

Michal Čihař

2021?01?13?

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Weblate ???

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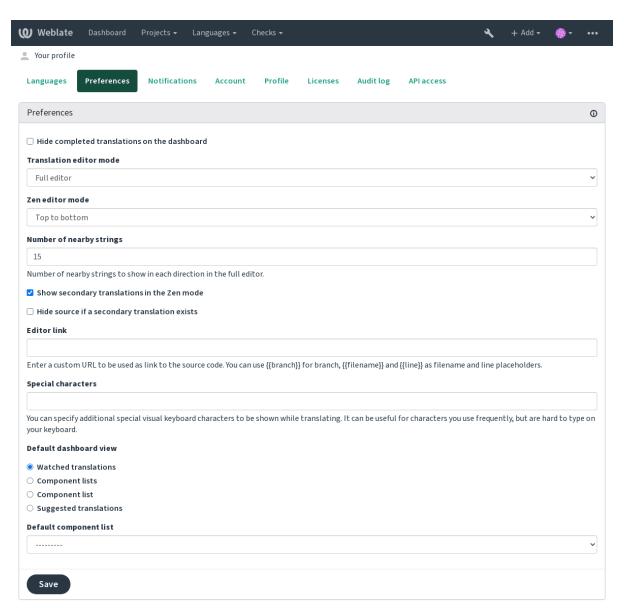
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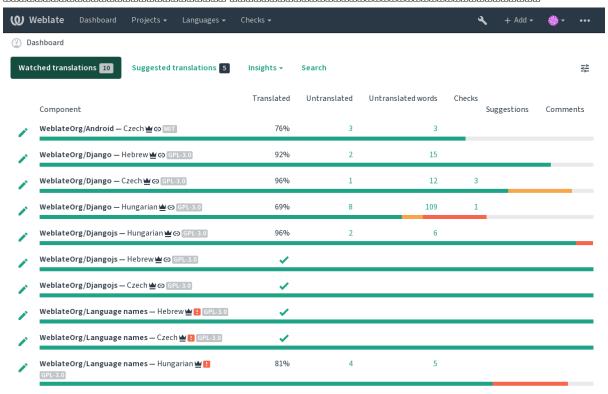
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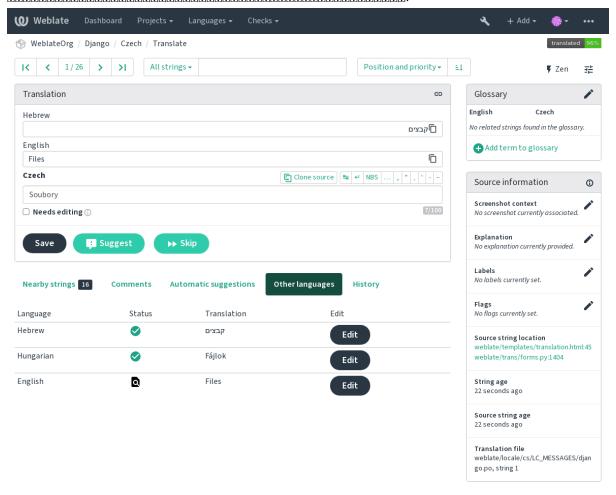
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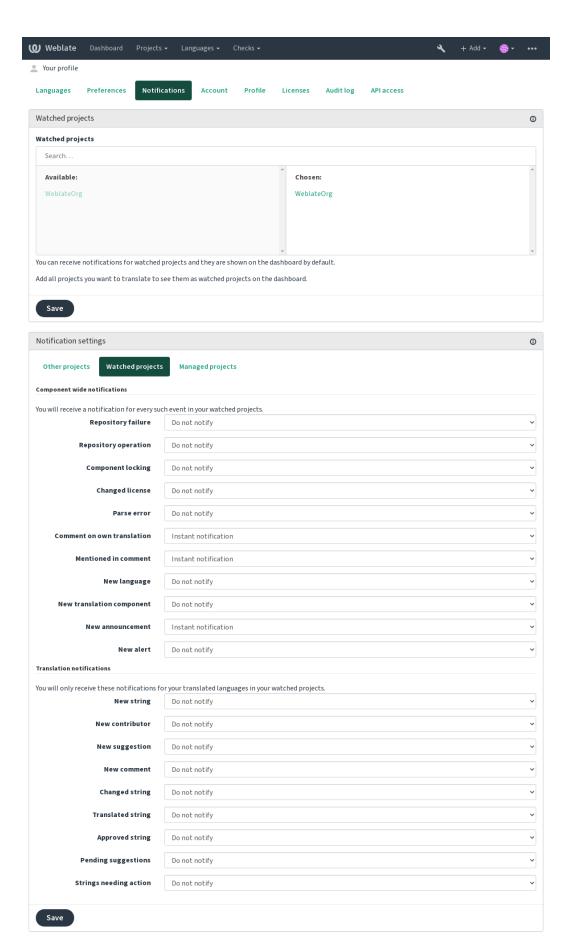
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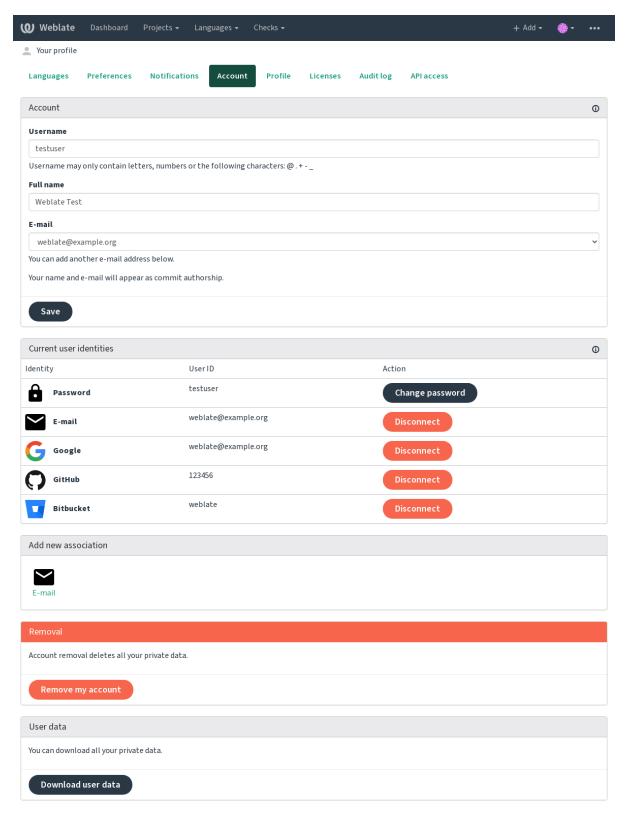
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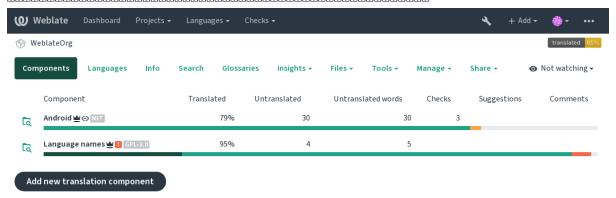
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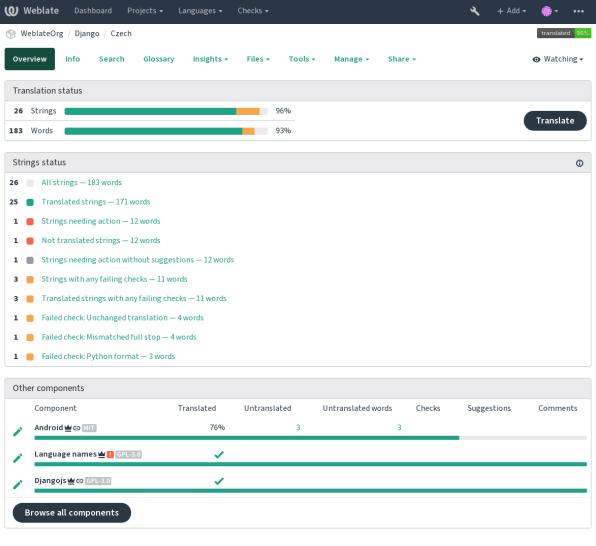
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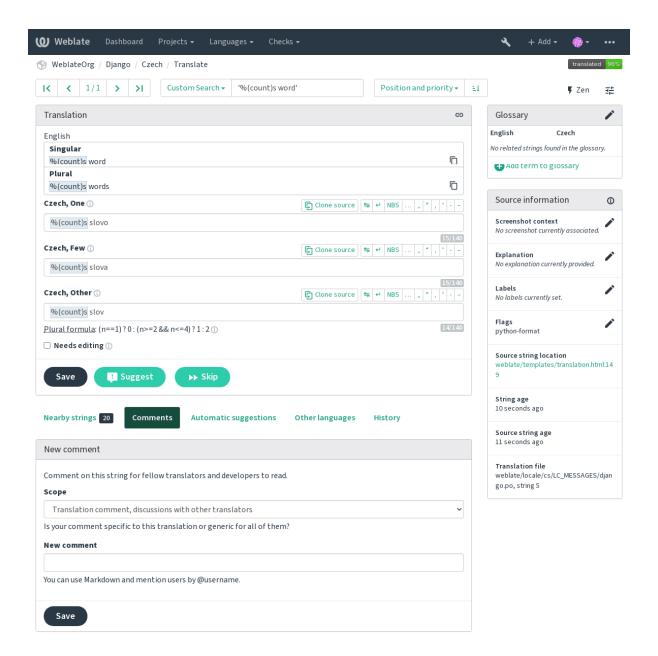
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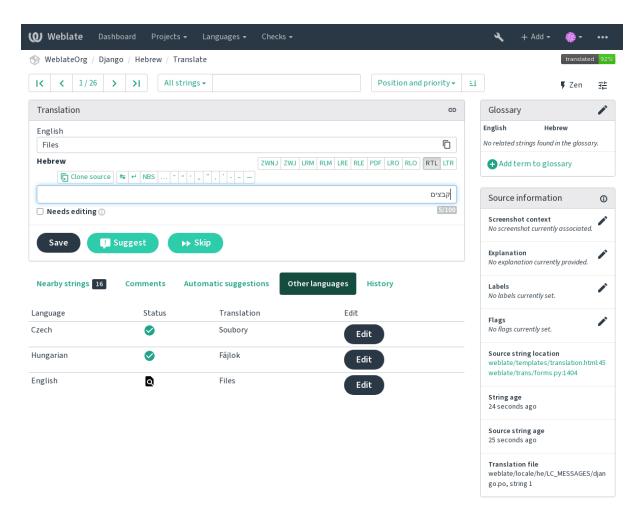
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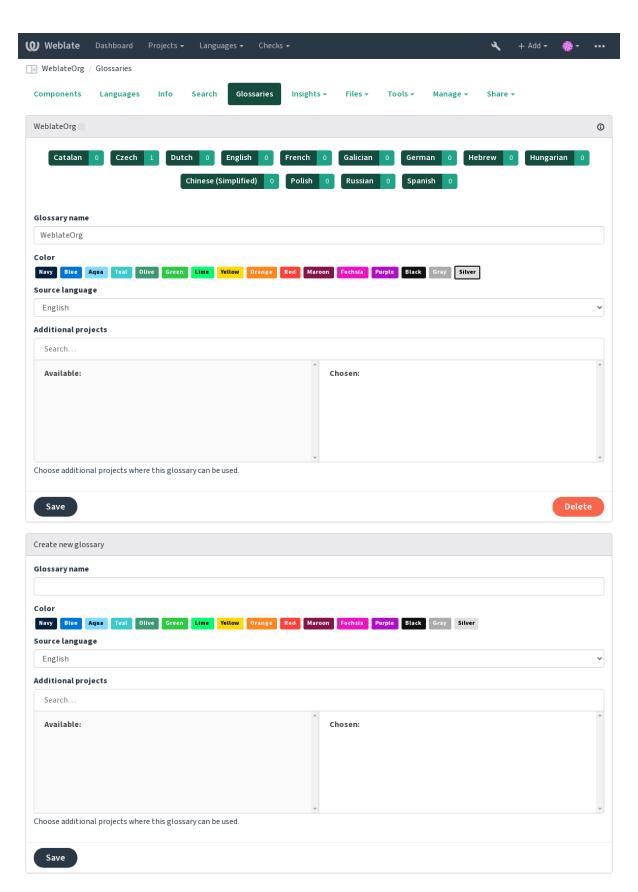
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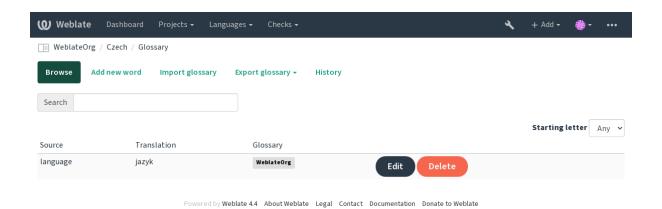
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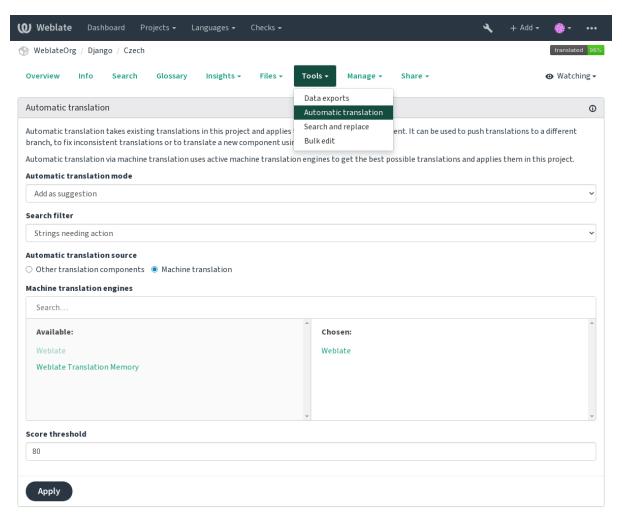


