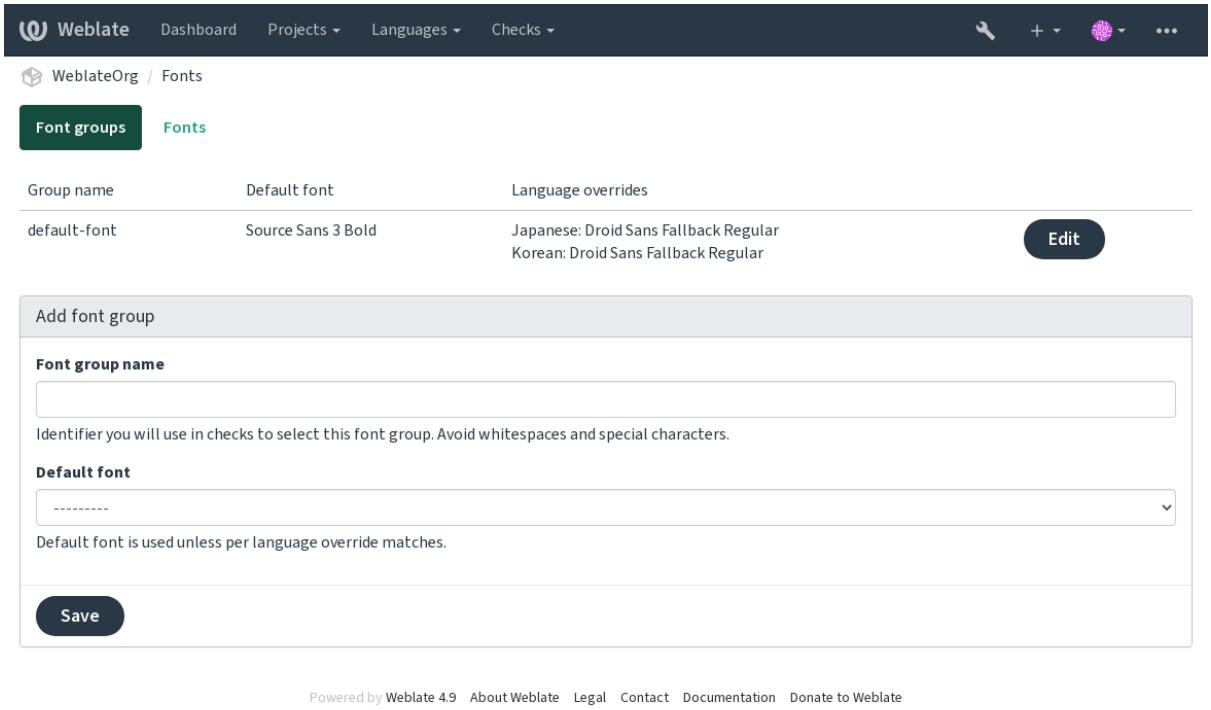
□□□□□□□□□□ *□□* □□□□□□ *□□□□* □□□TrueType□OpenType□□□□
□□:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Font groups / default-font
Font group
Name
default-font
Default font
Source Sans 3 Bold
Japanese
language override
Droid Sans Fallback Regular
Remove
Korean
language override
Droid Sans Fallback Regular
Remove
Delete
Add language override
Language
Font
Save
Edit font group
Font group name
default-font
Identifier you will use in checks to select this font group. Avoid whitespaces and special characters.
Default font
Source Sans 3 Bold
Default font is used unless per language override matches.
Save
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

□□□□ □□□:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Fonts
Font groups
Fonts
Group name
Default font
Language overrides
default-font
Source Sans 3 Bold
Japanese: Droid Sans Fallback Regular
Korean: Droid Sans Fallback Regular
Edit
Add font group
Font group name
Identifier you will use in checks to select this font group. Avoid whitespaces and special characters.
Default font

Default font is used unless per language override matches.
Save
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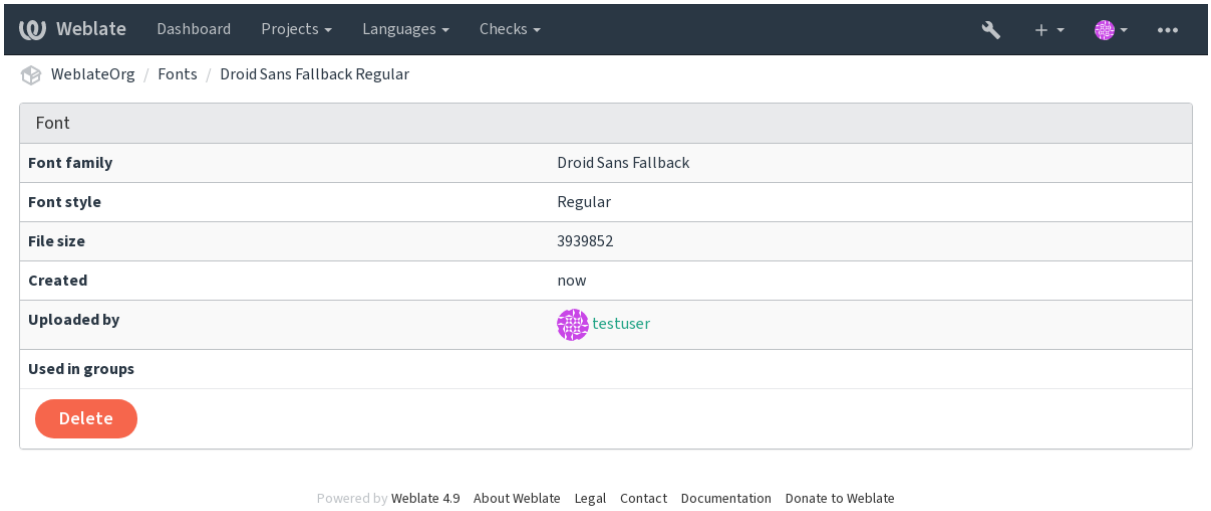
Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg / Fonts / Droid Sans Fallback Regular
Font
Font family
Droid Sans Fallback
Font style
Regular
File size
3939852
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testuser
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Delete
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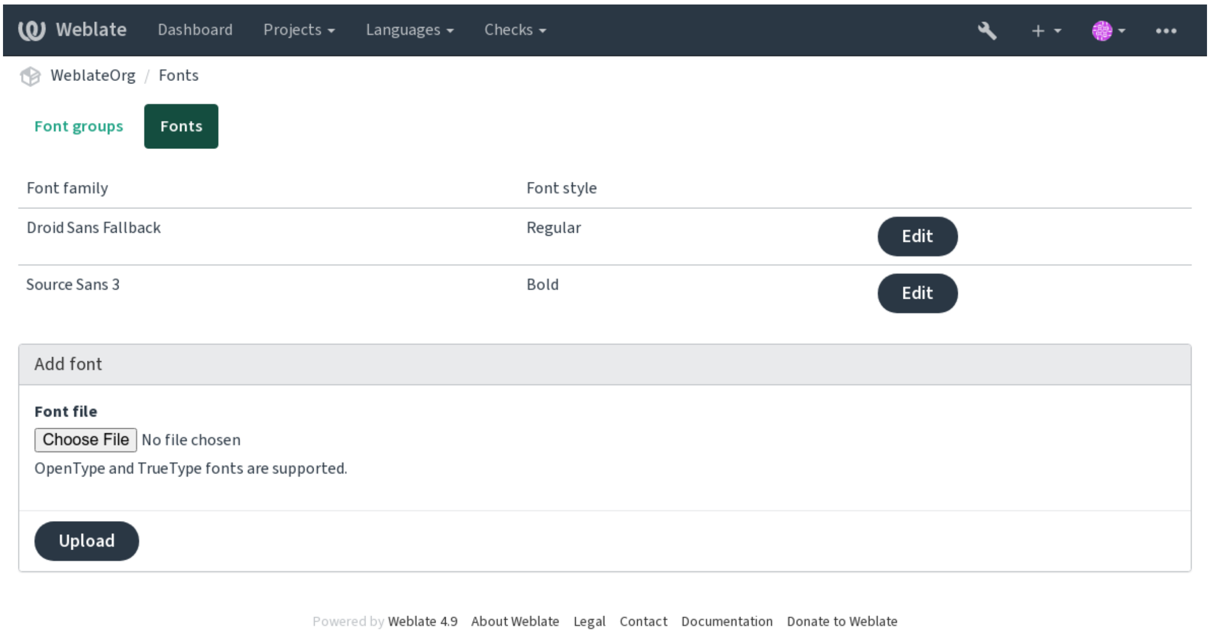
Weblate □□□□□□□□□□□□□□□□□:



[illegible] *[illegible]*[illegible]:

Defines maximal width in pixels.

[illegible] [illegible]

Defines font size in pixels.

[illegible]

[illegible]: *[illegible]*[illegible]*CHECK_LIST* [illegible]

1. *weblate.checks.Check* [illegible]
2. [illegible]
3. `check` [illegible] `check_single` [illegible]

[illegible]:

[illegible]*CHECK_LIST* [illegible] Python [illegible]: *[illegible]*

[illegible]foo[illegible]

[illegible]foo[illegible]

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#
```

([illegible])

(□□□□□□□□□□)

```
"""Simple quality check example."""

from django.utils.translation import gettext_lazy as _

from weblate.checks.base import TargetCheck


class FooCheck(TargetCheck):

    # Used as identifier for check, should be unique
    # Has to be shorter than 50 characters
    check_id = "foo"

    # Short name used to display failing check
    name = _("Foo check")

    # Description for failing check
    description = _("Your translation is foo")

    # Real check code
    def check_single(self, source, target, unit):
        return "foo" in target
```

□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□ 2 □□□□□□□□□□□□□□□□□□□□□□□□

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#
"""Quality check example for Czech plurals."""

from django.utils.translation import gettext_lazy as _

from weblate.checks.base import TargetCheck


class PluralCzechCheck(TargetCheck):

    # Used as identifier for check, should be unique
    # Has to be shorter than 50 characters
    check_id = "foo"

    # Short name used to display failing check
    name = _("Foo check")

    # Description for failing check
    description = _("Your translation is foo")

    # Real check code
```

(□□□□□□□□□)

```
    def check_target_unit(self, sources, targets, unit):
        if self.is_language(unit, ("cs",)):
            return targets[1] == targets[2]
        return False

    def check_single(self, source, target, unit):
        """We don't check target strings here."""
        return False
```

□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ *MT_SERVICES* □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□*Project configuration* □□□□□□□

amaGama

□□□□□□□□□□□□□□□□Virtaal □□□□□□□□□ *tmserver* □ `weblate.machinery.tmserver.AmagamaTranslation` □ *MT_SERVICES* □□□□□□□□□□□□□□□□□

□□:

Installing amaGama□Amagama□amaGama □□□□

Apertium

□□□□□□□□□□□□□□□□□ Libre □□□□□□□□□□□□□□□□□□□□

Apertium □□□□□□□□□□Apertium-APy □□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□*MT_SERVICES* □ `weblate.machinery.apertium.ApertiumAPYTranslation` □□□□□*MT_APERTIUM_APY* □□□□□□

□□:

MT_APERTIUM_APY□Apertium Web □□□□Apertium APy □□□□□□

AWS

□□□□□ 3.1 □□□.

Amazon Translate □□□

1. Turn on this service by adding `weblate.machinery.aws.AWSTranslation` to *MT_SERVICES*.
2. *boto3* □□□□□□□□□□□□□□
3. Weblate □□□□□□

□□:

MT_AWS_REGION□*MT_AWS_ACCESS_KEY_ID*□*MT_AWS_SECRET_ACCESS_KEY* Amazon □□□□□□□

Baidu API machine translation

□□□□□ 3.2 □□□.

Baidu □□□□□□□□□□□□□

This service uses an API and you need to obtain an ID and API key from Baidu to use it.

Turn on this service by adding `weblate.machinery.baidu.BaiduTranslation` to *MT_SERVICES* and set *MT_BAIDU_ID* and *MT_BAIDU_SECRET*.

□□:

MT_BAIDU_ID□*MT_BAIDU_SECRET* Baidu Translate API

DeepL

□□□□□ 2.20 □□□.

DeepL is paid service providing good machine translation for a few languages. You need to purchase *DeepL API* subscription or you can use legacy *DeepL Pro (classic)* plan.

Turn on this service by adding `weblate.machinery.deepl.DeepLTranslation` to *MT_SERVICES* and set *MT_DEEPL_KEY*.

□□□: In case you have subscription for CAT tools, you are supposed to use "v1 API" instead of default "v2" used by Weblate (it is not really an API version in this case). In case you are on a free instead of a paid plan, you have to use `https://api-free.deepl.com/` instead of `https://api.deepl.com/` You can adjust both parameters by *MT_DEEPL_API_URL*.

□□:

MT_DEEPL_KEY□*MT_DEEPL_API_URL*□DeepL website □DeepL pricing □DeepL API documentation

LibreTranslate

□□□□□ 4.7.1 □□□.

LibreTranslate is a free and open-source service for machine translations. The public instance requires an API key, but LibreTranslate can be self-hosted and there are several mirrors available to use the API for free.

Turn on this service by adding `weblate.machinery.libretranslate.LibreTranslateTranslation` to *MT_SERVICES* and set *MT_LIBRETRANSLATE_API_URL*. If your instance requires an API key, you must also set *MT_LIBRETRANSLATE_KEY*.

□□:

MT_LIBRETRANSLATE_KEY, *MT_LIBRETRANSLATE_API_URL*, LibreTranslate website, LibreTranslate repository, LibreTranslate mirrors

Glosbe

Free dictionary and translation memory for almost every living language.

The API is gratis to use, but subject to the used data source license. There is a limit of calls that may be done from one IP in a set period of time, to prevent abuse.

Turn on this service by adding `weblate.machinery.glosbe.GlosbeTranslation` to *MT_SERVICES*.

□□:

Glosbe website

Google Translate

Google □□□□□□□□□□□□□□□

This service uses the Google Translation API, and you need to obtain an API key and turn on billing in the Google API console.

To turn on this service, add `weblate.machinery.google.GoogleTranslation` to *MT_SERVICES* and set *MT_GOOGLE_KEY*.

□□:

MT_GOOGLE_KEY□Google translate documentation

Google Translate API V3 (Advanced)

Google Cloud [illegible]

This service differs from the former one in how it authenticates. To enable service, add `weblate.machinery.googlev3.GoogleV3Translation` to *MT_SERVICES* and set

MT_GOOGLE_CREDENTIALS

MT_GOOGLE_PROJECT

If *location* fails, you may also need to specify *MT_GOOGLE_LOCATION*.

[illegible]:

MT_GOOGLE_CREDENTIALS[illegible]*MT_GOOGLE_PROJECT*[illegible]*MT_GOOGLE_LOCATION* Google translate documentation

Microsoft Cognitive Services Translator

[illegible] 2.10 [illegible].

Cognitive Services [illegible] Azure portal [illegible]

Weblate implements Translator API V3.

To enable this service, add `weblate.machinery.microsoft.MicrosoftCognitiveTranslation` to *MT_SERVICES* and set *MT_MICROSOFT_COGNITIVE_KEY*.

Translator Text API V2

The key you use with Translator API V2 can be used with API 3.

Translator Text API V3

Azure [illegible] Azure [illegible] *MT_MICROSOFT_REGION* [illegible]

[illegible]:

MT_MICROSOFT_COGNITIVE_KEY[illegible]*MT_MICROSOFT_REGION*[illegible]Cognitive Services - Text Translation API [illegible]Microsoft Azure Portal

Microsoft Terminology Service

[illegible] 2.19 [illegible].

The Microsoft Terminology Service API [illegible]Web [illegible] [illegible]UI[illegible]

[illegible]`weblate.machinery.microsoftterminology.MicrosoftTerminologyService` [illegible] *MT_SERVICES* [illegible]

[illegible]:

Microsoft Terminology Service API

ModernMT

[illegible] 4.2 [illegible].

Turn this service on by adding `weblate.machinery.modernmt.ModernMTTranslation` to *MT_SERVICES* and configure *MT_MODERNMT_KEY*.

[illegible]:

ModernMT API, *MT_MODERNMT_KEY*, *MT_MODERNMT_URL*

MyMemory

Huge translation memory with machine translation.

Free, anonymous usage is currently limited to 100 requests/day, or to 1000 requests/day when you provide a contact e-mail address in *MT_MYMEMORY_EMAIL*. You can also ask them for more.

Turn on this service by adding `weblate.machinery.mymemory.MyMemoryTranslation` to *MT_SERVICES* and set *MT_MYMEMORY_EMAIL*.

??:

MT_MYMEMORY_EMAIL?*MT_MYMEMORY_USER*?*MT_MYMEMORY_KEY*?MyMemory website

NetEase Sight API machine translation

????? 3.3 ???.

NetEase ????????????????

This service uses an API, and you need to obtain key and secret from NetEase.

Turn on this service by adding `weblate.machinery.youdao.NeteaseSightTranslation` to *MT_SERVICES* and set *MT_NETEASE_KEY* and *MT_NETEASE_SECRET*.

??:

MT_NETEASE_KEY?*MT_NETEASE_SECRET* NetEase Sight Translation Platform

tmserver

You can run your own translation memory server by using the one bundled with Translate-toolkit and let Weblate talk to it. You can also use it with an amaGama server, which is an enhanced version of tmserver.

1.First you will want to import some data to the translation memory:

2. Turn on this service by adding `weblate.machinery.tmserver.TMServerTranslation` to *MT_SERVICES*.

```
build_tmdb -d /var/lib/tm/db -s en -t cs locale/cs/LC_MESSAGES/django.po
build_tmdb -d /var/lib/tm/db -s en -t de locale/de/LC_MESSAGES/django.po
build_tmdb -d /var/lib/tm/db -s en -t fr locale/fr/LC_MESSAGES/django.po
```

3.Start tmserver to listen to your requests:

```
tmserver -d /var/lib/tm/db
```

4.Configure Weblate to talk to it:

```
MT_TMSERVER = "http://localhost:8888/tmserver/"
```

??:

MT_TMSERVER?tmserver Installing amaGama?Amagama?Amagama Translation Memory

Yandex Translate

Yandex ????????????????

This service uses a Translation API, and you need to obtain an API key from Yandex.

Turn on this service by adding `weblate.machinery.yandex.YandexTranslation` to *MT_SERVICES*, and set *MT_YANDEX_KEY*.

??:

MT_YANDEX_KEY?Yandex Translate API ?Powered by Yandex.Translate

Youdao Zhiyun API machine translation

□□□□□ 3.2 □□□.

Youdao □□□□□□□□□□□□□□□

This service uses an API, and you need to obtain an ID and an API key from Youdao.

Turn on this service by adding `weblate.machinery.youdao.YoudaoTranslation` to *MT_SERVICES* and set *MT_YOUDAO_ID* and *MT_YOUDAO_SECRET*.

□□:

MT_YOUDAO_ID□*MT_YOUDAO_SECRET* Youdao Zhiyun Natural Language Translation Service

Weblate

Weblate can be the source of machine translations as well. It is based on the Woosh fulltext engine, and provides both exact and inexact matches.

Turn on these services by adding `weblate.machinery.weblatetm.WeblateTranslation` to *MT_SERVICES*.

Weblate Translation Memory

□□□□□ 2.20 □□□.

The *□□□□□* can be used as a source for machine translation suggestions as well.

Turn on these services by adding `weblate.memory.machine.WeblateMemory` to the *MT_SERVICES*. This service is turned on by default.

SAP Translation Hub

SAP □□□□□□□□□□□□□□□

You need to have a SAP account (and the SAP Translation Hub enabled in the SAP Cloud Platform) to use this service.

`weblate.machinery.saptranslationhub.SAPTranslationHub` □ *MT_SERVICES* □□ API □□□□□□□□□□□□□□□□

□□: To access the Sandbox API, you need to set *MT_SAP_BASE_URL* and *MT_SAP_SANDBOX_APIKEY*.

To access the productive API, you need to set *MT_SAP_BASE_URL*, *MT_SAP_USERNAME* and *MT_SAP_PASSWORD*.

□□:

MT_SAP_BASE_URL□*MT_SAP_SANDBOX_APIKEY*□*MT_SAP_USERNAME*□*MT_SAP_PASSWORD*□*MT_SAP_USE_MT* SAP Translation Hub API

Custom machine translation

You can also implement your own machine translation services using a few lines of Python code. This example implements machine translation in a fixed list of languages using `dictionary` Python module:

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
```

(□□□□□□□□)

```python
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#
"""Machine translation example."""

import dictionary

from weblate.machinery.base import MachineTranslation


class SampleTranslation(MachineTranslation):
    """Sample machine translation interface."""

    name = "Sample"

    def download_languages(self):
        """Return list of languages your machine translation supports."""
        return {"cs"}

    def download_translations(
        self,
        source,
        language,
        text: str,
        unit,
        user,
        search: bool,
        threshold: int = 75,
    ):
        """Return tuple with translations."""
        for t in dictionary.translate(text):
            yield {"text": t, "quality": 100, "service": self.name, "source": text}
```

You can list your own class in *MT_SERVICES* and Weblate will start using that.

□□□□

□□□□□ 2.19 □□□.

□□□ *□□* ↓ *□□□□* □□□□□□□□□□□□□□□□□□□□□□□

□□□: You can also configure add-ons using *API*, *DEFAULT_ADDONS*, or *install_addon*.

WeblateOrg / Language names / Add-ons

Installed add-ons

There are no add-ons currently installed.

Available add-ons

Automatic translation

Automatically translates strings using machine translation or other components.

Install

Add missing languages

project wide

Ensures a consistent set of languages is used for all components within a project.

Install

Component discovery

repository wide

Automatically adds or removes project components based on file changes in the version control system.

Install

Bulk edit

Bulk edit flags, labels, or states of strings.

Install

Statistics generator

Generates a file containing detailed info about the translation status.

Install

Pseudolocale generation

Generates a translation by adding prefix and suffix to source strings automatically.

Install

Contributors in comment

Updates the comment part of the PO file header to include contributor names and years of contributions.

Install

Customize gettext output

Allows customization of gettext output behavior, for example line wrapping.

Install

Generate MO files

Automatically generates a MO file for every changed PO file.

Install

Update PO files to match POT (msgmerge)

Updates all PO files (as configured by "Filemask") to match the POT file (as configured by "Template for new translations") using msgmerge.

Install

Squash Git commits

repository wide

Squash Git commits prior to pushing changes.

Install

Stale comment removal

project wide

Set a timeframe for removal of comments.

Install

Stale suggestion removal

project wide

Set a timeframe for removal of suggestions.

Install

Some add-ons will ask for additional configuration during installation.

[illegible]

[illegible]

[illegible] 3.9 [illegible].

weblate.autotranslate.autotranslate

mode	[illegible]	[illegible]: suggest -- Add as suggestion translate -- Add as translation fuzzy -- Add as needing edit
filter_type	Search filter	[illegible]: all -- All strings nottranslated -- Not translated strings todo -- Strings needing action fuzzy -- Strings marked for edit check:inconsistent -- Failed check: Inconsistent
auto_source	Automatic translation source	[illegible]: others -- Other translation components mt -- Machine translation
component	[illegible]	Enter component to use as source, keep blank to use all components in current project.
engines	[illegible]	
threshold	[illegible]	

[illegible]

[illegible]

[illegible]:

[illegible]

[illegible] 1 [illegible]*BACKGROUND_TASKS* [illegible]

[illegible]:

[illegible]Keeping translations same across components

JavaScript [illegible] CDN

[illegible] 4.2 [illegible].

weblate.cdn.cdnjs

threshold	[illegible]	[illegible]
css_selector	CSS [illegible]	[illegible] CSS [illegible]
cookie_name	[illegible] Cookie [illegible]	[illegible] Cookie [illegible]
files	HTML[illegible]	[illegible] URL[illegible]

daily, repository post-commit, repository post-update

JavaScript [illegible] HTML [illegible]

[illegible] HTML [illegible]JavaScript [illegible]

HTML [illegible] URL [illegible]weblate-cdn [illegible]

[illegible]:

cdn-addon-config[illegible]weblate-cdn[illegible]cdn-addon-extract[illegible]cdn-addon-html

??????????

????? 4.4 ???.

`weblate.cleanup.blank`

??????????????????

repository post-commit, repository post-update

????????????????????????????

????????????????????????????????: ??

??:

Does Weblate update translation files besides translations?

???????????????

`weblate.cleanup.generic`

??????????????????

repository pre-commit, repository post-update

??

??:

Does Weblate update translation files besides translations?

????????????

`weblate.consistency.languages`

??????????????????

daily, repository post-add

??

?????????24 ?????? 1 ???????????? Weblate ????????????????

??

???: ???????????? *?????* ????????????

????????????

`weblate.discovery.discovery`

`match`	????????????????
`file_format`	???????
`name_template`	????????????????
`base_file_template`	???????????????? ????????????????????????????
`new_base_template`	???????????????????? ????????????????????????????gettext ?? .pot ??????????
`language_regex`	???????? ??????????????????????????????????????
`copy_addons`	?????????? ????????????????????????????????????
`remove`	??????????????????????
`confirm`	????????????????

??????????

??

VCS ????????????????????*import_project* ????????????????????1 ?? VCS ????????????????????????

□□□

Configure add-on

- Please review and confirm the matched components.

Component	Matched files
The following components would be created	
Djangojs	`weblate/locale/hu/LC_MESSAGES/djangojs.po` (hu) `weblate/locale/he/LC_MESSAGES/djangojs.po` (he) `weblate/locale/cs/LC_MESSAGES/djangojs.po` (cs)
Django	`weblate/locale/cs/LC_MESSAGES/django.po` (cs) `weblate/locale/he/LC_MESSAGES/django.po` (he) `weblate/locale/hu/LC_MESSAGES/django.po` (hu)

☐ **I confirm the above matches look correct**

Regular expression to match translation files against

weblate/locale/(?P<language>[^/]*)/LC_MESSAGES/(?P<component>[^/]*)\.po

File format

gettext PO file

Customize the component name

{{ component|title }}

Define the monolingual base filename

Leave empty for bilingual translation files.

Define the base file for new translations

weblate/locale/{{ component }}.pot

Filename of file used for creating new translations. For gettext choose .pot file.

Language filter

^(cs|he|hu)$

Regular expression to filter translation files against when scanning for filemask.

☑ **Clone addons from the main component to the newly created ones**

☐ **Remove components for inexistant files**

The regular expression to match translation files has to contain two named groups to match component and language, some examples:

Regular expression	Example matched files	Description

`(?P<language>[^/.]*)/(?P<component>[^/]*)\.po`	`cs/application.po`
	`cs/website.po`
	`de/application.po`
	`de/website.po`
		One folder per language containing translation files for components.

`locale/(?P<language>[^/.]*)/LC_MESSAGES/(?P<component>[^/]*)\.po`	`locale/cs/LC_MESSAGES/application.po`
	`locale/cs/LC_MESSAGES/website.po`
	`locale/de/LC_MESSAGES/application.po`
	`locale/de/LC_MESSAGES/website.po`
		Usual structure for storing gettext PO files.

`src/locale/(?P<component>[^/]*)\.(?P<language>[^/.]*)\.po`	`src/locale/application.cs.po`
	`src/locale/website.cs.po`
	`src/locale/application.de.po`
	`src/locale/website.de.po`
		Using both component and language name within filename.

`locale/(?P<language>[^/.]*)/(?P<component>[^/]*)/(?P=language)\.po`	`locale/cs/application/cs.po`
	`locale/cs/website/cs.po`
	`locale/de/application/de.po`
	`locale/de/website/de.po`
		Using language in both path and filename.

`res/values-(?P<language>[^/.]*)/strings-(?P<component>[^/]*)\.xml`	`res/values-cs/strings-about.xml`
	`res/values-cs/strings-help.xml`
	`res/values-de/strings-about.xml`
	`res/values-de/strings-help.xml`
		Android resource strings, split into several files.

You can use Django template markup in both component name and the monolingual base filename, for example:

`{{ component }}`
Component filename match
`{{ component|title }}`
Component filename with upper case first letter

Save

???: Component discovery add-on uses *Weblate ??? URL*. It's a convenient way to share VCS setup between multiple components. Linked components use the local repository of the main component set up by filling `weblate://project/main-component` into the *??????????????* field (in *Manage* ↓ *Settings* ↓ *Version control system*) of each respective component. This saves time with configuration and system resources too.

??:

????????????????

?????

?????? 3.11 ???.

`weblate.flags.bulk`

`q`	??????	
`state`	???????	???????: `-1` -- Do not change `10` -- Needs editing `20` -- Translated `30` -- Approved
`add_flags`	?????????	
`remove_flags`	?????????	
`add_labels`	???????	
`remove_labels`	???????	

component update

??????????????????????????

`NOT has:label` ??Weblate ??????????????????????????

?:

Table5Label new strings automatically

??????	`NOT has:label`
????????*???*	

Table6????? ???? ???? ?????? ????? ????? ???????????????????

??????	`language:en AND key:changelogs/`
??????????	`read-only`

??:

*??????????????????*labels

????????? "???" ????????

?????? 3.1 ???.

`weblate.flags.same_edit`

???????????????????

unit post-create

VCS ??Weblate ? "???" ??

???: You might also want to tighthen the *????????* check by adding `strict-same` flag to *??????*.

??:

Translation states

??????? "???" ????????

`weblate.flags.source_edit`

??????????????????

unit post-create

??????? VCS ???????????Weblate ??? "???" ??

??:

Translation states

??????? "???" ????????

`weblate.flags.target_edit`

??????????????????

unit post-create

???????????? VCS ???????????Weblate ??? "???" ??

??:

Translation states

?????????

`weblate.generate.generate`

```
filename??????????
template??????????
```

repository pre-commit

????????????????????????

Django ?? ????????????

????????????????????:

`locale/{{ language_code }}.json`

```
{
   "language": "{{ language_code }}",
   "strings": "{{ stats.all }}",
   "translated": "{{ stats.translated }}",
   "last_changed": "{{ stats.last_changed }}",
   "last_author": "{{ stats.last_author }}",
}
```

??:

????????????????

????????

`weblate.generate.pseudolocale`

```
source??
target??????
prefix????????
suffix????????
```

????????????????

[illegible]

[illegible]

Finding strings whose localized counterparts might not fit the layout is also possible.

[illegible]: [illegible] Weblate [illegible] *en_XA* [illegible] *ar_XB* [illegible]

[illegible]: You can use this add-on to start translation to a new locale of an existing language or similar language. Once you add the translation to the component, follow to the add-on. *Example:* If you have *fr* and want to start *fr_CA* translation, simply set *fr* as the source, *fr_CA* as the target, and leave the prefix and suffix blank.

Uninstall the add-on once you have the new translation filled to prevent Weblate from changing the translations made after the copying.

[illegible]

`weblate.gettext.authors`

[illegible]

repository pre-commit

PO [illegible]

The PO file header will look like this:

```
# Michal Čihař <michal@cihar.com>, 2012, 2018, 2019, 2020.
# Pavel Borecki <pavel@example.com>, 2018, 2019.
# Filip Hron <filip@example.com>, 2018, 2019.
# anonymous <noreply@weblate.org>, 2019.
```

configure [illegible] ALL_LINGUAS [illegible]

`weblate.gettext.configure`

[illegible]

repository post-add, daily

[illegible]`configure`[illegible]`configure.in`[illegible] `configure.ac` [illegible] ALL_LINGUAS [illegible]

gettext [illegible]

`weblate.gettext.customize`

`width` [illegible]gettext [illegible] 77 [illegible]--no-wrap [illegible]

[illegible]:

`77` -- Wrap lines at 77 characters and at newlines

`65535` -- Only wrap lines at newlines

`-1` -- No line wrapping

storage post-load

[illegible] gettext [illegible]

[illegible]:

77 [illegible]

[illegible]

[illegible]

[illegible]: [illegible]gettext [illegible] 77 [illegible]`--no-wrap` [illegible]

LINGUAS ????????

`weblate.gettext.linguas`

??????????????????

repository post-add, daily

???????????????? LINGUAS ???????????

MO ????????

`weblate.gettext.mo`

`path`?????? MO ??????????????????PO ????????????????

repository pre-commit

?????? PO ???????????? MO ????????????

MO ???????????????????????????????? *???????????????* ????????

POT ?????? PO ???????? (msgmerge)

`weblate.gettext.msgmerge`

`previous`	???????????? msgid ??????
`no_location`	????????????????????
`fuzzy`	????????????

??????????

`msgmerge` ?????? POT ?????? *File mask* ???????????????????? PO ?????? *??????????????* ????????????

??????? upstream ???????????????????????????????? msgmerge ?????? ??? ??????????????????????

??:

Does Weblate update translation files besides translations?

Git ?????????

`weblate.git.squash`

`squash`	?????? ????	???????: `all` -- All commits into one `language` -- Per language `file` -- Per file `author` -- Per author
`append_trailers`	????????????	?????????RFC 822 ???? ??????? "Co-authored-by: …" ???????????????????
`commit_message`	????????????	??

repository post-commit

???????????????Git ??????????????????

???????????? Git ??????????????????????:

?????? 3.4 ???.

?????????? 1 ???????

[illegible]

[illegible]

[illegible] 3.5 [illegible].

[illegible]

[illegible] [illegible]*Per author* [illegible] [illegible]

[illegible] 4.1 [illegible].

[illegible] [illegible] [illegible]

[illegible] [illegible] `Co-authored-by:` … [illegible] [illegible] `Co-authored-by:` [illegible]

JSON [illegible]

`weblate.json.customize`

`sort_keys`	JSON [illegible]
`indent`	JSON [illegible]
`style`	JSON [illegible]: `spaces` -- Spaces; `tabs` -- Tabs

storage post-load

[illegible]JSON [illegible]

Java [illegible] [illegible]

`weblate.properties.sort`

[illegible]

repository pre-commit

Java [illegible] [illegible]

[illegible]

[illegible] 3.7 [illegible].

`weblate.removal.comments`

`age`	[illegible]

daily

[illegible]

[illegible]

[illegible]

[illegible] 3.7 [illegible].

`weblate.removal.suggestions`

`age`	[illegible]
`votes`	[illegible]

daily

RESX

3.9

weblate.resx.update

storage post-load

weblate.yaml.customize

indent	YAML
width	`80` -- Wrap lines at 80 chars `100` -- Wrap lines at 100 chars `120` -- Wrap lines at 120 chars `180` -- Wrap lines at 180 chars `65535` -- No line wrapping
line_break	`dos` -- DOS (\r\n) `unix` -- UNIX (\n) `mac` -- MAC (\r)

:

Does Weblate update translation files besides translations?

YAML

3.10.2

weblate.yaml.customize

storage post-load

YAML

##

WEBLATE_ADDONS

##

weblate.addons.base.BaseAddon

:

??????????????

?????????????????????????????????? Weblate ??

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#
"""Example pre commit script."""


from django.utils.translation import gettext_lazy as _

from weblate.addons.events import EVENT_PRE_COMMIT
from weblate.addons.scripts import BaseScriptAddon


class ExamplePreAddon(BaseScriptAddon):
    # Event used to trigger the script
    events = (EVENT_PRE_COMMIT,)
    # Name of the addon, has to be unique
    name = "weblate.example.pre"
    # Verbose name and long descrption
    verbose = _("Execute script before commit")
    description = _("This addon executes a script.")

    # Script to execute
    script = "/bin/true"
    # File to add in commit (for pre commit event)
    # does not have to be set
    add_file = "po/{{ language_code }}.po"
```

?????????? *?????????????????????* ??????????