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Keeping translations same across components

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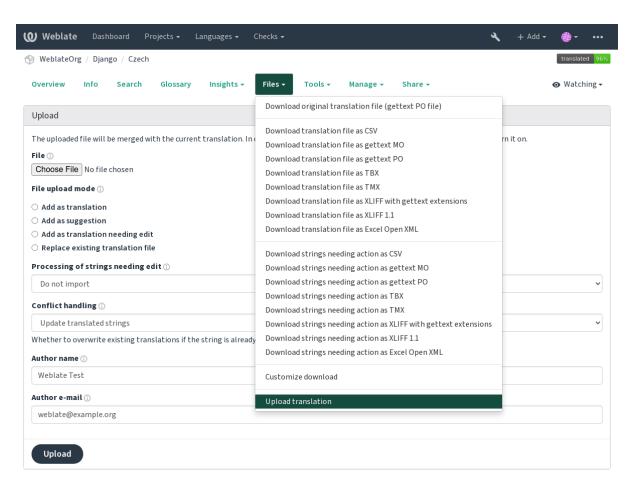
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Bulk edit addon

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Supported file formats

Supported file formats

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

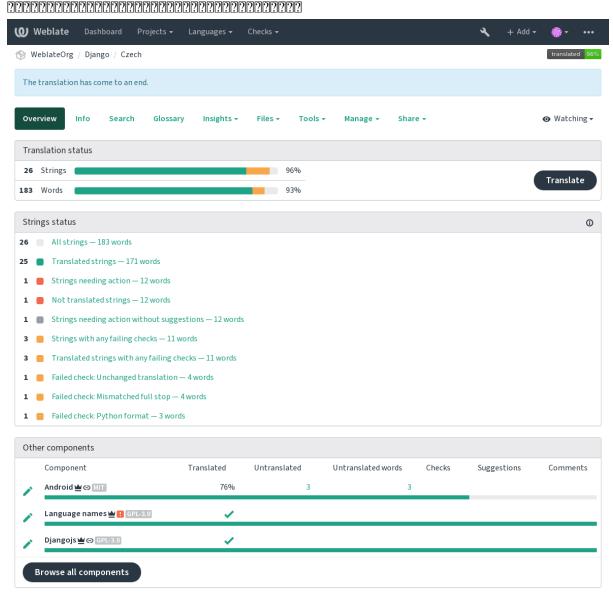
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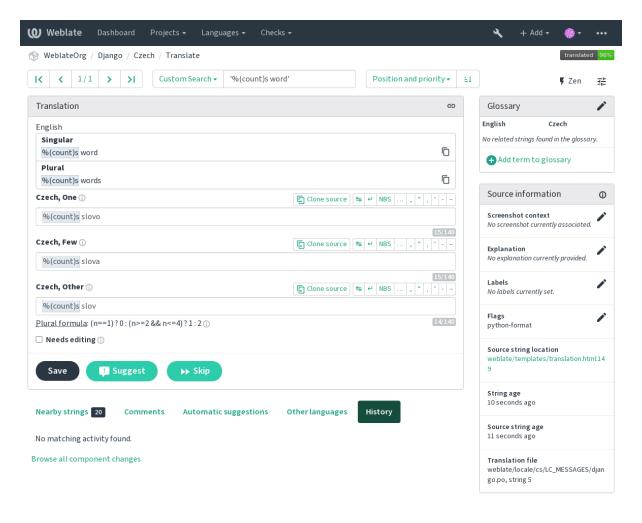
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AngularJS: API: \$interpolate

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C format strings ? C printf format

C# ????

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C# String Format

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Template literals

i18next ??

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i18next interpolation

Java ??

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Java Format Strings

Java MessageFormat

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Java MessageFormat

JavaScript ??

22222222 javascript-format

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JavaScript formatting strings

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Perl ??

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Perl sprintf Perl Format Strings

PHP ??

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PHP sprintf documentation ? PHP Format Strings

Python ???????

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Python brace format Python Format Strings

Python ??

27777777 There are %d apples 2777777777777777 balance is %(amount) %(currency) 27777777 python-format

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Python string formatting Python Format Strings

Qt ???

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Qt QString::arg()

Qt ????

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Qt i18n guide

Ruby ??

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Ruby Kernel#sprintf

Vue I18n ???

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Vue I18n Formatting 2 Vue I18n Linked locale messages

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Keeping translations same across components

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placeholders:r"%[^%]%"

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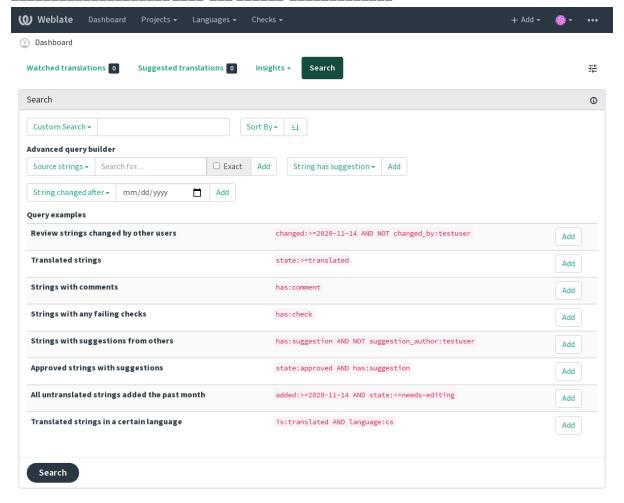
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Python ? Gettext ???:

from gettext import ngettext
print ngettext("Selected %d file", "Selected %d files", files) % files

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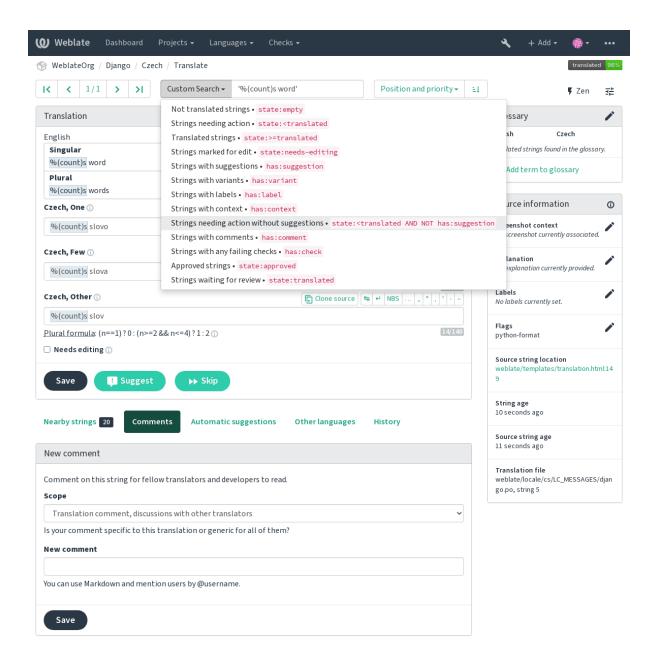
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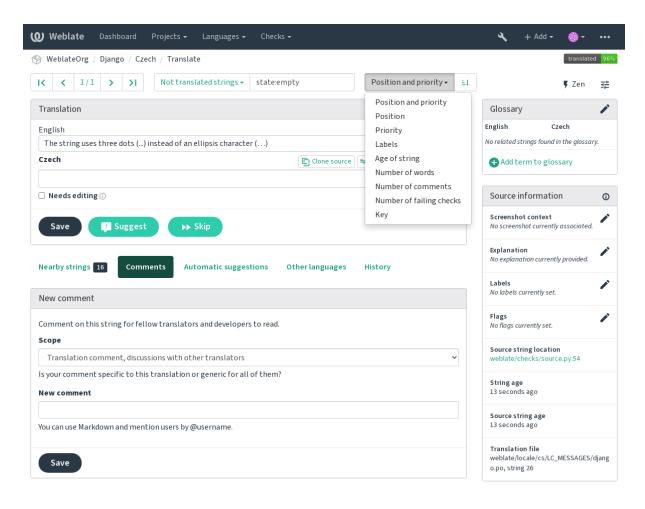
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 [2][2]

Translation states

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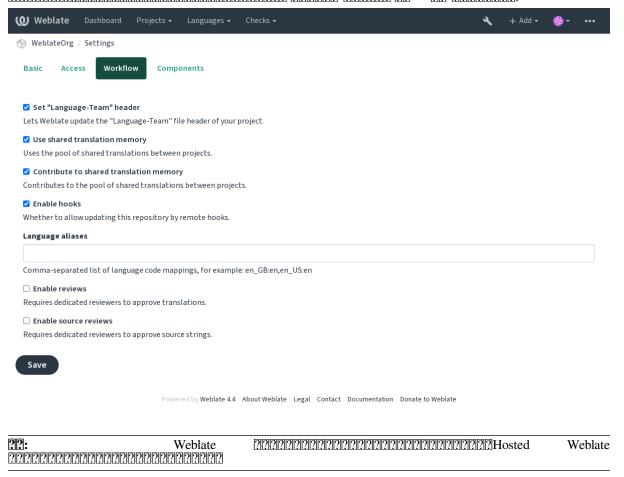
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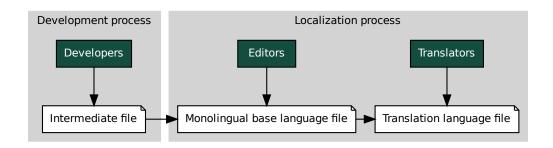
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Bilingual and monolingual formats??????????!abels

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- 3.Weblate ? Project configuration ? push-on-commit ?????????Weblate ?????????? Weblate ??????????????

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Web ??????????????!?!Avoiding merge conflicts


```
# 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/master
```

(????????)

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

```
# 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
```



```
# 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/
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 master branch:
git checkout master
git merge weblates-second/master
... # Resolve conflicts
git commit
# Push changes to the upstream repository, Weblate will fetch the merge_
\hookrightarrow from there:
git push
```



```
# Add remote:
git remote add weblate /path/to/weblate/snapshot/
# Update Weblate remote:
git remote update weblate
# Merge Weblate changes:
git merge weblate/master
# 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...
\hookrightarrowthere:
git push
```

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Once you merge changes from Weblate, you might have to merge these branches (depending on your development workflow) discarding differences:

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

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Keeping translations same across components

How to translate multi-platform projects?

Weblate supports a wide range of file formats (see *Supported file formats*) 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.

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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 <code>DATA_DIR</code> directory and is named <code>vcs/sproject>/scomponent>/</code>. 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 2222222222222222).

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.

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Component configuration

Usage

How do I review the translations of others?

You can subscribe to any changes made in [2] 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.

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.

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report-source???????

How can I use existing translations while translating?

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.

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[?]?[?]**?**[?]?[?]?

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.

For monolingual files (see *Supported file formats*) Weblate might add new translation strings not present in the *tem-plate*, and not in actual translations. It does not however perform any automatic cleanup of stale strings as that might have unexpected outcomes. If you want to do this, please install an appropriate addon which will handle the cleanup according to your requirements.

Weblate also will not try to update bilingual files in any way, so if you need po files being updated from pot, you need to do it yourself or using an addon.

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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.

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.

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 22222 PO 2222222 (msgmerge).

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
```

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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"]
```

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Allowed hosts setup

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.



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 2222 2222 in Git to access other VCSes.

Weblate also supports VCS less operation, see 2222 2222.

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.

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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. If you feel your project should be translated as one, consider merging these po files. It will make life easier even for translators not using Weblate.

22: In case there is great demand for this feature, it might be implemented in future versions.