???????????????????? VCS ????????????????? ???????????????????

???????????:

WL_VCS
???????????????????

WL_REPO
Upstream ??????? URL?

WL_PATH
VCS ???????????????

WL_BRANCH
?????? 2.11 ???.

???????????????????????????????

WL_FILEMASK
????????????????????

WL_TEMPLATE
????????????????????????????????

WL_NEW_BASE
????? 2.14 ???.

[illegible]

WL_FILE_FORMAT
[illegible]

WL_LANGUAGE
[illegible] [illegible]

WL_PREVIOUS_HEAD
[illegible] HEAD[illegible]

WL_COMPONENT_SLUG
[illegible] 3.9 [illegible].

[illegible] URL [illegible]

WL_PROJECT_SLUG
[illegible] 3.9 [illegible].

[illegible] URL [illegible]

WL_COMPONENT_NAME
[illegible] 3.9 [illegible].

[illegible]

WL_PROJECT_NAME
[illegible] 3.9 [illegible].

[illegible]

WL_COMPONENT_URL
[illegible] 3.9 [illegible].

[illegible] URL[illegible]

WL_ENGAGE_URL
[illegible] 3.9 [illegible].

[illegible] URL[illegible]

[illegible]:

Component configuration

[illegible]

VCS [illegible] upstream [illegible] Weblate [illegible] VCS [illegible]

[illegible]Gulp [illegible]:

```
#! /bin/sh
gulp --gulpfile gulp-i18n-extract.js
git commit -m 'Update source strings' src/languages/en.lang.json
```

[illegible]

[illegible] [illegible]

[illegible]

[illegible]

[illegible] 2.20 [illegible].

Weblate comes with a built-in translation memory consisting of the following:

Manually imported translation memory (see *User interface*).

Automatically stored translations performed in Weblate (depending on *Translation memory scopes*).

Automatically imported past translations.

Content in the translation memory can be applied one of two ways:

Manually, *[illegible]* view while translating.

Automatically, by translating strings using [illegible], or [illegible] addon.

For installation tips, see *Weblate Translation Memory*, which is turned on by default.

Translation memory scopes

[illegible] 3.2 [illegible]: In earlier versions translation memory could be only loaded from a file corresponding to the current imported translation memory scope.

The translation memory scopes are there to allow both privacy and sharing of translations, to suit the desired behavior.

Imported translation memory

Importing arbitrary translation memory data using the `import_memory` command makes memory content available to all users and projects.

Per user translation memory

Stores all user translations automatically in the personal translation memory of each respective user.

Per project translation memory

All translations within a project are automatically stored in a project translation memory only available for this project.

[illegible]

All translation within projects with shared translation memory turned on are stored in a shared translation memory available to all projects.

Please consider carefully whether to turn this feature on for shared Weblate installations, as it can have severe implications:

The translations can be used by anybody else.

This might lead to disclosing secret information.

Managing translation memory

User interface

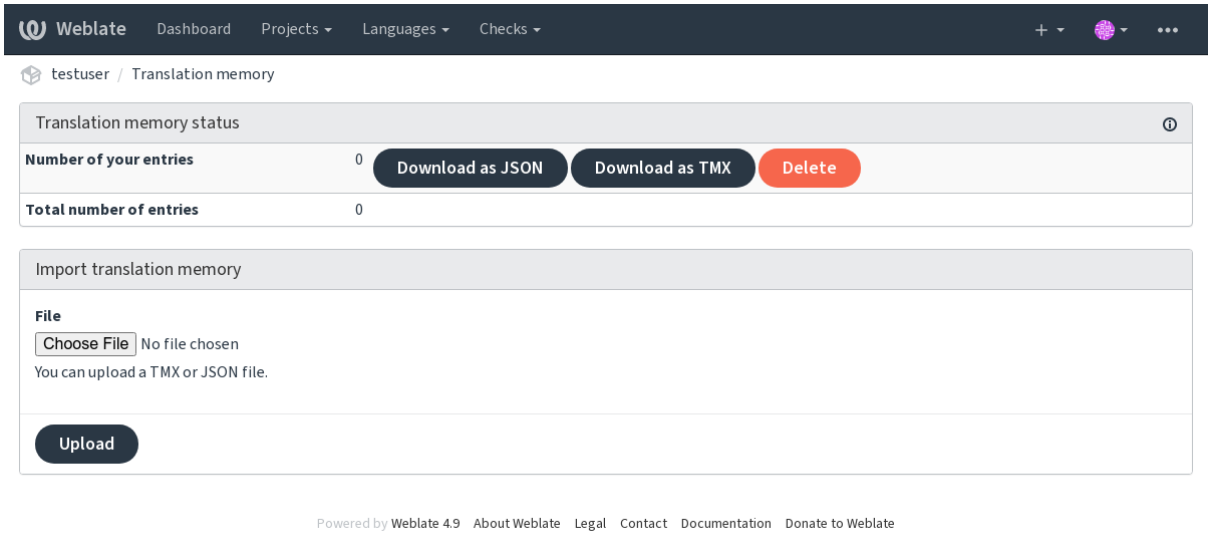
[illegible] 3.2 [illegible].

In the basic user interface you can manage per user and per project translation memories. It can be used to download, wipe or import translation memory.

[illegible]: Translation memory in JSON can be imported into Weblate, TMX is provided for interoperability with other tools.

[illegible]:

Weblate [illegible]



????

There are several management commands to manipulate the translation memory content. These operate on the translation memory as whole, unfiltered by scopes (unless requested by parameters):

Exports the memory into JSON

Imports TMX or JSON files into the translation memory

??

???????? `settings.py` ?????????Django ?????????

??: ???????????Weblate?WSGI ????? Celery ??????????????????

`mod_wsgi` ???????????Apache ??????????????????

??:

Django ??????????????????Django's documentation ??????????

AKISMET_API_KEY

Weblate ? Akismet ????????????????????????????API ????????????????akismet.com ???????????

ANONYMOUS_USER_NAME

??????????????????

??:

???????

AUDITLOG_EXPIRY

[illegible] 3.6 [illegible].

[illegible] Weblate [illegible]

[illegible] 180 [illegible]

AUTH_LOCK_ATTEMPTS

[illegible] 2.14 [illegible].

[illegible]

[illegible]

[illegible] [illegible]

[illegible]

[illegible] 10 [illegible]

[illegible]:

[illegible],

AUTO_UPDATE

[illegible] 3.2 [illegible].

[illegible] 3.11 [illegible]: [illegible] on/off [illegible]

[illegible]

[illegible]: Weblate [illegible] *[illegible]* [illegible]

[illegible]: [illegible] on/off [illegible]

[illegible]:

[illegible]

[illegible]

[illegible]

[illegible]: [illegible]*Celery [illegible] [illegible]* [illegible]

AVATAR_URL_PREFIX

[illegible] URL [illegible]: `${AVATAR_URL_PREFIX}/avatar/${MAIL_HASH}?${PARAMS}`[illegible]:

`AVATAR_URL_PREFIX = 'https://www.gravatar.com/'`

`AVATAR_URL_PREFIX = 'https://www.libravatar.org/'`

[illegible]:

[illegible]`ENABLE_AVATARS`*[illegible]Avatars*

AUTH_TOKEN_VALID

[illegible] 2.14 [illegible].

[illegible] [illegible] [illegible] 172800[illegible]2 [illegible]

AUTH_PASSWORD_DAYS

[illegible] 2.15 [illegible].

[illegible]

[illegible]: Weblate 2.15 [illegible]

[illegible] 180 [illegible]

AUTOFIX_LIST

[illegible]

[illegible]: autofixer [illegible] Python [illegible]

[illegible]:

[illegible]

[illegible]…[illegible]...[illegible]

[illegible]

[illegible]

`safe-html` [illegible] HTML [illegible]: *[illegible] HTML*[illegible]

[illegible]:

```
AUTOFIX_LIST = (
    "weblate.trans.autofixes.whitespace.SameBookendingWhitespace",
    "weblate.trans.autofixes.chars.ReplaceTrailingDotsWithEllipsis",
)
```

[illegible]:

[illegible]

BACKGROUND_TASKS

[illegible] 4.5.2 [illegible].

[illegible] [illegible]

[illegible]:

[illegible] [illegible]

[illegible] [illegible]

[illegible]:

``monthly `` [illegible]

`weekly`

`daily`

`never`

[illegible]: Weblate [illegible]

BASE_DIR

Weblate [illegible]:

DATA_DIR

[illegible]Weblate [illegible]

BASIC_LANGUAGES

[illegible] 4.4 [illegible].

List of languages to offer users for starting new translation. When not specified built-in list is used which includes all commonly used languages, but without country specific variants.

[illegible] Weblate [illegible]

[illegible]: [illegible] Weblate [illegible]

[illegible]:

```
BASIC_LANGUAGES = {"cs", "it", "ja", "en"}
```

[illegible]:

[illegible]

BORG_EXTRA_ARGS

[illegible] 4.9 [illegible].

You can pass additional arguments to **`borg create`** when built-in backups are triggerd.

[illegible]:

```
BORG_EXTRA_ARGS = ["--exclude", "vcs/"]
```

[illegible]:

Weblate [illegible], borg create

CSP_SCRIPT_SRC、CSP_IMG_SRC、CSP_CONNECT_SRC、CSP_STYLE_SRC、CSP_FONT_SRC

Weblate [illegible] `Content-Security-Policy` [illegible] Matomo、Google [illegible] Sentry、[illegible]

[illegible]

[illegible]:

```
# Enable Cloudflare Javascript optimizations
CSP_SCRIPT_SRC = ["ajax.cloudflare.com"]
```

[illegible]:

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] CSP

CHECK_LIST

[illegible]

[illegible]: check [illegible] Python [illegible]

[illegible]

[illegible] *[illegible]* [illegible] *[illegible]* [illegible]Weblate [illegible]

[illegible]:

```
CHECK_LIST = ()
```

[illegible]:

```
CHECK_LIST = (
    "weblate.checks.chars.BeginNewlineCheck",
    "weblate.checks.chars.EndNewlineCheck",
    "weblate.checks.chars.MaxLengthCheck",
)
```

[illegible]: [illegible] *up*
[illegible]

[illegible]:
[illegible]

COMMENT_CLEANUP_DAYS

[illegible] 3.6 [illegible].

[illegible] `None` [illegible]

COMMIT_PENDING_HOURS

[illegible] 2.10 [illegible].

[illegible] [illegible]

[illegible]:
Component configuration[illegible] *[illegible]* [illegible]*commit_pending*

CONTACT_FORM

[illegible] 4.6 [illegible].

Configures how e-mail from the contact form is being sent. Choose a configuration that matches your mail server configuration.

The sender is used in as *Reply-To*, this is the default behaviour.

The sender is used in as *From*. Your mail server needs to allow sending such e-mails.

DATA_DIR

Weblate [illegible]VCS [illegible] [illegible]

[illegible]:

[illegible]

SSH [illegible]

`STATIC_ROOT` [illegible] Django [illegible]: *[illegible]*

The Docker container uses a separate volume for this, see *Docker container volumes*.

`MEDIA_ROOT` [illegible]Django [illegible]: *Visual context for strings*[illegible]

[illegible]

[illegible] [illegible] *Dumped data for backups* [illegible]

Celery [illegible] [illegible]: *Celery [illegible]*

User-uploaded fonts, see *[illegible]*.

[illegible]: [illegible]Weblate [illegible]uWSGI [illegible]`www-data` [illegible]

[illegible]:

```
sudo chown www-data:www-data -R $DATA_DIR
```

[illegible] `$BASE_DIR/data` [illegible]

[illegible]:

`BASE_DIR`[illegible] [illegible]Weblate [illegible]

DATABASE_BACKUP

[illegible] 3.1 [illegible].

[illegible] [illegible] [illegible]

`"plain"`

`"compressed"`

`"none"`

[illegible]:

Weblate [illegible]

DEFAULT_ACCESS_CONTROL

[illegible] 3.3 [illegible].

[illegible]:

[illegible]

[illegible]

[illegible]

[illegible]

ACL [illegible] [illegible]Weblate [illegible]

[illegible]:

[illegible]

DEFAULT_AUTO_WATCH

□□□□□ 4.5 □□□.

Configures whether *Automatically watch projects on contribution* should be turned on for new users. Defaults to `True`.

□□:

□□

DEFAULT_RESTRICTED_COMPONENT

□□□□□ 4.1 □□□.

□□□□□□□□□□□□□□□□□□□□□□

□□:

□□□□□□□□□□□□□□□□□□□

DEFAULT_ADD_MESSAGE□DEFAULT_ADDON_MESSAGE□DEFAULT_COMMIT_MESSAGE□DEFAULT_DEL

□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□ *Component configuration* □□□□□□□□□□□□□

□□:

□□□□□□□□□□□□□□□□□□□□Component configuration□Commit, add, delete, merge and addon messages

DEFAULT_ADDONS

□□□

□□: □□

□:

```
DEFAULT_ADDONS = {
    # Add-on with no parameters
    "weblate.flags.target_edit": {},
    # Add-on with parameters
    "weblate.autotranslate.autotranslate": {
        "mode": "suggest",
        "filter_type": "todo",
        "auto_source": "mt",
        "component": "",
        "engines": ["weblate-translation-memory"],
        "threshold": "80",
    },
}
```

□□:

install_addon□□□□□□WEBLATE_ADDONS

DEFAULT_COMMITER_EMAIL

□□□□□ 2.4 □□□.

□□□□□□□□□□□□□□□□□□□□□□□□□□ `noreply@weblate.org` □□□

□□:

DEFAULT_COMMITER_NAME

DEFAULT_COMMITER_NAME

[illegible] 2.4 [illegible].

[illegible] `Weblate` [illegible]

[illegible]:

DEFAULT_COMMITER_EMAIL

DEFAULT_LANGUAGE

[illegible] 4.3.2 [illegible].

[illegible] [illegible]

[illegible] *en* [illegible]

[illegible]:

[illegible]

DEFAULT_MERGE_STYLE

[illegible] 3.4 [illegible].

[illegible]

rebase - [illegible]

merge

[illegible]:

Component configuration[illegible]

DEFAULT_SHARED_TM

[illegible] 3.2 [illegible].

Configures default value of *[illegible]* and *[illegible]*.

DEFAULT_TRANSLATION_PROPAGATION

[illegible] 2.5 [illegible].

[illegible] `True` [illegible]

[illegible]:

Component configuration[illegible]

DEFAULT_PULL_MESSAGE

[illegible] `'Update from Weblate'` [illegible]

ENABLE_AVATARS

[illegible] Gravatar - [illegible]

[illegible]

[illegible]:

[illegible]`AVATAR_URL_PREFIX`[illegible]*Avatars*

ENABLE_HOOKS

[illegible] [illegible]

[illegible]:

[illegible]

ENABLE_HTTPS

Weblate [illegible] HTTPS [illegible] HTTP [illegible] URL [illegible]

[illegible] HTTPS [illegible] Django [illegible] - [illegible] Cookie [illegible]HSTS [illegible]HTTPS URL [illegible]

HTTPS [illegible]Django [illegible] [illegible] SSL [illegible]`X-Forwarded-Proto` [illegible] `Forwarded` [illegible] [illegible]Django [illegible] SSL [illegible] `SECURE_PROXY_SSL_HEADER` [illegible]

[illegible]:

`SESSION_COOKIE_SECURE`[illegible]`CSRF_COOKIE_SECURE`[illegible]`SECURE_SSL_REDIRECT`[illegible]`SECURE_PROXY_SSL_HEADER` *[illegible]*

ENABLE_SHARING

[illegible] [illegible]/*[illegible]* [illegible] on/off [illegible]

GET_HELP_URL

[illegible] 4.5.2 [illegible].

Weblate [illegible] URL[illegible]

GITLAB_CREDENTIALS

[illegible] 4.3 [illegible].

GitLab [illegible]

[illegible]: Weblate [illegible] GitLab [illegible] GitLab [illegible] *GITLAB_USERNAME* [illegible] *GITLAB_TOKEN* [illegible]

```
GITLAB_CREDENTIALS = {
    "gitlab.com": {
        "username": "weblate",
        "token": "your-api-token",
    },
    "gitlab.example.com": {
        "username": "weblate",
        "token": "another-api-token",
    },
}
```

GITLAB_USERNAME

GitLab [illegible]

[illegible]:

GITLAB_CREDENTIALS[illegible]*GitLab*

GITLAB_TOKEN

[illegible] 4.3 [illegible].

[illegible] API [illegible] GitLab [illegible] [illegible]

[illegible]:

GITLAB_CREDENTIALS[illegible]*GitLab*[illegible]GitLab: Personal access token

GITHUB_CREDENTIALS

[illegible] 4.3 [illegible].

GitHub [illegible]

[illegible]: Weblate [illegible] GitHub [illegible] GitHub [illegible] *GITHUB_USERNAME* [illegible] *GITHUB_TOKEN* [illegible]

```
GITHUB_CREDENTIALS = {
    "api.github.com": {
        "username": "weblate",
        "token": "your-api-token",
    },
    "github.example.com": {
        "username": "weblate",
        "token": "another-api-token",
    },
}
```

GITHUB_USERNAME

GitHub [illegible]

[illegible]:

GITHUB_CREDENTIALS[illegible]*GitHub*

GITHUB_TOKEN

[illegible] 4.3 [illegible].

GitHub [illegible] [illegible] [illegible] API [illegible]

[illegible]:

GITHUB_CREDENTIALS[illegible]*GitHub*[illegible]

GOOGLE_ANALYTICS_ID

Google [illegible] ID [illegible] Weblate [illegible]

HIDE_REPO_CREDENTIALS

Web [illegible] URL [illegible]Weblate [illegible] URL [illegible]

[illegible] `https://user:password@git.example.com/repo.git` [illegible] `https://git.example.com/repo.git`` [illegible]VCS [illegible]

[illegible]: [illegible]

HIDE_VERSION

[illegible] 4.3.1 [illegible].

[illegible]

[illegible]

[illegible]: [illegible]

IP_BEHIND_REVERSE_PROXY

[illegible] 2.14 [illegible].

Weblate [illegible]

`True` [illegible]Weblate [illegible] *IP_PROXY_HEADER* [illegible] IP [illegible]

> **[illegible]:** [illegible] IP [illegible]

[illegible]: [illegible]

[illegible]:

[illegible], *IP_PROXY_HEADER*, *IP_PROXY_OFFSET*

IP_PROXY_HEADER

[illegible] 2.14 [illegible].

IP_BEHIND_REVERSE_PROXY [illegible]Weblate [illegible] IP [illegible]

[illegible] `HTTP_X_FORWARDED_FOR` [illegible]

[illegible]:

[illegible], `SECURE_PROXY_SSL_HEADER`, *IP_BEHIND_REVERSE_PROXY*, *IP_PROXY_OFFSET*

IP_PROXY_OFFSET

□□□□□ 2.14 □□□.

□□□□□□□ IP □□□□□□□ *IP_PROXY_HEADER* □□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□ IP □□□□□□: `X-Forwarded-For: a, b, client-ip`□□□ IP □□□□□□□□□□□□□□□□□□□□□□□□□□□

□□: □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□IP □□

□□□□□□ 0 □□□

□□:

□□□□ □□□□□□□□□□□□□□□□□□, SECURE_PROXY_SSL_HEADER, *IP_BEHIND_REVERSE_PROXY*□*IP_PROXY_HEADER*

LEGAL_URL

□□□□□ 3.5 □□□.

Weblate □□□□□□□□□□□□□□□□□ URL□

□□□: Weblate□□□□□□□□□□□□□□□□□□□□□□□□□□□□Weblate□□□□□□□□□□□□□□□□□□□□ *□□□□□□□□* □□□□□□□□□□

□:

```
LEGAL_URL = "https://weblate.org/terms/"
```

□□:

PRIVACY_URL

LICENSE_EXTRA

□□□□□□□□□□□□□□□□□□□□□□□□

□□: □□□□□□□□□□□□□□□□□□□□□□□□□□□ URL □□□□□□□□□□□□□□□□□

□:

```
LICENSE_EXTRA = [
    (
        "AGPL-3.0",
        "GNU Affero General Public License v3.0",
        "https://www.gnu.org/licenses/agpl-3.0-standalone.html",
    ),
]
```

LICENSE_FILTER

□□□□□ 4.3 □□□: □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□ □□

□□: □□□□□□□□□□□□□□□□□□□□□□□□□□□

□:

```
LICENSE_FILTER = {"AGPL-3.0", "GPL-3.0-or-later"}
```

□□□□□□□□□□□□□□□□□:

```
LICENSE_FILTER = set()
```

??:

alerts

LICENSE_REQUIRED

Component configuration ??????????????????????????

??: ??????????????

LIMIT_TRANSLATION_LENGTH_BY_SOURCE_LENGTH

?? * 10 ??????

???: ??? `False` ??????????????????????????????????10,000 ????????????????

??: ??????? `True` ???

LOCALIZE_CDN_URL ??? LOCALIZE_CDN_PATH

???????? *JavaScript ????? CDN* ????????????? *LOCALIZE_CDN_URL* ?????? CDN ????????? URL ??????*LOCALIZE_CDN_PATH* ? *LOCALIZE_CDN_URL* ????????????? Weblate ??????????????????

???: Hosted Weblate ???`https://weblate-cdn.com/` ????????

??:

JavaScript ????? CDN

LOGIN_REQUIRED_URLS

????????? URL ??????Weblate ????????????????

???: ????????????????????????????????

```
LOGIN_REQUIRED_URLS = (r"/(.*)$",)
REST_FRAMEWORK["DEFAULT_PERMISSION_CLASSES"] = [
    "rest_framework.permissions.IsAuthenticated"
]
```

???: ???????????API ????????????????????

??:

REQUIRE_LOGIN

LOGIN_REQUIRED_URLS_EXCEPTIONS

LOGIN_REQUIRED_URLS ??????????????????????????? ?? ????????????????

???????????:

```
LOGIN_REQUIRED_URLS_EXCEPTIONS = (
    r"/accounts/(.*)$",  # Required for sign in
    r"/static/(.*)$",  # Required for development mode
    r"/widgets/(.*)$",  # Allowing public access to widgets
    r"/data/(.*)$",  # Allowing public access to data exports
    r"/hooks/(.*)$",  # Allowing public access to notification hooks
    r"/api/(.*)$",  # Allowing access to API
    r"/js/i18n/$",  # JavaScript localization
)
```

MATOMO_SITE_ID

???? Matomo?? Piwik????? ID?

??: ???????Matomo ?? ??????????????????

??:

MATOMO_URL

MATOMO_URL

Weblate ???????????????? Matomo???? Piwik??????????? URL???????????????????? <https://matomo.org/> ???????????

???: ???????Matomo ?? ??????????????????

?:

```
MATOMO_SITE_ID = 1
MATOMO_URL = "https://example.matomo.cloud/"
```

??:

MATOMO_SITE_ID

MT_SERVICES

????? 3.0 ???: ??????????????????????????? `MACHINE_TRANSLATION_SERVICES` ?? `MT_SERVICES` ?????????

??????????????????????

??: ????????? API ??????????????????????????? *?????* ????????????????

???: When using Docker container, this configuration is automatically generated based on provided API keys, see *Machine translation settings*.

```
MT_SERVICES = (
    "weblate.machinery.apertium.ApertiumAPYTranslation",
    "weblate.machinery.deepl.DeepLTranslation",
    "weblate.machinery.glosbe.GlosbeTranslation",
    "weblate.machinery.google.GoogleTranslation",
    "weblate.machinery.libretranslate.LibreTranslateTranslation",
    "weblate.machinery.microsoft.MicrosoftCognitiveTranslation",
```

(?????????)

(□□□□□□□□□□)

```
    "weblate.machinery.microsoftterminology.MicrosoftTerminologyService",
    "weblate.machinery.mymemory.MyMemoryTranslation",
    "weblate.machinery.tmserver.AmagamaTranslation",
    "weblate.machinery.tmserver.TMServerTranslation",
    "weblate.machinery.yandex.YandexTranslation",
    "weblate.machinery.weblatetm.WeblateTranslation",
    "weblate.machinery.saptranslationhub.SAPTranslationHub",
    "weblate.memory.machine.WeblateMemory",
)
```

□□:

□□□□□□□□□□

MT_APERTIUM_APY

Apertium-APy □□□□□ URL□ https://wiki.apertium.org/wiki/Apertium-apy

□□:

Apertium□□□□□□□□□□

MT_AWS_ACCESS_KEY_ID

Amazon □□□□□□□□ ID□

□□:

AWS□□□□□□□□□□

MT_AWS_SECRET_ACCESS_KEY

□□□□□□□□ API □□□□

□□:

AWS□□□□□□□□□□

MT_AWS_REGION

Amazon □□□□□□□□□□□□□□□

□□:

AWS□□□□□□□□□□

MT_BAIDU_ID

Baidu Zhiyun API □□□□□□□ ID □□https://api.fanyi.baidu.com/api/trans/product/index □□□□

□□:

Baidu API machine translation□□□□□□□□□□

MT_BAIDU_SECRET

Baidu Zhiyun API ???????? ?????????https://api.fanyi.baidu.com/api/trans/product/index ????

??:

Baidu API machine translation??????????

MT_DEEPL_API_URL

????? 4.7 ???: ????????????API ???? URL ??????????????????MT_DEEPL_API_VERSION ????? API ??????????????????????

DeepL ????????? API ? URL ?????????v1 API ????v2 API ????????????

???????? API ????????????????????????

???????? API ????????????????????????

CAT ????????????????????????????????

?? Weblate ? DeepL ???? CAT ??????????????v1 API ???????????????????? v2 API ???????????????????????????? v2 ????????????? CAT ????????????? Weblate ???????????????????? v1 ?????????

???? URL ???????????????????????? URL ????:

https://api.deepl.com/v2/translate?text=Greetings&target_lang=JA&auth_key=XXX

XXX ???? auth_key ?????????"Bonjour" ??? JSON ???????????????? URL ?????????? 3 ???????????

??:

DeepL??????????

MT_DEEPL_KEY

DeepL API ? API ??https://www.deepl.com/pro.html ????

??:

DeepL??????????

MT_LIBRETRANSLATE_API_URL

????? 4.7.1 ???.

API URL for the LibreTranslate instance to use.

Requires an API key to use outside of the website.

Mirrors are documented on the LibreTranslate GitHub repository, some of which can be used without authentication:

https://github.com/LibreTranslate/LibreTranslate#user-content-mirrors

??:

LibreTranslate, *????*, *????*

MT_LIBRETRANSLATE_KEY

????? 4.7.1 ???.

API key for the LibreTranslate instance specified in *MT_LIBRETRANSLATE_API_URL*.

??:

LibreTranslate, *????*, *????*

MT_GOOGLE_KEY

Google Translate API v2 □ API □□register at https://cloud.google.com/translate/docs □□□□

□□:

Google Translate□□□□□□□□□□

MT_GOOGLE_CREDENTIALS

Google □□□□ □□□□□□□□□□□ API v3 JSON □□□□□□□□□□□□□□ OS □□ □□□□□□□□□□□□□□□□□□ https://cloud.google.com/docs/authentication/getting-started □□□□□□□□□□

MT_GOOGLE_PROJECT

Google □□□□ API v3 □□□□□□ ID □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ https://cloud.google.com/appengine/docs/standard/nodejs/building-app/creating-project □□□□□□□□□

MT_GOOGLE_LOCATION

API v3 Google □□□□ □□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `global` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□ https://cloud.google.com/appengine/docs/locations □□□□□□□□□

□□:

Google Translate API V3 (Advanced)

MT_MICROSOFT_BASE_URL

"Base URLs" □□□□□ □□□□□□□□□□□□□□ □□□ URL □□□□□

Azure □□□□□□□□□□□□ `api.cognitive.microsofttranslator.com` □□□

Azure China □□□□□`api.translator.azure.cn` □□□□□□□□□□

MT_MICROSOFT_COGNITIVE_KEY

Microsoft Cognitive Services Translator API □□□□□□□□□□□

□□:

Microsoft Cognitive Services Translator□□□□□□□□□□Cognitive Services - Text Translation API □Microsoft Azure Portal

MT_MICROSOFT_REGION

"□□□ □□□□ □□□□□□□□□□" □□□□□□□□□□□□□□□□□□□□□□□□□

MT_MICROSOFT_ENDPOINT_URL

"□□□□ □□□□□□□□□□□□□" □□□□□ □□□□□□□□□□□□ □□□□□□□□□□ □□□□□□□ URL □□□□ □

Azure □□□□□□□□□□□□ `api.cognitive.microsoft.com` □□□

Azure China □□□□□Azure □□□□□□□□□□□□□□□□□□□□□□□□□

MT_MODERNMT_KEY

ModernMT □□□□□□□□□□ API □□□
□□:
ModernMT `MT_MODERNMT_URL`

MT_MODERNMT_URL

ModernMT □ URL□□□□□ □□□□□□□□□□□□ `https://api.modernmt.com/` □□□
□□:
ModernMT `MT_MODERNMT_KEY`

MT_MYMEMORY_EMAIL

MyMemory □□□□□□□□□□□□□1 □□□□ 1000 □□□□□□□□□□□□□□□
□□:
MyMemory□□□□□□□□□□MyMemory: API technical specifications

MT_MYMEMORY_KEY

□□□□□□□□□□□□□ MyMemory □□□□□□□□*MT_MYMEMORY_USER* □□□□□□□□□□□□
□□:
MyMemory□□□□□□□□□□MyMemory: API key generator

MT_MYMEMORY_USER

□□□□□□□□□□□□□ MyMemory □□□□ ID □□*MT_MYMEMORY_KEY* □□□□□□□□□□□
□□:
MyMemory□□□□□□□□□□MyMemory: API key generator

MT_NETEASE_KEY

NetEase Sight API □ App key□https://sight.youdao.com/ □□□□
□□:
NetEase Sight API machine translation□□□□□□□□□

MT_NETEASE_SECRET

NetEase Sight API □ App secret□https://sight.youdao.com/ □□□□
□□:
NetEase Sight API machine translation□□□□□□□□□

MT_TMSERVER

tmserver □□□□□□□□ URL□

□□:

tmserver□□□□□□□□□□□□□tmserver

MT_YANDEX_KEY

Yandex Translate API □ API key□https://yandex.com/dev/translate/ □□□□

□□:

Yandex Translate□□□□□□□□□□

MT_YOUDAO_ID

Youdao Zhiyun API □□□□□□□□ ID □□https://ai.youdao.com/product-fanyi-text.s □□□□

□□:

Youdao Zhiyun API machine translation□□□□□□□□□□

MT_YOUDAO_SECRET

Youdao Zhiyun API □ Client secret □□https://ai.youdao.com/product-fanyi-text.s □□□□

□□:

Youdao Zhiyun API machine translation□□□□□□□□□□

MT_SAP_BASE_URL

SAP Translation Hub □□□□□□□ API URL□

□□:

SAP Translation Hub□□□□□□□□□□

MT_SAP_SANDBOX_APIKEY

□□□□□□□□ API □□ API key

□□:

SAP Translation Hub□□□□□□□□□□

MT_SAP_USERNAME

SAP □□□□□

□□:

SAP Translation Hub□□□□□□□□□□

MT_SAP_PASSWORD

SAP [illegible]

[illegible]:

SAP Translation Hub[illegible]

MT_SAP_USE_MT

[illegible] `True` [illegible] `False`

[illegible]:

SAP Translation Hub[illegible]

NEARBY_MESSAGES

[illegible] *[illegible]* [illegible]

DEFAULT_PAGE_LIMIT

[illegible] 4.7 [illegible].

Default number of elements to display when pagination is active.

PAGURE_CREDENTIALS

[illegible] 4.3.2 [illegible].

Pagure [illegible]

[illegible]: Weblate [illegible] Pagure [illegible] Pagure [illegible] *PAGURE_USERNAME* [illegible] *PAGURE_TOKEN* [illegible]

```
PAGURE_CREDENTIALS = {
    "pagure.io": {
        "username": "weblate",
        "token": "your-api-token",
    },
    "pagure.example.com": {
        "username": "weblate",
        "token": "another-api-token",
    },
}
```

PAGURE_USERNAME

[illegible] 4.3.2 [illegible].

[illegible] [illegible] Pagure [illegible]

[illegible]:

PAGURE_CREDENTIALS[illegible]*Pagure*

PAGURE_TOKEN

□□□□□ 4.3.2 □□□.

□□□□□□□□□□ API □□□□ Pagure □□□□□□□□ □□□□□

□□:

PAGURE_CREDENTIALS□*Pagure*□Pagure API

PRIVACY_URL

□□□□□ 4.8.1 □□□.

URL where your Weblate instance shows its privacy policy.

□□□: Weblate□□□□□□□□□□□□□□□□□□□□□□□□□□Weblate□□□□□□□□□□□□□□□□□□ *□□□□□□□□* □□□□□□□□□□

□:

```
PRIVACY_URL = "https://weblate.org/terms/"
```

□□:

LEGAL_URL

RATELIMIT_ATTEMPTS

□□□□□ 3.2 □□□.

□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□ 5 □□□□

□□:

□□□□□*RATELIMIT_WINDOW*□*RATELIMIT_LOCKOUT*

RATELIMIT_WINDOW

□□□□□ 3.2 □□□.

□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□ 300 □□5 □□□□□

□□:

□□□□□*RATELIMIT_ATTEMPTS*□*RATELIMIT_LOCKOUT*

RATELIMIT_LOCKOUT

□□□□□ 3.2 □□□.

□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□ 600 □□10 □□□□□

□□:

□□□□□*RATELIMIT_ATTEMPTS*□*RATELIMIT_WINDOW*

REGISTRATION_ALLOW_BACKENDS

[illegible] 4.1 [illegible].

[illegible]

[illegible] *REGISTRATION_OPEN* [illegible]Weblate [illegible] [illegible]

[illegible]:

```
REGISTRATION_ALLOW_BACKENDS = ["azuread-oauth2", "azuread-tenant-oauth2"]
```

[illegible]: [illegible] URL [illegible]

[illegible]:

REGISTRATION_OPEN[illegible]

REGISTRATION_CAPTCHA

[illegible] CAPTCHA [illegible] `True` [illegible] `False` [illegible] `True` [illegible]

[illegible] [illegible] CAPTCHA [illegible]

[illegible]

[illegible]

[illegible]

[illegible] [illegible]

REGISTRATION_EMAIL_MATCH

[illegible] 2.17 [illegible].

[illegible] [illegible]

[illegible] `.*`[illegible]

[illegible] [illegible]

```
REGISTRATION_EMAIL_MATCH = r"^.*@weblate\.org$"
```

REGISTRATION_OPEN

[illegible] `True` [illegible] `False` [illegible]

[illegible] Python Social Auth [illegible]:setting:`REGISTRATION_ALLOW_BACKENDS`[illegible]

[illegible]: *LDAP* [illegible] [illegible] [illegible]

[illegible]:

REGISTRATION_ALLOW_BACKENDS[illegible]*REGISTRATION_EMAIL_MATCH*[illegible]

REPOSITORY_ALERT_THRESHOLD

□□□□□ 4.0.2 □□□.

□□ 25 □□□

□□:

alerts

REQUIRE_LOGIN

□□□□□ 4.1 □□□.

□□□□□ *LOGIN_REQUIRED_URLS* □□□□□□□REST □□□□□□□□□□□□□□ API □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□: □□□ *□□□* □□□□□□□□□□□□Docker □□□□ *WEBLATE_REQUIRE_LOGIN* □□□□□□□□

SENTRY_DSN

□□□□□ 3.9 □□□.