Why does Weblate use language codes such sr_Latn or zh_Hant?

These are language codes defined by RFC 4646 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.

Supported file formats

Weblate supports most translation format understood by translate-toolkit, however each format being slightly different, some issues with formats that are not well tested can arise.

77.

Translation Related File Formats

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.

Bilingual and monolingual formats

Both monolingual and bilingual formats are supported. Bilingual formats store two languages in single file—source and translation (typical examples are *GNU gettext*, *XLIFF* or *Apple iOS strings*). On the other side, monolingual formats identify the string by ID, and each language file contains only the mapping of those to any given language (typically *Android string resources*). Some file formats are used in both variants, see the detailed description below.

Additionally this workflow can be extended by utilizing [2][2][2][2][2][2] to include strings provided by developers, but not to be used as is in the final strings.

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Weblate can automatically detect several widespread file formats, but this detection can harm your performance and will limit features specific to given file format (for example automatic addition of new translations).

Translation types capabilities

Capabilities of all supported formats:

Format I	Linguality ¹	Plurals ²	Comments ³	Context ⁴	Location ⁵	Flags ⁸	Additional states ⁶
GNU gettext \	bilingual	yes	yes	yes	yes	yes ⁹	needs editing
Monolingual 1 gettext	mono	yes	yes	yes	yes	yes ⁹	needs editing
0	both	yes	yes	yes	yes	yes ¹⁰	needs editing, approved
Java proper-l	both	no	yes	no	no	no	п ррго г ос
GWT proper-1 ties	mono	yes	yes	no	no	no	
Joomla trans-1 lations	mono	no	yes	no	yes	no	
Qt Linguist .ts \	both	yes	yes	no	yes	yes ¹⁰	needs editing
Android stringt resources	mono	yes	yes ⁷	no	no	yes ¹⁰	
Apple iOSt strings	bilingual	no	yes	no	no	no	
DITE OF OR	mono	no ¹¹	yes	no	no	no	וכווכווכווכווכווכווכו

Table 1 - ?????????????							
Format	Linguality ¹	Plurals ²	Comments ³	Context ⁴	Location ⁵	Flags ⁸	Additional states ⁶
JSON files	mono	no	no	no	no	no	
JSON i18n	<i>ext</i> mono	yes	no	no	no	no	
files							
go-i18n JSC	ON mono	yes	no	no	no	no	
files							
ARB File	mono	yes	yes	no	no	no	
WebExtensio	on mono	yes	yes	no	no	no	
JSON						10	
.XML resour	<i>rce</i> mono	no	yes	no	no	yes ¹⁰	
files	141-						
CSV files	both	no	yes	yes	yes	no	needs editing
YAML files	mono	no	yes	no	no	no	
Ruby YAN files	<i>IL</i> mono	yes	yes	no	no	no	
DTD files	mono	no	no	no	no	no	
Flat XML	mono		no		no	yes ¹⁰	
	RCmono	no no	yes	no no	no	no	
files	Ciliono	110	yes	110	110	110	
	<i>en</i> mono	no	yes	yes	yes	no	needs editing
XML Op	enmono	110	yes	jes	yes	110	needs editing
	?/?/mono	no	no	no	no	no	
<u> </u>					110		
[?[?]?]							
Subtitle files	mono	no	no	no	yes	no	
HTML files	mono	no	no	no	no	no	
OpenDocum	<i>en</i> mono	no	no	no	no	no	
Format							
IDML Form		no	no	no	no	no	
	la-mono	no	no	no	no	no	
tions							
Inno Setup I	///mono	no	no	no	no	no	
???							

GNU gettext

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"
```

(????????)

See *Bilingual and monolingual formats*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.

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.

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

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

Typical Weblate Component configuration

??:

devel/gettext?devel/sphinx?Gettext Wikipedia ??? ?PO Files?configure ?????? ALL_LINGUAS ??????? gettext ???????!LINGUAS ??????? MO ???????? PO ??????? 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

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

22222 3.3 222: 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 <tarqet> 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.

?

Specifying translation flags

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 2222222).

Unit keys or context

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

22.22.22 XLIFF Translation File

Typical Weblate Component configuration for monolingual XLIFF

File masklocalizations/*.xliff2222222222222localizations/en-US.xliff22222222222localizations/en-US.xliff

??:

XLIFF Wikipedia 2 2XLIFF2 font attribute in XLIFF 1.2 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.

20: 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

??:

GWT properties

Native GWT format for translations.

GWT properties are usually used as monolingual translations.

Typical Weblate Component configuration

??????? *GWT Properties*

??:

INI translations

22222 4.1 222.

INI file format for translations.

INI translations are usually used as monolingual translations.

Typical Weblate Component configuration

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

??:

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

Inno Setup INI ???

?????? 4.1 ????.

????? 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

| 2222222 | language/*.islu | 222222222222 | language/en.islu | 2222222222222 | Empty | 2222222 | 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

??????????? *Empty*

22222 Joomla Language File

77.

Specification of Joomla language files [Mozilla and Java properties files [INI translations] Inno Setup INI [III]

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

2222222 i18n/app.de.ts 222222 *Qt Linguist Translation File*

Typical Weblate Component configuration when using as monolingual

 20222222
 i18n/app.*.ts

 2022222222
 i18n/app.en.ts

 20222222
 i18n/app.en.ts

 2022222
 i18n/app.en.ts

 Qt Linguist Translation File

??:

Qt Linguist manual 2Qt .ts 2Bilingual and monolingual formats

Android string resources

Android specific file format for translating applications.

Typical Weblate Component configuration

??????????? *Empty*

??????? Android String Resource

??:

Android string resources documentation 2 Android string resources

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

become:

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

```
| Resources/*.lproj/Localizable.strings |
| Resources/en.lproj/Localizable.strings |
| Localizable.strings |
| Localizable.str
```

??:

Apple "strings files" documentation 2 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';</pre>
```

Typical Weblate Component configuration

```
| 2000 | 1 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 200
```

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 ????.

2222 2.16 222: Since Weblate 2.16 and with translate-toolkit at-least 2.2.4, nested structure JSON files are supported as well.

22222 4.3 222: 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. The only difference between them is when adding new strings. The nested variant tries to parse the key and insert the new string into the matching structure.

```
Typical Weblate Component configuration
```

??:

JSON i18next files

22222 2.17 222: 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 supports the i18next JSON v3 format. The v2 and v1 variants are mostly compatible, with exception of how plurals are handled.

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

2222222 langs/*.json 2222222222222 langs/en.json

???????????? *Empty*

???????? *i18next JSON file*

??:

go-i18n JSON files

22222 4.1 222.

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

2222222 langs/*.json 2222222222222 langs/en.json

????????????? *Empty*

???????? *go-i18n JSON file*

??:

ARB File

22222 4.1 222.

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

??:

WebExtension JSON

2.16 2.16 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

. , , ,	The control of the general control of the control o
???????	Resources/Language.*.resx
??????????????	Resources/Language.resx
???????????	Empty
?!?!?!?!?	.NET resource file

??:

.NET Resource files (.resx) 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 :guilabel: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 translate-toolkit: location, source, target, ID, fuzzy, context, translator_comments, developer_comments Choose :guilabel:CSV file as a file format.

Remember to define 2222222222222 when your files are monolingual (see *Bilingual and monolingual formats*).

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

2222222222 locale/en.csv

???????? *CSV file*

Typical Weblate Component configuration for monolingual CSV

 222222
 locale/*.csv

 22222222
 locale/en.csv

 2222222
 locale/en.csv

 222222
 locale/en.csv

 222222
 locale/en.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

 2022222
 translations/messages.*.yml

 22222222
 translations/messages.en.yml

 222222
 Empty

 222222
 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

???????????? *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

 222222222222
 Empty

 2222222
 DTD file

??:

Mozilla DTD format

Flat XML files

?????? 3.9 ????.

Example of a flat XML file:

Typical Weblate Component configuration

??:

Flat XML

Windows RC files

22222 4.1 222: Support for Windows RC files has been rewritten.

22: 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

IDS_MSG2

IDS_MSG2

IDS_MSG3

IDS_MSG3

IDS_MSG4

"Try Weblate at http://demo.weblate.org/!\n"

"Thank you for using Weblate."
```

Typical Weblate Component configuration

??:

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

In case you don't want to translate certain strings (for example changelogs), mark them read-only (see

Subtitle files

?????? 3.7 ????.

SubRip subtitle file (*.srt)

MicroDVD subtitle file (*.sub)

Advanced Substation Alpha subtitles file (*.ass)

Substation Alpha subtitle file (*.ssa)

Typical Weblate Component configuration

 20222222
 path/*.srt

 22222222222
 path/en.srt

 2222222
 path/en.srt

 222222
 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 <code>source</code> (which contains the source string) and a column called <code>target</code> (which contains the translation). Additionally there should be the column called <code>context</code> (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 files

?????? 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

OpenDocument Format

?????? 4.1 ????.

22: 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 ????.

22: 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.

???

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.

??

Translation Related File Formats

?????????

??????? 3.10 ????.

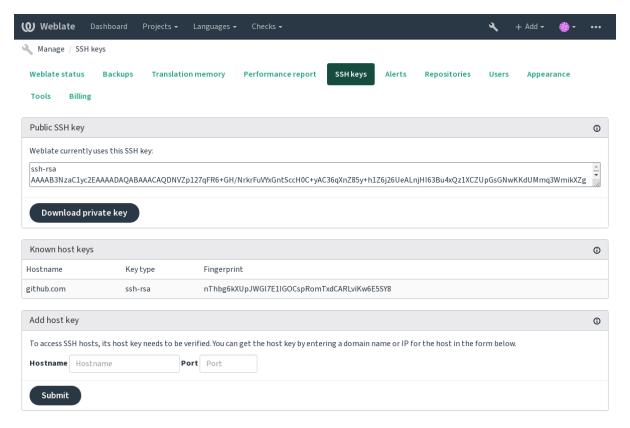
Read-only strings from translation files will be included, but can not be edited in Weblate. This feature is natively supported by few formats (*XLIFF* and *Android string resources*), but can be emulated in others by adding a read-only flag, see 2022/2022/2022.

??????????

?????????

Hosted Weblate ???????????

SSH ?????

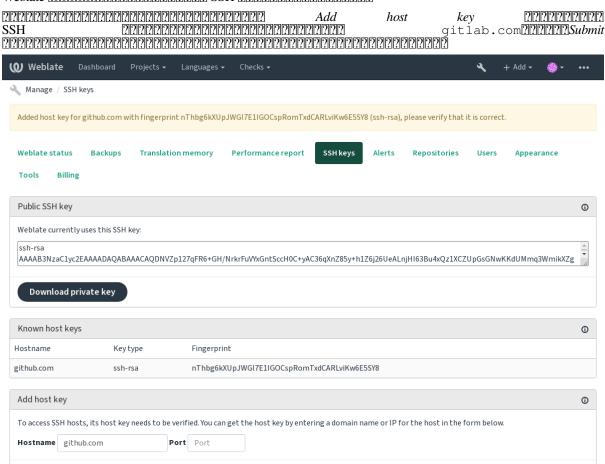
 

Powered by Weblate 4.4 About Weblate Legal Contact Documentation Donate to Weblate

Weblate SSH ??

22: 22222222222 Weblate 2 SSH 222222222222222

SSH ?????????



Powered by Weblate 4.4 About Weblate Legal Contact Documentation Donate to Weblate

GitHub ?????

Submit

22\(\text{2}\)2\(\

??

Hosted Weblate ????????????????

Weblate ??? URL

????:

HTTPS ??????

???????

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

??:

The cURL manpage ? Git config documentation

Git

??:

Git ????????

Git ??????????

Bazaar 22222 Launchpad 22 gnuhello 22222222:

bzr::lp:gnuhello

Mercurial ?????? selenic.com ? hello ?????????:

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

GitHub

?????? 2.3 ????.

??:

Pushing changes from Weblate

??:

GITHUB_USERNAME !! GITHUB_TOKEN !! GITHUB_CREDENTIALS

GitLab

?????? 3.9 ????.

??:

Pushing changes from Weblate

???????????API ???????????????

??:

GITLAB_USERNAME PGITLAB_TOKEN GITLAB_CREDENTIALS

Pagure

?????? 4.3.2 ????.

??

Pushing changes from Weblate

??:

PAGURE USERNAME PAGURE TOKEN PAGURE CREDENTIALS

Gerrit

?????? 2.2 ????.

Mercurial

?????? 2.1 ????.

Mercurial 22 Weblate 22 22 22 22 1 22 VCS 22 22

??:

Subversion

?????? 2.8 ????.

Subversion ????

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

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

Weblate's REST API

22222 2.6 222: The REST API is available since Weblate 2.6.

The API is accessible on the /api/ URL and it is based on Django REST framework. You can use it directly or by Weblate [2020][2020].

Authentication and generic parameters

The public project API is available without authentication, though unauthenticated requests are heavily throttled (by default to 100 requests per day), so it is recommended to use authentication. The authentication uses a token, which you can get in your profile. Use it in the Authorization header:

ANY /

Generic request behaviour for the API, the headers, status codes and parameters here apply to all endpoints as well. Query Parameters

format -- Response format (overrides Accept). Possible values depends on REST framework setup, by default json and api are supported. The latter provides web browser interface for API. Request Headers

Accept -- the response content type depends on Accept header

Authorization -- optional token to authenticate

Response Headers

Content-Type -- this depends on Accept header of request

Allow -- list of allowed HTTP methods on object

Response JSON Object

detail (string) -- verbose description of failure (for HTTP status codes other than 200 OK)

count (int) -- total item count for object lists

next (string) -- next page URL for object lists

previous (string) -- previous page URL for object lists

results (array) -- results for object lists

url (string) -- URL to access this resource using API

web_url (string) -- URL to access this resource using web browser Status Codes

200 OK -- when request was correctly handled

400 Bad Request -- when form parameters are missing

403 Forbidden -- when access is denied

429 Too Many Requests -- when throttling is in place

Authentication examples

Example request:

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

Example response:

```
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 example:

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

Passing Parameters Examples

For the POST method the parameters can be specified either as form submission (application/x-www-form-urlencoded) or as JSON (application/json).

Form request example:

```
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 request example:

```
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 example:

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

CURL JSON example:

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

API ????

222224.1 222: 2222222222222

??:

????, ?????

API Entry Point

GET /api/The API root entry point.

Example request:

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

Example response:

```
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/
```

Returns a list of users if you have permissions to see manage users. If not, then you get to see only your own details.

Users object attributes are documented at GET /api/users/(str:username)/.

```
POST /api/users/
Creates a new user.
```

Parameters

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

full_name (string) -- User full name

email (string) -- User email

is superuser (boolean) -- Is user superuser? (optional)

is_active (boolean) -- Is user active? (optional)

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

Returns information about users.

Parameters

username (string) -- User's username

Response JSON Object

username (string) -- username of a user

 $\textbf{full_name} \ (\textit{string}) -- \ \text{full name of a user}$

email (string) -- email of a user

is_superuser (boolean) -- whether the user is a super user

is_active (boolean) -- whether the user is active

date_joined (string) -- date the user is created

groups (array) -- link to associated groups; see GET /api/groups/(int:id)/

Example JSON data:

```
"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)/
```

Changes the user parameters.

Parameters

username (string) -- User's username

Response JSON Object

username (string) -- username of a user

 $full_name (string) -- full name of a user$

email (string) -- email of a user

is_superuser (boolean) -- whether the user is a super user

is_active (boolean) -- whether the user is active

date_joined (string) -- date the user is created

```
PATCH /api/users/(str: username)/
Changes the user parameters.
Parameters
username (string) -- User's username
Response JSON Object
username (string) -- username of a user
full_name (string) -- full name of a user
email (string) -- email of a user
is_superuser (boolean) -- whether the user is a super user
is_active (boolean) -- whether the user is active
date_joined (string) -- date the user is created
DELETE /api/users/(str: username)/
Deletes all user information and marks the user inactive.
Parameters
username (string) -- User's username
POST /api/users/(str: username)/groups/
Associate groups with a user.
Parameters
username (string) -- User's username
Form Parameters
string group_id -- The unique group ID
GET /api/users/(str: username)/statistics/
List statistics of a user.
Parameters
username (string) -- User's username
Response JSON Object
suggested (int) -- ?????????????
uploaded (int) -- 222222222222
commented (int) -- 2222222222222
languages (int) -- 2222222222222
GET /api/users/(str: username)/notifications/
List subscriptions of a user.
Parameters
username (string) -- User's username
POST /api/users/(str: username)/notifications/
Associate subscriptions with a user.
Parameters Parameters
username (string) -- User's username
Request JSON Object
notification (string) -- Name of notification registered
scope (int) -- Scope of notification from the available choices
frequency (int) -- Frequency choices for notifications
GET /api/users/(str: username)/notifications/
int: subscription_id/ Get a subscription associated with a user.
Parameters
username (string) -- User's username
subscription_id (int) -- 222222 ID
PUT /api/users/(str: username)/notifications/
int: subscription_id/ Edit a subscription associated with a user.
username (string) -- User's username
subscription_id(int) -- 222222 ID
```

Request JSON Object

```
notification (string) -- Name of notification registered
scope (int) -- Scope of notification from the available choices
frequency (int) -- Frequency choices for notifications
PATCH /api/users/(str: username)/notifications/
int: subscription_id/ Edit a subscription associated with a user.
Parameters
username (string) -- User's username
subscription_id(int) -- 222222 ID
Request JSON Object
notification (string) -- Name of notification registered
scope (int) -- Scope of notification from the available choices
frequency (int) -- Frequency choices for notifications
DELETE /api/users/(str: username)/notifications/
int: subscription_id/ Delete a subscription associated with a user.
Parameters
username (string) -- User's username
subscription_id -- Name of notification registered
subscription_id -- int
????
?????? 4.0 ????.
GET /api/groups/
Returns a list of groups if you have permissions to see manage groups. If not, then you get to see only the groups the
user is a part of.
??:
Group object attributes are documented at GET /api/groups/(int:id)/.
POST /api/groups/
Creates a new group.
Parameters
name (string) -- ???????
project_selection (int) -- Group of project selection from given options
language_selection (int) -- Group of languages selected from given options
GET /api/groups/(int: id)/
Returns information about group.
Parameters
id (int) -- Group's ID
Response JSON Object
name (string) -- name of a group
project_selection (int) -- integer corresponding to group of projects
language_selection (int) -- integer corresponding to group of languages
roles (array) -- link to associated roles; see GET /api/roles/(int:id)/
projects (array) -- link to associated projects; see GET /api/projects/(string:project)/
components (array) -- link to associated components; see GET
                                                                        /api/components/
(string:project) / (string:component) /
(str:slug)/
```

Example JSON data:

```
"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)/
Changes the group parameters.
Parameters
id (int) -- Group's ID
Response JSON Object
name (string) -- name of a group
project_selection (int) -- integer corresponding to group of projects
language_selection (int) -- integer corresponding to group of Languages
PATCH /api/groups/(int: id)/
Changes the group parameters.
Parameters
id (int) -- Group's ID
Response JSON Object
name (string) -- name of a group
project_selection (int) -- integer corresponding to group of projects
language_selection (int) -- integer corresponding to group of languages
DELETE /api/groups/(int: id)/
Deletes the group.
Parameters
id (int) -- Group's ID
POST /api/groups/(int: id)/roles/
Associate roles with a group.
Parameters
id (int) -- Group's ID
Form Parameters
string role_id -- The unique role ID
POST /api/groups/(int: id)/components/
Associate components with a group.
Parameters
id (int) -- Group's ID
Form Parameters
string component_id -- The unique component ID
DELETE /api/groups/(int: id)/components/
int: component_id Delete component from a group.
Parameters
```

id (int) -- Group's ID

```
component_id (int) -- The unique component ID
POST /api/groups/(int: id)/projects/
Associate projects with a group.
Parameters
id (int) -- Group's ID
Form Parameters
string project_id -- The unique project ID
DELETE /api/groups/(int: id)/projects/
int: project_id Delete project from a group.
Parameters
id (int) -- Group's ID
project_id (int) -- The unique project ID
POST /api/groups/(int: id)/languages/
Associate languages with a group.
Parameters
id (int) -- Group's ID
Form Parameters
string language_code -- The unique language code
DELETE /api/groups/(int: id)/languages/
string: language_code Delete language from a group.
Parameters
id (int) -- Group's ID
language_code (string) -- The unique language code
Parameters
id(int) -- Group's ID
Form Parameters
string component_list_id -- The unique componentlist ID
DELETE /api/groups/(int: id)/componentlists/
int: component_list_id Delete componentlist from a group.
Parameters
id (int) -- Group's ID
component_list_id (int) -- The unique componentlist ID
 ???
GET /api/roles/
Returns a list of all roles associated with user. If user is superuser, then list of all existing roles is returned.
Roles object attributes are documented at GET /api/roles/(int:id)/.
POST /api/roles/
Creates a new role.
Parameters Parameters
name (string) -- Role name
permissions (array) -- List of codenames of permissions
GET /api/roles/(int: id)/
Returns information about a role.
Parameters
id (int) -- Role ID
Response JSON Object
name (string) -- Role name
permissions (array) -- list of codenames of permissions
```

Example JSON data:

```
"name": "Access repository",
     "permissions": [
          "vcs.access",
          "vcs.view"
     "url": "http://example.com/api/roles/1/",
PUT /api/roles/(int: id)/
Changes the role parameters.
Parameters
id (int) -- Role's ID
Response JSON Object
name (string) -- Role name
permissions (array) -- list of codenames of permissions
PATCH /api/roles/(int: id)/
Changes the role parameters.
Parameters
id (int) -- Role's ID
Response JSON Object
name (string) -- Role name
permissions (array) -- list of codenames of permissions
DELETE /api/roles/(int: id)/
Deletes the role.
Parameters
id (int) -- Role's ID
??
GET /api/languages/
Returns a list of all languages.
Language object attributes are documented at GET /api/languages/(string:language)/.
POST /api/languages/
Creates a new language.
Parameters
code (string) -- ????
name (string) -- ????
direction (string) -- Language direction
plural (object) -- Language plural formula and number
GET /api/languages/(string: language)/
Returns information about a language.
Parameters
language (string) -- ???????
Response JSON Object
code (string) -- ???????
direction (string) -- 2222222
plural (object) -- Object of language plural information
aliases (array) -- Array of aliases for language
Example JSON data:
```

```
"code": "en",
     "direction": "ltr",
     "name": "English",
     "plural": {
    "id": 75,
          "source": 0,
          "number": 2,
"formula": "n != 1",
          "type": 1
     },
"aliases": [
~ 1 i sh
          "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)/
Changes the language parameters.
Parameters
language (string) -- Language's code
Request JSON Object
name (string) -- ????
direction (string) -- Language direction
plural (object) -- Language plural details
PATCH /api/languages/(string: language)/
Changes the language parameters.
Parameters
language (string) -- Language's code
Request JSON Object
name (string) -- ????
direction (string) -- Language direction
plural (object) -- Language plural details
DELETE /api/languages/(string: language)/
Deletes the Language.
Parameters
language (string) -- Language's code
GET /api/languages/(string: language)/statistics/
Returns statistics for a language.
Parameters
language (string) -- ??????
Response JSON Object
total (int) -- total number of strings
total_words (int) -- total number of words
last change (timestamp) -- last changes in the language
recent_changes (int) -- total number of changes
translated (int) -- number of translated strings
translated_percent (float) -- percentage of translated strings
translated_words (int) -- number of translated words
translated_words_percent (int) -- percentage of translated words
```

translated_chars (int) -- number of translated characters

```
translated_chars_percent (int) -- percentage of translated characters
total_chars (int) -- number of total characters
fuzzy_percent (int) -- percentage of fuzzy (marked for edit) strings
failing (int) -- number of failing strings
failing -- percentage of failing strings
???????
GET /api/projects/
Returns a list of all projects.
??:
Project object attributes are documented at GET /api/projects/(string:project)/.
POST /api/projects/
?????? 3.9 ????.
Creates a new project.
Parameters
name (string) -- ?????????
slug (string) -- ???????????????
web (string) -- ????????? Web ????
GET /api/projects/(string: project)/
Returns information about a project.
Parameters
project (string) -- 222222 URL 2222
Response JSON Object
name (string) -- project name
slug (string) -- ????????????
web (string) -- project website
components_list_url (string) -- URL to components list; see GET
                                                                          /api/projects/
(string:project)/components/
repository_url (string) -- URL to repository status; see GET
                                                                            /api/projects/
(string:project)/repository/
changes_list_url(string)--URL to changes list; see GET /api/projects/(string:project)/
changes/
translation_review (boolean) -- 2222222
source_review (boolean) -- ??????????
set_language_team (boolean) -- Set Language-Team header
enable_hooks (boolean) -- ????????
instructions (string) -- 2?????????
mail (string) -- 22222222
language_aliases (string) -- ??????
Example JSON data:
     "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)/ 22222 4.3 222.

Edit a project by a PATCH request.