□□□ □□□□□□□□ □□□□□ Sentry DSN□

□□:

Sentry □ Django □□

SESSION_COOKIE_AGE_AUTHENTICATED

□□□□□ 4.3 □□□.

□□□ SESSION_COOKIE_AGE □□□□□□□□□□□□□

□□:

SESSION_COOKIE_AGE

SIMPLIFY_LANGUAGES

□□ `fr_FR` □□□□ `fr` □□

Turn this off if you want to different translations for each variant.

SITE_DOMAIN

□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□: □□□□□□□□□□□ □□□□□□□□□□□□□□RSS □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□:

```
# Production site with domain name
SITE_DOMAIN = "weblate.example.com"

# Local development with IP address and port
SITE_DOMAIN = "127.0.0.1:8000"
```

□□: □□HTTPS □□□□□□□□□□□□ *ENABLE_HTTPS* □□□□□URL □□□□□ *URL_PREFIX* □□□□□□□□

□□□: Docker □□□□□□□□□□□□□ □□□□□ *WEBLATE_ALLOWED_HOSTS* □□□□□□□□

注意:

HTTPS WEBLATE_SITE_DOMAIN ENABLE_HTTPS

SITE_TITLE

Web

SPECIAL_CHARS

默认值 *(取决于语言)*

```
SPECIAL_CHARS = ("\t", "\n", "\u00a0", "…")
```

SINGLE_PROJECT

3.8

True Weblate 1

3.11 :

例如:

```
SINGLE_PROJECT = "test"
```

SSH_EXTRA_ARGS

4.9

Allows to add custom parameters when Weblate is invoking SSH. This is useful when connecting to servers using legacy encryption or other non-standard features.

For example when SSH connection in Weblate fails with *Unable to negotiate with legacyhost: no matching key exchange method found. Their offer: diffie-hellman-group1-sha1*, you can enable that using:

```
SSH_EXTRA_ARGS = "-oKexAlgorithms=+diffie-hellman-group1-sha1"
```

警告: The string is evaluated by shell, so make sure to quote any whitespace and special characters.

注意:

OpenSSH Legacy Options

STATUS_URL

Weblate URL

SUGGESTION_CLEANUP_DAYS

3.2.1

None

UPDATE_LANGUAGES

[illegible] 4.3.2 [illegible].

[illegible] *setuplang* [illegible]

[illegible]:

[illegible]

URL_PREFIX

[illegible]Weblate [illegible]Weblate [illegible]

[illegible]: [illegible] WSGI [illegible]`WSGIScriptAlias` [illegible]

[illegible]: [illegible] / [illegible]

[illegible]:

```
URL_PREFIX = "/translations"
```

[illegible]: [illegible] Django [illegible]`urls.py` [illegible]

VCS_BACKENDS

[illegible] VCS [illegible]

[illegible]: Weblate [illegible]

[illegible]: [illegible] VCS [illegible]

```
VCS_BACKENDS = ("weblate.vcs.git.GitRepository",)
```

[illegible]:

[illegible]

VCS_CLONE_DEPTH

[illegible] 3.10.2 [illegible].

Weblate [illegible] [illegible]

[illegible]: [illegible] *Git* [illegible]Weblate [illegible]: [illegible] *[illegible]* [illegible] 0 [illegible]

[illegible]: Weblate [illegible] `fatal: protocol error: expected old/new/ref, got 'shallow <commit hash>'` [illegible]

```
VCS_CLONE_DEPTH = 0
```

WEBLATE_ADDONS

[illegible]

```
WEBLATE_ADDONS = (
    # Built-in addons
    "weblate.addons.gettext.GenerateMoAddon",
    "weblate.addons.gettext.UpdateLinguasAddon",
    "weblate.addons.gettext.UpdateConfigureAddon",
    "weblate.addons.gettext.MsgmergeAddon",
    "weblate.addons.gettext.GettextCustomizeAddon",
    "weblate.addons.gettext.GettextAuthorComments",
    "weblate.addons.cleanup.CleanupAddon",
    "weblate.addons.consistency.LangaugeConsistencyAddon",
    "weblate.addons.discovery.DiscoveryAddon",
    "weblate.addons.flags.SourceEditAddon",
    "weblate.addons.flags.TargetEditAddon",
    "weblate.addons.flags.SameEditAddon",
    "weblate.addons.flags.BulkEditAddon",
    "weblate.addons.generate.GenerateFileAddon",
    "weblate.addons.json.JSONCustomizeAddon",
    "weblate.addons.properties.PropertiesSortAddon",
    "weblate.addons.git.GitSquashAddon",
    "weblate.addons.removal.RemoveComments",
    "weblate.addons.removal.RemoveSuggestions",
    "weblate.addons.resx.ResxUpdateAddon",
    "weblate.addons.autotranslate.AutoTranslateAddon",
    "weblate.addons.yaml.YAMLCustomizeAddon",
    "weblate.addons.cdn.CDNJSAddon",
    # Add-on you want to include
    "weblate.addons.example.ExampleAddon",
)
```

[illegible]: Weblate[illegible]Weblate [illegible]

[illegible]:

[illegible]DEFAULT_ADDONS

WEBLATE_EXPORTERS

[illegible] 4.2 [illegible].

[illegible]

[illegible]:

[illegible]

WEBLATE_FORMATS

[illegible] 3.0 [illegible].

[illegible]

[illegible]: [illegible]

[illegible]:

[illegible]

WEBLATE_GPG_IDENTITY

□□□□□ 3.1 □□□.

Weblate □ Git □□□□□□□□□□□□□□□□□ ID□□□□:

```
WEBLATE_GPG_IDENTITY = "Weblate <weblate@example.com>"
```

Weblate GPG □□□□□□□□□□□□□□□□□□□□□□*DATA_DIR* □□□ `home/.gnupg`□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Signing Git commits with GnuPG □□□□□□□□□□□

□□:

Signing Git commits with GnuPG

WEBSITE_REQUIRED

Defines whether *□□□□□□□ Web □□□* has to be specified when creating a project. Turned on by default as that suits public server setups.

□□□

Weblate □□□□□□□□□□□□□□□ `weblate/settings_example.py` □

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#


import os
import platform
from logging.handlers import SysLogHandler

# Title of site to use
SITE_TITLE = "Weblate"

# Site domain
SITE_DOMAIN = ""

# Whether site uses https
ENABLE_HTTPS = False

#
# Django settings for Weblate project.
#

DEBUG = True

ADMINS = (
    # ("Your Name", "your_email@example.com"),
)
```

(□□□□□□□□)

```
MANAGERS = ADMINS

DATABASES = {
    "default": {
        # Use "postgresql" or "mysql".
        "ENGINE": "django.db.backends.postgresql",
        # Database name.
        "NAME": "weblate",
        # Database user.
        "USER": "weblate",
        # Name of role to alter to set parameters in PostgreSQL,
        # use in case role name is different than user used for␣
↪authentication.
        # "ALTER_ROLE": "weblate",
        # Database password.
        "PASSWORD": "",
        # Set to empty string for localhost.
        "HOST": "127.0.0.1",
        # Set to empty string for default.
        "PORT": "",
        # Customizations for databases.
        "OPTIONS": {
            # In case of using an older MySQL server,
            # which has MyISAM as a default storage
            # "init_command": "SET storage_engine=INNODB",
            # Uncomment for MySQL older than 5.7:
            # "init_command": "SET sql_mode='STRICT_TRANS_TABLES'",
            # Set emoji capable charset for MySQL:
            # "charset": "utf8mb4",
            # Change connection timeout in case you get MySQL gone away␣
↪error:
            # "connect_timeout": 28800,
        },
        # Persistent connections
        "CONN_MAX_AGE": 0,
    }
}

BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))

# Data directory
DATA_DIR = os.path.join(BASE_DIR, "data")

# Local time zone for this installation. Choices can be found here:
# http://en.wikipedia.org/wiki/List_of_tz_zones_by_name
# although not all choices may be available on all operating systems.
# In a Windows environment this must be set to your system time zone.
TIME_ZONE = "UTC"

# Language code for this installation. All choices can be found here:
# http://www.i18nguy.com/unicode/language-identifiers.html
LANGUAGE_CODE = "en-us"

LANGUAGES = (
    ("ar", "ةيبرعلا"),
    ("az", "Azərbaycan"),
    ("be", "Беларуская"),
    ("be@latin", "Biełaruskaja"),
    ("bg", "Български"),
    ("br", "Brezhoneg"),
    ("ca", "Català"),
    ("cs", "Čeština"),
    ("da", "Dansk"),
    ("de", "Deutsch"),
    ("en", "English"),
    ("el", "Ελληνικά"),
    ("en-gb", "English (United Kingdom)"),
```

```
    ("es", "Español"),
    ("fi", "Suomi"),
    ("fr", "Français"),
    ("gl", "Galego"),
    ("he", "עברית"),
    ("hu", "Magyar"),
    ("hr", "Hrvatski"),
    ("id", "Indonesia"),
    ("is", "Íslenska"),
    ("it", "Italiano"),
    ("ja", "□□□"),
    ("kab", "Taqbaylit"),
    ("kk", "Қазақ тілі"),
    ("ko", "□□□"),
    ("nb", "Norsk bokmål"),
    ("nl", "Nederlands"),
    ("pl", "Polski"),
    ("pt", "Português"),
    ("pt-br", "Português brasileiro"),
    ("ro", "Română"),
    ("ru", "Русский"),
    ("sk", "Slovenčina"),
    ("sl", "Slovenščina"),
    ("sq", "Shqip"),
    ("sr", "Српски"),
    ("sr-latn", "Srpski"),
    ("sv", "Svenska"),
    ("th", "□□□"),
    ("tr", "Türkçe"),
    ("uk", "Українська"),
    ("zh-hans", "□□□"),
    ("zh-hant", "□□□"),
)

SITE_ID = 1

# If you set this to False, Django will make some optimizations so as not
# to load the internationalization machinery.
USE_I18N = True

# If you set this to False, Django will not format dates, numbers and
# calendars according to the current locale.
USE_L10N = True

# If you set this to False, Django will not use timezone-aware datetimes.
USE_TZ = True

# Type of automatic primary key, introduced in Django 3.2
DEFAULT_AUTO_FIELD = "django.db.models.AutoField"

# URL prefix to use, please see documentation for more details
URL_PREFIX = ""

# Absolute filesystem path to the directory that will hold user-uploaded
↪files.
MEDIA_ROOT = os.path.join(DATA_DIR, "media")

# URL that handles the media served from MEDIA_ROOT. Make sure to use a
# trailing slash.
MEDIA_URL = f"{URL_PREFIX}/media/"

# Absolute path to the directory static files should be collected to.
# Don't put anything in this directory yourself; store your static files
# in apps' "static/" subdirectories and in STATICFILES_DIRS.
STATIC_ROOT = os.path.join(DATA_DIR, "static")

# URL prefix for static files.
```

```
STATIC_URL = f"{URL_PREFIX}/static/"

# Additional locations of static files
STATICFILES_DIRS = (
    # Put strings here, like "/home/html/static" or "C:/www/django/static".
    # Always use forward slashes, even on Windows.
    # Don't forget to use absolute paths, not relative paths.
)

# List of finder classes that know how to find static files in
# various locations.
STATICFILES_FINDERS = (
    "django.contrib.staticfiles.finders.FileSystemFinder",
    "django.contrib.staticfiles.finders.AppDirectoriesFinder",
    "compressor.finders.CompressorFinder",
)

# Make this unique, and don't share it with anybody.
# You can generate it using weblate/examples/generate-secret-key
SECRET_KEY = ""

_TEMPLATE_LOADERS = [
    "django.template.loaders.filesystem.Loader",
    "django.template.loaders.app_directories.Loader",
]
if not DEBUG:
    _TEMPLATE_LOADERS = [("django.template.loaders.cached.Loader", _
↪TEMPLATE_LOADERS)]
TEMPLATES = [
    {
        "BACKEND": "django.template.backends.django.DjangoTemplates",
        "OPTIONS": {
            "context_processors": [
                "django.contrib.auth.context_processors.auth",
                "django.template.context_processors.debug",
                "django.template.context_processors.i18n",
                "django.template.context_processors.request",
                "django.template.context_processors.csrf",
                "django.contrib.messages.context_processors.messages",
                "weblate.trans.context_processors.weblate_context",
            ],
            "loaders": _TEMPLATE_LOADERS,
        },
    }
]


# GitHub username and token for sending pull requests.
# Please see the documentation for more details.
GITHUB_USERNAME = None
GITHUB_TOKEN = None

# GitLab username and token for sending merge requests.
# Please see the documentation for more details.
GITLAB_USERNAME = None
GITLAB_TOKEN = None

# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.email.EmailAuth",
    # "social_core.backends.google.GoogleOAuth2",
    # "social_core.backends.github.GithubOAuth2",
    # "social_core.backends.bitbucket.BitbucketOAuth",
    # "social_core.backends.suse.OpenSUSEOpenId",
    # "social_core.backends.ubuntu.UbuntuOpenId",
    # "social_core.backends.fedora.FedoraOpenId",
    # "social_core.backends.facebook.FacebookOAuth2",
```

```
    "weblate.accounts.auth.WeblateUserBackend",
)

# Custom user model
AUTH_USER_MODEL = "weblate_auth.User"

# Social auth backends setup
SOCIAL_AUTH_GITHUB_KEY = ""
SOCIAL_AUTH_GITHUB_SECRET = ""
SOCIAL_AUTH_GITHUB_SCOPE = ["user:email"]

SOCIAL_AUTH_BITBUCKET_KEY = ""
SOCIAL_AUTH_BITBUCKET_SECRET = ""
SOCIAL_AUTH_BITBUCKET_VERIFIED_EMAILS_ONLY = True

SOCIAL_AUTH_FACEBOOK_KEY = ""
SOCIAL_AUTH_FACEBOOK_SECRET = ""
SOCIAL_AUTH_FACEBOOK_SCOPE = ["email", "public_profile"]
SOCIAL_AUTH_FACEBOOK_PROFILE_EXTRA_PARAMS = {"fields": "id,name,email"}

SOCIAL_AUTH_GOOGLE_OAUTH2_KEY = ""
SOCIAL_AUTH_GOOGLE_OAUTH2_SECRET = ""

# Social auth settings
SOCIAL_AUTH_PIPELINE = (
    "social_core.pipeline.social_auth.social_details",
    "social_core.pipeline.social_auth.social_uid",
    "social_core.pipeline.social_auth.auth_allowed",
    "social_core.pipeline.social_auth.social_user",
    "weblate.accounts.pipeline.store_params",
    "weblate.accounts.pipeline.verify_open",
    "social_core.pipeline.user.get_username",
    "weblate.accounts.pipeline.require_email",
    "social_core.pipeline.mail.mail_validation",
    "weblate.accounts.pipeline.revoke_mail_code",
    "weblate.accounts.pipeline.ensure_valid",
    "weblate.accounts.pipeline.remove_account",
    "social_core.pipeline.social_auth.associate_by_email",
    "weblate.accounts.pipeline.reauthenticate",
    "weblate.accounts.pipeline.verify_username",
    "social_core.pipeline.user.create_user",
    "social_core.pipeline.social_auth.associate_user",
    "social_core.pipeline.social_auth.load_extra_data",
    "weblate.accounts.pipeline.cleanup_next",
    "weblate.accounts.pipeline.user_full_name",
    "weblate.accounts.pipeline.store_email",
    "weblate.accounts.pipeline.notify_connect",
    "weblate.accounts.pipeline.password_reset",
)
SOCIAL_AUTH_DISCONNECT_PIPELINE = (
    "social_core.pipeline.disconnect.allowed_to_disconnect",
    "social_core.pipeline.disconnect.get_entries",
    "social_core.pipeline.disconnect.revoke_tokens",
    "weblate.accounts.pipeline.cycle_session",
    "weblate.accounts.pipeline.adjust_primary_mail",
    "weblate.accounts.pipeline.notify_disconnect",
    "social_core.pipeline.disconnect.disconnect",
    "weblate.accounts.pipeline.cleanup_next",
)

# Custom authentication strategy
SOCIAL_AUTH_STRATEGY = "weblate.accounts.strategy.WeblateStrategy"

# Raise exceptions so that we can handle them later
SOCIAL_AUTH_RAISE_EXCEPTIONS = True

SOCIAL_AUTH_EMAIL_VALIDATION_FUNCTION = "weblate.accounts.pipeline.send_
↪validation"
```

```
SOCIAL_AUTH_EMAIL_VALIDATION_URL = f"{URL_PREFIX}/accounts/email-sent/"
SOCIAL_AUTH_LOGIN_ERROR_URL = f"{URL_PREFIX}/accounts/login/"
SOCIAL_AUTH_EMAIL_FORM_URL = f"{URL_PREFIX}/accounts/email/"
SOCIAL_AUTH_NEW_ASSOCIATION_REDIRECT_URL = f"{URL_PREFIX}/accounts/profile/
↪#account"
SOCIAL_AUTH_PROTECTED_USER_FIELDS = ("email",)
SOCIAL_AUTH_SLUGIFY_USERNAMES = True
SOCIAL_AUTH_SLUGIFY_FUNCTION = "weblate.accounts.pipeline.slugify_username"

# Password validation configuration
AUTH_PASSWORD_VALIDATORS = [
    {
        "NAME": "django.contrib.auth.password_validation.
↪UserAttributeSimilarityValidator"  # noqa: E501, pylint: disable=line-
↪too-long
    },
    {
        "NAME": "django.contrib.auth.password_validation.
↪MinimumLengthValidator",
        "OPTIONS": {"min_length": 10},
    },
    {"NAME": "django.contrib.auth.password_validation.
↪CommonPasswordValidator"},
    {"NAME": "django.contrib.auth.password_validation.
↪NumericPasswordValidator"},
    {"NAME": "weblate.accounts.password_validation.CharsPasswordValidator"}
↪,
    {"NAME": "weblate.accounts.password_validation.PastPasswordsValidator"}
↪,
    # Optional password strength validation by django-zxcvbn-password
    # {
    #     "NAME": "zxcvbn_password.ZXCVBNValidator",
    #     "OPTIONS": {
    #         "min_score": 3,
    #         "user_attributes": ("username", "email", "full_name")
    #     }
    # },
]

# Password hashing (prefer Argon)
PASSWORD_HASHERS = [
    "django.contrib.auth.hashers.Argon2PasswordHasher",
    "django.contrib.auth.hashers.PBKDF2PasswordHasher",
    "django.contrib.auth.hashers.PBKDF2SHA1PasswordHasher",
    "django.contrib.auth.hashers.BCryptSHA256PasswordHasher",
]

# Allow new user registrations
REGISTRATION_OPEN = True

# Shortcut for login required setting
REQUIRE_LOGIN = False

# Middleware
MIDDLEWARE = [
    "weblate.middleware.RedirectMiddleware",
    "weblate.middleware.ProxyMiddleware",
    "django.middleware.security.SecurityMiddleware",
    "django.contrib.sessions.middleware.SessionMiddleware",
    "django.middleware.csrf.CsrfViewMiddleware",
    "weblate.accounts.middleware.AuthenticationMiddleware",
    "django.contrib.messages.middleware.MessageMiddleware",
    "django.middleware.clickjacking.XFrameOptionsMiddleware",
    "social_django.middleware.SocialAuthExceptionMiddleware",
    "weblate.accounts.middleware.RequireLoginMiddleware",
    "weblate.api.middleware.ThrottlingMiddleware",
    "weblate.middleware.SecurityMiddleware",
```

```
    "weblate.wladmin.middleware.ManageMiddleware",
]

ROOT_URLCONF = "weblate.urls"

# Django and Weblate apps
INSTALLED_APPS = [
    # Weblate apps on top to override Django locales and templates
    "weblate.addons",
    "weblate.auth",
    "weblate.checks",
    "weblate.formats",
    "weblate.glossary",
    "weblate.machinery",
    "weblate.trans",
    "weblate.lang",
    "weblate_language_data",
    "weblate.memory",
    "weblate.screenshots",
    "weblate.fonts",
    "weblate.accounts",
    "weblate.configuration",
    "weblate.utils",
    "weblate.vcs",
    "weblate.wladmin",
    "weblate.metrics",
    "weblate",
    # Optional: Git exporter
    "weblate.gitexport",
    # Standard Django modules
    "django.contrib.auth",
    "django.contrib.contenttypes",
    "django.contrib.sessions",
    "django.contrib.messages",
    "django.contrib.staticfiles",
    "django.contrib.admin.apps.SimpleAdminConfig",
    "django.contrib.admindocs",
    "django.contrib.sitemaps",
    "django.contrib.humanize",
    # Third party Django modules
    "social_django",
    "crispy_forms",
    "compressor",
    "rest_framework",
    "rest_framework.authtoken",
    "django_filters",
]

# Custom exception reporter to include some details
DEFAULT_EXCEPTION_REPORTER_FILTER = "weblate.trans.debug.
↪WeblateExceptionReporterFilter"

# Default logging of Weblate messages
# - to syslog in production (if available)
# - otherwise to console
# - you can also choose "logfile" to log into separate file
#   after configuring it below

# Detect if we can connect to syslog
HAVE_SYSLOG = False
if platform.system() != "Windows":
    try:
        handler = SysLogHandler(address="/dev/log", facility=SysLogHandler.
↪LOG_LOCAL2)
        handler.close()
        HAVE_SYSLOG = True
    except OSError:
```

```
        HAVE_SYSLOG = False

if DEBUG or not HAVE_SYSLOG:
    DEFAULT_LOG = "console"
else:
    DEFAULT_LOG = "syslog"
DEFAULT_LOGLEVEL = "DEBUG" if DEBUG else "INFO"

# A sample logging configuration. The only tangible logging
# performed by this configuration is to send an email to
# the site admins on every HTTP 500 error when DEBUG=False.
# See http://docs.djangoproject.com/en/stable/topics/logging for
# more details on how to customize your logging configuration.
LOGGING = {
    "version": 1,
    "disable_existing_loggers": True,
    "filters": {"require_debug_false": {"()": "django.utils.log.
↪RequireDebugFalse"}},
    "formatters": {
        "syslog": {"format": "weblate[%(process)d]: %(levelname)s
↪%(message)s"},
        "simple": {"format": "[%(asctime)s: %(levelname)s/%(process)s]
↪%(message)s"},
        "logfile": {"format": "%(asctime)s %(levelname)s %(message)s"},
        "django.server": {
            "()": "django.utils.log.ServerFormatter",
            "format": "[%(server_time)s] %(message)s",
        },
    },
    "handlers": {
        "mail_admins": {
            "level": "ERROR",
            "filters": ["require_debug_false"],
            "class": "django.utils.log.AdminEmailHandler",
            "include_html": True,
        },
        "console": {
            "level": "DEBUG",
            "class": "logging.StreamHandler",
            "formatter": "simple",
        },
        "django.server": {
            "level": "INFO",
            "class": "logging.StreamHandler",
            "formatter": "django.server",
        },
        "syslog": {
            "level": "DEBUG",
            "class": "logging.handlers.SysLogHandler",
            "formatter": "syslog",
            "address": "/dev/log",
            "facility": SysLogHandler.LOG_LOCAL2,
        },
        # Logging to a file
        # "logfile": {
        #     "level":"DEBUG",
        #     "class":"logging.handlers.RotatingFileHandler",
        #     "filename": "/var/log/weblate/weblate.log",
        #     "maxBytes": 100000,
        #     "backupCount": 3,
        #     "formatter": "logfile",
        # },
    },
    "loggers": {
        "django.request": {
            "handlers": ["mail_admins", DEFAULT_LOG],
            "level": "ERROR",
```

```
            "propagate": True,
        },
        "django.server": {
            "handlers": ["django.server"],
            "level": "INFO",
            "propagate": False,
        },
        # Logging database queries
        # "django.db.backends": {
        #     "handlers": [DEFAULT_LOG],
        #     "level": "DEBUG",
        # },
        "weblate": {"handlers": [DEFAULT_LOG], "level": DEFAULT_LOGLEVEL},
        # Logging VCS operations
        "weblate.vcs": {"handlers": [DEFAULT_LOG], "level": DEFAULT_
↪LOGLEVEL},
        # Python Social Auth
        "social": {"handlers": [DEFAULT_LOG], "level": DEFAULT_LOGLEVEL},
        # Django Authentication Using LDAP
        "django_auth_ldap": {"handlers": [DEFAULT_LOG], "level": DEFAULT_
↪LOGLEVEL},
        # SAML IdP
        "djangosaml2idp": {"handlers": [DEFAULT_LOG], "level": DEFAULT_
↪LOGLEVEL},
    },
}

# Remove syslog setup if it's not present
if not HAVE_SYSLOG:
    del LOGGING["handlers"]["syslog"]

# List of machine translations
MT_SERVICES = (
    #     "weblate.machinery.apertium.ApertiumAPYTranslation",
    #     "weblate.machinery.baidu.BaiduTranslation",
    #     "weblate.machinery.deepl.DeepLTranslation",
    #     "weblate.machinery.glosbe.GlosbeTranslation",
    #     "weblate.machinery.google.GoogleTranslation",
    #     "weblate.machinery.googlev3.GoogleV3Translation",
    #     "weblate.machinery.libretranslate.LibreTranslateTranslation",
    #     "weblate.machinery.microsoft.MicrosoftCognitiveTranslation",
    #     "weblate.machinery.microsoftterminology.
↪MicrosoftTerminologyService",
    #     "weblate.machinery.modernmt.ModernMTTranslation",
    #     "weblate.machinery.mymemory.MyMemoryTranslation",
    #     "weblate.machinery.netease.NeteaseSightTranslation",
    #     "weblate.machinery.tmserver.AmagamaTranslation",
    #     "weblate.machinery.tmserver.TMServerTranslation",
    #     "weblate.machinery.yandex.YandexTranslation",
    #     "weblate.machinery.saptranslationhub.SAPTranslationHub",
    #     "weblate.machinery.youdao.YoudaoTranslation",
    "weblate.machinery.weblatetm.WeblateTranslation",
    "weblate.memory.machine.WeblateMemory",
)

# Machine translation API keys

# URL of the Apertium APy server
MT_APERTIUM_APY = None

# DeepL API key
MT_DEEPL_KEY = None

# LibreTranslate
MT_LIBRETRANSLATE_API_URL = None
MT_LIBRETRANSLATE_KEY = None
```

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```
# Microsoft Cognitive Services Translator API, register at
# https://portal.azure.com/
MT_MICROSOFT_COGNITIVE_KEY = None
MT_MICROSOFT_REGION = None

# ModernMT
MT_MODERNMT_KEY = None

# MyMemory identification email, see
# https://mymemory.translated.net/doc/spec.php
MT_MYMEMORY_EMAIL = None

# Optional MyMemory credentials to access private translation memory
MT_MYMEMORY_USER = None
MT_MYMEMORY_KEY = None

# Google API key for Google Translate API v2
MT_GOOGLE_KEY = None

# Google Translate API3 credentials and project id
MT_GOOGLE_CREDENTIALS = None
MT_GOOGLE_PROJECT = None

# Baidu app key and secret
MT_BAIDU_ID = None
MT_BAIDU_SECRET = None

# Youdao Zhiyun app key and secret
MT_YOUDAO_ID = None
MT_YOUDAO_SECRET = None

# Netease Sight (Jianwai) app key and secret
MT_NETEASE_KEY = None
MT_NETEASE_SECRET = None

# API key for Yandex Translate API
MT_YANDEX_KEY = None

# tmserver URL
MT_TMSERVER = None

# SAP Translation Hub
MT_SAP_BASE_URL = None
MT_SAP_SANDBOX_APIKEY = None
MT_SAP_USERNAME = None
MT_SAP_PASSWORD = None
MT_SAP_USE_MT = True

# Use HTTPS when creating redirect URLs for social authentication, see
# documentation for more details:
# https://python-social-auth-docs.readthedocs.io/en/latest/configuration/
↪settings.html#processing-redirects-and-urlopen
SOCIAL_AUTH_REDIRECT_IS_HTTPS = ENABLE_HTTPS

# Make CSRF cookie HttpOnly, see documentation for more details:
# https://docs.djangoproject.com/en/1.11/ref/settings/#csrf-cookie-httponly
CSRF_COOKIE_HTTPONLY = True
CSRF_COOKIE_SECURE = ENABLE_HTTPS
# Store CSRF token in session
CSRF_USE_SESSIONS = True
# Customize CSRF failure view
CSRF_FAILURE_VIEW = "weblate.trans.views.error.csrf_failure"
SESSION_COOKIE_SECURE = ENABLE_HTTPS
SESSION_COOKIE_HTTPONLY = True
# SSL redirect
SECURE_SSL_REDIRECT = ENABLE_HTTPS
# Sent referrrer only for same origin links
```

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```
SECURE_REFERRER_POLICY = "same-origin"
# SSL redirect URL exemption list
SECURE_REDIRECT_EXEMPT = (r"healthz/$",)  # Allowing HTTP access to health␣
↪check
# Session cookie age (in seconds)
SESSION_COOKIE_AGE = 1000
SESSION_COOKIE_AGE_AUTHENTICATED = 1209600
SESSION_COOKIE_SAMESITE = "Lax"
# Increase allowed upload size
DATA_UPLOAD_MAX_MEMORY_SIZE = 50000000

# Apply session coookie settings to language cookie as ewll
LANGUAGE_COOKIE_SECURE = SESSION_COOKIE_SECURE
LANGUAGE_COOKIE_HTTPONLY = SESSION_COOKIE_HTTPONLY
LANGUAGE_COOKIE_AGE = SESSION_COOKIE_AGE_AUTHENTICATED * 10
LANGUAGE_COOKIE_SAMESITE = SESSION_COOKIE_SAMESITE

# Some security headers
SECURE_BROWSER_XSS_FILTER = True
X_FRAME_OPTIONS = "DENY"
SECURE_CONTENT_TYPE_NOSNIFF = True

# Optionally enable HSTS
SECURE_HSTS_SECONDS = 31536000 if ENABLE_HTTPS else 0
SECURE_HSTS_PRELOAD = ENABLE_HTTPS
SECURE_HSTS_INCLUDE_SUBDOMAINS = ENABLE_HTTPS

# HTTPS detection behind reverse proxy
SECURE_PROXY_SSL_HEADER = None

# URL of login
LOGIN_URL = f"{URL_PREFIX}/accounts/login/"

# URL of logout
LOGOUT_URL = f"{URL_PREFIX}/accounts/logout/"

# Default location for login
LOGIN_REDIRECT_URL = f"{URL_PREFIX}/"

# Anonymous user name
ANONYMOUS_USER_NAME = "anonymous"

# Reverse proxy settings
IP_PROXY_HEADER = "HTTP_X_FORWARDED_FOR"
IP_BEHIND_REVERSE_PROXY = False
IP_PROXY_OFFSET = 0

# Sending HTML in mails
EMAIL_SEND_HTML = True

# Subject of emails includes site title
EMAIL_SUBJECT_PREFIX = f"[{SITE_TITLE}] "

# Enable remote hooks
ENABLE_HOOKS = True

# By default the length of a given translation is limited to the length of
# the source string * 10 characters. Set this option to False to allow␣
↪longer
# translations (up to 10.000 characters)
LIMIT_TRANSLATION_LENGTH_BY_SOURCE_LENGTH = True

# Use simple language codes for default language/country combinations
SIMPLIFY_LANGUAGES = True

# Render forms using bootstrap
CRISPY_TEMPLATE_PACK = "bootstrap3"
```

```
# List of quality checks
# CHECK_LIST = (
#     "weblate.checks.same.SameCheck",
#     "weblate.checks.chars.BeginNewlineCheck",
#     "weblate.checks.chars.EndNewlineCheck",
#     "weblate.checks.chars.BeginSpaceCheck",
#     "weblate.checks.chars.EndSpaceCheck",
#     "weblate.checks.chars.DoubleSpaceCheck",
#     "weblate.checks.chars.EndStopCheck",
#     "weblate.checks.chars.EndColonCheck",
#     "weblate.checks.chars.EndQuestionCheck",
#     "weblate.checks.chars.EndExclamationCheck",
#     "weblate.checks.chars.EndEllipsisCheck",
#     "weblate.checks.chars.EndSemicolonCheck",
#     "weblate.checks.chars.MaxLengthCheck",
#     "weblate.checks.chars.KashidaCheck",
#     "weblate.checks.chars.PunctuationSpacingCheck",
#     "weblate.checks.format.PythonFormatCheck",
#     "weblate.checks.format.PythonBraceFormatCheck",
#     "weblate.checks.format.PHPFormatCheck",
#     "weblate.checks.format.CFormatCheck",
#     "weblate.checks.format.PerlFormatCheck",
#     "weblate.checks.format.JavaScriptFormatCheck",
#     "weblate.checks.format.LuaFormatCheck",
#     "weblate.checks.format.ObjectPascalFormatCheck",
#     "weblate.checks.format.SchemeFormatCheck",
#     "weblate.checks.format.CSharpFormatCheck",
#     "weblate.checks.format.JavaFormatCheck",
#     "weblate.checks.format.JavaMessageFormatCheck",
#     "weblate.checks.format.PercentPlaceholdersCheck",
#     "weblate.checks.format.VueFormattingCheck",
#     "weblate.checks.format.I18NextInterpolationCheck",
#     "weblate.checks.format.ESTemplateLiteralsCheck",
#     "weblate.checks.angularjs.AngularJSInterpolationCheck",
#     "weblate.checks.icu.ICUMessageFormatCheck",
#     "weblate.checks.icu.ICUSourceCheck",
#     "weblate.checks.qt.QtFormatCheck",
#     "weblate.checks.qt.QtPluralCheck",
#     "weblate.checks.ruby.RubyFormatCheck",
#     "weblate.checks.consistency.PluralsCheck",
#     "weblate.checks.consistency.SamePluralsCheck",
#     "weblate.checks.consistency.ConsistencyCheck",
#     "weblate.checks.consistency.TranslatedCheck",
#     "weblate.checks.chars.EscapedNewlineCountingCheck",
#     "weblate.checks.chars.NewLineCountCheck",
#     "weblate.checks.markup.BBCodeCheck",
#     "weblate.checks.chars.ZeroWidthSpaceCheck",
#     "weblate.checks.render.MaxSizeCheck",
#     "weblate.checks.markup.XMLValidityCheck",
#     "weblate.checks.markup.XMLTagsCheck",
#     "weblate.checks.markup.MarkdownRefLinkCheck",
#     "weblate.checks.markup.MarkdownLinkCheck",
#     "weblate.checks.markup.MarkdownSyntaxCheck",
#     "weblate.checks.markup.URLCheck",
#     "weblate.checks.markup.SafeHTMLCheck",
#     "weblate.checks.placeholders.PlaceholderCheck",
#     "weblate.checks.placeholders.RegexCheck",
#     "weblate.checks.duplicate.DuplicateCheck",
#     "weblate.checks.source.OptionalPluralCheck",
#     "weblate.checks.source.EllipsisCheck",
#     "weblate.checks.source.MultipleFailingCheck",
#     "weblate.checks.source.LongUntranslatedCheck",
#     "weblate.checks.format.MultipleUnnamedFormatsCheck",
#     "weblate.checks.glossary.GlossaryCheck",
# )
```