```
Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
PUT /api/projects/(string: project)/
?????? 4.3 ????.
Edit a project by a PUT request.
Parameters
DELETE /api/projects/(string: project)/
?????? 3.9 ????.
Deletes a project.
Parameters
project (string) -- 222222 URL 2222
GET /api/projects/(string: project)/changes/
Returns a list of project changes. This is essentially a project scoped GET /api/changes/ accepting same
params.
Parameters
project (string) -- ???????? URL ?????
Response JSON Object
results (array) -- array of component objects; see GET /api/changes/(int:id)/
GET /api/projects/(string: project)/repository/
Returns information about VCS repository status. This endpoint contains only an overall summary for all repos-
itories for the project. To get more detailed status use GET /api/components/(string:project)/
(string:component)/repository/.
Parameters
project (string) -- 22.22.22 URL 22.22
Response JSON Object
needs_commit (boolean) -- whether there are any pending changes to commit
needs_merge (boolean) -- whether there are any upstream changes to merge
needs_push (boolean) -- whether there are any local changes to push
Example JSON data:
     "needs_commit": true,
     "needs_merge": false,
     "needs_push": true
```

```
POST /api/projects/(string: project)/repository/
```

```
Performs given operation on the VCS repository.
Parameters
project (string) -- ??????? URL ?????
Request JSON Object
```

operation (string) -- Operation to perform: one of push, pull, commit, reset, cleanup Response JSON Object

result (boolean) -- result of the operation

CURL example:

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

JSON request example:

```
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 response example:

```
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/

Returns a list of translation components in the given project.

Parameters

```
project (string) -- 222222 URL 2222
Response JSON Object
```

results (array) -- array of component objects; see GET /api/components/(string:project)/
(string:component)/

POST /api/projects/(string: project)/components/

2022 4.3 202: The zipfile and docfile parameters are now accepted for VCS less components, see 2022 2022.

Creates translation components in the given project.

Most of the component creation happens in the background. Check the task_url attribute of created component and follow the progress there.

Parameters

```
project (string) -- ???????? URL ?????
Request JSON Object
```

zipfile (file) -- ZIP file to upload into Weblate for translations initialization

docfile (file) -- ?????????????

Response JSON Object

result (object) -- Created component object; see GET /api/components/(string:project)/
(string:component)/

CURL example:

```
curl \
    --data-binary '{
        "branch": "master",
        "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 request example:

```
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": "master",
    "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 response example:

```
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": "master",
    "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/
Returns paginated statistics for all languages within a project.
22222 3.8 222.
Parameters
project (string) -- ??????? URL ?????
Response JSON Object
results (array) -- array of translation statistics objects
language (string) -- language name
code (string) -- language code
total (int) -- total number of strings
translated (int) -- number of translated strings
translated_percent (float) -- percentage of translated strings
total_words (int) -- total number of words
translated_words (int) -- number of translated words
words_percent (float) -- percentage of translated words
GET /api/projects/(string: project)/statistics/
Returns statistics for a project.
?????? 3.8 ????.
Parameters
project (string) -- ??????? URL ?????
Response JSON Object
total (int) -- total number of strings
translated (int) -- number of translated strings
translated_percent (float) -- percentage of translated strings
total_words (int) -- total number of words
translated words (int) -- number of translated words
words_percent (float) -- percentage of translated words
????????
GET /api/components/
Returns a list of translation components.
Component object attributes are documented at GET
                                                   /api/components/(string:project)/
(string:component)/.
GET /api/components/(string: project)/
string: component/ Returns information about translation component.
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
Response JSON Object
project (object) -- the translation project; see GET /api/projects/(string:project)/
name (string) -- ?????????
slug (string) -- ????????????
vcs (string) -- ????????????
repo (string) -- ????????????
branch (string) -- 222222222
push_branch (string) -- ?????? push
filemask (string) -- File mask
```

```
edit_template(string) -- ??????????
intermediate (string) -- 22222222
new_base (string) -- ?????????????
file_format (string) -- ???????
license (string) -- ??????????
agreement (string) -- ????????
new_lang (string) -- ?????????
language_code_style (string) -- 22222
source_language (object) -- source language
                                               object;
                                                       see GET
                                                                   /api/languages/
(string:language)/
push (string) -- ????????? URL
check flags(string) -- ???????
priority(string) -- 2222
enforced_checks (string) -- ???????
restricted (string) -- Restricted access
repoweb (string) -- ?????? ??????
report_source_bugs (string) -- 22222222222
merge_style (string) -- ????????
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)-- 2222222222
enable_suggestions (string) -- ????????
suggestion_voting(string) -- ????????
suggestion_autoaccept (string) -- ????????
push on commit(string) -- 222222222222
auto_lock_error(string) -- ?????????
language_regex (string) -- 22222222
variant_regex (string) -- ????????
repository_url (string) -- URL to repository status;
                                                      see GET
                                                                  /api/components/
(string:project)/(string:component)/repository/
translations_url (string) -- URL to translations list; see GET
                                                                  /api/components/
(string:project)/(string:component)/translations/
lock_url (string) -- URL to lock status; see GET /api/components/(string:project)/
(string:component)/lock/
changes_list_url (string) -- URL to changes list; see GET
                                                                  /api/components/
(string:project)/(string:component)/changes/
task_url (string) -- URL to a background task (if any); see GET /api/tasks/(str:uuid)/
Example JSON data:
    "branch": "master",
    "file_format": "po"
    "filemask": "po/*.po",
    "git_export": "",
    "license": ""
    "license_url": "",
    "name": "Weblate",
```

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```
"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/",
         "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 / Edit a component by a PATCH request.
Parameters
```

```
Parameters

project (string) -- 222222 URL 2222

component (string) -- 2222222 URL 2222

source_language (string) -- Project source language code (optional)
```

Request JSON Object

name (string) -- Project source language code (optional Request JSON) -- name of component

CURL example:

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

JSON request example:

```
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 response example:

```
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": "master",
    "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/ Edit a component by a PUT request.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
Request JSON Object
branch (string) -- VCS repository branch
file_format (string) -- file format of translations
filemask (string) -- mask of translation files in the repository
name (string) -- name of component
slug (string) -- ???????????????
repo (string) -- VCS repository URL
template (string) -- base file for monolingual translations
new base (string) -- base file for adding new translations
vcs (string) -- version control system
DELETE /api/components/(string: project)/
string: component/ 22.22.2 3.9 2.22.
Deletes a component.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
```

```
GET /api/components/(string: project)/
string: component/changes/ Returns a list of component changes. This is essentially a component scoped GET /api/changes/ accepting same params.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
Response JSON Object
results (array) -- array of component objects; see GET /api/changes/(int:id)/
GET /api/components/(string: project)/
string: component/screenshots/ Returns a list of component screenshots.
Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
Response JSON Object
results (array) -- array of component screenshots; see GET /api/screenshots/(int:id)/
GET /api/components/(string: project) /
string: component/lock/ Returns component lock status.
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
Response JSON Object
locked (boolean) -- whether component is locked for updates
Example JSON data:
     "locked": false
POST /api/components/(string: project)/
string: component/lock/ Sets component lock status.
Response is same as GET /api/components/(string:project)/(string:component)/lock/.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
Request JSON Object
lock -- Boolean whether to lock or not.
CURL example:
curl
     -d lock=true \
     -H "Authorization: Token TOKEN" \
    http://example.com/api/components/hello/weblate/repository/
```

JSON request example:

```
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 response example:

```
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
```

```
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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/ Returns information about VCS repository status.
The response is same as for GET /api/projects/(string:project)/repository/.
Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
Response JSON Object
needs_commit (boolean) -- whether there are any pending changes to commit
needs_merge (boolean) -- whether there are any upstream changes to merge
needs push (boolean) -- whether there are any local changes to push
remote_commit (string) -- Remote commit information
status (string) -- VCS repository status as reported by VCS
merge_failure -- Text describing merge failure or null if there is none
POST /api/components/(string: project)/
string: component/repository/ Performs the given operation on a VCS repository.
See POST /api/projects/(string:project)/repository/for documentation.
Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
Request JSON Object
operation (string) -- Operation to perform: one of push, pull, commit, reset, cleanup
Response JSON Object
result (boolean) -- result of the operation
CURL example:
curl \
```

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

JSON request example:

```
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 response example:

```
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/ Downloads base file for monolingual translations.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
GET /api/components/(string: project)/
string: component/new_template/ Downloads template file for new translations.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
GET /api/components/(string: project)/
string: component/translations/ Returns a list of translation objects in the given component.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
Response JSON Object
results (array) -- array of translation objects; see GET /api/translations/(string:project)/
(string:component)/(string:language)/
POST /api/components/(string: project)/
string: component/translations/ Creates new translation in the given component.
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
Request JSON Object
language_code (string) -- translation language code; see GET
                                                                            /api/languages/
(string:language)
Response JSON Object
result (object) -- new translation object created
CURL example:
curl
     -d language_code=cs \
     -H "Authorization: Token TOKEN" \
     http://example.com/api/projects/hello/components/
```

JSON request example:

```
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 response example:

```
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,
```

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```
"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/ Returns paginated statistics for all translations within component.
?????? 2.7 ????.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
Response JSON Object
results (array) -- array of translation statistics objects; see GET
                                                            /api/translations/
(string:project)/(string:component)/(string:language)/statistics/
?
GET /api/translations/
Returns a list of translations.
Translation object attributes are documented at GET
                                           /api/translations/(string:project)/
(string:component)/(string:language)/.
GET /api/translations/(string: project)/
string: component/string: language/ Returns information about a translation.
Parameters
component (string) -- 2222222 URL 2222
language (string) -- Translation language code
Response JSON Object
component (object) -- component object; see GET /api/components/(string:project)/
(string:component)/
failing_checks (int) -- ??????????????
failing_checks_percent (float) -- 22222222222
```

```
filename (string) -- translation filename
fuzzy_percent (float) -- percentage of fuzzy (marked for edit) strings
fuzzy_words (int) -- number of words in fuzzy (marked for edit) strings
have comment (int) -- number of strings with comment
have_suggestion (int) -- number of strings with suggestion
is_template (boolean) -- 22222222222
language (object) -- source language object; see GET /api/languages/(string:language)/
language_code (string) -- language code used in the repository; this can be different from language code in
the language object
last_author (string) -- name of last author
last change (timestamp) -- last change timestamp
revision (string) -- revision hash for the file
share_url (string) -- URL for sharing leading to engagement page
total (int) -- total number of strings
total_words (int) -- total number of words
translate_url (string) -- URL for translating
translated (int) -- number of translated strings
translated_percent (float) -- percentage of translated strings
translated_words (int) -- number of translated words
repository_url (string) -- URL to repository status; see GET /api/translations/
(string:project)/(string:component)/(string:language)/repository/
file_url (string) -- URL to file object; see GET /api/translations/(string:project)/
(string:component)/(string:language)/file/
changes_list_url (string) -- URL to changes list; see GET
                                                                    /api/translations/
(string:project)/(string:component)/(string:language)/changes/
units_list_url (string) -- URL to strings list; see GET
                                                                    /api/translations/
(string:project)/(string:component)/(string:language)/units/
```

Example JSON data:

```
"component": {
    "branch": "master",
    "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/ 2222 3.9 222.
Deletes a translation.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
language (string) -- Translation language code
GET /api/translations/(string: project)/
string: component/string: language/changes/ Returns a list of translation changes. This is essentially
a translations-scoped GET /api/changes/accepting the same parameters.
Parameters Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ????
language (string) -- Translation language code
Response JSON Object
results (array) -- array of component objects; see GET /api/changes/(int:id)/
GET /api/translations/(string: project)/
string: component/string: language/units/ Returns a list of translation units.
Parameters
project (string) -- ??????? URL ?????
component (string) -- 2222222 URL 2222
language (string) -- Translation language code
q (string) -- Search query string [2]? (optional)
Response JSON Object
results (array) -- array of component objects; see GET /api/units/(int:id)/
```

```
POST /api/translations/(string: project)/
string: component/string: language/units/ Add new monolingual unit.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
language (string) -- Translation language code
Request JSON Object
key (string) -- Name of translation unit
value (string) -- The translation unit value
POST /api/translations/(string: project)/
string: component/string: language/autotranslate/ Trigger automatic translation.
project (string) -- ??????? URL ?????
component (string) -- 222222 URL 2222
language (string) -- Translation language code
Request JSON Object
mode (string) -- ?????????
filter_type (string) -- Automatic translation filter type
auto_source (string) -- 2222222
engines (string) -- 2222222
threshold (string) -- ?????????
GET /api/translations/(string: project)/
string: component/string: language/file/ Download current translation file as stored in VCS (without
format parameter) or as converted to a standard format (currently supported: Gettext PO, MO, XLIFF and TBX).
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.
Query Parameters
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) -- 222222 URL 2222
component (string) -- ???????? URL ?????
language (string) -- Translation language code
POST /api/translations/(string: project)/
string: component/string: language/file/ Upload new file with translations.
Parameters
project (string) -- 222222 URL 2222
component (string) -- 2222222 URL 2222
language (string) -- Translation language code
Form Parameters
string conflicts -- How to deal with conflicts (ignore, replace-translated or replace-
approved)
file file -- Uploaded file
string email -- ??????????????
string author -- ?????
string method -- 2020202020 (translate 2 approve 2 suggest 2 fuzzy 2 replace, source) 2020
see |?||?||?||?||?||?||?
string fuzzy -- Fuzzy (marked for edit) strings processing (empty, process, approve)
CURL example:
```

```
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/ Returns information about VCS repository status.
The response is same as for GET /api/components/(string:project)/(string:component)/
repository/.
Parameters
project (string) -- 222222 URL 2222
language (string) -- Translation language code
POST /api/translations/(string: project)/
string: component/string: language/repository/ Performs given operation on the VCS repository.
See POST /api/projects/(string:project)/repository/for documentation.
Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
language (string) -- Translation language code
Request JSON Object
operation (string) -- Operation to perform: one of push, pull, commit, reset, cleanup
Response JSON Object
result (boolean) -- result of the operation
GET /api/translations/(string: project)/
string: component/string: language/statistics/ Returns detailed translation statistics.
?????? 2.7 ????.
Parameters
project (string) -- 222222 URL 2222
component (string) -- ???????? URL ?????
language (string) -- Translation language code
Response JSON Object
code (string) -- language code
failing (int) -- number of failing checks
failing_percent (float) -- percentage of failing checks
fuzzy_percent (float) -- percentage of fuzzy (marked for edit) strings
total_words (int) -- total number of words
translated words (int) -- number of translated words
last_author (string) -- name of last author
last_change (timestamp) -- date of last change
name (string) -- language name
total (int) -- total number of strings
translated (int) -- number of translated strings
translated_percent (float) -- percentage of translated strings
url (string) -- URL to access the translation (engagement URL)
url_translate (string) -- URL to access the translation (real translation URL)
```

Units

```
?????? 2.10 ????.
GET /api/units/
Returns list of translation units.
Unit object attributes are documented at GET /api/units/(int:id)/.
GET /api/units/(int: id)/
20222 4.3 222: The target and source are now arrays to properly handle plural strings.
Returns information about translation unit.
Parameters
id (int) -- Unit ID
Response JSON Object
translation (string) -- URL of a related translation object
source (array) -- source string
previous_source (string) -- previous source string used for fuzzy matching
target (array) -- target string
id_hash (string) -- unique identifier of the unit
content_hash (string) -- unique identifier of the source string
location (string) -- location of the unit in source code
context (string) -- translation unit context
note (string) -- translation unit note
flags (string) -- translation unit flags
state (int) -- unit state, 0 - not translated, 10 - needs editing, 20 - translated, 30 - approved, 100 - read only
fuzzy (boolean) -- 22222 "fuzzy" 2222222222222222
position (int) -- unit position in translation file
num_words (int) -- number of source words
priority (int) -- translation priority; 100 is default
id (int) -- unit identifier
explanation (string) -- String explanation, available on source units, see Additional info on source strings
web_url (string) -- URL where the unit can be edited
souce_unit (string) -- Source unit link; see GET /api/units/(int:id)/
PATCH /api/units/(int: id)/
?????? 4.3 ????.
Parameters
id (int) -- Unit ID
Request JSON Object
state (int) -- unit state, 0 - not translated, 10 - needs editing, 20 - translated, 30 - approved (need review workflow
enabled, see ???????)
target (array) -- target string
explanation (string) -- String explanation, available on source units, see Additional info on source strings
```

```
PUT /api/units/(int: id)/
?????? 4.3 ????.
??????????????????
Parameters
id (int) -- Unit ID
Request JSON Object
state (int) -- unit state, 0 - not translated, 10 - needs editing, 20 - translated, 30 - approved (need review workflow
enabled, see ???????)
target (array) -- target string
explanation (string) -- String explanation, available on source units, see Additional info on source strings
DELETE /api/units/(int: id)/
?????? 4.3 ????.
??????????????
Parameters
id (int) -- Unit ID
??
??????? 2.10 ????.
GET /api/changes/
2222 4.1 222: 2222222222 4.1 22222222222
Returns a list of translation changes.
Change object attributes are documented at GET /api/changes/(int:id)/.
Query Parameters
user (string) -- Username of user to filters
action (int) -- Action to filter, can be used several times
timestamp_after (timestamp) -- ISO 8601 formatted timestamp to list changes after
timestamp_before (timestamp) -- ISO 8601 formatted timestamp to list changes before
GET /api/changes/(int: id)/
Returns information about translation change.
Parameters
id (int) -- Change ID
Response JSON Object
unit (string) -- URL of a related unit object
translation (string) -- URL of a related translation object
component (string) -- URL of a related component object
glossary_term (string) -- URL of a related glossary term object
user (string) -- URL of a related user object
author (string) -- URL of a related author object
timestamp (timestamp) -- event timestamp
action (int) -- numeric identification of action
action_name (string) -- text description of action
target (string) -- event changed text or detail
id (int) -- change identifier
```

??????????

```
?????? 2.14 ????.
GET /api/screenshots/
Returns a list of screenshot string information.
Screenshot object attributes are documented at GET /api/screenshots/(int:id)/.
GET /api/screenshots/(int: id)/
Returns information about screenshot information.
Parameters
id (int) -- Screenshot ID
Response JSON Object
name (string) -- name of a screenshot
component (string) -- URL of a related component object
file_url(string) -- URL to download a file; see GET /api/screenshots/(int:id)/file/
units (array) -- link to associated source string information; see GET /api/units/(int:id)/
GET /api/screenshots/(int: id)/file/
Download the screenshot image.
Parameters
id (int) -- Screenshot ID
POST /api/screenshots/(int: id)/file/
Replace screenshot image.
Parameters
id (int) -- Screenshot ID
Form Parameters
file image -- Uploaded file
CURL example:
curl -X POST \
    -F image=@image.png \
    -H "Authorization: Token TOKEN" \
    http://example.com/api/screenshots/1/file/
POST /api/screenshots/(int: id)/units/
Associate source string with screenshot.
Parameters
id (int) -- Screenshot ID
Form Parameters
string unit_id -- Unit ID
Response JSON Object
name (string) -- name of a screenshot
translation (string) -- URL of a related translation object
file url(string) -- URL to download a file; see GET /api/screenshots/(int:id)/file/
units (array) -- link to associated source string information; see GET /api/units/(int:id)/
DELETE /api/screenshots/(int: id)/units/
Parameters
id (int) -- Screenshot ID
unit_id -- ??????? ID
POST /api/screenshots/
Creates a new screenshot.
Form Parameters
file image -- Uploaded file
string name -- ??????????????
```

string project_slug -- 22222222222

```
string component_slug -- ???????????????
string language_code -- ???????
Response JSON Object
name (string) -- name of a screenshot
component (string) -- URL of a related component object
file_url(string) -- URL to download a file; see GET /api/screenshots/(int:id)/file/
units (array) -- link to associated source string information; see GET /api/units/(int:id)/
PATCH /api/screenshots/(int: id)/
Parameters
id (int) -- Screenshot ID
Response JSON Object
name (string) -- name of a screenshot
component (string) -- URL of a related component object
file_url (string) -- URL to download a file; see GET /api/screenshots/(int:id)/file/
units (array) -- link to associated source string information; see GET /api/units/(int:id)/
PUT /api/screenshots/(int: id)/
Parameters
id (int) -- Screenshot ID
Response JSON Object
name (string) -- name of a screenshot
component (string) -- URL of a related component object
file_url (string) -- URL to download a file; see GET /api/screenshots/(int:id)/file/
units (array) -- link to associated source string information; see GET /api/units/(int:id)/
DELETE /api/screenshots/(int: id)/
Parameters
id (int) -- Screenshot ID
????
?????? 4.4.1 ????.
GET /api/addons/
Returns a list of addons.
??:
Addon object attributes are documented at GET /api/addons/(int:id)/.
GET /api/addons/(int: id)/
Returns information about addon information.
Parameters
id (int) -- Addon ID
Response JSON Object
name (string) -- name of an addon
component (string) -- URL of a related component object
configuration (object) -- Optional addon configuration
POST /api/components/(string: project)/
string: component/addons/ Creates a new addon.
Parameters
component slug(string) -- 22222222222
Request JSON Object
name (string) -- name of an addon
```

```
configuration (object) -- Optional addon configuration
PATCH /api/addons/(int: id)/
Edit partial information about addon.
Parameters
id (int) -- Addon ID
Response JSON Object
configuration (object) -- Optional addon configuration
PUT /api/addons/(int: id)/
Edit full information about addon.
Parameters
id (int) -- Addon ID
Response JSON Object
configuration (object) -- Optional addon configuration
DELETE /api/addons/(int: id)/
Delete addon.
Parameters
id (int) -- Addon ID
22222 4.0 222.
GET /api/component-lists/
GET /api/component-lists/(str: slug)/
Returns information about component list.
Parameters
slug (string) -- ???????? ?????????
Response JSON Object
name (string) -- name of a component list
slug (string) -- ???????? ?????????
show_dashboard (boolean) -- whether to show it on a dashboard
components (array) -- link to associated components;
                                                       see GET
                                                                   /api/components/
(string:project)/(string:component)
auto_assign (array) -- automatic assignment rules
PUT /api/component-lists/(str: slug)/
Changes the component list parameters.
Parameters
slug(string) - ??????????????????
Request JSON Object
name (string) -- name of a component list
show_dashboard (boolean) -- whether to show it on a dashboard
PATCH /api/component-lists/(str: slug)/
Changes the component list parameters.
Parameters
slug (string) -- ???????? ?????????
Request JSON Object
name (string) -- name of a component list
slug (string) -- ???????? ????????
show_dashboard (boolean) -- whether to show it on a dashboard
DELETE /api/component-lists/(str: slug) /
Deletes the component list.
```

97

component_slug (string) -- 2222222222

???

GET /api/glossary/

Returns a list of all glossaries which are associated with a project that user has access to.

|?||?|

Language object attributes are documented at GET /api/languages/(string:language)/.

projects (array) -- link to associated projects; see GET /api/projects/(string:project)/

Example JSON data:

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

```
"slug": "hello",
         "id": 1,
         "source_language": {
             "code": "en",
"name": "English",
             "plural": {
    "id": 75,
                  "source": 0,
                  "number": 2,
"formula": "n != 1",
                  "type": 1
              "aliases": [
                  "english",
                  "en_en",
                  "base",
                  "source",
                  "eng"
             "direction": "ltr",
             "web_url": "http://example.com/languages/en/",
"url": "http://example.com/api/languages/en/",
             "statistics_url": "http://example.com/api/languages/en/
→statistics/"
         "url": "http://example.com/api/projects/demo1/",
"components_list_url": "http://example.com/api/projects/demo1/

→components/
         "repository url": "http://example.com/api/projects/demo1/
∽repository/"
         "statistics_url": "http://example.com/api/projects/demo1/
→statistics/",
         "changes_list_url": "http://example.com/api/projects/demo1/changes/
\hookrightarrow",
         "languages_url": "http://example.com/api/projects/demo1/languages/"
    "projects_url": "http://example.com/api/glossary/7/projects/",
    "terms_url": "http://example.com/api/glossary/7/terms/",
    "url": "http://example.com/api/glossary/7/"
PUT /api/glossary/(int: id)/
Parameters
id (int) -- ???? id
Request JSON Object
name (string) -- ????
color (string) -- Language direction
source_language (object) -- Language plural details
PATCH /api/glossary/(int: id)/
Parameters
id (int) -- ???? id
Request JSON Object
name (string) -- ????
color (string) -- Language direction
source_language (object) -- Language plural details
DELETE /api/glossary/(int: id)/
??????????
Parameters
id (int) -- ???? id
```

```
GET /api/glossary/(int: id)/projects/
Returns projects linked with a glossary.
Parameters
id (int) -- ???? id
Response JSON Object
projects (array) -- 2020 2020 2020 2020 / api/projects/(string:project)/
Parameters
id (int) -- ???? id
Form Parameters
string project_slug -- ?????????????
Parameters
id (int) -- ???? id
Form Parameters
string project_slug -- 22222222222
GET /api/glossary/(int: id)/terms/
Parameters
id (int) -- ???? id
id (int) -- ???? id
Request JSON Object
language (object) -- ??????
source (string) -- ??????
target (string) -- 22222222222
Parameters
id (int) -- ???? id
term_id (int) -- ID of term
Parameters
id (int) -- ???? id
term_id (int) -- ID of term
Request JSON Object
language (object) -- ??????
source (string) -- ???????
target (string) -- 22.22.22.22.22
PATCH /api/glossary/(int: id)/terms/
Parameters
id (int) -- ???? id
term_id (int) -- ID of term
Request JSON Object
language (object) -- ??????
```

source (*string*) -- ???????

target (string) -- ??????????????