```
# List of automatic fixups
# AUTOFIX_LIST = (
#     "weblate.trans.autofixes.whitespace.SameBookendingWhitespace",
#     "weblate.trans.autofixes.chars.ReplaceTrailingDotsWithEllipsis",
#     "weblate.trans.autofixes.chars.RemoveZeroSpace",
#     "weblate.trans.autofixes.chars.RemoveControlChars",
# )

# List of enabled addons
# WEBLATE_ADDONS = (
#     "weblate.addons.gettext.GenerateMoAddon",
#     "weblate.addons.gettext.UpdateLinguasAddon",
#     "weblate.addons.gettext.UpdateConfigureAddon",
#     "weblate.addons.gettext.MsgmergeAddon",
#     "weblate.addons.gettext.GettextCustomizeAddon",
#     "weblate.addons.gettext.GettextAuthorComments",
#     "weblate.addons.cleanup.CleanupAddon",
#     "weblate.addons.cleanup.RemoveBlankAddon",
#     "weblate.addons.consistency.LangaugeConsistencyAddon",
#     "weblate.addons.discovery.DiscoveryAddon",
#     "weblate.addons.autotranslate.AutoTranslateAddon",
#     "weblate.addons.flags.SourceEditAddon",
#     "weblate.addons.flags.TargetEditAddon",
#     "weblate.addons.flags.SameEditAddon",
#     "weblate.addons.flags.BulkEditAddon",
#     "weblate.addons.generate.GenerateFileAddon",
#     "weblate.addons.generate.PseudolocaleAddon",
#     "weblate.addons.json.JSONCustomizeAddon",
#     "weblate.addons.properties.PropertiesSortAddon",
#     "weblate.addons.git.GitSquashAddon",
#     "weblate.addons.removal.RemoveComments",
#     "weblate.addons.removal.RemoveSuggestions",
#     "weblate.addons.resx.ResxUpdateAddon",
#     "weblate.addons.yaml.YAMLCustomizeAddon",
#     "weblate.addons.cdn.CDNJSAddon",
# )

# E-mail address that error messages come from.
SERVER_EMAIL = "noreply@example.com"

# Default email address to use for various automated correspondence from
# the site managers. Used for registration emails.
DEFAULT_FROM_EMAIL = "noreply@example.com"

# List of URLs your site is supposed to serve
ALLOWED_HOSTS = ["*"]

# Configuration for caching
CACHES = {
    "default": {
        "BACKEND": "django_redis.cache.RedisCache",
        "LOCATION": "redis://127.0.0.1:6379/1",
        # If redis is running on same host as Weblate, you might
        # want to use unix sockets instead:
        # "LOCATION": "unix:///var/run/redis/redis.sock?db=1",
        "OPTIONS": {
            "CLIENT_CLASS": "django_redis.client.DefaultClient",
            "PARSER_CLASS": "redis.connection.HiredisParser",
            # If you set password here, adjust CELERY_BROKER_URL as well
            "PASSWORD": None,
            "CONNECTION_POOL_KWARGS": {},
        },
        "KEY_PREFIX": "weblate",
    },
    "avatar": {
        "BACKEND": "django.core.cache.backends.filebased.FileBasedCache",
        "LOCATION": os.path.join(DATA_DIR, "avatar-cache"),
```

```
        "TIMEOUT": 86400,
        "OPTIONS": {"MAX_ENTRIES": 1000},
    },
}

# Store sessions in cache
SESSION_ENGINE = "django.contrib.sessions.backends.cache"
# Store messages in session
MESSAGE_STORAGE = "django.contrib.messages.storage.session.SessionStorage"

# REST framework settings for API
REST_FRAMEWORK = {
    # Use Django's standard `django.contrib.auth` permissions,
    # or allow read-only access for unauthenticated users.
    "DEFAULT_PERMISSION_CLASSES": [
        # Require authentication for login required sites
        "rest_framework.permissions.IsAuthenticated"
        if REQUIRE_LOGIN
        else "rest_framework.permissions.IsAuthenticatedOrReadOnly"
    ],
    "DEFAULT_AUTHENTICATION_CLASSES": (
        "rest_framework.authentication.TokenAuthentication",
        "weblate.api.authentication.BearerAuthentication",
        "rest_framework.authentication.SessionAuthentication",
    ),
    "DEFAULT_THROTTLE_CLASSES": (
        "weblate.api.throttling.UserRateThrottle",
        "weblate.api.throttling.AnonRateThrottle",
    ),
    "DEFAULT_THROTTLE_RATES": {"anon": "100/day", "user": "5000/hour"},
    "DEFAULT_PAGINATION_CLASS": ("rest_framework.pagination.
↪PageNumberPagination"),
    "PAGE_SIZE": 20,
    "VIEW_DESCRIPTION_FUNCTION": "weblate.api.views.get_view_description",
    "UNAUTHENTICATED_USER": "weblate.auth.models.get_anonymous",
}

# Fonts CDN URL
FONTS_CDN_URL = None

# Django compressor offline mode
COMPRESS_OFFLINE = False
COMPRESS_OFFLINE_CONTEXT = [
    {"fonts_cdn_url": FONTS_CDN_URL, "STATIC_URL": STATIC_URL, "LANGUAGE_
↪BIDI": True},
    {"fonts_cdn_url": FONTS_CDN_URL, "STATIC_URL": STATIC_URL, "LANGUAGE_
↪BIDI": False},
]

# Require login for all URLs
if REQUIRE_LOGIN:
    LOGIN_REQUIRED_URLS = (r"/(.*)$",)

# In such case you will want to include some of the exceptions
# LOGIN_REQUIRED_URLS_EXCEPTIONS = (
#     rf"{URL_PREFIX}/accounts/(.*)$",  # Required for login
#     rf"{URL_PREFIX}/admin/login/(.*)$",  # Required for admin login
#     rf"{URL_PREFIX}/static/(.*)$",  # Required for development mode
#     rf"{URL_PREFIX}/widgets/(.*)$",  # Allowing public access to widgets
#     rf"{URL_PREFIX}/data/(.*)$",  # Allowing public access to data exports
#     rf"{URL_PREFIX}/hooks/(.*)$",  # Allowing public access to␣
↪notification hooks
#     rf"{URL_PREFIX}/healthz/$",  # Allowing public access to health check
#     rf"{URL_PREFIX}/api/(.*)$",  # Allowing access to API
#     rf"{URL_PREFIX}/js/i18n/$",  # JavaScript localization
#     rf"{URL_PREFIX}/contact/$",  # Optional for contact form
#     rf"{URL_PREFIX}/legal/(.*)$",  # Optional for legal app
```

```
# )

# Silence some of the Django system checks
SILENCED_SYSTEM_CHECKS = [
    # We have modified django.contrib.auth.middleware.AuthenticationMiddleware
    # as weblate.accounts.middleware.AuthenticationMiddleware
    "admin.E408"
]

# Celery worker configuration for testing
# CELERY_TASK_ALWAYS_EAGER = True
# CELERY_BROKER_URL = "memory://"
# CELERY_TASK_EAGER_PROPAGATES = True
# Celery worker configuration for production
CELERY_TASK_ALWAYS_EAGER = False
CELERY_BROKER_URL = "redis://localhost:6379"
CELERY_RESULT_BACKEND = CELERY_BROKER_URL

# Celery settings, it is not recommended to change these
CELERY_WORKER_MAX_MEMORY_PER_CHILD = 200000
CELERY_BEAT_SCHEDULE_FILENAME = os.path.join(DATA_DIR, "celery", "beat-schedule")
CELERY_TASK_ROUTES = {
    "weblate.trans.tasks.auto_translate*": {"queue": "translate"},
    "weblate.accounts.tasks.notify_*": {"queue": "notify"},
    "weblate.accounts.tasks.send_mails": {"queue": "notify"},
    "weblate.utils.tasks.settings_backup": {"queue": "backup"},
    "weblate.utils.tasks.database_backup": {"queue": "backup"},
    "weblate.wladmin.tasks.backup": {"queue": "backup"},
    "weblate.wladmin.tasks.backup_service": {"queue": "backup"},
    "weblate.memory.tasks.*": {"queue": "memory"},
}

# Enable plain database backups
DATABASE_BACKUP = "plain"

# Enable auto updating
AUTO_UPDATE = False

# PGP commits signing
WEBLATE_GPG_IDENTITY = None

# Third party services integration
MATOMO_SITE_ID = None
MATOMO_URL = None
GOOGLE_ANALYTICS_ID = None
SENTRY_DSN = None
SENTRY_ENVIRONMENT = SITE_DOMAIN
AKISMET_API_KEY = None
```

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□□: web□□ *□□□□ □□□□□□□□□□* □□□□□□□□□□

You will find basic management commands (available as `./manage.py` in the Django sources, or as an extended set in a script called **weblate** installable atop Weblate).

Invoking management commands

As mentioned before, invocation depends on how you installed Weblate.

If using virtualenv for Weblate, you can either specify the full path to **weblate**, or activate the virtualenv prior to invoking it:

```
# Direct invocation
~/weblate-env/bin/weblate

# Activating virtualenv adds it to search path
. ~/weblate-env/bin/activate
weblate
```

If you are using source code directly (either from a tarball or Git checkout), the management script is `./manage.py` available in the Weblate sources. To run it:

```
python ./manage.py list_versions
```

If you've installed Weblate using the pip or pip3 installer, or by using the `./setup.py` script, the **weblate** is installed to your path (or virtualenv path), from where you can use it to control Weblate:

```
weblate list_versions
```

For the Docker image, the script is installed like above, and you can run it using **docker exec**:

```
docker exec --user weblate <container> weblate list_versions
```

For **docker-compose** the process is similar, you just have to use **docker-compose exec**:

```
docker-compose exec --user weblate weblate weblate list_versions
```

In case you need to pass it a file, you can temporary add a volume:

```
docker-compose exec --user weblate /tmp:/tmp weblate weblate importusers /
↪tmp/users.json
```

??:

Docker ??????????Installing on Debian and Ubuntu?Installing on SUSE and openSUSE?Installing on RedHat, Fedora and CentOS??????????

add_suggestions

weblate add_suggestions <project> <component> <language> <file>

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Imports a translation from the file to use as a suggestion for the given translation. It skips duplicated translations; only different ones are added.

--author USER@EXAMPLE.COM
E-mail of author for the suggestions. This user has to exist prior to importing (you can create one in the admin interface if needed).

?:

```
weblate --author michal@cihar.com add_suggestions weblate application cs /
↪tmp/suggestions-cs.po
```

auto_translate

weblate auto_translate <project> <component> <language>

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Performs automatic translation based on other component translations.

--source PROJECT/COMPONENT
Specifies the component to use as source available for translation. If not specified all components in the project are used.

--user USERNAME
Specify username listed as author of the translations. "Anonymous user" is used if not specified.

--overwrite
Whether to overwrite existing translations.

--inconsistent
Whether to overwrite existing translations that are inconsistent (see *□□□□□□*).

--add
Automatically add language if a given translation does not exist.

--mt MT
Use machine translation instead of other components as machine translations.

--threshold THRESHOLD
Similarity threshold for machine translation, defaults to 80.

--mode MODE
Specify translation mode, default is `translate` but `fuzzy` or `suggest` can be used.

□:

```
weblate auto_translate --user nijel --inconsistent --source weblate/
↪application weblate website cs
```

□□:

□□□□

celery_queues

weblate celery_queues

□□□□□ 3.7 □□□.

Displays length of Celery task queues.

checkgit

weblate checkgit <project|project/component>

Prints current state of the back-end Git repository.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

commitgit

weblate commitgit <project|project/component>

Commits any possible pending changes to the back-end Git repository.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

commit_pending

weblate commit_pending <project|project/component>

Commits pending changes older than a given age.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

--age `HOURS`
Age in hours for committing. If not specified the value configured in *Component configuration* is used.

??: This is automatically performed in the background by Weblate, so there no real need to invoke this manually, besides forcing an earlier commit than specified by *Component configuration*.

??:

?????? ??????? `COMMIT_PENDING_HOURS`

cleanuptrans

weblate cleanuptrans

Cleans up orphaned checks and translation suggestions. There is normally no need to run this manually, as the cleanups happen automatically in the background.

??:

?????? ??????

createadmin

weblate createadmin

Creates an `admin` account with a random password, unless it is specified.

--password `PASSWORD`
Provides a password on the command-line, to not generate a random one.

--no-password
Do not set password, this can be useful with *--update*.

--username `USERNAME`
Use the given name instead of `admin`.

--email `USER@EXAMPLE.COM`
Specify the admin e-mail address.

--name
Specify the admin name (visible).

--update
Update the existing user (you can use this to change passwords).

????? 2.9 ???: Added parameters `--username`, `--email`, `--name` and `--update`.

dump_memory

weblate dump_memory

????? 2.20 ???.

Export a JSON file containing Weblate Translation Memory content.

??:

?????? *Weblate* *??????????*

dumpuserdata

weblate dumpuserdata <file.json>

Dumps userdata to a file for later use by *importuserdata*

???: This comes in handy when migrating or merging Weblate instances.

---

import_demo

weblate import_demo

????? 4.1 ???.

Creates a demo project with components based on <https://github.com/WeblateOrg/demo>.

This can be useful when developing Weblate.

import_json

weblate import_json <json-file>

????? 2.7 ???.

Batch import of components based on JSON data.

The imported JSON file structure pretty much corresponds to the component object (see *GET /api/components/(string:project)/(string:component)/*). You have to include the `name` and `filemask` fields.

--project `PROJECT`
Specifies where the components will be imported from.

--main-component `COMPONENT`
Use the given VCS repository from this component for all of them.

--ignore
Skip (already) imported components.

--update
Update (already) imported components.

????? 2.9 ???: The parameters `--ignore` and `--update` are there to deal with already imported components.

Example of JSON file:

```
[
  {
    "slug": "po",
    "name": "Gettext PO",
    "file_format": "po",
    "filemask": "po/*.po",
    "new_lang": "none"
  },
  {
    "name": "Android",
    "filemask": "android/values-*/strings.xml",
    "template": "android/values/strings.xml",
    "repo": "weblate://test/test",
    "file_format": "aresource"
  }
]
```

??:

import_memory

import_memory

weblate import_memory <file>

□□□□□ 2.20 □□□.

Imports a TMX or JSON file into the Weblate translation memory.

--language-map LANGMAP
Allows mapping languages in the TMX to the Weblate translation memory. The language codes are mapped after normalization usually done by Weblate.

`--language-map en_US:en` will for example import all `en_US` strings as `en` ones.

□□□□TMX □□□□□□□□□ Weblate □□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□:

□□□□□□Weblate □□□□□□□□□□

import_project

weblate import_project <project> <gitrepo> <branch> <filemask>

□□□□□ 3.0 □□□: The import_project command is now based on the *□□□□□□□□□□□* add-on, leading to some changes in behavior and what parameters are accepted.

Batch imports components into project based on filemask.

<project> names an existing project, into which the components are to be imported.

The *<gitrepo>* defines the Git repository URL to use, and *<branch>* signifies the Git branch. To import additional translation components from an existing Weblate component, use a *weblate://<project>/<component>* URL for the *<gitrepo>*.

The *<filemask>* defines file discovery for the repository. It can be either be made simple using wildcards, or it can use the full power of regular expressions.

The simple matching uses `**` for component name and `*` for language, for example: `**/*.po`

The regular expression has to contain groups named *component* and *language*. For example: `(?P<language>[^/]*)/(?P<component>[^-/]*)\.po`

The import matches existing components based on files and adds the ones that do not exist. It does not change already existing ones.

--name-template TEMPLATE
Customize the name of a component using Django template syntax.

□□`Documentation: {{ component }}`

--base-file-template TEMPLATE
Customize the base file for monolingual translations.

□□`{{ component }}/res/values/string.xml`

--new-base-template TEMPLATE
Customize the base file for addition of new translations.

□□`{{ component }}/ts/en.ts`

--file-format FORMAT
You can also specify the file format to use (see *□□□□□□□□□□□*), the default is auto-detection.

--language-regex REGEX
You can specify language filtering (see *Component configuration*) with this parameter. It has to be a valid regular expression.

--main-component
You can specify which component will be chosen as the main one—the one actually containing the VCS repository.

--license NAME
Specify the overall, project or component translation license.

--license-url URL
Specify the URL where the translation license is to be found.

--vcs NAME
In case you need to specify which version control system to use, you can do it here. The default version control is Git.

To give you some examples, let's try importing two projects.

First The Debian Handbook translations, where each language has separate a folder with the translations of each chapter:

```
weblate import_project \
    debian-handbook \
    git://anonscm.debian.org/debian-handbook/debian-handbook.git \
    squeeze/master \
    '*/**.po'
```

Then the Tanaguru tool, where the file format needs be specified, along with the base file template, and how all components and translations are located in single folder:

```
weblate import_project \
    --file-format=properties \
    --base-file-template=web-app/tgol-web-app/src/main/resources/i18n/%s-
↪I18N.properties \
    tanaguru \
    https://github.com/Tanaguru/Tanaguru \
    master \
    web-app/tgol-web-app/src/main/resources/i18n/**-I18N_*.properties
```

More complex example of parsing of filenames to get the correct component and language out of a filename like `src/security/Numerous_security_holes_in_0.10.1.de.po`:

```
weblate import_project \
    tails \
    git://git.tails.boum.org/tails master \
    'wiki/src/security/(?P<component>.*)\.(?P<language>[^.]*)\.po$'
```

Filtering only translations in a chosen language:

```
./manage import_project \
    --language-regex '^(cs|sk)$' \
    weblate \
    https://github.com/WeblateOrg/weblate.git \
    'weblate/locale/*/LC_MESSAGES/**.po'
```

Importing Sphinx documentation split to multiple files:

```
$ weblate import_project --name-template 'Documentation: %s' \
    --file-format po \
    project https://github.com/project/docs.git master \
    'docs/locale/*/LC_MESSAGES/**.po'
```

Importing Sphinx documentation split to multiple files and directories:

```
$ weblate import_project --name-template 'Directory 1: %s' \
    --file-format po \
    project https://github.com/project/docs.git master \
    'docs/locale/*/LC_MESSAGES/dir1/**.po'
$ weblate import_project --name-template 'Directory 2: %s' \
    --file-format po \
    project https://github.com/project/docs.git master \
    'docs/locale/*/LC_MESSAGES/dir2/**.po'
```

??:

More detailed examples can be found in the starting chapter, alternatively you might want to use *import_json*.

importuserdata

weblate importuserdata <file.json>

Imports user data from a file created by *dumpuserdata*

importusers

weblate importusers --check <file.json>

Imports users from JSON dump of the Django auth_users database.

--check
With this option it will just check whether a given file can be imported and report possible conflicts arising from usernames or e-mails.

You can dump users from the existing Django installation using:

```
weblate dumpdata auth.User > users.json
```

install_addon

□□□□□ 3.2 □□□.

weblate install_addon --addon ADDON <project|project/component>

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

--addon ADDON
Name of the add-on to install. For example `weblate.gettext.customize`.

--configuration CONFIG
□□□□□ JSON □□□□□□□□□□

--update
□□□□□□□□□□□□□□□□□□□

You can either define which project or component to install the add-on in (for example `weblate/application`), or use `--all` to include all existing components.

To install *gettext* *□□□□□□□□□□* for all components:

```
weblate install_addon --addon weblate.gettext.customize --config '{"width
↪": -1}' --update --all
```

□□:

□□□□

list_languages

weblate list_languages <locale>

Lists supported languages in MediaWiki markup - language codes, English names and localized names.

This is used to generate <https://wiki.l10n.cz/Slovn%C3%ADk_s_n%C3%A1zvy_jazyk%C5%AF>.

list_translators

weblate list_translators <project|project/component>

Lists translators by contributed language for the given project:

```
[French]
Jean Dupont <jean.dupont@example.com>
[English]
John Doe <jd@example.com>
```

--language-code
List names by language code instead of language name.

You can either define which project or component to use (for example `weblate/application`), or use `--all` to list translators from all existing components.

list_versions

weblate list_versions

Lists all Weblate dependencies and their versions.

loadpo

weblate loadpo <project|project/component>

Reloads translations from disk (for example in case you have done some updates in the VCS repository).

--force
Force update, even if the files should be up-to-date.

--lang LANGUAGE
Limit processing to a single language.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

??: You seldom need to invoke this, Weblate will automatically load changed files for every VCS update. This is needed in case you manually changed an underlying Weblate VCS repository or in some special cases following an upgrade.

---

lock_translation

weblate lock_translation <project|project/component>

Prevents further translation of a component.

???: Useful in case you want to do some maintenance on the underlying repository.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

??:

unlock_translation

move_language

weblate move_language source target

????? 3.0 ???.

Allows you to merge language content. This is useful when updating to a new version which contains aliases for previously unknown languages that have been created with the *(generated)* suffix. It moves all content from the *source* language to the *target* one.

?:

```
weblate move_language cze cs
```

After moving the content, you should check whether there is anything left (this is subject to race conditions when somebody updates the repository meanwhile) and remove the *(generated)* language.

pushgit

weblate pushgit <project|project/component>

Pushes committed changes to the upstream VCS repository.

--force-commit
Force commits any pending changes, prior to pushing.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

??: Weblate pushes changes automatically if *??????????* in *Component configuration* is turned on, which is the default.

---

unlock_translation

weblate unlock_translation <project|project/component>

Unlocks a given component, making it available for translation.

???: Useful in case you want to do some maintenance on the underlying repository.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

??:

lock_translation

setupgroups

weblate setupgroups

Configures default groups and optionally assigns all users to that default group.

--no-privs-update
Turns off automatic updating of existing groups (only adds new ones).

--no-projects-update
Prevents automatic updates of groups for existing projects. This allows adding newly added groups to existing projects, see *??????????*.

??:

?????

setuplang

weblate setuplang

Updates list of defined languages in Weblate.

--no-update
Turns off automatic updates of existing languages (only adds new ones).

updatechecks

weblate updatechecks <project|project/component>

Updates all checks for all strings.

???: Useful for upgrades which do major changes to checks.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

updategit

weblate updategit <project|project/component>

Fetches remote VCS repositories and updates the internal cache.

You can either define which project or component to update (for example `weblate/application`), or use `--all` to update all existing components.

??: Usually it is better to configure hooks in the repository to trigger *?????*, instead of regular polling by *`updategit`*.

????

????? 4.0 ???: ???????????????????????? ???????????????

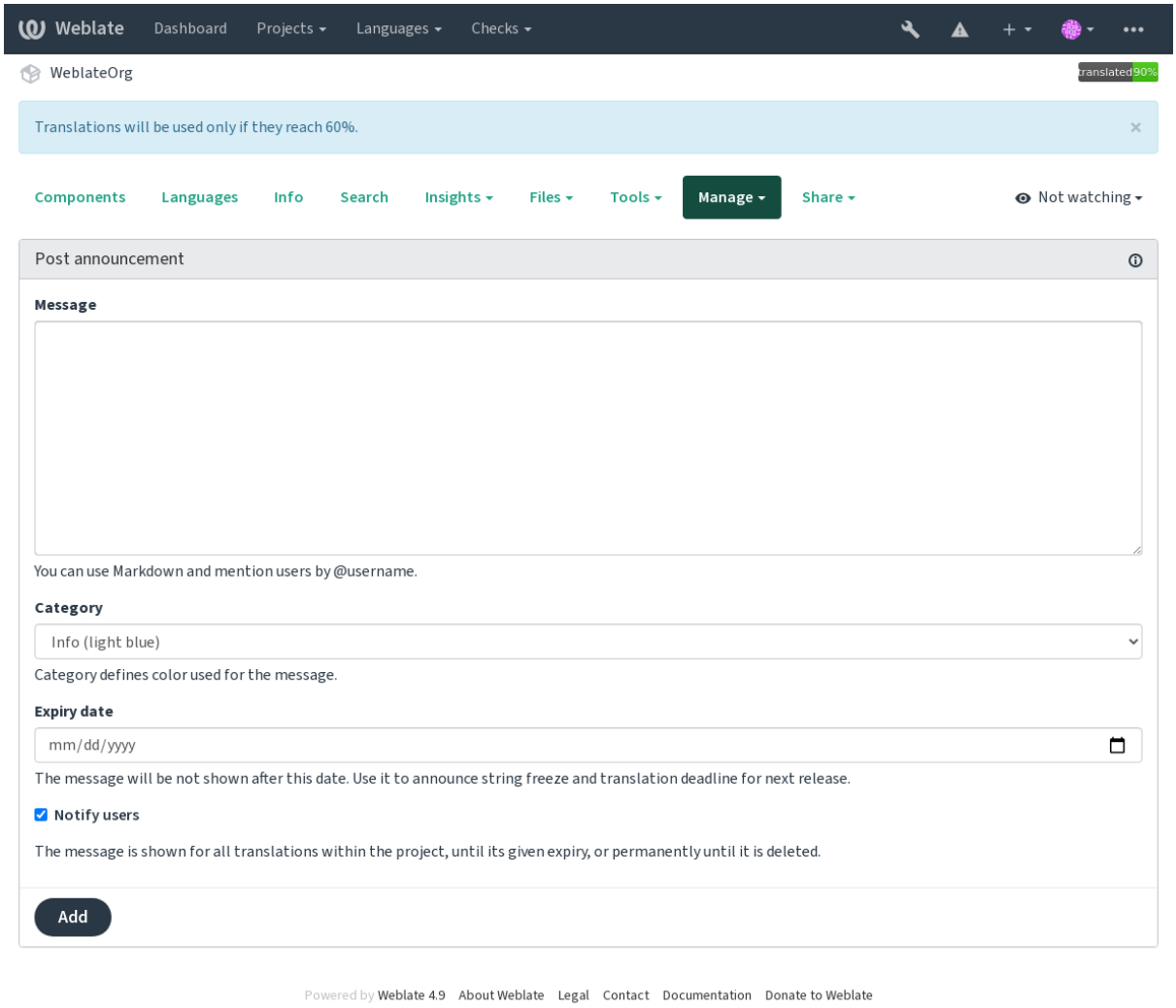
??

????????????????????????????

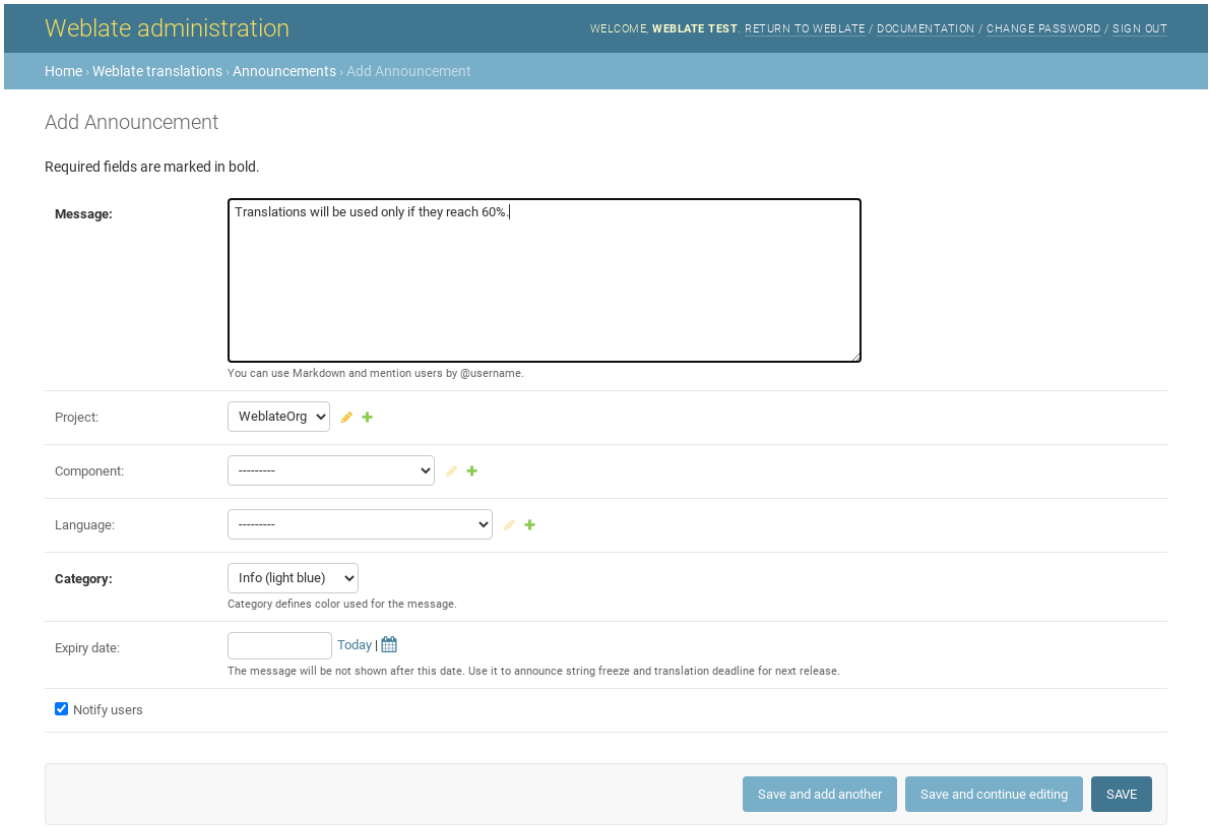
??

Web ??

???????????????*Manage* ?????? *Post announcement* ????????????:


Weblate
Dashboard
Projects
Languages
Checks
WeblateOrg
translated 90%
Translations will be used only if they reach 60%.
Components
Languages
Info
Search
Insights
Files
Tools
Manage
Share
Not watching
Post announcement
Message
You can use Markdown and mention users by @username.
Category
Info (light blue)
Category defines color used for the message.
Expiry date
mm/dd/yyyy
The message will be not shown after this date. Use it to announce string freeze and translation deadline for next release.
Notify users
The message is shown for all translations within the project, until its given expiry, or permanently until it is deleted.
Add
Powered by Weblate 4.9
About Weblate
Legal
Contact
Documentation
Donate to Weblate

□□□□□□□□□□□□□□□□□□□□□□□□□□□:


Weblate administration
WELCOME, WEBLATE TEST. RETURN TO WEBLATE / DOCUMENTATION / CHANGE PASSWORD / SIGN OUT
Home › Weblate translations › Announcements › Add Announcement
Add Announcement
Required fields are marked in bold.
Message:
Translations will be used only if they reach 60%.
You can use Markdown and mention users by @username.
Project:
WeblateOrg
Component:

Language:

Category:
Info (light blue)
Category defines color used for the message.
Expiry date:
Today |
The message will be not shown after this date. Use it to announce string freeze and translation deadline for next release.
Notify users
Save and add another
Save and continue editing
SAVE

[illegible]:

[illegible]

[illegible] [illegible]

[illegible]

[illegible]

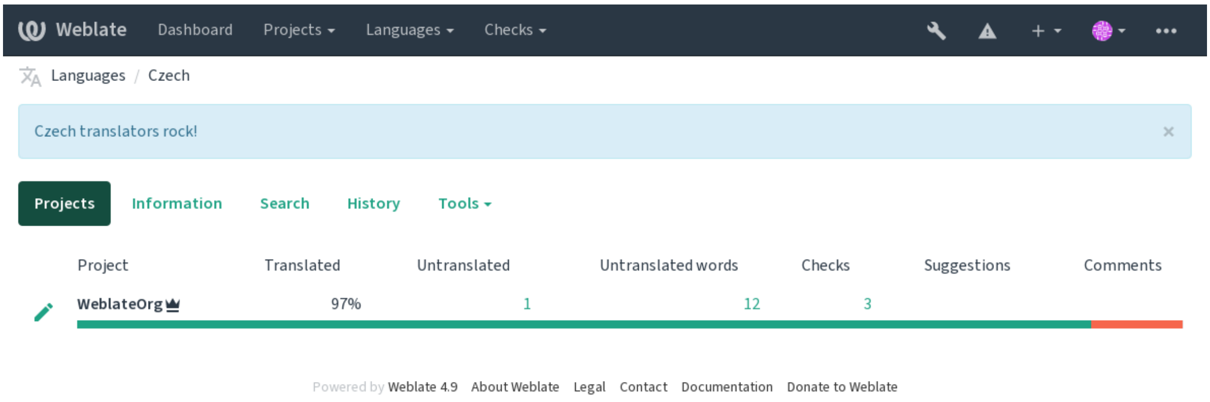
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]:



[illegible] [illegible]

[illegible] 1 [illegible]*[illegible]* [illegible]

[illegible] 2.20 [illegible]: [illegible] [illegible]

[illegible] [illegible] *[illegible]* *[illegible]* [illegible] [illegible]URL [illegible]

[illegible] 2.13 [illegible]: [illegible]

[illegible] [illegible]

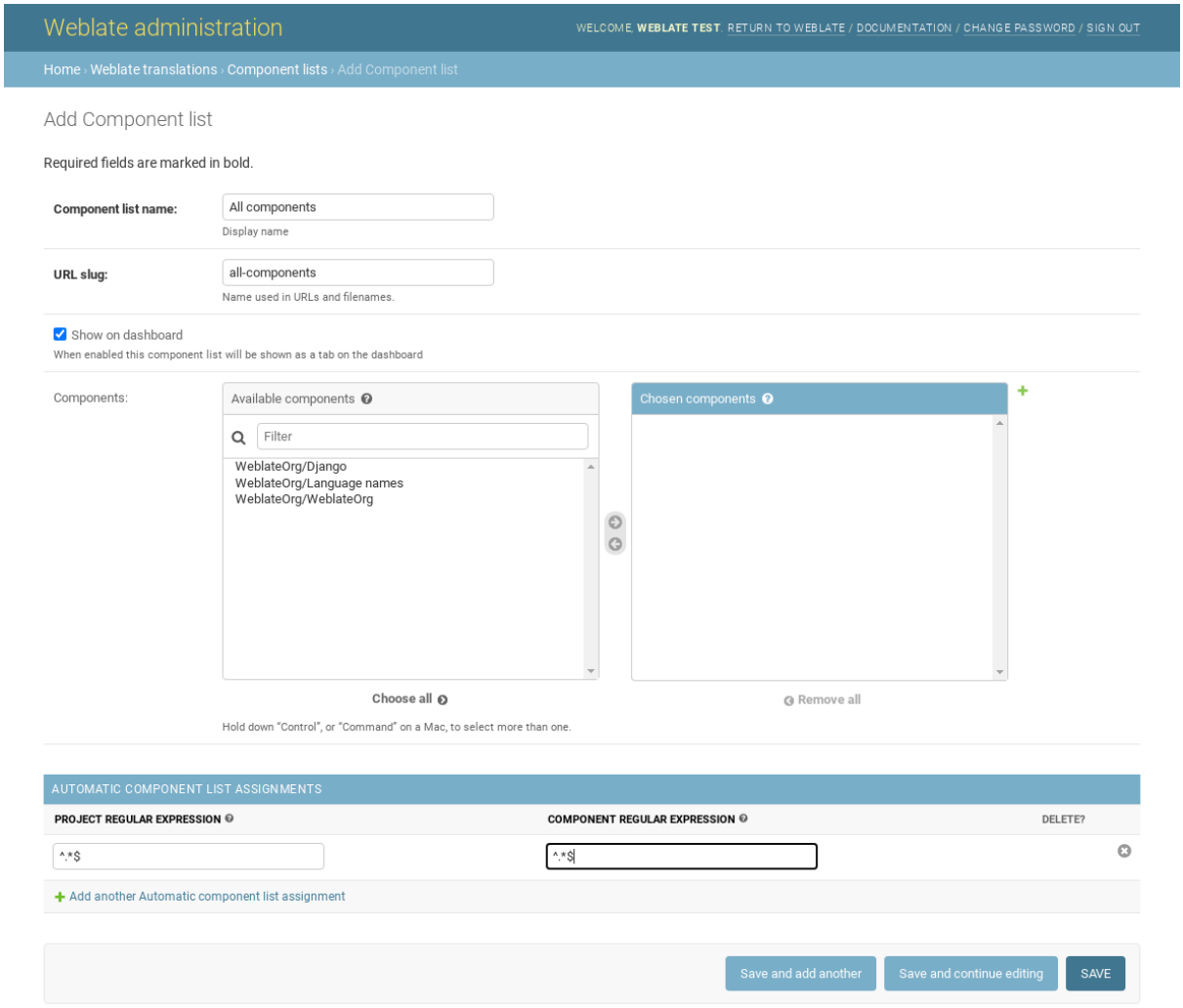
[illegible] 2.13 [illegible].

[illegible]*[illegible] [illegible]* [illegible]

[illegible] [illegible] Weblate [illegible] 1 [illegible] [illegible]

[illegible]: [illegible] Weblate [illegible] [illegible]

1. Define *Automatic component list assignment* with `^.*$` as regular expression in both the project and the component fields, as shown on this image:



Optional Weblate modules

Several optional modules are available for your setup.

Git exporter

□□□□□ 2.10 □□□.

Provides you read-only access to the underlying Git repository using HTTP(S).

□□

1.Add `weblate.gitexport` to installed apps in `settings.py`:

```
INSTALLED_APPS += ("weblate.gitexport",)
```

2.Export existing repositories by migrating your database after installation:

```
weblate migrate
```

Usage

The module automatically hooks into Weblate and sets the exported repository URL in the *Component configuration*. The repositories are accessible under the `/git/` part of the Weblate URL, for example `https://example.org/git/weblate/main/`.

Repositories for publicly available projects can be cloned without authentication:

```
git clone 'https://example.org/git/weblate/main/'
```

Access to browse the repositories with restricted access (with *Private access control* or when *REQUIRE_LOGIN* is enabled) requires an API token which can be obtained in your *user profile*:

```
git clone 'https://user:KEY@example.org/git/weblate/main/'
```

???: By default members or *Users* group and anonymous user have access to the repositories for public projects via *Access repository* and *Power user* roles.

??

????? 2.4 ???.

This is used on Hosted Weblate to define billing plans, track invoices and usage limits.

??

1. Add `weblate.billing` to installed apps in `settings.py`:

```
INSTALLED_APPS += ("weblate.billing",)
```

2.Run the database migration to optionally install additional database structures for the module:

```
weblate migrate
```

Usage

After installation you can control billing in the admin interface. Users with billing enabled will get new *Billing* tab in their ?????.

The billing module additionally allows project admins to create new projects and components without being superusers (see *Adding translation projects and components*). This is possible when following conditions are met:

The billing is in its configured limits (any overusage results in blocking of project/component creation) and paid (if its price is non zero)

The user is admin of existing project with billing or user is owner of billing (the latter is necessary when creating new billing for users to be able to import new projects).

Upon project creation user is able to choose which billing should be charged for the project in case he has access to more of them.

?????????

????? 2.15 ???.

This is used on Hosted Weblate to provide required legal documents. It comes provided with blank documents, and you are expected to fill out the following templates in the documents:

Terms of service document

Privacy policy document

Short overview of the terms of service and privacy policy

??: Legal documents for the Hosted Weblate service are available in this Git repository <https://github.com/WeblateOrg/wllegal/tree/main/wllegal/templates/legal/documents>.

Most likely these will not be directly usable to you, but might come in handy as a starting point if adjusted to meet your needs.

??

1. Add `weblate.legal` to installed apps in `settings.py`:

```
INSTALLED_APPS += ("weblate.legal",)

# Optional:

# Social auth pipeline to confirm TOS upon registration/subsequent sign in
SOCIAL_AUTH_PIPELINE += ("weblate.legal.pipeline.tos_confirm",)

# Middleware to enforce TOS confirmation of signed in users
MIDDLEWARE += [
    "weblate.legal.middleware.RequireTOSMiddleware",
]
```

2.Run the database migration to optionally install additional database structures for the module:

```
weblate migrate
```

3.Edit the legal documents in the `weblate/legal/templates/legal/` folder to match your service.

Usage

After installation and editing, the legal documents are shown in the Weblate UI.

Avatars

Avatars are downloaded and cached server-side to reduce information leaks to the sites serving them by default. The built-in support for fetching avatars from e-mails addresses configured for it can be turned off using *ENABLE_AVATARS*.

Weblate currently supports:

Gravatar

Libravatar

??:

??????????AVATAR_URL_PREFIX?ENABLE_AVATARS

Spam protection

You can protect against spamming by users by using the Akismet service.

1.Install the *akismet* Python module (this is already included in the official Docker image).

2.Obtain the Akismet API key.

3.Store it as *AKISMET_API_KEY* or *WEBLATE_AKISMET_API_KEY* in Docker.

Following content is sent to Akismet for checking:

??????????????????

??????????????????????

??: This (among other things) relies on IP address of the client, please see *???? ??????????* for properly configuring that.

??:

???? ??????????AKISMET_API_KEY?WEBLATE_AKISMET_API_KEY

Signing Git commits with GnuPG

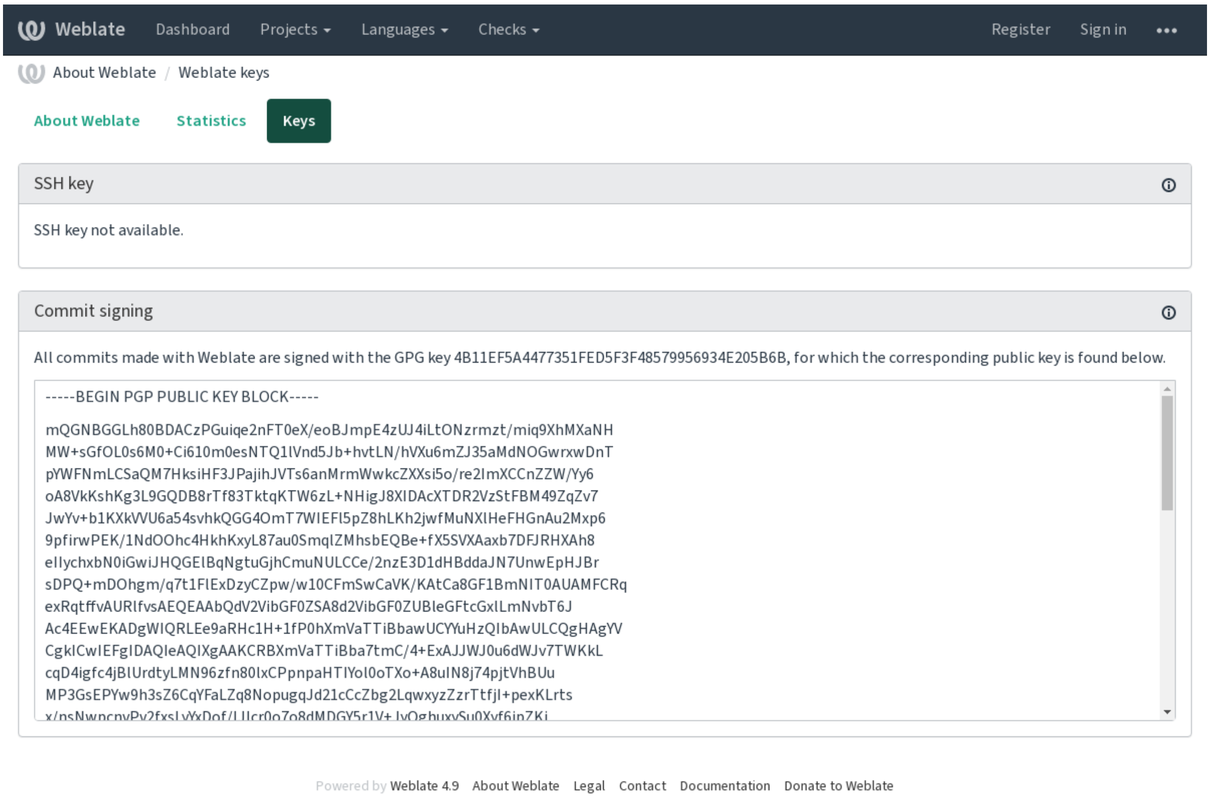
[illegible] 3.1 [illegible].

All commits can be signed by the GnuPG key of the Weblate instance.

1. Turn on *WEBLATE_GPG_IDENTITY*. (Weblate will generate a GnuPG key when needed and will use it to sign all translation commits.)

This feature needs GnuPG 2.1 or newer installed.

You can find the key in the *DATA_DIR* and the public key is shown on the "About" page:



2. Alternatively you can also import existing keys into Weblate, just set `HOME=$DATA_DIR/home` when invoking gpg.

[illegible]:

WEBLATE_GPG_IDENTITY

[illegible]

[illegible] 3.2 [illegible]: [illegible]

[illegible] 4.6 [illegible]: The rate limiting no longer applies to superusers.

Weblate [illegible] *RATELIMIT_WINDOW* [illegible] *RATELIMIT_ATTEMPTS* [illegible] *RATELIMIT_LOCKOUT* [illegible]RATELIMIT_CONTACT_ATTEMPTS [illegible] RATELIMIT_TRANSLATE_ATTEMPTS [illegible]

[illegible]

??	???????	??????????????????		
??	REGISTRATION	5	300	600
??????????????	MESSAGE	5	300	600
???? ??????????????	LOGIN	5	300	600
?????????	SEARCH	6	60	60
??	TRANSLATE	30	60	600
?????????	GLOSSARY	30	60	600
??????????????	LANGUAGE	2	300	600
Creating new project	PROJECT	5	600	600

????????? *AUTH_LOCK_ATTEMPTS* ??

The settings can be also applied in the Docker container by adding `WEBLATE_` prefix to the setting name, for example *RATELIMIT_ATTEMPTS* becomes *WEBLATE_RATELIMIT_ATTEMPTS*.

API ????????????????????: *API ?????*

??:

?????????? ??????????API ?????

Fedora Messaging ???

Fedora Messaging is AMQP-based publisher for all changes happening in Weblate. You can hook additional services on changes happening in Weblate using this.

The Fedora Messaging integration is available as a separate Python module `weblate-fedora-messaging`. Please see <https://github.com/WeblateOrg/fedora_messaging/> for setup instructions.

Customizing Weblate

Extend and customize using Django and Python. Contribute your changes upstream so that everybody can benefit. This reduces your maintenance costs; code in Weblate is taken care of when changing internal interfaces or refactoring the code.

??: Neither internal interfaces nor templates are considered a stable API. Please review your own customizations for every upgrade, the interfaces or their semantics might change without notice.

??:

Weblate ???

Creating a Python module

If you are not familiar with Python, you might want to look into Python For Beginners, explaining the basics and pointing to further tutorials.

To write some custom Python code (called a module), a place to store it is needed, either in the system path (usually something like `/usr/lib/python3.7/site-packages/`) or in the Weblate directory, which is also added to the interpreter search path.

Better yet, turn your customization into a proper Python package:

1. Create a folder for your package (we will use *weblate_customization*).
2. Within it, create a `setup.py` file to describe the package:

```
from setuptools import setup

setup(
    name="weblate_customization",
    version="0.0.1",
    author="Your name",
    author_email="yourname@example.com",
    description="Sample Custom check for Weblate.",
    license="GPLv3+",
    keywords="Weblate check example",
```

(?????????)

```
    packages=["weblate_customization"],
)
```

3.Create a folder for the Python module (also called `weblate_customization`) for the customization code.

4.Within it, create a `__init__.py` file to make sure Python can import the module.

5.This package can now be installed using **`pip install -e`**. More info to be found in "Editable" Installs.

6.Once installed, the module can be used in the Weblate configuration (for example `weblate_customization.checks.FooCheck`).

Your module structure should look like this:

```
weblate_customization
├── setup.py
└── weblate_customization
    ├── __init__.py
    ├── addons.py
    └── checks.py
```

You can find an example of customizing Weblate at <https://github.com/WeblateOrg/customize-example>, it covers all the topics described below.

Changing the logo

1.□□□□□□□□□□□□□□□□□ Django □□□□□□□□□□□□□□□□□:*Creating a Python module*□□

Branding appears in the following files:

`/weblate.svg` Logo shown in the navigation bar.

`logo-*.png` Web icons depending on screen resolution and web-browser.

`favicon.ico` Web icon used by legacy browsers.

`eblate-*.png` Avatars for bots or anonymous users. Some web-browsers use these as shortcut icons.

`ail-logo.png` Used in notifications e-mails.

2.Add it to `INSTALLED_APPS`:

```
INSTALLED_APPS = (
    # Add your customization as first
    "weblate_customization",
    # Weblate apps are here…
)
```

3.Run `weblate collectstatic --noinput`, to collect static files served to clients.

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□□□□□□ (□□□JavaScript□CSS □□) □□□□□□*□□□□□□□□□□*

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1.Weblate □□□□□□□□□□□Python □□□□□□□□□□□□□□□□□: *Creating a Python module*□□

2.Python □□□□□□□□□□□□□□□□□□□□□□□*WEBLATE_ADDONS*□*CHECK_LIST* □□□ *AUTOFIX_LIST*):

```
# Checks
CHECK_LIST += ("weblate_customization.checks.FooCheck",)

# Autofixes
AUTOFIX_LIST += ("weblate_customization.autofix.FooFixer",)

# Add-ons
WEBLATE_ADDONS += ("weblate_customization.addons.ExamplePreAddon",)
```

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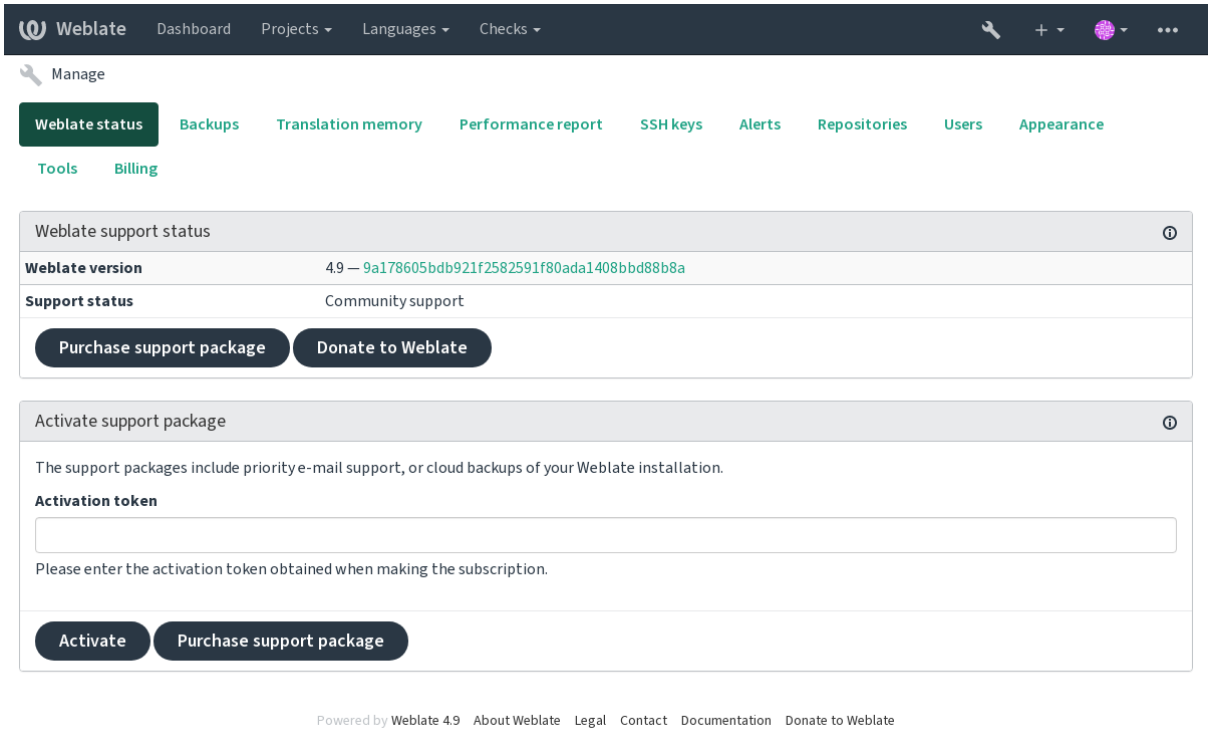
???????/manage/ URL ??:



Weblate ????????:
???????????: *Weblate ???????????*
???????????: *Weblate ???????????*
???????????: *?????*
Weblate ?????? Celery ????????????????????
SSH ???????: *SSH ??????*
??????????????????????: alerts

Django ????

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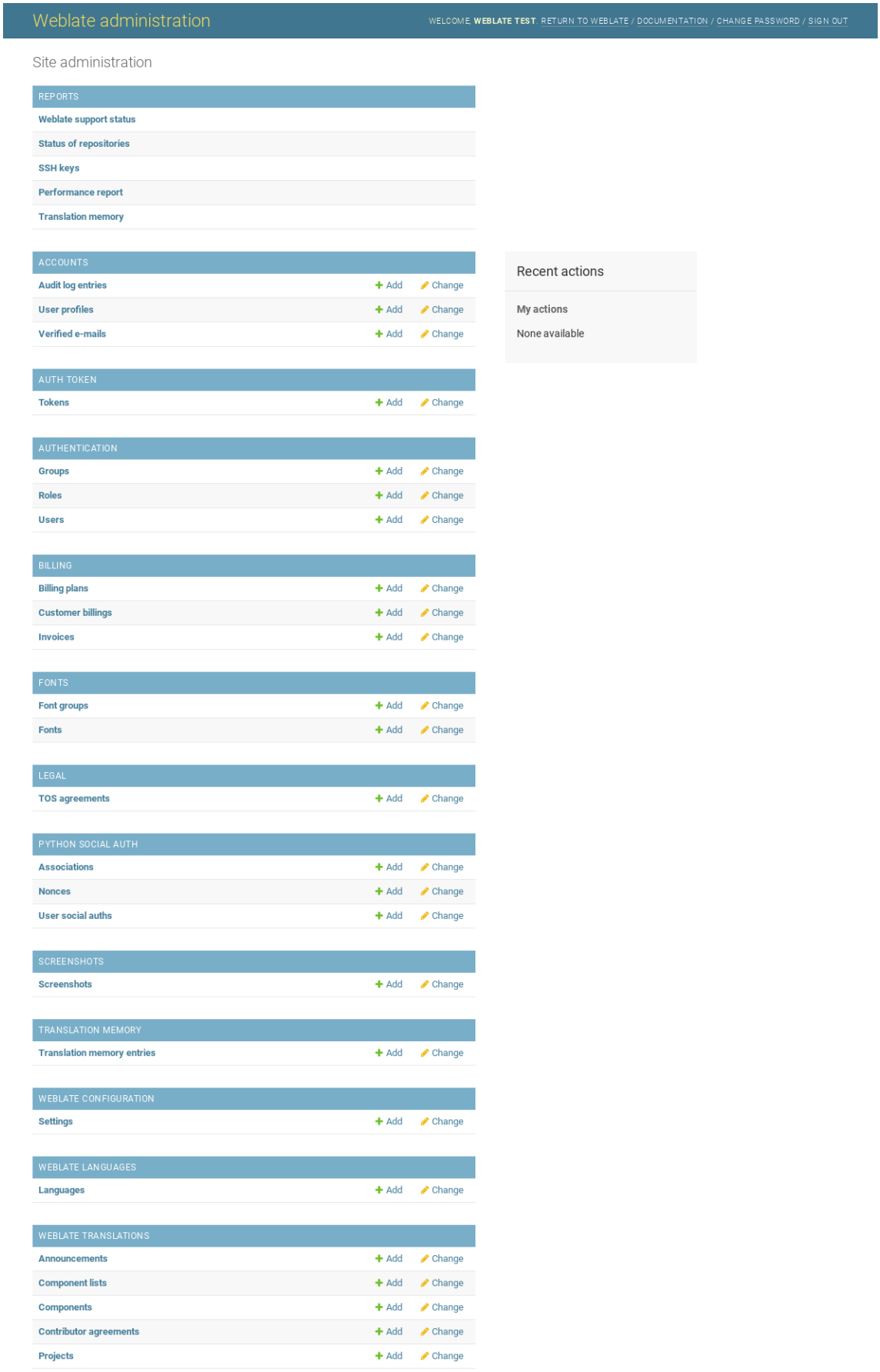
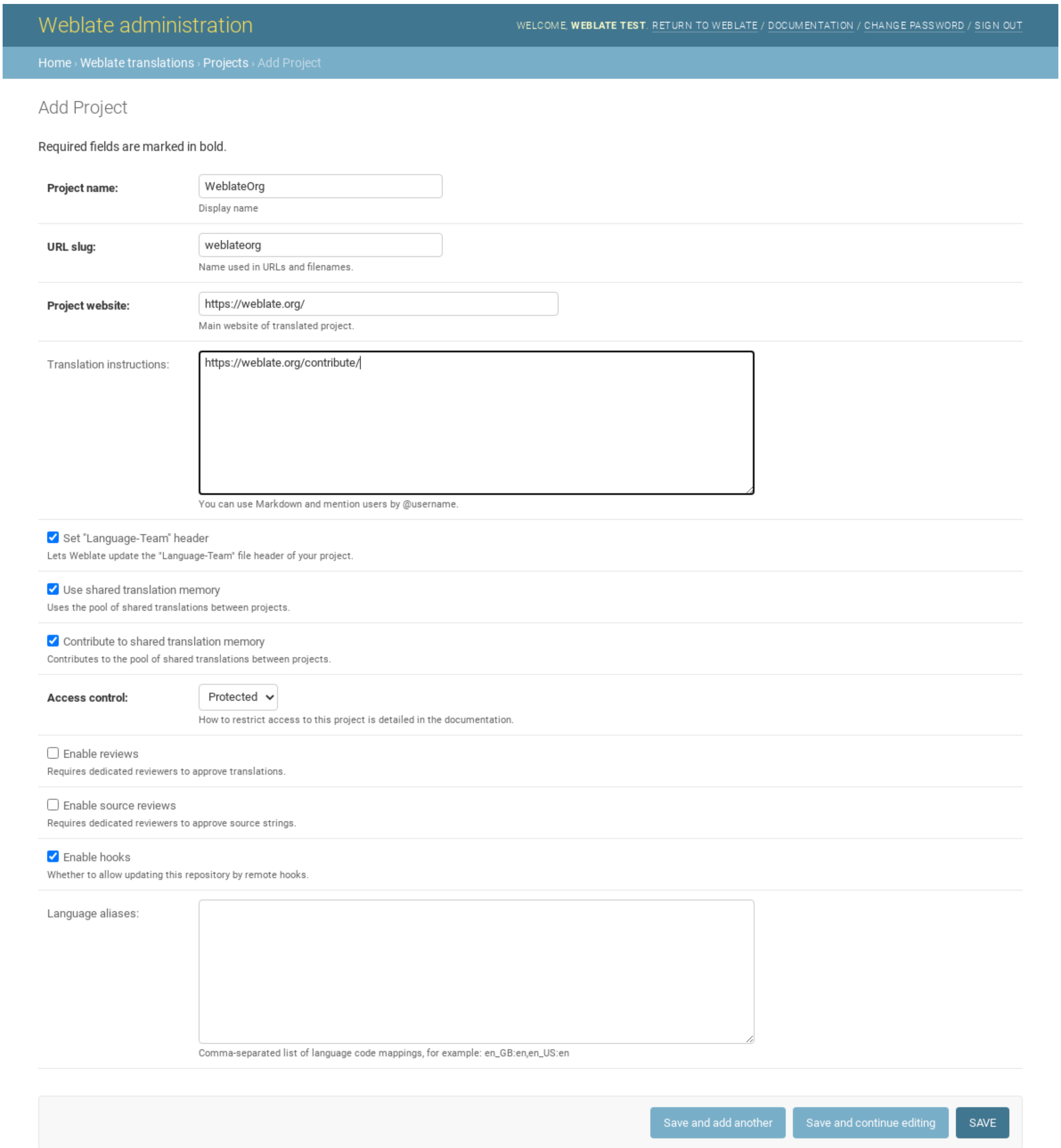

Weblate administration
WELCOME, WEBLATE TEST. RETURN TO WEBLATE / DOCUMENTATION / CHANGE PASSWORD / SIGN OUT
Site administration
REPORTS
Weblate support status
Status of repositories
SSH keys
Performance report
Translation memory
ACCOUNTS
Audit log entries + Add Change
User profiles + Add Change
Verified e-mails + Add Change
AUTH TOKEN
Tokens + Add Change
AUTHENTICATION
Groups + Add Change
Roles + Add Change
Users + Add Change
BILLING
Billing plans + Add Change
Customer billings + Add Change
Invoices + Add Change
FONTS
Font groups + Add Change
Fonts + Add Change
LEGAL
TOS agreements + Add Change
PYTHON SOCIAL AUTH
Associations + Add Change
Nonces + Add Change
User social auths + Add Change
SCREENSHOTS
Screenshots + Add Change
TRANSLATION MEMORY
Translation memory entries + Add Change
WEBLATE CONFIGURATION
Settings + Add Change
WEBLATE LANGUAGES
Languages + Add Change
WEBLATE TRANSLATIONS
Announcements + Add Change
Component lists + Add Change
Components + Add Change
Contributor agreements + Add Change
Projects + Add Change
Recent actions
My actions
None available

Reports [illegible] *[illegible]* [illegible] *[illegible]* [illegible] SSH [illegible] [illegible] [illegible] *Weblate translations* [illegible]: *Project configuration* [illegible] *Component configuration* [illegible]

Weblate languages [illegible] *[illegible]* [illegible]

[illegible]

[illegible] ([illegible] *Project configuration* [illegible]):



[illegible]:

Project configuration

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??*Component configuration* ?????


Weblate administration
WELCOME, WEBLATE TEST. RETURN TO WEBLATE / DOCUMENTATION / CHANGE PASSWORD / SIGN OUT
Home › Weblate translations › Components › Add Component
Add Component
IMPORT SPEED DOCUMENTATION
Required fields are marked in bold.
Component name:
Language names
Display name
URL slug:
language-names
Name used in URLs and filenames.
Project:
WeblateOrg
Version control system:
Git
Version control system to use to access your repository containing translations. You can also choose additional integration with third party providers to submit merge requests.
Source code repository:
https://github.com/WeblateOrg/demo.git
URL of a repository, use weblate://project/component to share it with other component.
Repository push URL:
URL of a push repository, pushing is turned off if empty.
Repository browser:
https://github.com/WeblateOrg/demo/blob/{{branch}}/{{filename}}#L{
Link to repository browser, use {{branch}} for branch, {{filename}} and {{line}} as filename and line placeholders. You might want to strip leading directory by using {{filename|parentdir}}.
Exported repository URL:
URL of repository where users can fetch changes from Weblate
Source string bug reporting address:
E-mail address for reports on errors in source strings. Leave empty for no e-mails.
Repository branch:
Repository branch to translate
Push branch:
Branch for pushing changes, leave empty to use repository branch
Filemask:
weblate/langdata/locale/*/LC_MESSAGES/djangojs.po
Path of files to translate relative to repository root, use * instead of language code, for example: po/*.po or locale/*/LC_MESSAGES/djangojs.po.
Monolingual base language file:
Filename of translation base file, containing all strings and their source, it is recommended for monolingual translation formats.
Edit base file
Whether users will be able to edit the base file for monolingual translations.
Intermediate language file:
Filename of intermediate translation file. In most cases this is a translation file provided by developers and is used when creating actual source strings.
Template for new translations:
weblate/langdata/locale/djangojs.pot
Filename of file used for creating new translations. For gettext choose .pot file.
File format:
gettext PO file
Locked
Locked component will not get any translation updates.
Allow translation propagation
Whether translation updates in other components will cause automatic translation in this one
Turn on suggestions
Whether to allow translation suggestions at all.
Suggestion voting
Users can only vote for suggestions and can't make direct translations.
Autoaccept suggestions:
0
Automatically accept suggestions with this number of votes, use 0 to turn it off.
Translation flags:
Additional comma-separated flags to influence Weblate behavior.
Enforced checks:
[]
List of checks which can not be ignored.
Translation license:
GNU General Public License v3.0 or later
Contributor agreement:
User agreement which needs to be approved before a user can translate this component.
Adding new translation:
Create new language file
How to handle requests for creating new translations.
Language code style:
Default based on the file format
Customize language code used to generate the filename for translations created by Weblate.
Manage strings
Enables adding and removing strings straight from Weblate. If your strings are extracted from the source code or managed externally you probably want to keep it disabled.
Merge style:
Rebase
Define whether Weblate should merge the upstream repository or rebase changes onto it.
Commit message when translating:
Translated using Weblate ({{ language_name }})
Currently translated at {{ stats.translated_percent }}% ({{ stats.translated }} of {{ stats.all }} strings)
Translation: {{ project_name }}/{{ component_name }}
Translate-URL: {{ url }}
You can use template language for various info, please consult the documentation for more details.
Commit message when adding translation:
Added translation using Weblate ({{ language_name }})
You can use template language for various info, please consult the documentation for more details.
Commit message when removing translation:
Deleted translation using Weblate ({{ language_name }})
You can use template language for various info, please consult the documentation for more details.
Commit message when merging translation:
Merge branch '{{ component_remote_branch }}' into Weblate.
You can use template language for various info, please consult the documentation for more details.
Commit message when addon makes a change:
Update translation files
Updated by "{{ addon_name }}" hook in Weblate.
Translation: {{ project_name }}/{{ component_name }}
Translate-URL: {{ url }}
You can use template language for various info, please consult the documentation for more details.
Push on commit
Whether the repository should be pushed upstream on every commit.
Age of changes to commit:
24
Time in hours after which any pending changes will be committed to the VCS.
Lock on error
Whether the component should be locked on repository errors.
Source language:
English
Language used for source strings in all components
Language filter:
^(cs|de|fr)$
Regular expression used to filter translation files when scanning for filemask.
Variants regular expression:
Regular expression used to determine variants of a string.
Priority:
Medium
Components with higher priority are offered first to translators.
Restricted component
Restrict access to the component to only those explicitly given permission.
Share in projects:
WeblateOrg
Choose additional projects where this component will be listed. Hold down "Control", or "Command" on a Mac, to select more than one.
Use as a glossary
Glossary color:
Silver
Remote revision:
Local revision:
Save and add another
Save and continue editing
SAVE

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Component configuration?

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??????????????????????????*Component configuration* ????:

Weblate administration

WELCOME, WEBLATE TEST. RETURN TO WEBLATE / DOCUMENTATION / CHANGE PASSWORD / SIGN OUT

Home › Weblate translations › Components › Add Component

Add Component

IMPORT SPHEO DOCUMENTATION

Required fields are marked in bold.

Component name: Android
Display name

URL slug: android
Name used in URLs and filenames.

Project: WeblateOrg

Version control system: Git
Version control system to use to access your repository containing translations. You can also choose additional integration with third party providers to submit merge requests.

Source code repository: weblate://weblateorg/language-names
URL of a repository, use weblate://project/component to share it with other component.

Repository push URL:
URL of a push repository, pushing is turned off if empty.

Repository browser:
Link to repository browser, use {{branch}} for branch, {{filename}} and {{line}} as filename and line placeholders. You might want to strip leading directory by using {{filename|parentdir}}.

Exported repository URL:
URL of repository where users can fetch changes from Weblate.

Source string bug reporting address:
E-mail address for reports on errors in source strings. Leave empty for no e-mails.

Repository branch:
Repository branch to translate.

Push branch:
Branch for pushing changes, leave empty to use repository branch.

Filemask: app/src/main/res/values-*/strings.xml
Path of files to translate relative to repository root, use * instead of language code, for example: po/*.po or locale/*/LC_MESSAGES/django.po.

Monolingual base language file: app/src/main/res/values/strings.xml
Filename of translation base file, containing all strings and their source, it is recommended for monolingual translation formats.

☑ Edit base file
Whether users will be able to edit the base file for monolingual translations.

Intermediate language file:
Filename of intermediate translation file. In most cases this is a translation file provided by developers and is used when creating extract source strings.

Template for new translations:
Filename of file used for creating new translations. For gettext choose .pot file.

File format: Android String Resource

☐ Locked
Locked component will not get any translation updates.

☑ Allow translation propagation
Whether translation updates in other components will cause automatic translation in this one

☑ Turn on suggestions
Whether to allow translation suggestions at all.

☐ Suggestion voting
Users can only vote for suggestions and can't make direct translations.

Autoaccept suggestions: 0
Automatically accept suggestions with this number of votes, use 0 to turn it off.

Translation flags:
Additional comma-separated flags to influence Weblate behavior.

Enforced checks:
List of checks which can not be ignored.

Translation license: MIT License

Contributor agreement:
User agreement which needs to be approved before a user can translate this component.

Adding new translation: Create new language file
How to handle requests for creating new translations.

Language code style: Default based on the file format
Customize language code used to generate the filenames for translations created by Weblate.

☐ Manage strings
Enables adding and removing strings straight from Weblate. If your strings are extracted from the source code or managed externally you probably want to keep it disabled.

Merge style: Rebase
Define whether Weblate should merge the upstream repository or rebase changes onto it.

Commit message when translating:
```
Translated using Weblate ({{ language_name }})

Currently translated at {{ stats.translated_percent }}% ({{ stats.translated }} of {{ stats.all }} strings)

Translation: {{ project_name }}/{{ component_name }}
Translate-URL: {{ url }}
```
You can use template language for various info, please consult the documentation for more details.

Commit message when adding translation:
```
Added translation using Weblate ({{ language_name }})
```
You can use template language for various info, please consult the documentation for more details.

Commit message when removing translation:
```
Deleted translation using Weblate ({{ language_name }})
```
You can use template language for various info, please consult the documentation for more details.

Commit message when merging translation:
```
Merge branch '{{ component_remote_branch }}' into Weblate.
```
You can use template language for various info, please consult the documentation for more details.

Commit message when addon makes a change:
```
Update translation files

Updated by "{{ addon_name }}" hook in Weblate.

Translation: {{ project_name }}/{{ component_name }}
Translate-URL: {{ url }}
```
You can use template language for various info, please consult the documentation for more details.

☑ Push on commit
Whether the repository should be pushed upstream on every commit.

Age of changes to commit: 24
Time in hours after which any pending changes will be committed to the VCS.

☑ Lock on error
Whether the component should be locked on repository errors.

Source language: English
Language used for source strings in all components

Language filter: ^[^i]+$
Regular expression used to filter translation files when scanning for filemask.

Variants regular expression:
Regular expression used to determine variants of a string.

Priority: Medium
Components with higher priority are offered first to translators.

☐ Restricted component
Restrict access to the component to only those explicitly given permission.

Share in projects: WeblateOrg
Choose additional projects where this component will be listed. Hold down "Control", or "Command" on a Mac, to select more than one.

☐ Use as a glossary

Glossary color: Silver

Remote revision:

Local revision:

Save and add another | Save and continue editing | SAVE

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Component configuration□□□□□□□□□□□□□□□□□□□

Weblate □□□□□□□□□□□□

Weblate □□□□□□□□□□□□□□□□□□□□□□□□ Libre □□□<https://weblate.org/support/> □□□□□□□□□□

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□□□□□ 3.8 □□□.

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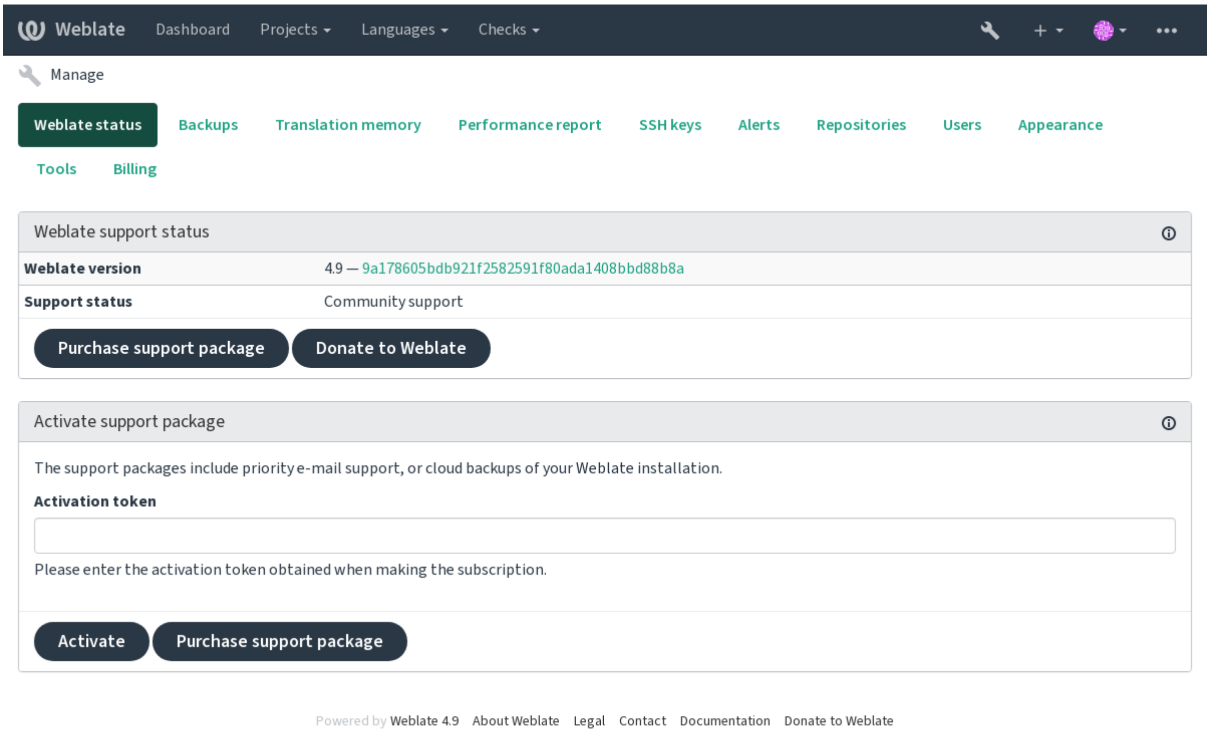

Weblate □□□□□□□□□□

Weblate □□□□□□□□□□□□□□ URL

□□□□□□□□

□□□□□□ Weblate □□□□□□

Weblate □□

□□□□□□□ SSH □□□

Additionally, when *Weblate □□□* is turned on:

List of public projects (name, URL and website)

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Weblate ?????????? ?????

Weblate ???

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Weblate ???

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Discover Weblate is an opt-in service that makes it easier for users to find Weblate servers and communities. Users can browse registered services on <https://weblate.org/discover/>, and find there projects to contribute.

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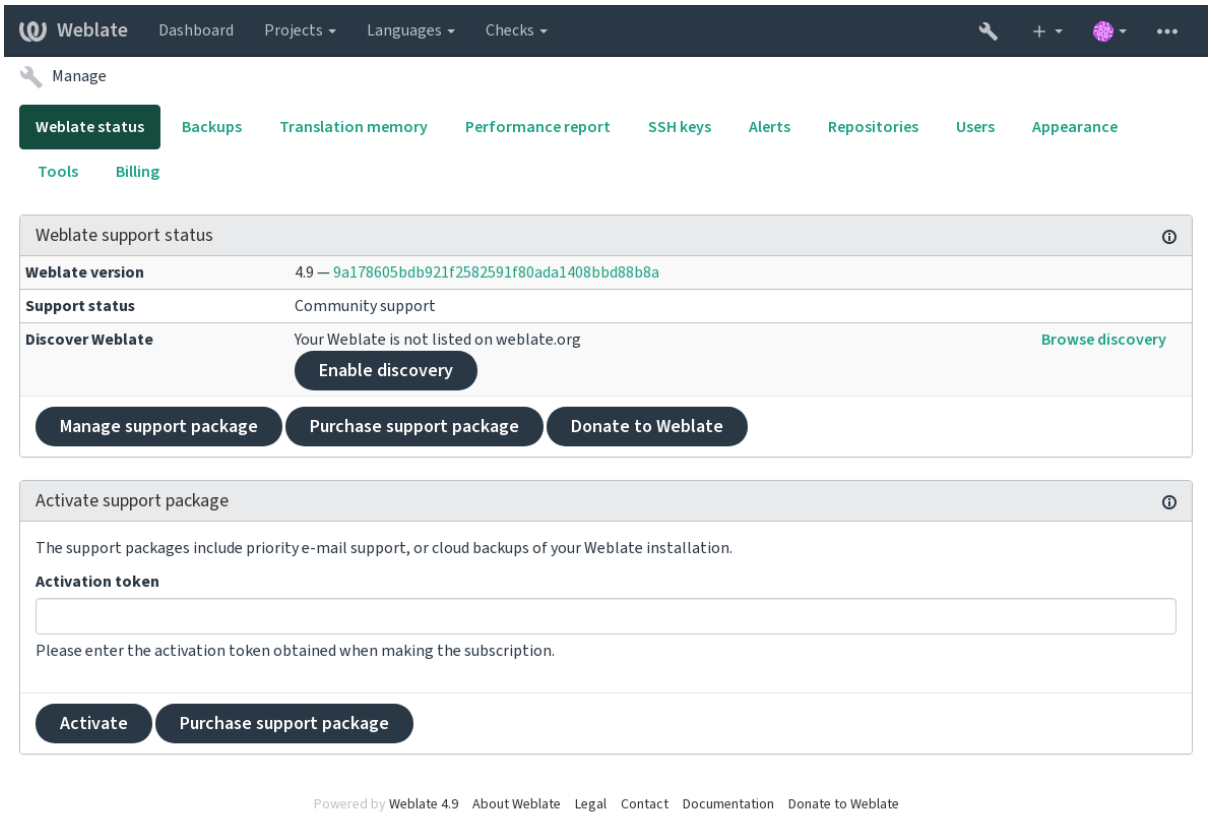
???: Participating in Discover Weblate makes Weblate submit some information about your server, please see *Weblate ?????????*.

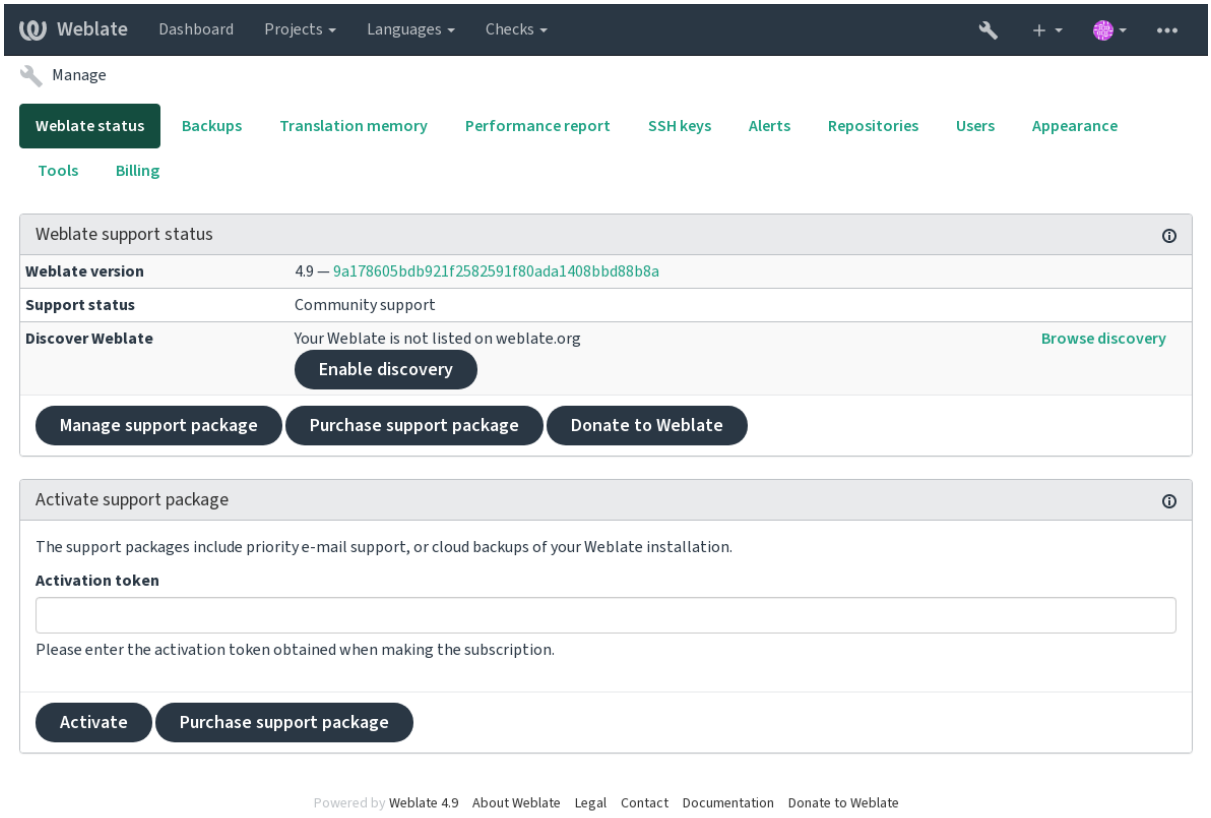
To list your server with an active support subscription (see *???????*) in Discover Weblate all you need to do is turn this on in the management panel:



Listing your server without a support subscription in Discover Weblate:

1. <https://weblate.org/user/> ??????????
2. Weblate ???????????????? <https://weblate.org/subscription/discovery/> ??????

3. Confirm the service activation in your Weblate and turn on the discovery listing in your Weblate management page using *Enable discovery* button:



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You can customize the listing by providing a text and image (570 x 260 pixels) at <https://weblate.org/user/>.

Legal documents

??: Herein you will find various legal information you might need to operate Weblate in certain legal jurisdictions. It is provided as a means of guidance, without any warranty of accuracy or correctness. It is ultimately your responsibility to ensure that your use of Weblate complies with all applicable laws and regulations.

ITAR and other export controls

Weblate can be run within your own datacenter or virtual private cloud. As such, it can be used to store ITAR or other export-controlled information, however, end users are responsible for ensuring such compliance.

The Hosted Weblate service has not been audited for compliance with ITAR or other export controls, and does not currently offer the ability to restrict translations access by country.

US encryption controls

Weblate does not contain any cryptographic code, but might be subject export controls as it uses third party components utilizing cryptography for authentication, data-integrity and -confidentiality.

Most likely Weblate would be classified as ECCN 5D002 or 5D992 and, as publicly available libre software, it should not be subject to EAR (see Encryption items NOT Subject to the EAR).

Software components used by Weblate (listing only components related to cryptographic function):

See https://wiki.python.org/moin/PythonSoftwareFoundationLicenseFaq#Is_Python_subject_to_export_laws.3F

Optionally used by Weblate

Optionally used by Weblate

Used by Git

Used by Python and cURL

The strength of encryption keys depends on the configuration of Weblate and the third party components it interacts with, but in any decent setup it will include all export restricted cryptographic functions:

In excess of 56 bits for a symmetric algorithm

Factorisation of integers in excess of 512 bits for an asymmetric algorithm

Computation of discrete logarithms in a multiplicative group of a finite field of size greater than 512 bits for an asymmetric algorithm

Discrete logarithms in a group different than above in excess of 112 bits for an asymmetric algorithm

Weblate doesn't have any cryptographic activation feature, but it can be configured in a way where no cryptography code would be involved. The cryptographic features include:

Accessing remote servers using secure protocols (HTTPS)

Generating signatures for code commits (PGP)

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Export Controls (EAR) on Open Source Software

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Weblate ???

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If you find a possible mistake in the source string, you can mark it with a comment in the Weblate editor. This way, it can be discussed and corrected. If you're certain, you can also click on the link in the *Source string location* section and submit a PR with your correction.

Weblate[illegible]

You are welcome to improve the documentation page of your choice. Do it easily by clicking the *Edit on GitHub* button in the top-right corner of the page.

Please respect these guidelines while writing:

1. Don't remove part of the documentation if it's valid.
2. Use clear and easily-understandable language. You are writing tech docs, not a poem. Not all docs readers are native speakers, be thoughtful.
3. Don't be affraid to ask if you are not certain. If you have to ask about some feature while editing, don't change its docs before you have the answer. This means: You change or ask. Don't do both at the same time.
4. Verify your changes by performing described actions while following the docs.
5. Send PR with changes in small chunks to make it easier and quicker to review and merge.
6. If you want to rewrite and change the structure of a big article, do it in two steps:
   1. Rewrite
   2. Once the rewrite is reviewed, polished, and merged, change the structure of the paragraphs in another PR.

[illegible]: You can translate the docs.

Extending built-in language definitions

The language definitions are in the weblate-language-data repository.

You are welcome to add missing language definitions to `languages.csv`, other files are generated from that file.

Weblate [illegible]

[illegible] issue [illegible] GitHub discussions [illegible]

Weblate [illegible]

Weblate [illegible] donate page [illegible]Libre [illegible] [illegible] Weblate [illegible] *[illegible]* [illegible]

Weblate [illegible]

Weblate [illegible]:

Yashiro Ccs

Cheng-Chia Tseng

Timon Reinhard

Cassidy James

Loic Dachary

Marozed

https://freedombox.org/

GNU Solidario (GNU Health)

BallotReady

Richard Nespithal

MyExpenses.Mobi

[illegible]Weblate [illegible] [illegible]

Weblate ??????????

Weblate ?????????????????? *Weblate ?????????*Weblate ?????????*Weblate ????* ??????????

???????????

good first issue ??????????????????Weblate ??????????????????

Weblate ?????????

Weblate ??????????????????*????????????* ???????????????? Weblate ?????????? virtualenv ????????

1.Weblate ????????????:

```
git clone https://github.com/WeblateOrg/weblate.git
cd weblate
```

2.virtualenv ???:

```
virtualenv .venv
.venv/bin/activate
```

3.Weblate ????????????????????????????????: *????????????*:

```
pip install -e .
```

3.??????????????????????

```
pip install -r requirements-dev.txt
```

4.??????????:

```
weblate runserver
```

5.Celery Worker ????????????:

```
./weblate/examples/celery start
```

6.?????????? *Local testing* ???????????:

```
. scripts/test-database
./manage.py test
```

??:

????????????

Docker???????? Weblate ????

Docker ? docker-compose ??

```
./rundev.sh
```

??? Docker ??????????????Weblate ? <http://127.0.0.1:8080/> ?????????`admin` ???????? `admin` ????????????????????????????????*Adding translation projects and components* ??????????

`Dockerfile` ? `docker-compose.yml` ??`dev-docker` ????????????

The script also accepts some parameters, to execute tests, run it with the `test` parameter and then specify any `test` parameters, for example running only tests in the `weblate.machine` module:

```
./rundev.sh test --failfast weblate.machine
```

??: ????????????Docker ?????????????????????????? `docker ps` ??????????????????

?????????

```
./rundev.sh logs
```

[illegible] [illegible]:

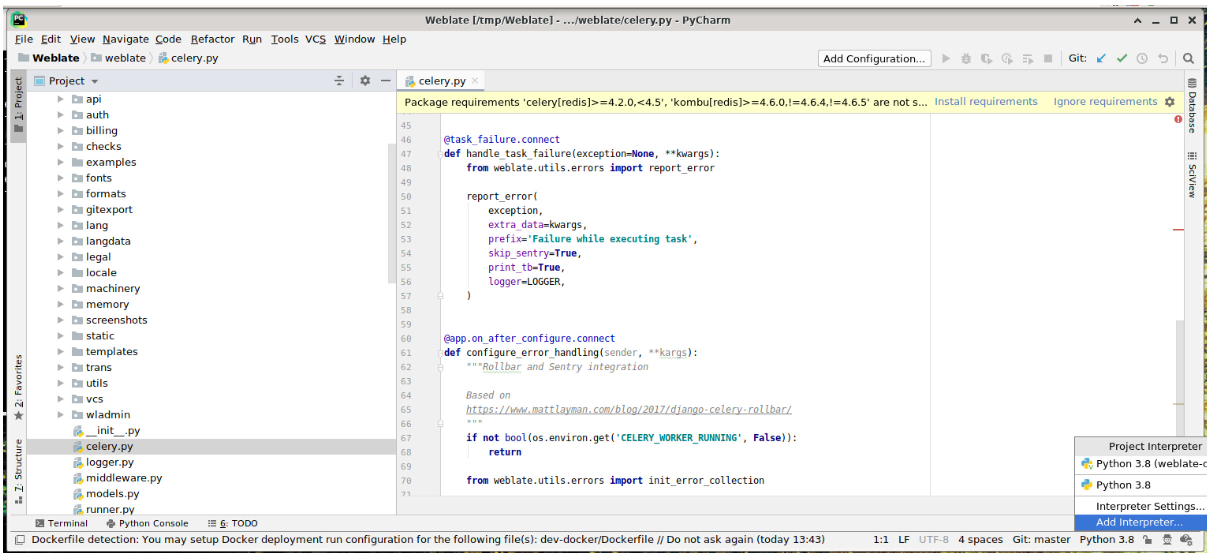
```
./rundev.sh stop
```

[illegible]Docker [illegible]

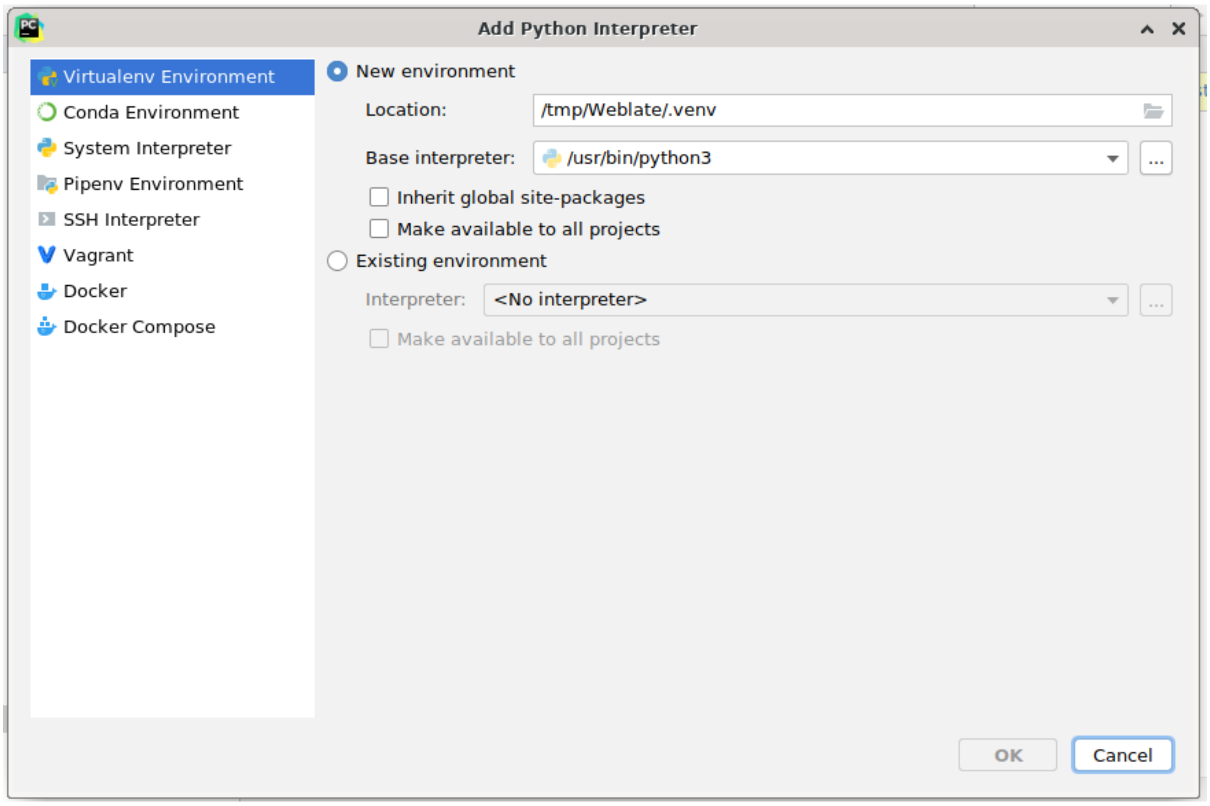
[illegible]: [illegible]

PyCharm [illegible] Weblate [illegible]

PyCharm [illegible] Python [illegible] IDE [illegible] Weblate [illegible] GitHub [illegible]PyCharm [illegible]IDE [illegible]:

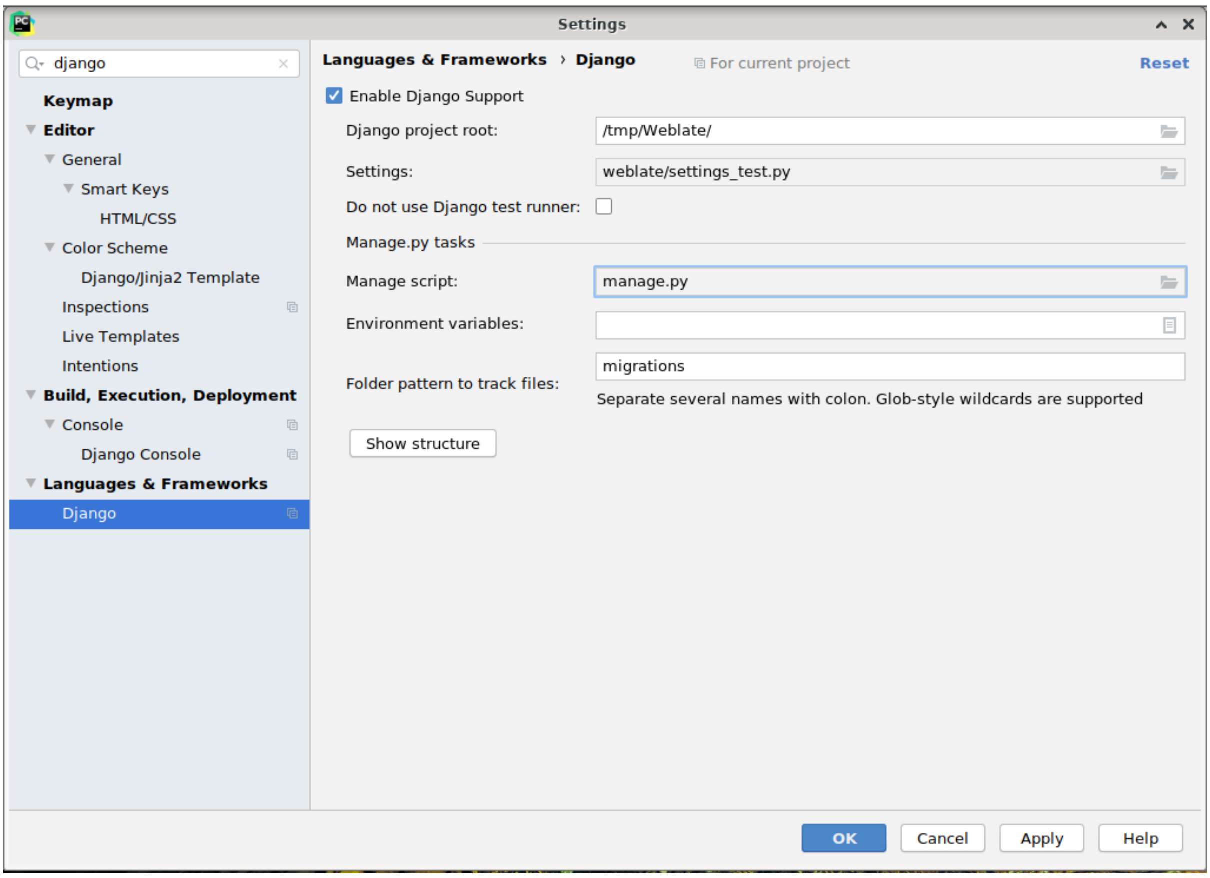


PyCharm [illegible] virtualenv [illegible]



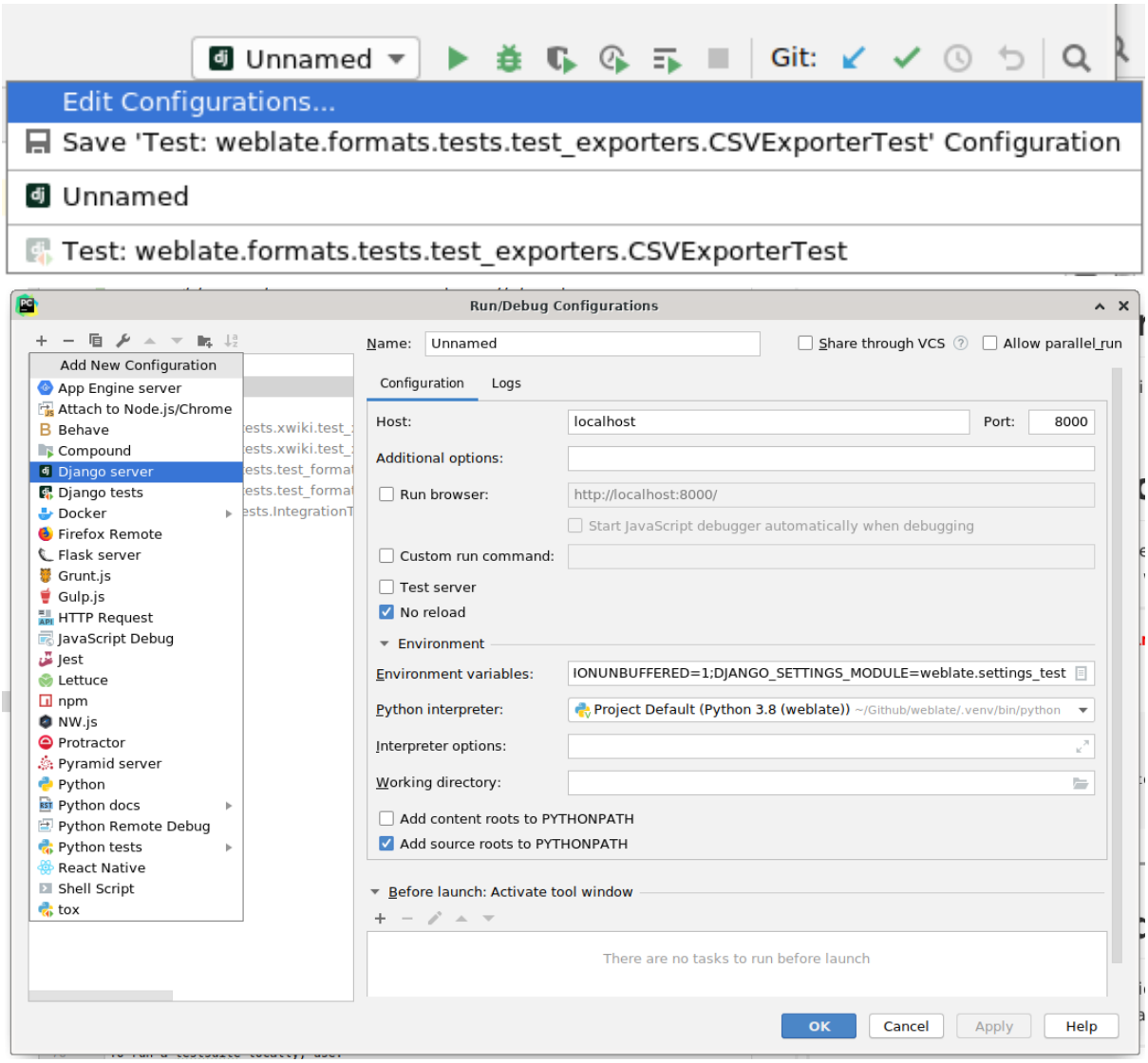
[illegible]: [illegible]IDE [illegible] virtualenv [illegible]

2 [illegible]PyCharm [illegible] Django [illegible]: [illegible]IDE [illegible]Django [illegible] [illegible]:



[illegible]Django[illegible] [illegible]weblate [illegible] [illegible]

`weblate/settings_test.py` ??
??? *Django Server* ????????:



???: Be careful with the property called *No reload*: It prevents the server from being reloaded live if you modify files. This allows the existing debugger breakpoints to persist, when they normally would be discarded upon reloading the server.

[illegible]

import_demo [illegible] *createadmin* [illegible]

Weblate [illegible]

Weblate[illegible] GitHub [illegible] [illegible]

[illegible]:

Weblate [illegible] [illegible]Weblate [illegible]

[illegible]

Weblate [illegible] *[illegible]* [illegible]

[illegible]

[illegible] PEP-8 [illegible] [illegible]**black** [illegible]

[illegible] **flake 8** [illegible] `.pre-commit-config.yaml` [illegible]:file:`setup.cfg`[illegible]

[illegible]pre-commit [illegible]Webrate [illegible] `requirements-lint.txt` [illegible]Weblate [illegible] `pre-commit install` [illegible]

[illegible]:

```
pre-commit run --all
```

Debugging Weblate

Bugs can behave as application crashes or as various misbehavior. You are welcome to collect info on any such issue and submit it to the issue tracker.

[illegible]

Turning on debug mode will make the exceptions show in the web browser. This is useful to debug issues in the web interface, but not suitable for a production environment because it has performance consequences and might leak private data.

In a production environment, use *ADMINS* to receive e-mails containing error reports, or configure error collection using a third-party service.

[illegible]:

[illegible], *[illegible]*, *[illegible]*

Weblate logs

Weblate can produce detailed logs of what is going on in the background. In the default configuration it uses syslog and that makes the log appear either in `/var/log/messages` or `/var/log/syslog` (depending on your syslog daemon configuration).

The Celery process (see *Celery [illegible]*) usually produces its own logs as well. The example system-wide setups logs to several files under `/var/log/celery/`.

Docker containers log to their output (as per usual in the Docker world), so you can look at the logs using `docker-compose logs`.

[illegible]:

[illegible] contains `LOGGING` configuration.

Not processing background tasks

A lot of things are done in the background by Celery workers. If things like sending out e-mails or component removal does not work, there might a related issue.

□□□□□□□□□□:

Check that the Celery process is running, see *Celery □□□□□□□□□□□□□ □□□*

Check the Celery queue status, either in *□□□□*, or using `celery_queues`

Look in the Celery logs for errors (see *Weblate logs*)

Not receiving e-mails from Weblate

You can verify whether outgoing e-mail is working correctly by using the `sendtestemail` management command (see *Invoking management commands* for instructions on how to invoke it in different environments) or by using *□□□□* under the *Tools* tab.

These send e-mails directly, so this verifies that your SMTP configuration is correct (see *□□□□□□□□*). Most of the e-mails from Weblate are however sent in the background and there might be some issues with Celery involved as well, please see *Not processing background tasks* for debugging that.

Analyzing application crashes

In case the application crashes, it is useful to collect as much info about the crash as possible. This can be achieved by using third-party services which can collect such info automatically. You can find info on how to set this up in *□□□ □□□□□□□*.

Silent failures

Lots of tasks are offloaded to Celery for background processing. Failures are not shown in the user interface, but appear in the Celery logs. Configuring *□□□ □□□□□□□* helps you to notice such failures easier.

Performance issues

In case Weblate performs badly in some scenario, please collect the relevant logs showing the issue, and anything that might help figuring out where the code might be improved.

In case some requests take too long without any indication, you might want to install dogslow along with *□□□ □□□□□□□* and get pinpointed and detailed tracebacks in the error collection tool.

Weblate □□□

□□: □□□□□□Weblate □□□□□□□□□□□□□□□□

Weblate □□□□□□□□□□□□□□ *Django* □□□□□□□□□□□□□□

□□□□□□□□□

Weblate □□□ □□□□□□□□□□□□□□□□□□:

□□□□□□□□□□□□□□□□□□□Sphinx □□□□□□□□□□□□□□

□□□□□□□□□□□□ Docker □□□□□□□: *Docker□□□□□□□□ Weblate □□□□□*

`Django<https://www.djangoproject.com/>`_ □□□□□□□□□□□□□ Weblate □□□□□□□□□□□□: *Weblate □□□□□*

□□□□□□□ □□□□□□CSS□Javascript □□□□□□□□□□□: *Weblate □□□□□□□□□*

??????

Weblate ?????? Django ??????????????????????????????????????: *Optional Weblate modules*??

`accounts`
????? ????????????????????

`addons`
Weblate ????????????????????: *??????*

`api`
Django REST framework ???????? API?

`auth`
??????????

`billing`
??????? *??* ???????

`checks`
??????? *?????* ???????

`fonts`
????????????????

`formats`
translate-toolkit ????????????????????????

`gitexport`
??????? *Git exporter* ???????

`lang`
??????????????????????

`legal`
??????? *??????????* ???????

`machinery`
???????????????

`memory`
????????????????: *???????*

`screenshots`
???????????????? OCR ???????

`trans`
???????????? ???????

`utils`
???????? ?????????

`vcs`
????????????????????

`wladmin`
????????? Django ???????

????????

????? ??Weblate ??????????????????????????????

class weblate.addons.base.**BaseAddon**(*storage=None*)

classmethod can_install(*component*, *user*)
??

configure(*settings*)
??????????

daily(*component*)
??????????

classmethod get_add_form(*user*, *component*, ***kwargs*)
??????????????????????????????????

get_settings_form(*user*, ***kwargs*)
????????????????????

post_add(*translation*)
??????????????????????????????

post_commit(*component*)
??????????????????????????????????

post_push(*component*)
??????? upstream ????????????????????

post_update(*component*, *previous_head: str*, *skip_push: bool*)
??????? upstream ??????????????????
?????

previous_head(*str*) -- ?????????? HEAD??????????????????

skip_push(*bool*) -- Whether the add-on operation should skip pushing changes upstream. Usually you can pass this to underlying methods as `commit_and_push` or `commit_pending`.

pre_commit(*translation*, *author*)
??????????????????????????????????

pre_push(*component*)
??????? upstream ????????????????????

pre_update(*component*)
??????? upstream ????????????????????

save_state()
????????????????

stay_on_create = False
Weblate ???????????

store_post_load(*translation*, *store*)
????????????????????????

It receives an instance of a file format class as a argument.

This is useful to modify file format class parameters, for example adjust how the file will be saved.

unit_pre_create(*unit*)
??????????????????????????????

???????:

```
#
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
#
# This file is part of Weblate <https://weblate.org/>
#
# This program is free software: you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation, either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
```

(?????????)

```
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <https://www.gnu.org/licenses/>.
#


from django.utils.translation import gettext_lazy as _

from weblate.addons.base import BaseAddon
from weblate.addons.events import EVENT_PRE_COMMIT


class ExampleAddon(BaseAddon):
    # Filter for compatible components, every key is
    # matched against property of component
    compat = {"file_format": {"po", "po-mono"}}
    # List of events add-on should receive
    events = (EVENT_PRE_COMMIT,)
    # Add-on unique identifier
    name = "weblate.example.example"
    # Verbose name shown in the user interface
    verbose = _("Example add-on")
    # Detailed add-on description
    description = _("This add-on does nothing it is just an example.")

    # Callback to implement custom behavior
    def pre_commit(self, translation, author):
        return
```

Weblate ⍰⍰⍰⍰⍰⍰⍰

⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰ Bootstrap⍰jQuery⍰⍰⍰⍰⍰⍰ ⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰⍰

⍰⍰⍰⍰⍰⍰

Weblate supports the latest, stable releases of all major browsers and platforms.

Alternative browsers which use the latest version of WebKit, Blink, or Gecko, whether directly or via the platform's web view API, are not explicitly supported. However, Weblate should (in most cases) display and function correctly in these browsers as well.

Older browsers might work, but some features might be limited.

⍰⍰⍰⍰⍰⍰⍰

The yarn package manager is used to update third party libraries. The configuration lives in `scripts/yarn` and there is a wrapper script `scripts/yarn-update` to upgrade the libraries, build them and copy to correct locations in `weblate/static/vendor`, where all third partly frontend code is located. The Weblate specific code should be placed directly in `weblate/static` or feature specific subdirectories (for example `weblate/static/editor`).

Adding new third-party library typically consists of:

```
# Add a yarn package
yarn --cwd scripts/yarn add PACKAGE
# Edit the script to copy package to the static folder
edit scripts/yarn-update
# Run the update script
./scripts/yarn-update
# Add files to git
git add .
```

[illegible] [illegible]

Weblate [illegible]JavaScript [illegible] CSS [illegible] [illegible] Prettier [illegible]

[illegible] ESLint [illegible] JavaScript [illegible]

[illegible]

[illegible] gettext [illegible]:

```
document.write(gettext('this is to be translated'));

var object_count = 1 // or 0, or 2, or 3, ...
s = ngettext('literal for the singular case',
        'literal for the plural case', object_count);

fmts = ngettext('There is %s object. Remaining: %s',
        'There are %s objects. Remaining: %s', 11);
s = interpolate(fmts, [11, 20]);
// s is 'There are 11 objects. Remaining: 20'
```

[illegible]:

Translation topic in the Django documentation

[illegible]

Weblate [illegible] [illegible] [illegible] Material Design Icons [illegible] Material Design Resources [illegible]

[illegible] HTML [illegible]SVG [illegible] :file:'scripts/optimize-svg' [illegible]

Weblate [illegible]

Weblate [illegible] [illegible] [illegible] GitHub [illegible]

Weblate [illegible]

Weblate [illegible] *[illegible]* [illegible]

If you are not sure about your bug report or feature request, you can try *Weblate [illegible]*.

[illegible]

In order to give the community time to respond and upgrade, you are strongly urged to report all security issues privately. HackerOne is used to handle security issues, and can be reported directly at HackerOne. Once you submit it there, community has limited but enough time to solve the incident.

Alternatively, report to security@weblate.org, which ends up on HackerOne as well.

If you don't want to use HackerOne, for whatever reason, you can send the report by e-mail to michal@cihar.com. You can choose to encrypt it using this PGP key *3CB 1DF1 EF12 CF2A C0EE 5A32 9C27 B313 42B7 511D*. You can also get the PGP key from Keybase.

[illegible]: Weblate depends on third-party components for many things. In case you find a vulnerability affecting one of those components in general, please report it directly to the respective project.

Some of these are:

Django

Django REST framework

Python Social Auth

Weblate testsuite and continuous integration

Testsuites exist for most of the current code, increase coverage by adding testcases for any new functionality, and verify that it works.

Continuous integration

Current test results can be found on GitHub Actions and coverage is reported on Codecov.

There are several jobs to verify different aspects:

Unit tests

Documentation build and external links

Migration testing from all supported releases

Code linting

Setup verification (ensures that generated dist files do not miss anything and can be tested)

The configuration for the CI is in `.github/workflows` directory. It heavily uses helper scripts stored in `ci` directory. The scripts can be also executed manually, but they require several environment variables, mostly defining Django settings file to use and database connection. The example definition of that is in `scripts/test-database`:

```
# Simple way to configure test database from environment

# Database backend to use postgresql / mysql / mariadb
export CI_DATABASE=${1:-postgresql}

# Database server configuration
export CI_DB_USER=weblate
export CI_DB_PASSWORD=weblate
export CI_DB_HOST=127.0.0.1

# Django settings module to use
export DJANGO_SETTINGS_MODULE=weblate.settings_test
```

The simple execution can look like:

```
. scripts/test-database
./ci/run-migrate
./ci/run-test
./ci/run-docs
```

Local testing

To run a testsuite locally, use:

```
DJANGO_SETTINGS_MODULE=weblate.settings_test ./manage.py test
```

???: You will need a database (PostgreSQL) server to be used for tests. By default Django creates separate database to run tests with `test_` prefix, so in case your settings is configured to use `weblate`, the tests will use `test_weblate` database. See *Weblate ??????????* for setup instructions.

The `weblate/settings_test.py` is used in CI environment as well (see *Continuous integration*) and can be tuned using environment variables:

```
# Simple way to configure test database from environment

# Database backend to use postgresql / mysql / mariadb
export CI_DATABASE=${1:-postgresql}

# Database server configuration
export CI_DB_USER=weblate
export CI_DB_PASSWORD=weblate
export CI_DB_HOST=127.0.0.1
```

(?????????)

```
# Django settings module to use
export DJANGO_SETTINGS_MODULE=weblate.settings_test
```

Prior to running tests you should collect static files as some tests rely on them being present:

```
DJANGO_SETTINGS_MODULE=weblate.settings_test ./manage.py collectstatic
```

You can also specify individual tests to run:

```
DJANGO_SETTINGS_MODULE=weblate.settings_test ./manage.py test weblate.
↪gitexport
```

□□□: The tests can also be executed inside developer docker container, see *Docker□□□□□□□□ Weblate □□□*.

□□:

See Django □□□□□□□□ for more info on running and writing tests for Django.

□□□ □□□□

Weblate □ JSON Schema □□□□□□□□ JSON □□□□□□□□□□□□□□□□□□□

Weblate □□□□□□□□□□

https://weblate.org/schemas/weblate-memory.schema.json

□	*□□*	
□□	*□□□□□□□□□*	
	□	*□□□□□□□*
	□□□□□□	
	category	*□□□□□□□□□□*
		1 = □□□□□□□2 = □□□10000000 □□ = □□□□□□□□□□20000000 □□ = □□□□□□□
		□ *□□*
		□: 1
		□□ 0
		□□□□□ 1
	origin	*□□□□□□□□□□*
		□□□□□□□□□□□□□□□□□□
		□ *□□□*
		□: test.tmx
		□□□□□□□/□□□□□□□□
		□□□□□
	source	*□□*
		□ *□□□*
		□: Hello
		minLength 1
		□□□□□
	source_language	*□□□□□*
		ISO 639-1 / ISO 639-2 / IETF BCP 47
		□ *□□□*
		□: en
		□□□□ ^[^]+$
		□□□□□
	target	*□□□□□□□□*
		□ *□□□*
		□: Ahoj
		minLength 1
		□□□□□
	target_language	*□□□□□□□*
		ISO 639-1 / ISO 639-2 / IETF BCP 47
		□ *□□□*

Table 7 – [illegible]

	[illegible]:	cs
	[illegible]	^[^]+$
	[illegible]	
[illegible]		False

[illegible]

[illegible]:

[illegible]`dump_memory`*[illegible]*`import_memory`

Weblate [illegible] [illegible]

https://weblate.org/schemas/weblate-userdata.schema.json

[illegible]	*[illegible]*		
[illegible]			
basic	*[illegible]*		
	[illegible]	*[illegible]*	
	[illegible]		
	username	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	[illegible]
		[illegible]	
	full_name	*[illegible] [illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	Weblate [illegible]
		[illegible]	
	email	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	noreply@example.com
		[illegible]	
	date_joined	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	2019-11-18T18:53:54.862Z
		[illegible]	
profile	*[illegible]*		
	[illegible]	*[illegible]*	
	[illegible]		
	language	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	cs
		[illegible]	^.*$
		[illegible]	
	suggested	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	1
		[illegible]	0
	translated	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	24
		[illegible]	0
	uploaded	*[illegible]*	
		[illegible]	*[illegible]*
		[illegible]:	1
		[illegible]	0
	hide_completed	*[illegible]*	
		[illegible]	*boolean*
		[illegible]:	False
		[illegible]	True
	secondary_in_zen	*Zen [illegible]*	
		[illegible]	*boolean*
		[illegible]:	True
		[illegible]	True
	hide_source_secondary	*[illegible]*	

Table 8 – ??????????

	?	*boolean*	
	?:	False	
	?????	True	
editor_link	*???? ???*		
	?	*???*	
	?:		
	????	^.*$	
	?????		
translate_mode	*?????? ???*		
	?	*??*	
	?:	0	
	?????	0	
zen_mode	*Zen ?????*		
	?	*??*	
	?:	0	
	?????	0	
special_chars	*????*		
	?	*???*	
	?:		
	????	^.*$	
	?????		
dashboard_view	*????????????????*		
	?	*??*	
	?:	1	
	?????	0	
dash-board_component_list	*????????????? ???*		
	?????	null	
	????	?	*null*
		?	*??*
languages	*????*		
	?	*??*	
	?????		
	??	*????*	
		?	*???*
		?:	cs
		????	^.*$
		?????	
secondary_languages	*????*		
	?	*??*	
	?????		
	??	*????*	
		?	*???*
		?:	sk
		????	^.*$
		?????	
watched	*??????????*		
	?	*??*	
	?????		
	??	*??????????*	
		?	*???*
		?:	weblate
		????	^.*$
		?????	
auditlog	*????*		
	?	*??*	
	?????		
	??	*??*	
		?	*??????*
		?????	
		address	*IP ????*
			? *???*
			?: 127.0.0.1
			???? ^.*$
			?????
		user_agent	*???? ??????*

Table 8 – [illegible]

	[illegible]	*[illegible]*
	[illegible]:	PC / Linux / Firefox 70.0
	[illegible]	^.*$
	[illegible]	
timestamp	*[illegible]*	
	[illegible]	*[illegible]*
	[illegible]:	2019-11-18T18:58:30.845Z
	[illegible]	^.*$
	[illegible]	
activity	*[illegible]*	
	[illegible]	*[illegible]*
	[illegible]:	[illegible]
	[illegible]	^.*$
	[illegible]	

[illegible]

[illegible]:

[illegible]`dumpuserdata`

Weblate [illegible]

[illegible] [illegible]

Weblate [illegible]2 [illegible]x.y[illegible]x.y.z[illegible] [illegible] [illegible] [illegible] x.y [illegible] x.0 [illegible]

[illegible]:

Weblate [illegible]

[illegible]

[illegible]GitHub [illegible]<https://github.com/WeblateOrg/weblate/milestones> [illegible]

[illegible] [illegible]

[illegible]:

1. **`./scripts/list-translated-languages`** [illegible]
2. **`./scripts/prepare-release`** [illegible]
3. [illegible] **`make -C docs update-screenshots`**[illegible]
4. Merge any possibly pending translations **`wlc push; git remote update; git merge origin/weblate`**

   [illegible]:
5. [illegible] **`./scripts/create-release --tag`** [illegible]

   [illegible]:
6. Docker [illegible]
7. GitHub [illegible]
8. Docker [illegible]
9. Helm [illegible]
10. `.github/workflows/migrations.yml` [illegible]
11. Increase version in the website download links.
12. [illegible] **`./scripts/set-version`** [illegible]

`./scripts/create-release` ??????????????????????????:

?????????????????? GnuPG

Weblate git ???????? push ??????? push?

`hub` ?????????Weblate ???????????????????

Weblate ??????? ?????? SSH ???Web ??????????????????????????

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Weblate ??????`Linux Foundation ? Core Infrastructure Initiative ??????????<https://bestpractices.coreinfrastructure.org ?????????

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Tracking dependencies for vulnerabilities

Security issues in our dependencies are monitored using Dependabot. This covers the Python and JavaScript libraries, and the latest stable release has its dependencies updated to avoid vulnerabilities.

???: There might be vulnerabilities in third-party libraries which do not affect Weblate, so those are not addressed by releasing bugfix versions of Weblate.

Docker container security

The Docker containers are regularly scanned using Anchore and Trivy security scanners.

This allows us to detect vulnerabilities early and release improvements quickly.

You can get the results of these scans at GitHub — they are stored as artifacts on our CI in the SARIF format (Static Analysis Results Interchange Format).

??:

Continuous integration

Weblate ????

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"Weblate" ??"web" ? "translate" ???????????????

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The project logos and other graphics are available in https://github.com/WeblateOrg/graphics.

???

?????????? Michal Čihař ???????????? michal@cihar.com?

???

Weblate ? Michal Čihař ????????2012 ????????????????????????

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Weblate 4.9

Released on November 10th 2021.

Provide more details for history events.

Improved rendering of history.

Improved performance of the translation pages.

Added support for restricting translation file download.

The `safe-html` can now understand Markdown when used with `md-text`.

The `max-length` tag now ignores XML markup when used with `xml-text`.

Fixed dimensions of rendered texts in *??????????*.

Lowered app store title length to 30 to assist with upcoming Google policy changes.

Added support for customising ssh invocation via *`SSH_EXTRA_ARGS`*.

Added checks for ICU MessageFormat.

Improved error condition hadling in machine translation backends.

Highlight unusual whitespace characters in the strings.

Added option to stay on translated string while editing.

Added support for customising borg invocation via *`BORG_EXTRA_ARGS`*.

Fixed generating of MO files for monolingual translations.

Added API endpoint to download all component translations in a ZIP file.

Added support for Python 3.10.

Added support for resending e-mail invitation from the management interface.

Weblate 4.8.1

Released on September 10th 2021.
Django [illegible]
Document add-on parameters in greater detail.
Fixed JavaScript error in glossary.
Add limit to number of matches in consistency check.
Improve handling of placeholders in machine translations.
Fixed creating add-ons using API.
Added *PRIVACY_URL* setting to add privacy policy link to the footer.
Hide member e-mail addresses from project admins.
Improved gettext PO merging in case of conflicts.
Improved glossary highlighting.
Improved `safe-html` flag behavior with XML checks.
Fixed commit messages for linked components.
All changes in detail.

Weblate 4.8

Released on August 21th 2021.
Added support for Apple stringsdict format.
The exact search operator is now case-sensitive with PostgreSQL.
Fixed saving glossary explanations in some cases.
Documentation improvements.
Performance improvements.
Improved squash add-on compatibility with Gerrit.
Fixed adding strings to monolingual glossary components.
Improved performance in handling variants.
Fixed squash add-on sometimes skipping parsing upstream changes.
Preserve file extension for downloads.
Added support for the Fluent format.
Added support for using tabs to indent JSON formats.
All changes in detail.

Weblate 4.7.2

Released on July 15th 2021.
Support more language aliases to be configured on a project.
Fixed search string validation in API.
Fixed Git exporter URLs after a domain change.
Fixed cleanup add-on for Windows RC files.
Fixed possible crash in XLIFF updating.
All changes in detail.

Weblate 4.7.1

Released on June 30th 2021.
Improved popup for adding terms to glossary.
Added support for LibreTranslate machine translation service.
Added rate limiting on creating new projects.
Improved performance of file updates.
All changes in detail.

Weblate 4.7

Released on June 17th 2021.
□□□□□□□□□□□□□
gettext PO □□□□□□ `object-pascal-format` □□□□□□□□□□□: *Object Pascal □□□*
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mi18n lang □□□□□ □□□□□□□□□□
SAML □□□□□□□□□□□
Fixed *Gerrit* integration to better handle corner cases.
Weblate now requires Django 3.2.
Fixed inviting users when e-mail authentication is disabled.
□□□□□□□□□□□□□
Added support for blocking users from contributing to a project.
Fixed automatic creation of glossary languages.
Extended documentation about add-ons.
Performance improvements for components with linked repositories.
Added support for free DeepL API.
The user management no longer needs Django admin interface.
□□□□□□□□□□□

Weblate 4.6.2

Released on May 8th 2021.
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RTL□□□□□□□□□□□□□□□□□□□□□
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Git □□□□□□□□□□□□□□□□□□□□
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Weblate 4.6.1

Released on May 2nd 2021.
Remove obsolete spam protection code.
[illegible]
Update list of user interface languages in Docker.
[illegible]
Pagure [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Weblate 4.6

Released on April 19th 2021.
The auto_translate management command has now a parameter for specifying translation mode.
[illegible]
[illegible]
[illegible]
Added date filtering when browsing changes.
Improved activity charts.
Sender for contact form e-mails can now be configured.
[illegible] API [illegible]
The rate limiting no longer applies to superusers.
[illegible]
[illegible]Docker [illegible]
API for creating components now automatically uses *Weblate [illegible] URL*.
Simplified state indication while listing strings.
[illegible] [illegible] Argon2 [illegible]
[illegible]
Renamed [illegible] to clarify the purpose.
XLIFF [illegible]
[illegible]
Initial support for *Scaling horizontally* the Docker deployment.
[illegible]

Weblate 4.5.3

Released on April 1st 2021.
[illegible]
[illegible]
[illegible]
Fixed possible loss of newly added strings on replace upload.

Weblate 4.5.2

Released on March 26th 2021.
□□□□□□□□□□□□□□□□□□□□
Lua □□□□□□□□□□
Ignore format strings in the *□□□□□□□□* check.
Allow uploading screenshot from a translate page.
Added forced file synchronization to the repository maintenance.
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Several performance improvements.
Weblate □□□□ □□□□□□□□□
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Weblate 4.5.1

Released on March 5th 2021.
Fixed editing of glossary flags in some corner cases.
Extend metrics usage to improve performance of several pages.
TMX □□□□□□□□□□□□□□□□□□□□
API □□□□□□□□□□□□ PO □□□□□□□□□□□□□□□
Improved alerts behavior on glossary components.
Markdown □□□□□□□□□□□□
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Improved bulk edit performance.
Fixed preserving "Needs editing" and "Approved" states for ODF files.
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Weblate 4.5

Released on February 19th 2021.
gettext PO □□□□□□ `lua-format` □□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□
Fixed multiple unnamed variables check behavior with multiple format flags.
Dropped mailing list field on the project in favor of generic instructions for translators.
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TermBase eXchange □□□□□□□□□
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Strings can now be added and removed in bilingual formats as well.
Amazon Translate □□□□□□□□□□□□□□□□□□□□□□

Java ??????? Java MessageFormat ???????????????
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Glossaries are now stored as regular components.
Dropped specific API for glossaries as component API is used now.
Added simplified interface to toggle some of the flags.
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Moved text direction toggle to get more space for the visual keyboard.
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Added check whether translation matches the glossary.
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Weblate 4.4.2

Released on January 14th 2021.
Fixed corruption of one distributed MO file.

Weblate 4.4.1

Released on January 13th 2021.
????????????????
Fixed displaying help for project settings.
????????????????
?????? PO ??????????????????????
Fixed cleanup add-on behavior with HTML, ODF, IDML and Windows RC formats.
CSV ???????????????????
Use content compression for file downloads.
Improved user experience on importing from ZIP file.
??????????????????????????
Avoid duplicate pull requests on Pagure.
????????????????????????????????
Reimplemented translation editor to use native browser textarea.
???????? ????????????????????????????????
Added API for add-ons.
????????????

Weblate 4.4

Released on December 15th 2020.
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Weblate now requires Django 3.1.
????????????????????
Fixed read-only state handling in bulk edit.
CodeMirror ????????
????????????????????????????????
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Syntax highlighting in translation editor for XML, HTML, Markdown and reStructuredText.
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Improved support for non-standard language codes.
□□□□□□□□□□□□□□□□□□□□□□□□□□□
The user is now presented with a filtered list of languages when adding a new translation.
Extended search capabilities for changes in history.
Improved billing detail pages and libre hosting workflow.
□□□□ API □□□□
□□□□ [□□□□□□] □□□□□□
Added tasks API.
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Improved display of user defined special characters.
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Improved naming of ZIP downloads.
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Weblate 4.3.2

Released on November 4th 2020.
Fixed crash on certain component filemasks.
□□□□□□□□□□□□□□□
Pagure □□□□ □□□□□□□□□□□□□□
□□□□□□□□□□□ □□□□□□□□□□
□□□□□□□□□ Markdown □□□□□□□□□□□□□□□□□□□□□□□□
Simplified setup of Git repositories with different default branch than "master".
Newly created internal repositories now use main as the default branch.
reStructuredText □□□□□□□□□□□□□□□□□□□□□□□□
Fixed CodeMirror display issues in some situations.
Renamed Template group to "Sources" to clarify its meaning.
Fixed GitLab pull requests on repositories with longer paths.
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Weblate 4.3.1

Released on October 21st 2020.
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Improve hooks compatibility with Bitbucket Server.
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Reduced memory usage.
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Weblate 4.3

Released on October 15th 2020.
Include user stats in the API.
Fixed component ordering on paginated pages.
□□□□□□□□□□□□□□□
Rewritten support for GitHub and GitLab pull requests.
□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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Fixed configuration of enforced checks.
Improve documentation about built-in backups.
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Vue I18n □□□□□□□□□□
Generic placeholders check now supports regular expressions.
□□□□□□□□□□
□□□□□□□□□□□□□□□□□□
Added support for interacting with multiple GitLab or GitHub instances.
Extended API to cover project updates, unit updates and removals and glossaries.
Unit API now properly handles plural strings.
Component creation can now handle ZIP file or document upload.
Consolidated API response status codes.
□□□□□□□□□ markdown □□□□
□□□□□□□□□□□□
Improved JSON, YAML and CSV formats compatibility.
□□□□□□□□□□□
Improved performance of file downloads.
Improved repository management view.
Automatically enable java-format for Android.
□□□□□□□□□□□□□□□□□□□□□□□
Python 3.9 □□□□
Fixed translating HTML files under certain conditions.
□□□□□□□□□□□

Weblate 4.2.2

Released on September 2nd 2020.
JSON □□□□□□□□□□□□□□□□□□
Fixed login redirect for some authentication configurations.
Fixed LDAP authentication with group sync.
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Git □□□□□□□□□□□□□□□□□□
Fixed creating local VCS components using API.

Weblate 4.2.1

Released on August 21st 2020.
Android □□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□ XLIFF □□□□□□□□□□□□□ □□□□□□□□□□□□□□□□
Allow setting up localization CDN in Docker image.

Weblate 4.2

Released on August 18th 2020.
Improved user pages and added listing of users.
Dropped support for migrating from 3.x releases, migrate through 4.1 or 4.0.
Added exports into several monolingual formats.
Improved activity charts.
Number of displayed nearby strings can be configured.
□□□
Simplified main navigation (replaced buttons with icons).
Improved language code handling in Google Translate integration.
The Git squash add-on can generate `Co-authored-by:` trailers.
Improved query search parser.
Improved user feedback from format strings checks.
Improved performance of bulk state changes.
Added compatibility redirects after project or component renaming.
Added notifications for strings approval, component locking and license change.
Added support for ModernMT.
Allow to avoid overwriting approved translations on file upload.
Dropped support for some compatibility URL redirects.
ECMAScript □□□□□□□ □□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Removed leading dot from JSON unit keys.
□□□□□□□□□□□ Celery □□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Allow to configure `Content-Security-Policy` HTTP headers.
Added support for aliasing languages at project level.
New add-on to help with HTML or JavaScript localization, see *JavaScript □□□□ CDN*.
The Weblate domain is now configured in the settings, see *`SITE_DOMAIN`*.
□□□

Weblate 4.1.1

Released on June 19th 2020.
Fixed changing autofix or add-ons configuration in Docker.
Fixed possible crash in "About" page.
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Fixed adding words to glossary.
Fixed keyboard shortcuts for machinery.
Removed debugging output causing discarding log events in some setups.
Fixed lock indication on project listing.

Fixed listing GPG keys in some setups.
Added option for which DeepL API version to use.
Added support for acting as SAML Service Provider, see *SAML ??*.

Weblate 4.1

Released on June 15th 2020.
Added support for creating new translations with included country code.
Added support for searching source strings with screenshot.
Extended info available in the stats insights.
Improved search editing on "Translate" pages.
Improve handling of concurrent repository updates.
??????????????????????????
Include changes count in credits.
Fixed UI language selection in some cases.
Allow to whitelist registration methods with registrations closed.
Improved lookup of related terms in glossary.
Improved translation memory matches.
Group same machinery results.
Add direct link to edit screenshot from translate page.
Improved removal confirmation dialog.
Include templates in ZIP download.
Add support for Markdown and notification configuration in announcements.
Extended details in check listings.
??????????????????????: *Laravel PHP ?????HTML ??????OpenDocument Format?IDML Format?Windows RC files?INI translations?Inno Setup INI ?????GWT ??????go-i18n JSON files?ARB File?*
Consistently use dismissed as state of dismissed checks.
????????????????????????
Fixed editor keyboard shortcut to dismiss checks.
Improved machine translation of strings with placeholders.
Show ghost translation for user languages to ease starting them.
Improved language code parsing.
Show translations in user language first in the list.
??????????????????????????????????
Added new quality checks: *????????*, *???????*, *????????*.
Reintroduced support for wiping translation memory.
Fixed option to ignore source checks.
Added support for configuring different branch for pushing changes.
API ??HTTP ????????????????????????
Added support for Google Translate V3 API (Advanced).
Added ability to restrict access on component level.
Added support for whitespace and other special chars in translation flags, see *??????????????*.
????????????????????????????
API now supports filtering of changes.
Added support for sharing glossaries between projects.

Weblate 4.0.4

Released on May 7th 2020.
Fixed testsuite execution on some Python 3.8 environments.
Typo fixes in the documentation.
Fixed creating components using API in some cases.
Fixed JavaScript errors breaking mobile navigation.
Fixed crash on displaying some checks.
Fixed screenshots listing.
Fixed monthly digest notifications.
Fixed intermediate translation behavior with units non existing in translation.

Weblate 4.0.3

Released on May 2nd 2020.
Fixed possible crash in reports.
User mentions in comments are now case insensitive.
Fixed PostgreSQL migration for non superusers.
Fixed changing the repository URL while creating component.
Fixed crash when upstream repository is gone.

Weblate 4.0.2

Released on April 27th 2020.
Improved performance of translation stats.
Improved performance of changing labels.
Improved bulk edit performance.
Improved translation memory performance.
Fixed possible crash on component deletion.
□□□□□□□□□□□□□□□□□□□□□□□□
Improved warning about too long celery queue.
Fixed possible false positives in the consistency check.
Fixed deadlock when changing linked component repository.
Included edit distance in changes listing and CSV and reports.
Avoid false positives of punctuation spacing check for Canadian French.
Fixed XLIFF export with placeholders.
Fixed false positive with zero width check.
Improved reporting of configuration errors.
Fixed bilingual source upload.
Automatically detect supported languages for DeepL machine translation.
Fixed progress bar display in some corner cases.
Fixed some checks triggering on non translated strings.

Weblate 4.0.1

Released on April 16th 2020.
Fixed package installation from PyPI.

Weblate 4.0

Released on April 16th 2020.
Weblate now requires Python 3.6 or newer.
Added management overview of component alerts.
Added component alert for broken repository browser URLs.
Improved sign in and registration pages.
Project access control and workflow configuration integrated to project settings.
Added check and highlighter for i18next interpolation and nesting.
Added check and highlighter for percent placeholders.
□□□□□□□□□□□□□□□□□□□
Record source string changes in history.
Upgraded Microsoft Translator to version 3 API.
Reimplemented translation memory backend.
Added support for several `is:` lookups in □□.
Allow to make □□□□□□□ avoid internal blacklist.
Improved comments extraction from monolingual po files.
Renamed whiteboard messages to announcements.
Fixed occasional problems with registration mails.
Improved LINGUAS update add-on to handle more syntax variants.
Fixed editing monolingual XLIFF source file.
Added support for exact matching in □□.
□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ API□
Add support for source upload on bilingual translations.
Added support for intermediate language from developers.
Added support for source strings review.
Extended download options for platform wide translation memory.

Weblate 3.x series

Weblate 3.11.3

Released on March 11th 2020.
Fixed searching for fields with certain priority.
Fixed predefined query for recently added strings.
Fixed searching returning duplicate matches.
Gmail □□□□□□□□□□□□
Fixed reverting changes from the history.
Added links to events in digest notifications.
Fixed email for account removal confirmation.
Added support for Slack authentication in Docker container.
Avoid sending notifications for not subscribed languages.
Include Celery queues in performance overview.

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□□□□□□□□□□□□□□□□□□□□□□□
Raised bleach dependency to address CVE-2020-6802.
Fixed listing project level changes in history.
Fixed stats invalidation in some corner cases.
Fixed searching for certain string states.
Improved format string checks behavior on missing percent.
Fixed authentication using some third party providers.

Weblate 3.11.2

Released on February 22nd 2020.
□□□□□□□□□□
Fixed some strings wrongly reported as having no words.

Weblate 3.11.1

Released on February 20th 2020.
Documented Celery setup changes.
Improved filename validation on component creation.
Fixed minimal versions of some dependencies.
Fixed adding groups with certain Django versions.
Fixed manual pushing to upstream repository.
Improved glossary matching.

Weblate 3.11

Released on February 17th 2020.
Allow using VCS push URL during component creation via API.
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Fixed links in notifications e-mails.
Improved look of plaintext e-mails.
Display ignored checks and allow to make them active again.
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□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Recommend upgrade to new Weblate versions in the system checks.
Provide more detailed analysis for duplicate language alert.
Include more detailed license info on the project pages.
Automatically unshallow local copies if needed.
Fixed download of strings needing action.
New alert to warn about using the same filemask twice.
Improve XML placeables extraction.
The `SINGLE_PROJECT` can now enforce redirection to chosen project.
Added option to resolve comments.
Added bulk editing of flags.
Added support for labels.
□□□□□□□□□□□□□
Added option for *□□□□□*.

Increased default validity of confirmation links.
Improved Matomo integration.
Fixed ????? to correctly handle source string change.
Extended automatic updates configuration by `AUTO_UPDATE`.
LINGUAS ???????Weblate ????????????????

Weblate 3.10.3

Released on January 18th 2020.
Support for translate-toolkit 2.5.0.

Weblate 3.10.2

Released on January 18th 2020.
Add lock indication to projects.
Fixed CSS bug causing flickering in some web browsers.
????????????????????????
Improved repository matching for GitHub and Bitbucket hooks.
Fixed data migration on some Python 2.7 installations.
Allow configuration of Git shallow cloning.
Improved background notification processing.
Fixed broken form submission when navigating back in web browser.
New add-on to configure YAML formatting.
Fixed same plurals check to not fire on single plural form languages.
Fixed regex search on some fields.

Weblate 3.10.1

Released on January 9th 2020.
Extended API with translation creation.
Fixed several corner cases in data migrations.
Compatibility with Django 3.0.
???? ????????????????
Added support for customizable security.txt.
Improved breadcrumbs in changelog.
Improved translations listing on dashboard.
Improved HTTP responses for webhooks.
Added support for GitLab merge requests in Docker container.

Weblate 3.10

Released on December 20th 2019.
Improved application user interface.
Added doublespace check.
Fixed creating new languages.
Avoid sending auditlog notifications to deleted e-mails.
Added support for read-only strings.
Added support for Markdown in comments.
Allow placing translation instruction text in project info.

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Improved support for Mercurial.
Improved Git repository fetching performance.
Add search lookup for age of string.
□□□□□□□□□□□□□□□□□
Show context for nearby strings.
Added support for notifications on repository operations.
Improved translation listings.
Extended search capabilities.
Added support for automatic translation strings marked for editing.
Avoid sending duplicate notifications for linked component alerts.
Improve default merge request message.
Better indicate string state in Zen mode.
Added support for more languages in Yandex Translate.
Improved look of notification e-mails.
Provide choice for translation license.

Weblate 3.9.1

Released on October 28th 2019.
Remove some unneeded files from backups.
Fixed potential crash in reports.
Fixed cross database migration failure.
Added support for force pushing Git repositories.
Reduced risk of registration token invalidation.
□□□□□□□□□□□□□□□□□□□□
Added search based on priority.
Fixed possible crash on adding strings to JSON file.
Safe HTML check and fixup now honor source string markup.
Avoid sending notifications to invited and deleted users.
Fix SSL connection to redis in Celery in Docker container.

Weblate 3.9

Released on October 15th 2019.
Include Weblate metadata in downloaded files.
Improved UI for failing checks.
Indicate missing strings in format checks.
Separate check for French punctuation spacing.
Add support for fixing some of quality checks errors.
Add separate permission to create new projects.
Extend stats for char counts.
Improve support for Java style language codes.
Added new generic check for placeholders.
Added support for WebExtension JSON placeholders.
Added support for flat XML format.
Extended API with project, component and translation removal and creation.
Added support for Gitea and Gitee webhooks.

Added new custom regex based check.
Allow to configure contributing to shared translation memory.
Added ZIP download for more translation files.
Make XLIFF standard compliant parsing of maxwidth and font.
Added new check and fixer for safe HTML markup for translating web applications.
Add component alert on unsupported configuration.
□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Extend automatic translation to add suggestions.
Display add-on parameters on overview.
Sentry is now supported through modern Sentry SDK instead of Raven.
Changed example settings to be better fit for production environment.
Added automated backups using BorgBackup.
Split cleanup add-on for RESX to avoid unwanted file updates.
Added advanced search capabilities.
Allow users to download their own reports.
Added localization guide to help configuring components.
Added support for GitLab merge requests.
Improved display of repository status.
Perform automated translation in the background.

Weblate 3.8

Released on August 15th 2019.
Added support for simplified creating of similar components.
Added support for parsing translation flags from the XML based file formats.
Log exceptions into Celery log.
□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Improved look of notification e-mails.
Fixed password reset behavior.
Improved performance on most of translation pages.
Fixed listing of languages not known to Weblate.
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Add support for replacing file content with uploaded.
Add support for translating non VCS based content.
Added OpenGraph widget image to use on social networks.
Added support for animated screenshots.
Improved handling of monolingual XLIFF files.
Avoid sending multiple notifications for single event.
Add support for filtering changes.
Extended predefined periods for reporting.
Added webhook support for Azure Repos.
New opt-in notifications on pending suggestions or untranslated strings.
Add one click unsubscribe link to notification e-mails.
Fixed false positives with Has been translated check.
New management interface for admins.
String priority can now be specified using flags.
Added language management views.

Add checks for Qt library and Ruby format strings.
Added configuration to better fit single project installations.
Notify about new string on source string change on monolingual translations.
Added separate view for translation memory with search capability.

Weblate 3.7.1

Released on June 28th 2019.
Documentation updates.
Fixed some requirements constraints.
Updated language database.
Localization updates.
Various user interface tweaks.
Improved handling of unsupported but discovered translation files.
More verbosely report missing file format requirements.

Weblate 3.7

Released on June 21st 2019.
Added separate Celery queue for notifications.
Use consistent look with application for API browsing.
Include approved stats in the reports.
Report progress when updating translation component.
Allow to abort running background component update.
Extend template language for filename manipulations.
Use templates for editor link and repository browser URL.
Indicate max length and current characters count when editing translation.
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Refreshed landing page for new contributors.
msgmerge □□□□□□□□□□□□
Delay opening SMTP connection when sending notifications.
Improved error logging.
Allow custom location in MO generating add-on.
Added add-ons to cleanup old suggestions or comments.
Added option to enable horizontal mode in the Zen editor.
Improved import performance with many linked components.
Fixed examples installation in some cases.
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Added new horizontal stats widget.
Improved format strings check on plurals.
Added font management tool.
□□□□□□□□□□□□□□□□□□□□□
Added support for subtitle formats.
Include overall completion stats for languages.
Added reporting at project and global scope.
Improved user interface when showing translation status.
New Weblate logo and color scheme.
New look of bitmap badges.

Weblate 3.6.1

Released on April 26th 2019.
Improved handling of monolingual XLIFF files.
Fixed digest notifications in some corner cases.
Fixed add-on script error alert.
Fixed generating MO file for monolingual PO files.
Fixed display of uninstalled checks.
Indicate administered projects on project listing.
Allow update to recover from missing VCS repository.

Weblate 3.6

Released on April 20th 2019.
Add support for downloading user data.
□□□□□□□□□□□□□□□□□□□□□□□
Improved instructions for resolving merge conflicts.
Cleanup add-on is now compatible with app store metadata translations.
Configurable language code syntax when adding new translations.
Warn about using Python 2 with planned termination of support in April 2020.
Extract special characters from the source string for visual keyboard.
Extended contributor stats to reflect both source and target counts.
Admins and consistency add-ons can now add translations even if disabled for users.
Fixed description of toggle disabling `Language-Team` header manipulation.
Notify users mentioned in comments.
Removed file format autodetection from component setup.
Fixed generating MO file for monolingual PO files.
Added digest notifications.
Added support for muting component notifications.
Added notifications for new alerts, whiteboard messages or components.
Notifications for administered projects can now be configured.
Improved handling of three letter language codes.

Weblate 3.5.1

Released on March 10th 2019.
Fixed Celery systemd unit example.
Fixed notifications from HTTP repositories with login.
Fixed race condition in editing source string for monolingual translations.
Include output of failed add-on execution in the logs.
Improved validation of choices for adding new language.
Allow to edit file format in component settings.
Update installation instructions to prefer Python 3.
Performance and consistency improvements for loading translations.
Microsoft Terminology service □ Zeep □□□□□□□□□□□□□□□□
Localization updates.

Weblate 3.5

Released on March 3rd 2019.
Improved performance of built-in translation memory.
Added interface to manage global translation memory.
Improved alerting on bad component state.
Added user interface to manage whiteboard messages.
Add-on commit message now can be configured.
Reduce number of commits when updating upstream repository.
Fixed possible metadata loss when moving component between projects.
Improved navigation in the Zen mode.
Added several new quality checks (Markdown related and URL).
Added support for app store metadata files.
Added support for toggling GitHub or Gerrit integration.
Kashida ??????????
Added option to squash commits based on authors.
Improved support for XLSX file format.
Compatibility with Tesseract 4.0.
Billing add-on now removes projects for unpaid billings after 45 days.

Weblate 3.4

Released on January 22nd 2019.
Added support for XLIFF placeholders.
Celery can now utilize multiple task queues.
Added support for renaming and moving projects and components.
Include characters counts in reports.
Added guided adding of translation components with automatic detection of translation files.
Customizable merge commit messages for Git.
Added visual indication of component alerts in navigation.
Improved performance of loading translation files.
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Changed default merge style to rebase and made that configurable.
Better handle private use subtags in language code.
Improved performance of fulltext index updates.
Extended file upload API to support more parameters.

Weblate 3.3

Released on November 30th 2018.
Added support for component and project removal.
Improved performance for some monolingual translations.
Added translation component alerts to highlight problems with a translation.
Expose XLIFF string resname as context when available.
Added support for XLIFF states.
Added check for non writable files in DATA_DIR.
Improved CSV export for changes.

Weblate 3.2.2

Released on October 20th 2018.
Remove no longer needed Babel dependency.
Updated language definitions.
Improve documentation for add-ons, LDAP and Celery.
Fixed enabling new dos-eol and auto-java-messageformat flags.
Fixed running setup.py test from PyPI package.
Improved plurals handling.
Fixed translation upload API failure in some corner cases.
Fixed updating Git configuration in case it was changed manually.

Weblate 3.2.1

Released on October 10th 2018.
Document dependency on backports.csv on Python 2.7.
Fix running tests under root.
Improved error handling in gitexport module.
Fixed progress reporting for newly added languages.
Correctly report Celery worker errors to Sentry.
Fixed creating new translations with Qt Linguist.
Fixed occasional fulltext index update failures.
Improved validation when creating new components.
Added support for cleanup of old suggestions.

Weblate 3.2

Released on October 6th 2018.
Add install_addon management command for automated add-on installation.
□□□□□□□□□□□□
Added support for export and import of Excel files.
Improve component cleanup in case of multiple component discovery add-ons.
Microsoft Terminology □□□□□□□□□□□□□□□□□□
Weblate now uses Celery to offload some processing.
Improved search capabilities and added regular expression search.
Added support for Youdao Zhiyun API machine translation.
Added support for Baidu API machine translation.
Integrated maintenance and cleanup tasks using Celery.
Improved performance of loading translations by almost 25%.
Removed support for merging headers on upload.
Removed support for custom commit messages.
Configurable editing mode (zen/full).
Added support for error reporting to Sentry.
Added support for automated daily update of repositories.
Added support for creating projects and components by users.
□□□□□□□□□□□□□□□□□□□□□□□□□
Users and projects can import their existing translation memories.
Better management of related strings for screenshots.

Added support for checking Java MessageFormat.
See 3.2 milestone on GitHub for detailed list of addressed issues.

Weblate 3.1.1

Released on July 27th 2018.
Fix testsuite failure on some setups.

Weblate 3.1

Released on July 27th 2018.
Upgrades from older version than 3.0.1 are not supported.
Allow to override default commit messages from settings.
Improve webhooks compatibility with self hosted environments.
Added support for Amazon Translate.
Compatibility with Django 2.1.
Django system checks are now used to diagnose problems with installation.
Removed support for soon shutdown libravatar service.
□□
Add support for jumping to specific location while translating.
Downloaded translations can now be customized.
Improved calculation of string similarity in translation memory matches.
Added support by signing Git commits by GnuPG.

Weblate 3.0.1

Released on June 10th 2018.
Fixed possible migration issue from 2.20.
Localization updates.
Removed obsolete hook examples.
Improved caching documentation.
Fixed displaying of admin documentation.
Improved handling of long language names.

Weblate 3.0

Released on June 1st 2018.
Rewritten access control.
Several code cleanups that lead to moved and renamed modules.
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The import_project management command has now slightly different parameters.
Added basic support for Windows RC files.
New add-on to store contributor names in PO file headers.
The per component hook scripts are removed, use add-ons instead.
Add support for collecting contributor agreements.
Access control changes are now tracked in history.
□□□
Support for more variables in commit message templates.
Add support for providing additional textual context.

Weblate 2.x series

Weblate 2.20

Released on April 4th 2018.
Improved speed of cloning subversion repositories.
Changed repository locking to use third party library.
Added support for downloading only strings needing action.
Added support for searching in several languages at once.
New add-on to configure gettext output wrapping.
New add-on to configure JSON formatting.
Added support for authentication in API using RFC 6750 compatible Bearer authentication.
Added support for automatic translation using machine translation services.
Added support for HTML markup in whiteboard messages.
Added support for mass changing state of strings.
Translate-toolkit at least 2.3.0 is now required, older versions are no longer supported.
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Added support for DeepL machine translation service.
Machine translation results are now cached inside Weblate.
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Weblate 2.19.1

Released on February 20th 2018.
Fixed migration issue on upgrade from 2.18.
Improved file upload API validation.

Weblate 2.19

Released on February 15th 2018.
Fixed imports across some file formats.
Display human friendly browser information in audit log.
Added TMX exporter for files.
Various performance improvements for loading translation files.
Added option to disable access management in Weblate in favor of Django one.
Improved glossary lookup speed for large strings.
Compatibility with django_auth_ldap 1.3.0.
Configuration errors are now stored and reported persistently.
Honor ignore flags in whitespace autofixer.
Improved compatibility with some Subversion setups.
□□□□□□□□□□□□□□□□□□□□
Added support for SAP Translation Hub service.
Microsoft Terminology service □□□□□□□□□□□□
Removed support for advertisement in notification e-mails.
Improved translation progress reporting at language level.
Improved support for different plural formulas.
Added support for Subversion repositories not using stdlayout.

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Weblate 2.18

Released on December 15th 2017.
Extended contributor stats.
Improved configuration of special characters virtual keyboard.
Added support for DTD file format.
Changed keyboard shortcuts to less likely collide with browser/system ones.
Improved support for approved flag in XLIFF files.
Added support for not wrapping long strings in gettext PO files.
Added button to copy permalink for current translation.
Dropped support for Django 1.10 and added support for Django 2.0.
Removed locking of translations while translating.
Added support for adding new strings to monolingual translations.
Added support for translation workflows with dedicated reviewers.

Weblate 2.17.1

Released on October 13th 2017.
Fixed running testsuite in some specific situations.
□□□□□□□

Weblate 2.17

Released on October 13th 2017.
Weblate by default does shallow Git clones now.
Improved performance when updating large translation files.
Added support for blocking certain e-mails from registration.
Users can now delete their own comments.
Added preview step to search and replace feature.
Client side persistence of settings in search and upload forms.
Extended search capabilities.
More fine grained per project ACL configuration.
Default value of BASE_DIR has been changed.
Added two step account removal to prevent accidental removal.
Project access control settings is now editable.
Added optional spam protection for suggestions using Akismet.

Weblate 2.16

Released on August 11th 2017.
Various performance improvements.
Added support for nested JSON format.
Added support for WebExtension JSON format.
Fixed git exporter authentication.
Improved CSV import in certain situations.
Improved look of Other translations widget.
The max-length checks is now enforcing length of text in form.

Make the commit_pending age configurable per component.
Various user interface cleanups.
Fixed component/project/site wide search for translations.

Weblate 2.15

Released on June 30th 2017.
Show more related translations in other translations.
Add option to see translations of current string to other languages.
Use 4 plural forms for Lithuanian by default.
Fixed upload for monolingual files of different format.
Improved error messages on failed authentication.
Keep page state when removing word from glossary.
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Added Perl format quality check.
Added support for rejecting reused passwords.
Extended toolbar for editing RTL languages.

Weblate 2.14.1

Released on May 24th 2017.
Fixed possible error when paginating search results.
Fixed migrations from older versions in some corner cases.
Fixed possible CSRF on project watch and unwatch.
The password reset no longer authenticates user.
Fixed possible CAPTCHA bypass on forgotten password.

Weblate 2.14

Released on May 17th 2017.
Add glossary entries using AJAX.
The logout now uses POST to avoid CSRF.
The API key token reset now uses POST to avoid CSRF.
Weblate sets Content-Security-Policy by default.
The local editor URL is validated to avoid self-XSS.
The password is now validated against common flaws by default.
Notify users about important activity with their account such as password change.
The CSV exports now escape potential formulas.
Various minor improvements in security.
□□□□□□□□□□□□□□□□□□
Suggestion content is stored in the history.
Store important account activity in audit log.
Ask for password confirmation when removing account or adding new associations.
Show time when suggestion has been made.
There is new quality check for trailing semicolon.
Ensure that search links can be shared.
Included source string information and screenshots in the API.
Allow to overwrite translations through API upload.

Weblate 2.13.1

Released on Apr 12th 2017.
Fixed listing of managed projects in profile.
Fixed migration issue where some permissions were missing.
Fixed listing of current file format in translation download.
Return HTTP 404 when trying to access project where user lacks privileges.

Weblate 2.13

Released on Apr 12th 2017.
Fixed quality checks on translation templates.
Added quality check to trigger on losing translation.
Add option to view pending suggestions from user.
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Default dashboard for unauthenticated users can be configured.
Add option to browse 25 random strings for review.
History now indicates string change.
Better error reporting when adding new translation.
Added per language search within project.
Group ACLs can now be limited to certain permissions.
The per project ALCs are now implemented using Group ACL.
Added more fine grained privileges control.
Various minor UI improvements.

Weblate 2.12

Released on Mar 3rd 2017.
Improved admin interface for groups.
Added support for Yandex Translate API.
Improved speed of site wide search.
Added project and component wide search.
Added project and component wide search and replace.
□□□□□□□□□□□□□□
Added support for opening source files in local editor.
Added support for configuring visual keyboard with special characters.
Improved screenshot management with OCR support for matching source strings.
Default commit message now includes translation information and URL.
Added support for Joomla translation format.
Improved reliability of import across file formats.

Weblate 2.11

Released on Jan 31st 2017.
Include language detailed information on language page.
Mercurial backend improvements.
Added option to specify translation component priority.
More consistent usage of Group ACL even with less used permissions.
Added WL_BRANCH variable to hook scripts.
Improved developer documentation.
Better compatibility with various Git versions in Git exporter add-on.
Included per project and component stats.
Added language code mapping for better support of Microsoft Translate API.
Moved fulltext cleanup to background job to make translation removal faster.
Fixed displaying of plural source for languages with single plural form.
Improved error handling in import_project.
Various performance improvements.

Weblate 2.10.1

Released on Jan 20th 2017.
Do not leak account existence on password reset form (CVE-2017-5537).

Weblate 2.10

Released on Dec 15th 2016.
Added quality check to check whether plurals are translated differently.
Fixed GitHub hooks for repositories with authentication.
Added optional Git exporter module.
Support for Microsoft Cognitive Services Translator API.
Simplified project and component user interface.
Added automatic fix to remove control characters.
Added per language overview to project.
Added support for CSV export.
Added CSV download for stats.
Added matrix view for quick overview of all translations.
Added basic API for changes and strings.
Added support for Apertium APy server for machine translations.

Weblate 2.9

Released on Nov 4th 2016.
Extended parameters for createadmin management command.
Extended import_json to be able to handle with existing components.
Added support for YAML files.
Project owners can now configure translation component and project details.
Use "Watched" instead of "Subscribed" projects.
Projects can be watched directly from project page.
Added multi language status widget.

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Record suggestion deletion in history.
Improved UX of languages selection in profile.
Fixed showing whiteboard messages for component.
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Show source string comment more prominently.
Automatically install Gettext PO merge driver for Git repositories.
Added search and replace feature.
Added support for uploading visual context (screenshots) for translations.

Weblate 2.8

Released on Aug 31st 2016.
Documentation improvements.
Translations.
Updated bundled JavaScript libraries.
Added list_translators management command.
Django 1.8 is no longer supported.
Fixed compatibility with Django 1.10.
Added Subversion support.
Separated XML validity check from XML mismatched tags.
Fixed API to honor HIDE_REPO_CREDENTIALS settings.
Show source change in Zen mode.
Alt+PageUp/PageDown/Home/End now works in Zen mode as well.
Add tooltip showing exact time of changes.
Add option to select filters and search from translation page.
Added UI for translation removal.
Improved behavior when inserting placeables.
Fixed auto locking issues in Zen mode.

Weblate 2.7

Released on Jul 10th 2016.
Removed Google web translate machine translation.
Improved commit message when adding translation.
Fixed Google Translate API for Hebrew language.
Compatibility with Mercurial 3.8.
Added import_json management command.
Correct ordering of listed translations.
Show full suggestion text, not only a diff.
Extend API (detailed repository status, statistics, …).
Testsuite no longer requires network access to test repositories.

Weblate 2.6

Released on Apr 28th 2016.
Fixed validation of components with language filter.
Improved support for XLIFF files.
Fixed machine translation for non English sources.
Added REST API.
Django 1.10 compatibility.
Added categories to whiteboard messages.

Weblate 2.5

Released on Mar 10th 2016.
Fixed automatic translation for project owners.
Improved performance of commit and push operations.
New management command to add suggestions from command line.
Added support for merging comments on file upload.
Added support for some GNU extensions to C printf format.
Documentation improvements.
Added support for generating translator credits.
Added support for generating contributor stats.
Site wide search can search only in one language.
Improve quality checks for Armenian.
Support for starting translation components without existing translations.
Support for adding new translations in Qt TS.
Improved support for translating PHP files.
Performance improvements for quality checks.
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Improved support for XLIFF files.
Extended list of options for import_project.
Improved targeting for whiteboard messages.
Support for automatic translation across projects.
Optimized fulltext search index.
Added management command for auto translation.
Added placeables highlighting.
Added keyboard shortcuts for placeables, checks and machine translations.
Improved translation locking.
Added quality check for AngularJS interpolation.
Added extensive group based ACLs.
□□□□□□□□□□□□□□□□□□□□□□□□□□ "fuzzy”□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Support for Python 3.
Dropped support for Django 1.7.
Dropped dependency on msginit for creating new gettext PO files.
Added configurable dashboard views.
Improved notifications on parse errors.

Added option to import components with duplicate name to import_project.
Improved support for translating PHP files.
Added XLIFF export for dictionary.
Added XLIFF and gettext PO export for all translations.
Documentation improvements.
Added support for configurable automatic group assignments.
Improved adding of new translations.

Weblate 2.4

Released on Sep 20th 2015.
Improved support for PHP files.
Ability to add ACL to anonymous user.
Improved configurability of import_project command.
Added CSV dump of history.
Avoid copy/paste errors with whitespace characters.
Added support for Bitbucket webhooks.
Tighter control on fuzzy strings on translation upload.
Several URLs have changed, you might have to update your bookmarks.
Hook scripts are executed with VCS root as current directory.
Hook scripts are executed with environment variables describing current component.
Add management command to optimize fulltext index.
Added support for error reporting to Rollbar.
Projects now can have multiple owners.
Project owners can manage themselves.
Added support for `javascript-format` used in gettext PO.
Support for adding new translations in XLIFF.
Improved file format autodetection.
Extended keyboard shortcuts.
Improved dictionary matching for several languages.
Improved layout of most of pages.
Support for adding words to dictionary while translating.
Added support for filtering languages to be managed by Weblate.
Added support for translating and importing CSV files.
Rewritten handling of static files.
Direct login/registration links to third-party service if that's the only one.
Commit pending changes on account removal.
Add management command to change site name.
Add option to configure default committer.
Add hook after adding new translation.
Add option to specify multiple files to add to commit.

Weblate 2.3

Released on May 22nd 2015.
Dropped support for Django 1.6 and South migrations.
Support for adding new translations when using Java Property files.
Allow to accept suggestion without editing.
Improved support for Google OAuth 2.0.
Added support for Microsoft .resx files.
Tuned default robots.txt to disallow big crawling of translations.
Simplified workflow for accepting suggestions.
Added project owners who always receive important notifications.
Allow to disable editing of monolingual template.
More detailed repository status view.
Direct link for editing template when changing translation.
Allow to add more permissions to project owners.
Zen □□□□□□□□□□□□□
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Weblate 2.2

Released on Feb 19th 2015.
Performance improvements.
Fulltext search on location and comments fields.
New SVG/JavaScript-based activity charts.
Support for Django 1.8.
Support for deleting comments.
Added own SVG badge.
Added support for Google Analytics.
Improved handling of translation filenames.
Added support for monolingual JSON translations.
Record component locking in a history.
Support for editing source (template) language for monolingual translations.
Added basic support for Gerrit.

Weblate 2.1

Released on Dec 5th 2014.
Added support for Mercurial repositories.
Replaced Glyphicon font by Awesome.
Added icons for social authentication services.
Better consistency of button colors and icons.
Documentation improvements.
Various bugfixes.
Automatic hiding of columns in translation listing for small screens.
Changed configuration of filesystem paths.
Improved SSH keys handling and storage.
Improved repository locking.
Customizable quality checks per source string.

Allow to hide completed translations from dashboard.

Weblate 2.0

Released on Nov 6th 2014.
New responsive UI using Bootstrap.
Rewritten VCS backend.
Documentation improvements.
Added whiteboard for site wide messages.
Configurable strings priority.
Added support for JSON file format.
Fixed generating mo files in certain cases.
Added support for GitLab notifications.
Added support for disabling translation suggestions.
Django 1.7 support.
ACL projects now have user management.
Extended search possibilities.
Give more hints to translators about plurals.
Fixed Git repository locking.
Compatibility with older Git versions.
Improved ACL support.
Added buttons for per language quotes and other special characters.
Support for exporting stats as JSONP.

Weblate 1.x series

Weblate 1.9

Released on May 6th 2014.
Django 1.6 compatibility.
No longer maintained compatibility with Django 1.4.
Management commands for locking/unlocking translations.
Improved support for Qt TS files.
Users can now delete their account.
Avatars can be disabled.
Merged first and last name attributes.
Avatars are now fetched and cached server side.
Added support for shields.io badge.

Weblate 1.8

Released on November 7th 2013.
Please check manual for upgrade instructions.
Nicer listing of project summary.
Better visible options for sharing.
More control over anonymous users privileges.
Supports login using third party services, check manual for more details.
Users can login by e-mail instead of username.

Documentation improvements.
Improved source strings review.
Searching across all strings.
Better tracking of source strings.
Captcha protection for registration.

Weblate 1.7

Released on October 7th 2013.
Please check manual for upgrade instructions.
Support for checking Python brace format string.
Per component customization of quality checks.
Detailed per translation stats.
Changed way of linking suggestions, checks and comments to strings.
Users can now add text to commit message.
Support for subscribing on new language requests.
Support for adding new translations.
□□□□□□□□□□□□□ Pango + Cairo □□□□□ Pillow □□□□□□□□□□□□□□□
Add status badge widget.
□□□□□□□□□□□□□□□□□□□□
Changes in dictionary are now logged in history.
Performance improvements for translating view.

Weblate 1.6

Released on July 25th 2013.
Nicer error handling on registration.
Browsing of changes.
Fixed sorting of machine translation suggestions.
Improved support for MyMemory machine translation.
Added support for Amagama machine translation.
Various optimizations on frequently used pages.
Highlights searched phrase in search results.
Support for automatic fixups while saving the message.
Tracking of translation history and option to revert it.
Added support for Google Translate API.
Added support for managing SSH host keys.
Various form validation improvements.
Various quality checks improvements.
Performance improvements for import.
Added support for voting on suggestions.
Cleanup of admin interface.

Weblate 1.5

Released on April 16th 2013.
Please check manual for upgrade instructions.
Added public user pages.
Better naming of plural forms.
Added support for TBX export of glossary.
Added support for Bitbucket notifications.
Activity charts are now available for each translation, language or user.
Extended options of import_project admin command.
Compatible with Django 1.5.
Avatars are now shown using libravatar.
Added possibility to pretty print JSON export.
Various performance improvements.
Indicate failing checks or fuzzy strings in progress bars for projects or languages as well.
Added support for custom pre-commit hooks and committing additional files.
Rewritten search for better performance and user experience.
New interface for machine translations.
Added support for monolingual po files.
Extend amount of cached metadata to improve speed of various searches.
Now shows word counts as well.

Weblate 1.4

Released on January 23rd 2013.
Fixed deleting of checks/comments on string deletion.
Added option to disable automatic propagation of translations.
Added option to subscribe for merge failures.
Correctly import on projects which needs custom ttkit loader.
Added sitemaps to allow easier access by crawlers.
Provide direct links to string in notification e-mails or feeds.
Various improvements to admin interface.
Provide hints for production setup in admin interface.
Added per language widgets and engage page.
Improved translation locking handling.
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Indicate failing checks or fuzzy strings in progress bars.
More options for formatting commit message.
Fixed error handling with machine translation services.
Improved automatic translation locking behaviour.
Support for showing changes from previous source string.
Added support for substring search.
Various quality checks improvements.
Support for per project ACL.
Basic code coverage by unit tests.

Weblate 1.3

Released on November 16th 2012.
Compatibility with PostgreSQL database backend.
Removes languages removed in upstream git repository.
Improved quality checks processing.
Added new checks (BB code, XML markup and newlines).
Support for optional rebasing instead of merge.
Possibility to relocate Weblate (for example to run it under /weblate path).
Support for manually choosing file type in case autodetection fails.
Better support for Android resources.
Support for generating SSH key from web interface.
More visible data exports.
New buttons to enter some special characters.
Support for exporting dictionary.
Support for locking down whole Weblate installation.
Checks for source strings and support for source strings review.
Support for user comments for both translations and source strings.
Better changes log tracking.
Changes can now be monitored using RSS.
Improved support for RTL languages.

Weblate 1.2

Released on August 14th 2012.
Weblate now uses South for database migration, please check upgrade instructions if you are upgrading.
Fixed minor issues with linked git repos.
New introduction page for engaging people with translating using Weblate.
Added widgets which can be used for promoting translation projects.
Added option to reset repository to origin (for privileged users).
Project or component can now be locked for translations.
Possibility to disable some translations.
Configurable options for adding new translations.
Configuration of git commits per project.
Simple antispam protection.
Better layout of main page.
Support for automatically pushing changes on every commit.
Support for e-mail notifications of translators.
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Improved handling of not known languages when importing project.
Support for locking translation by translator.
Optionally maintain `Language-Team` header in po file.
Include some statistics in about page.
Supports (and requires) django-registration 0.8.
□□□□□□□□□□□□□□□□□□□□□
Checking of requirements during setup.
Documentation improvements.

Weblate 1.1

Released on July 4th 2012.
Improved several translations.
Better validation while creating component.
Added support for shared git repositories across components.
Do not necessary commit on every attempt to pull remote repo.
Added support for offloading indexing.

Weblate 1.0

Released on May 10th 2012.
Improved validation while adding/saving component.
Experimental support for Android component files (needs patched ttkit).
Updates from hooks are run in background.
Improved installation instructions.
Improved navigation in dictionary.

Weblate 0.x series

Weblate 0.9

Released on April 18th 2012.
Fixed import of unknown languages.
Improved listing of nearby messages.
Improved several checks.
Documentation updates.
Added definition for several more languages.
Various code cleanups.
Documentation improvements.
Changed file layout.
Update helper scripts to Django 1.4.
Improved navigation while translating.
Better handling of po file renames.
Better validation while creating component.
Integrated full setup into syncdb.
Added list of recent changes to all translation pages.
Check for not translated strings ignores format string only messages.

Weblate 0.8

Released on April 3rd 2012.
Replaced own full text search with Whoosh.
Various fixes and improvements to checks.
New command updatechecks.
Lot of translation updates.
Added dictionary for storing most frequently used terms.
Added /admin/report/ for overview of repositories status.
Machine translation services no longer block page loading.

Management interface now contains also useful actions to update data.
Records log of changes made by users.
Ability to postpone commit to Git to generate less commits from single user.
Possibility to browse failing checks.
Automatic translation using already translated strings.
New about page showing used versions.
Django 1.4 compatibility.
Ability to push changes to remote repo from web interface.
Added review of translations done by others.

Weblate 0.7

Released on February 16th 2012.
Direct support for GitHub notifications.
Added support for cleaning up orphaned checks and translations.
Displays nearby strings while translating.
Displays similar strings while translating.
Improved searching for string.

Weblate 0.6

Released on February 14th 2012.
Added various checks for translated messages.
Tunable access control.
Improved handling of translations with new lines.
Added client side sorting of tables.
Please check upgrading instructions in case you are upgrading.

Weblate 0.5

Released on February 12th 2012.

ng online services:

Apertium
Microsoft Translator
MyMemory
Several new translations.
Improved merging of upstream changes.
Better handle concurrent git pull and translation.
Propagating works for fuzzy changes as well.
Propagating works also for file upload.
Fixed file downloads while using FastCGI (and possibly others).

Weblate 0.4

Released on February 8th 2012.
Added usage guide to documentation.
Fixed API hooks not to require CSRF protection.

Weblate 0.3

Released on February 8th 2012.
Better display of source for plural translations.
New documentation in Sphinx format.
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Improved error page to give list of existing projects.
New per language stats.

Weblate 0.2

Released on February 7th 2012.
Improved validation of several forms.
Warn users on profile upgrade.
Remember URL for login.
Naming of text areas while entering plural forms.
Automatic expanding of translation area.

Weblate 0.1

Released on February 6th 2012.
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W

wlc, **??**

wlc.config, **??**

wlc.main, **??**

/

ANY /, ?? /api

GET /api/, ?? /api/addons

GET /api/addons/, ??

GET /api/addons/(int:id)/, ??

PUT /api/addons/(int:id)/, ??

DELETE /api/addons/(int:id)/, ??

PATCH /api/addons/(int:id)/, ?? /api/changes

GET /api/changes/, ??

GET /api/changes/(int:id)/, ?? /api/component-lists

GET /api/component-lists/, ??

GET /api/component-lists/(str:slug)/, ??

POST /api/component-lists/(str:slug)/components/, ??

PUT /api/component-lists/(str:slug)/, ??

DELETE /api/component-lists/(str:slug)/, ??

DELETE /api/component-lists/(str:slug)/components/(str:component_slug), ??

PATCH /api/component-lists/(str:slug)/, ?? /api/components

GET /api/components/, ??

GET /api/components/(string:project)/(string:component)/, ??

GET /api/components/(string:project)/(string:component)/changes/, ??

GET /api/components/(string:project)/(string:component)/file/, ??

GET /api/components/(string:project)/(string:component)/links/, ??

GET /api/components/(string:project)/(string:component)/lock/, ??

GET /api/components/(string:project)/(string:component)/monolingual_base/, ??

GET /api/components/(string:project)/(string:component)/new_template/, ??

GET /api/components/(string:project)/(string:component)/repository/, ??

GET /api/components/(string:project)/(string:component)/screenshots/, ??

GET /api/components/(string:project)/(string:component)/statistics/, ??

GET /api/components/(string:project)/(string:component)/translations/, ??

POST /api/components/(string:project)/(string:component)/addons/, ??

POST /api/components/(string:project)/(string:component)/links/, ??

POST /api/components/(string:project)/(string:component)/lock/, ??

POST /api/components/(string:project)/(string:component)/repository/, ??

POST /api/components/(string:project)/(string:component)/translations/, ??

PUT /api/components/(string:project)/(string:component)/, ??

DELETE /api/components/(string:project)/(string:component)/, ??

DELETE /api/components/(string:project)/(string:component)/links/(string:project_slug)/, ??

PATCH /api/components/(string:project)/(string:component)/, ?? /api/groups

GET /api/groups/, ??

GET /api/groups/(int:id)/, ??

POST /api/groups/, ??

POST /api/groups/(int:id)/componentlists/, ??

POST /api/groups/(int:id)/components/, ??

POST /api/groups/(int:id)/languages/, ??

POST /api/groups/(int:id)/projects/, ??

POST /api/groups/(int:id)/roles/, ??
PUT /api/groups/(int:id)/, ??
DELETE /api/groups/(int:id)/, ??
DELETE /api/groups/(int:id)/componentlists/(int:component_list_id), ??
DELETE /api/groups/(int:id)/components/(int:component_id), ??
DELETE /api/groups/(int:id)/languages/(string:language_code), ??
DELETE /api/groups/(int:id)/projects/(int:project_id), ??
PATCH /api/groups/(int:id)/, ?? /api/languages
GET /api/languages/, ??
GET /api/languages/(string:language)/, ??
GET /api/languages/(string:language)/statistics/, ??
POST /api/languages/, ??
PUT /api/languages/(string:language)/, ??
DELETE /api/languages/(string:language)/, ??
PATCH /api/languages/(string:language)/, ?? /api/metrics
GET /api/metrics/, ?? /api/projects
GET /api/projects/, ??
GET /api/projects/(string:project)/, ??
GET /api/projects/(string:project)/changes/, ??
GET /api/projects/(string:project)/components/, ??
GET /api/projects/(string:project)/languages/, ??
GET /api/projects/(string:project)/repository/, ??
GET /api/projects/(string:project)/statistics/, ??
POST /api/projects/, ??
POST /api/projects/(string:project)/components/, ??
POST /api/projects/(string:project)/repository/, ??
PUT /api/projects/(string:project)/, ??
DELETE /api/projects/(string:project)/, ??
PATCH /api/projects/(string:project)/, ?? /api/roles
GET /api/roles/, ??
GET /api/roles/(int:id)/, ??
POST /api/roles/, ??
PUT /api/roles/(int:id)/, ??
DELETE /api/roles/(int:id)/, ??
PATCH /api/roles/(int:id)/, ?? /api/screenshots
GET /api/screenshots/, ??
GET /api/screenshots/(int:id)/, ??
GET /api/screenshots/(int:id)/file/, ??
POST /api/screenshots/, ??
POST /api/screenshots/(int:id)/file/, ??
POST /api/screenshots/(int:id)/units/, ??
PUT /api/screenshots/(int:id)/, ??
DELETE /api/screenshots/(int:id)/, ??
DELETE /api/screenshots/(int:id)/units/(int:unit_id), ??
PATCH /api/screenshots/(int:id)/, ?? /api/tasks

GET /api/tasks/, **??**

GET /api/tasks/(str:uuid)/, **??** /api/translations

GET /api/translations/, **??**

GET /api/translations/(string:project)/(string:component)/(string:language)/, **??**

GET /api/translations/(string:project)/(string:component)/(string:language)/changes/, **??**

GET /api/translations/(string:project)/(string:component)/(string:language)/file/, **??**

GET /api/translations/(string:project)/(string:component)/(string:language)/repository/, **??**

GET /api/translations/(string:project)/(string:component)/(string:language)/statistics/, **??**

GET /api/translations/(string:project)/(string:component)/(string:language)/units/, **??**

POST /api/translations/(string:project)/(string:component)/(string:language)/autotransla **??**

POST /api/translations/(string:project)/(string:component)/(string:language)/file/, **??**

POST /api/translations/(string:project)/(string:component)/(string:language)/repository/ **??**

POST /api/translations/(string:project)/(string:component)/(string:language)/units/, **??**

DELETE /api/translations/(string:project)/(string:component)/(string:language)/, **??** /api/units

GET /api/units/, **??**

GET /api/units/(int:id)/, **??**

PUT /api/units/(int:id)/, **??**

DELETE /api/units/(int:id)/, **??**

PATCH /api/units/(int:id)/, **??** /api/users

GET /api/users/, **??**

GET /api/users/(str:username)/, **??**

GET /api/users/(str:username)/notifications/, **??**

GET /api/users/(str:username)/notifications/(int:subscription_id)/, **??**

GET /api/users/(str:username)/statistics/, **??**

POST /api/users/, **??**

POST /api/users/(str:username)/groups/, **??**

POST /api/users/(str:username)/notifications/, **??**

PUT /api/users/(str:username)/, **??**

PUT /api/users/(str:username)/notifications/(int:subscription_id)/, **??**

DELETE /api/users/(str:username)/, **??**

DELETE /api/users/(str:username)/notifications/(int:subscription_id)/, **??**

PATCH /api/users/(str:username)/, **??**

PATCH /api/users/(str:username)/notifications/(int:subscription_id)/, **??** /exports

GET /exports/rss/, **??**

GET /exports/rss/(string:project)/, **??**

GET /exports/rss/(string:project)/(string:component)/, **??**

GET /exports/rss/(string:project)/(string:component)/(string:language)/, **??**

GET /exports/rss/language/(string:language)/, **??**

GET /exports/stats/(string:project)/(string:component)/, ?? /hooks

GET /hooks/update/(string:project)/, ??

GET /hooks/update/(string:project)/(string:component)/, ??

POST /hooks/azure/, ??

POST /hooks/bitbucket/, ??

POST /hooks/gitea/, ??

POST /hooks/gitee/, ??

POST /hooks/github/, ??

POST /hooks/gitlab/, ??

POST /hooks/pagure/, ??