```
DELETE /api/glossary/(int: id)/terms/int: term_id/ Delete a term associated with a glossary. Parameters
id(int)-- ???? id
term id(int)-- ID of term
```

Tasks

?????? 4.4 ????.

GET /api/tasks/(str: uuid)/

Parameters

uuid (string) -- Task UUID Response JSON Object

completed (boolean) -- 222222222222

 $\textbf{progress}\ (\textit{int}) - \text{Task progress in percent}$

log(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/ 2020 2.6 2020: Please use POST /api/components/(string:project)/ (string:component)/repository/ instead which works properly with authentication for ACL limited projects.

Triggers update of a component (pulling from VCS and scanning for translation changes).

GET /hooks/update/(string: project)/

22222 2.6 2222: Please use POST /api/projects/(string:project)/repository/instead which works properly with authentication for ACL limited projects.

Triggers update of all components in a project (pulling from VCS and scanning for translation changes).

POST /hooks/github/

Special hook for handling GitHub notifications and automatically updating matching components.

[2]: 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/free-pro-team@latest/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/ce/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 ????????????

https://docs.pagure.org/pagure/usage/using_webhooks.html Pagure WEB 222222222222

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/
Query Parameters
format (string) -- Output format: either json or csv
22222 2.6 2222: Please use GET /api/components/(string:project)/(string:component)/
                        /api/translations/(string:project)/(string:component)/
statistics/ and GET
(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/master/ 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/

master/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/

master/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/

master/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 ????:

?

```
pip3 install wlc
```

Docker ???

??????:

```
docker pull weblate/wlc
```

```
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 [2][2][2][2] 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

????

??? ~/.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]

?

????????API ????????????Weblate Python Weblate

??

--format {csv, json, text, html} ?????????

--url URL

hosted.weblate.org/api/[]

--config-section SECTION

????

?????????

version

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

list-projects

list-components

Weblate 227.22222222222

list-translations

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

commit

reset

?????? 0.7 ????: wlc 0.7 ??????

cleanup

?????? 0.9 ????: wlc 0.9 ??????

statistics

lock-status

?????? 0.5 ????: wlc 0.5 ??????

???????????

?????? 0.5 ????: wlc 0.5 ??????

??????? 0.5 ????: wlc 0.5 ???????

changes

download

?????? 0.7 ????: wlc 0.7 ??????

-convert

--output

upload

?[?]?[?]? 0.9 ?[?]?: wlc 0.9 ?[?]?[?]?

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

--overwrite

--input

??????

?????? 1.6 ???? ????? .ini ????????????????

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

?????? 1.6 ????.

?????????

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

[weblate] 22222222222 --config-section 222222222222:

key

Weblate ?????????? API ????

url

API ?????? URL?????? http://127.0.0.1:8000/api/?

translation

??????????? INI ????:

[weblate]

```
url = https://hosted.weblate.org/api/
key = APIKEY
translation = weblate/master
```

2222API 22222 [keys] 2222222222:

[keys]

```
https://hosted.weblate.org/api/ = APIKEY
```

?

??????????????????:

```
$ 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/master
$ wlc show
branch: master
file_format: po
source_language: en
filemask: weblate/locale/*/LC_MESSAGES/django.po
git_export: https://hosted.weblate.org/git/weblate/master/
license: GPL-3.0+
license_url: https://spdx.org/licenses/GPL-3.0+
name: master
new_base: weblate/locale/django.pot
project: weblate
repo: git://github.com/WeblateOrg/weblate.git
slug: master
template:
url: https://hosted.weblate.org/api/components/weblate/master/
vcs: git
web_url: https://hosted.weblate.org/projects/weblate/master/
```


\$ wlc commit

Weblate ? Python API

?

```
pip install wlc
```

wlc

WeblateException

exception wlc.WeblateException 222222222222

Weblate

????? object ???? API GET ????????????? wlc.config WeblateConfig

class wlc.config.WeblateConfig(section='wlc') ?????

section (str) -- ???????????????

load (path=None)

?????

path (str) -- ??????????????

config/wlc ?????????????

wlc.main

wlc.main.main (settings=None, stdout=None, args=None)

2222 222 22222222222 2222 2222

Command

class wlc.main.**Command** (args, config, stdout=None)

????????

????

Weblate ???????

Installing using 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 all contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2 GB of 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_SERVER_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
```

12: 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.

22222 2.15-2 2222: 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.

22222 3.7.1-6 222: 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

Docker container with HTTPS support

Please see [2] 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:

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:

```
docker-compose stop
docker-compose pull
docker-compose up
```

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

Docker environment variables

Many of Weblate's [272] can be set in the Docker container using environment variables:

Generic settings

WEBLATE_DEBUG

Configures Django debug mode using DEBUG.

?

```
environment:
    WEBLATE_DEBUG: 1
```

??:

Disable debug mode.

WEBLATE LOGLEVEL

Configures the logging verbosity.

WEBLATE_SITE_TITLE

Changes the site-title shown in the header of all pages.

WEBLATE_SITE_DOMAIN

???????<u>?</u>?????<u>?</u>???

?!?!: In case it is not set, the first item from WEBLATE ALLOWED HOSTS is used.

??:

Set correct 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

??:

???????? ???Properly configure admins? 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, WE-BLATE_ADMIN_NAME and WEBLATE_ADMIN_EMAIL.

12: 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.

??:

2222222 22 WEBLATE_ADMIN_PASSWORD WEBLATE_ADMIN_NAME WEBLATE_ADMIN_EMAIL

WEBLATE_SERVER_EMAIL

WEBLATE DEFAULT FROM EMAIL

Configures the address for outgoing e-mails.

22:

Configure e-mail sending

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 Allowed hosts setup Set correct site domain

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 REGISTRA-TION_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 Set correct site domain 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

replaces any hypnens with under

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.

77

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 LO-GIN 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

WEBLATE PAGURE TOKEN

??:

Pagure

WEBLATE_SIMPLIFY_LANGUAGES

Configures the language simplification policy, see SIMPLIFY_LANGUAGES.

WEBLATE_DEFAULT_ACCESS_CONTROL

Configures the default 22222 for new projects, see DEFAULT_ACCESS_CONTROL.

WEBLATE_DEFAULT_RESTRICTED_COMPONENT

Configures the default value for *Restricted access* for new components, see *DE-FAULT_RESTRICTED_COMPONENT*.

WEBLATE_DEFAULT_TRANSLATION_PROPAGATION

WEBLATE_DEFAULT_COMMITER_EMAIL

Configures DEFAULT_COMMITER_EMAIL.

WEBLATE_DEFAULT_COMMITER_NAME

Configures DEFAULT_COMMITER_NAME.

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.

??:

Content security policy \(\mathbb{C}\)CSP_SCRIPT_SRC \(\mathbb{C}\)CSP_IMG_SRC \(\mathbb{C}\)CSP_CONNECT_SRC \(\mathbb{C}\)CSP_STYLE_SRC \(\mathbb{C}\)CSP_FONT_SRC

WEBLATE LICENSE FILTER

LICENSE_FILTER ?????

WEBLATE_HIDE_VERSION

HIDE_VERSION ?????

WEBLATE_BASIC_LANGUAGES

BASIC_LANGUAGES ?????

Machine translation settings

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_VERSION

2222 DeepL API 2222222222222 MT_DEEPL_API_VERSION?

WEBLATE_MT_GOOGLE_KEY

Enables Google Translate and sets MT_GOOGLE_KEY

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

Enables *Glosbe* machine translation.

```
environment:
WEBLATE_MT_GLOSBE_ENABLED: 1
```

WEBLATE MT MICROSOFT TERMINOLOGY ENABLED

Enables Microsoft Terminology Service machine translation.

```
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.

Authentication settings

LDAP

```
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_UNION
WEBLATE_AUTH_LDAP_USER_SEARCH_UNION
WEBLATE_AUTH_LDAP_USER_SEARCH_UNION
WEBLATE_AUTH_LDAP_USER_SEARCH_UNION_DELIMITER
LDAP authentication configuration.
```

Example for direct bind:

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:

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 authentication

GitHub

```
WEBLATE_SOCIAL_AUTH_GITHUB_KEY
WEBLATE_SOCIAL_AUTH_GITHUB_SECRET
Enables GitHub authentication.
```

Bitbucket

```
WEBLATE_SOCIAL_AUTH_BITBUCKET_KEY
WEBLATE_SOCIAL_AUTH_BITBUCKET_SECRET
Enables Bitbucket authentication.
```

Facebook

```
WEBLATE_SOCIAL_AUTH_FACEBOOK_KEY
WEBLATE_SOCIAL_AUTH_FACEBOOK_SECRET
Enables 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
Enables Google OAuth 2.

GitLab

WEBLATE_SOCIAL_AUTH_GITLAB_KEY
WEBLATE_SOCIAL_AUTH_GITLAB_SECRET
WEBLATE_SOCIAL_AUTH_GITLAB_API_URL
Enables 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 authentication.

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_USER

PostgreSQL username.

POSTGRES_DATABASE

PostgreSQL database name.

POSTGRES_HOST

 $\underline{\text{PostgreSQL}} \underline{\text{server hostname or IP address.}} \, \, \underline{\text{Defaults to database.}}$

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* 2222222 Webrate 222.

Database backup settings

??:

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.

??:

Enable caching

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?DEMAIL_HOST

WEBLATE_EMAIL_PORT

Mail server port, defaults to 25.

??:

EMAIL_PORT

WEBLATE_EMAIL_HOST_USER

22222222

??:

EMAIL_HOST_USER

WEBLATE EMAIL_HOST_PASSWORD

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

??:

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 <code>WEBLATE_EMAIL_USE_TLS</code>.

22

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.

??:

Configure e-mail sending PEMAIL_BACKEND

Error reporting

It is recommended to collect errors from the installation systematically, see Collecting error reports.

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

???????

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 matches the number of processors (except the backup worker, which is supposed to run only once).

??

```
environment:
CELERY_MAIN_OPTIONS: --concurrency 16
```

??:

Celery worker options Background tasks using Celery

UWSGI_WORKERS

Configure how many uWSGI workers should be executed.

It defaults to number of processors + 1.

??

```
environment:
   UWSGI_WORKERS: 32
```

In case you have a lot of CPU cores and hit out of memory issues, try reducing number of workers:

```
environment:
   UWSGI_WORKERS: 4
   CELERY_MAIN_OPTIONS: --concurrency 2
   CELERY_NOTIFY_OPTIONS: --concurrency 1
   CELERY_TRANSLATE_OPTIONS: --concurrency 1
```

Docker container volumes

There is single data volume 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/. In the container it is mounted as /app/data.

??:

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 after all environment settings are loaded, so it gets completely set up, and can be used to customize anything.

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

Select your machine - local or cloud providers

With Docker Machine you can create your Weblate deployment either on your local machine, or on any large number of cloud-based deployments on e.g. Amazon AWS, Greenhost, and many other providers.

Installing on Debian and Ubuntu

Hardware requirements

Weblate should run on all contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2 GB of 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 2222222):

Install wanted optional dependencies depending on features you intend to use (see 202020202020):

```
apt install tesseract-ocr libtesseract-dev libleptonica-dev
```

Optionally install software for running production server, see *Running server*, *Weblate 222222222*, *Background tasks using 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

# 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 dependencies:

pip install Weblate

4.Install database driver:

pip install psycopg2-binary

5.Install wanted optional dependencies depending on features you intend to use (some might require additional system libraries, check [2][2][2][2][2][2]:

pip install ruamel.yaml aeidon boto3 zeep chardet tesserocr

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.

- $1. Copy the file \verb|--weblate-env/lib/python3.7/site-packages/weblate/settings_example. \\ py to \verb|--weblate-env/lib/python3.7/site-packages/weblate/settings.py.$

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 Running server and Serving static files):

weblate collectstatic

6. Compress JavaScript and CSS files (optional, see *Compressing client assets*):

weblate compress

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Background tasks using Celery* for more info:

~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start

8.Start the development server (see *Running server* 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 *Management commands*.

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on /manage/performance/ URL or using weblate check --deploy, see *Production setup*.

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 *Supported file formats* 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 all contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2 GB of 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 2222222):

Install wanted optional dependencies depending on features you intend to use (see 22/22/22/22):

```
zypper install tesseract-ocr tesseract-devel leptonica-devel
```

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 dependencies:

```
pip install Weblate
```

4.Install database driver:

```
pip install psycopg2-binary
```

5.Install wanted optional dependencies depending on features you intend to use (some might require additional system libraries, check [2][2][2][2][2][2]:

```
pip install ruamel.yaml aeidon boto3 zeep chardet tesserocr
```

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.

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 *Running server* and *Serving static files*):

weblate collectstatic

6. Compress JavaScript and CSS files (optional, see Compressing client assets):

weblate compress

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Background tasks using Celery* for more info:

~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start

8.Start the development server (see *Running server* 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 *Management commands*.

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on /manage/performance/ URL or using weblate check --deploy, see *Production setup*.

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 *Supported file formats* 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 all contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2 GB of 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.

22: 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 2222222):

Install wanted optional dependencies depending on features you intend to use (see 22/21/21/21/21/21):

```
dnf install tesseract-langpack-eng tesseract-devel leptonica-devel
```

Optionally install software for running production server, see *Running server*, *Weblate 2020202020*, *Background tasks using 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 dependencies:

```
pip install Weblate
```

4.Install database driver:

pip install psycopg2-binary

5.Install wanted optional dependencies depending on features you intend to use (some might require additional system libraries, check 222222222):

pip install ruamel.yaml aeidon boto3 zeep chardet tesserocr

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 \sim /weblate-env/lib/python3.7/site-packages/weblate/settings_example.py to \sim /weblate-env/lib/python3.7/site-packages/weblate/settings.py.
- 3.Create the database and its structure for Weblate (the example settings use PostgreSQL, check *Weblate 202020202* 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 *Running server* and *Serving static files*):

weblate collectstatic

6. Compress JavaScript and CSS files (optional, see *Compressing client assets*):

weblate compress

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Background tasks using Celery* for more info:

~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start

8.Start the development server (see *Running server* 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 *Management commands*.

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on /manage/performance/ URL or using weblate check --deploy, see *Production setup*.

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 *Supported file formats* 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 all contemporary hardware without problems, the following is the minimal configuration required to run Weblate on a single host (Weblate, database and webserver):

2 GB of 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 2222222):

```
brew install pango libjpeg python git libyaml gobject-introspection 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 22222222222):

```
brew install tesseract
```

Optionally install software for running production server, see *Running server*, *Weblate 2020202020*, *Background tasks using 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
brew install nginx uwsgi
# Web server option 2: Apache with ``mod_wsgi``
```

(????????)

(22222222)

```
brew install httpd

# Caching backend: Redis
brew install redis

# Database server: PostgreSQL
brew install postgresql
```

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 dependencies:

```
pip install Weblate
```

4.Install database driver:

```
pip install psycopg2-binary
```

5.Install wanted optional dependencies depending on features you intend to use (some might require additional system libraries, check 2020202020):

```
pip install ruamel.yaml aeidon boto3 zeep chardet tesserocr
```

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 \sim /weblate-env/lib/python3.7/site-packages/weblate/settings_example.py to \sim /weblate-env/lib/python3.7/site-packages/weblate/settings.py.
- 3. Create the database and its structure for Weblate (the example settings use PostgreSQL, check *Weblate* 222222222 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 Running server and Serving static files):

```
weblate collectstatic
```

6. Compress JavaScript and CSS files (optional, see Compressing client assets):

```
weblate compress
```

7.Start Celery workers. This is not necessary for development purposes, but strongly recommended otherwise. See *Background tasks using Celery* for more info:

~/weblate-env/lib/python3.7/site-packages/weblate/examples/celery start

8. Start the development server (see *Running server* 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 *Management commands*.

You can stop the test server with Ctrl+C.

Review potential issues with your installation either on /manage/performance/ URL or using weblate check --deploy, see *Production setup*.

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 *Supported file formats* 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.

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Installing on Debian and Ubuntu

Installing on SUSE and openSUSE

Installing on RedHat, Fedora and CentOS

2.Git 22.22 Weblate 22.22.22.22 tarball 22.22.22.22.22

git clone https://github.com/WeblateOrg/weblate.git weblate-src

git crone neeps://github.com/weblateorg/weblate.git weblate-sic

3.22 Weblate 222 virtualenv 22222222222

```
. ~/weblate-env/bin/activate pip install -e weblate-src
```

4.weblate/settings_example.py 2 weblate/settings.py 222222

```
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.

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:

The template is now available for selection using the web console or the CLI.

Parameters

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:

???????

You can also use the CLI to process templates and use the configuration that is generated to create objects immediately.

The Weblate instance should be available after successful migration and deployment at the specified WE-BLATE_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.

??

helm repo add weblate https://helm.weblate.org
helm install my-release weblate/weblate

Virtualenv ??????????????????:

Installing on Debian and Ubuntu

Installing on SUSE and openSUSE

Installing on RedHat, Fedora and CentOS

Installing on macOS

*222222222222***222222222222**

Installing on OpenShift

Installing on Kubernetes

????????

???????

PostgreSQL ??????? ??????? Weblate ??????????

2222222 222 Redis 222222 Background tasks using Celery?

??????? SMTP ???????? ??????????

Python ?????

?????????:

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/

??????????

https://www.mercurial-scm.org/

https://github.com/viraptor/phply

https://github.com/sirfz/tesserocr

https://github.com/ubernostrum/akismet

https://pypi.org/project/ruamel.yaml/

https://docs.python-zeep.org/

https://pypi.org/project/aeidon/

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https://git-scm.com/

https://cairographics.org/nhttps://pango.gnome.org/nngo.gnome.org/

https://pypi.org/project/git-review/

https://git-scm.com/docs/git-svn

https://github.com/tesseract-ocr/tesseract

https://github.com/licensee/licensee

????????

Pango ? Cairo

?????? 3.7 ????.

?????????

63CB 1DF1 EF12 CF2A C0EE 5A32 9C27 B313 42B7 511D

2222<https://keybase.io/nijel> 2222222222222222222

```
$ 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
```


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]
```



```
$ gpg --import wmxth3chu9jfxdxywj1skpmhsj311mzm
```



```
$ gpg --keyserver hkp://pgp.mit.edu --recv-keys_

$ 7E673AF83F6C3A0C344C8C3F4AA229D4D58C245

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
                    using RSA key 87E673AF83F6C3A0C344C8C3F4AA229D4D58C245
gpg: Good signature from "Michal Čihař <michal@cihar.com>" [ultimate]
                     aka "Michal Čihař <nijel@debian.org>" [ultimate]
gpg:
                     aka "[jpeg image of size 8848]" [ultimate]
apa:
                     aka "Michal Čihař (Braiins) <michal.cihar@braiins.cz>
gpg:
→" [ultimate]
gpg: WARNING: This key is not certified with a trusted signature!
              There is no indication that the signature belongs to the
gpg:
→owner.
Primary key fingerprint: 63CB 1DF1 EF12 CF2A COEE 5A32 9C27 B313 42B7 511D
```

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

```
$ 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]
```



```
$ 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]
```

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

??:

Serving static files

Weblate ??????????

PostgreSQL 222222 2222 Weblate 22222222222222

??:

Use a powerful database engine? Databases? Migrating from other databases to PostgreSQL

PostgreSQL

??:

PostgreSQL notes

PostgreSQL ??????????


```
# 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 -O weblate weblate
```

CREATE EXTENSION IF NOT EXISTS pg trgm WITH SCHEMA weblate;

PostgreSQL ??????? Webrate ???

settings.py PostgreSQL ????????:

```
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": "",
    }
```

MySQL ? MariaDB

Weblate 222MySQL 5.7.8 22222 MariaDB 10.2.7 22222222

Weblate ???????:

??????? READ COMMITTED ???????

SQL 2222 STRICT_TRANS_TABLES 2222222

Below is an example /etc/my.cnf.d/server.cnf for a server with 8 GB of RAM. These settings should be sufficient for most installs. MySQL and MariaDB have tunables that will increase the performance of your server that are considered not necessary unless you are planning on having large numbers of concurrent users accessing the system. See the various vendors documentation on those details.

```
[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
```

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": {},
    }
```

You should also create the weblate user account in MySQL or MariaDB before you begin the install. Use the commands below to achieve that:

```
GRANT ALL ON weblate.* to 'weblate'@'localhost' IDENTIFIED BY 'password'; FLUSH PRIVILEGES;
```

??????

?????????

??:

Not receiving e-mails from Weblate Configuring outgoing e-mail in Docker container

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

77:

HTTP ????

```
import os
os.environ["http_proxy"] = "http://proxy.example.com:8080"
os.environ["HTTPS_PROXY"] = "http://proxy.example.com:8080"
```

??:

Proxy Environment Variables

?!?!?!?!

??:

[?][?][?][?][?]

Copy weblate/settings_example.py to weblate/settings.py and adjust it to match your setup. You will probably want to adjust the following options: ADMINS

List of site administrators to receive notifications when something goes wrong, for example notifications on failed merges, or Django errors.

??:

ADMINS

ALLOWED_HOSTS

You need to set this to list the hosts your site is supposed to serve. For example:

```
ALLOWED_HOSTS = ["demo.weblate.org"]
```

Alternatively you can include wildcard:

```
ALLOWED_HOSTS = ["*"]
```

??:

ALLOWED_HOSTS @WEBLATE_ALLOWED_HOSTS @Allowed hosts setup SESSION_ENGINE

Configure how your sessions will be stored. In case you keep the default database backend engine, you should schedule: **weblate clearsessions** to remove stale session data from the database.

If you are using Redis as cache (see *Enable caching*) it is recommended to use it for sessions as well:

```
SESSION_ENGINE = "django.contrib.sessions.backends.cache"
```

??:

Configuring the session engine SESSION_ENGINE

DATABASES

Connectivity to database server, please check Django's documentation for more details.

??:

Weblate ????????????DATABASES?Databases

DEBUG

Disable this for any production server. With debug mode enabled, Django will show backtraces in case of error to users, when you disable it, errors will be sent per e-mail to ADMINS (see above).

Debug mode also slows down Weblate, as Django stores much more info internally in this case.

??

DEBUG

DEFAULT_FROM_EMAIL

E-mail sender address for outgoing e-mail, for example registration e-mails.

??:

DEFAULT_FROM_EMAIL

SECRET KEY

Key used by Django to sign some info in cookies, see *Django secret key* for more info.

??:

SECRET KEY

SERVER_EMAIL

E-mail used as sender address for sending e-mails to the administrator, for example notifications on failed merges.

??:

SERVER_EMAIL

Filling up the database

After your configuration is ready, you can run weblate migrate to create the database structure. Now you should be able to create translation projects using the admin interface.

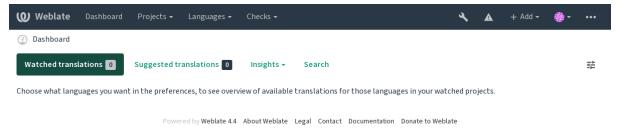
In case you want to run an installation non interactively, you can use weblate migrate --noinput, and then create an admin user using <code>createadmin</code> command.

Once you are done, you should also check the *Performance report* in the admin interface, which will give you hints of potential non optimal configuration on your site.

??:

Production setup

For a production setup you should carry out adjustments described in the following sections. The most critical settings will trigger a warning, which is indicated by an exclamation mark in the top bar if signed in as a superuser:



It is also recommended to inspect checks triggered by Django (though you might not need to fix all of them):

```
weblate check --deploy
```

You can also review the very same checklist from the Management interface.

??:

Deployment checklist

Disable debug mode

Disable Django's debug mode (DEBUG) by:

```
DEBUG = False
```

With debug mode on, Django stores all executed queries and shows users backtraces of errors, which is not desired in a production setup.

??:

[?][?][?][?]

Properly configure admins

Set the correct admin addresses to the ADMINS setting to defining who will receive e-mails in case something goes wrong on the server, for example:

```
ADMINS = (("Your Name", "your_email@example.com"),)
```

??:

[?]?]?]?

Set correct site domain

Adjust site name and domain in the admin interface, otherwise links in RSS or registration e-mails will not work. This is configured using SITE_DOMAIN which should contain site domain name.

22222 4.2 222: Prior to the 4.2 release the Django sites framework was used instead, please see The "sites" framework.

??:

Allowed hosts setup \(\begin{aligned} \text{Correctly configure HTTPS} \(\begin{aligned} \text{SITE_DOMAIN} \\ \begin{aligned} \text{WEBLATE_SITE_DOMAIN} \\ \begin{aligned} \text{PNAINS} \\ \text{ENABLE_HTTPS} \\ \end{aligned} \end{aligned} \)

Correctly configure HTTPS

It is strongly recommended to run Weblate using the encrypted HTTPS protocol. After enabling it, you should set $ENABLE_HTTPS$ in the settings:

```
ENABLE_HTTPS = True
```

????: You might want to set up HSTS as well, see SSL/HTTPS for more details.

??:

ENABLE_HTTPS?!Allowed hosts setup?!Set correct site domain

Set properly SECURE_HSTS_SECONDS

If your site is served over SSL, you have to consider setting a value for <code>SECURE_HSTS_SECONDS</code> in the <code>settings.py</code> to enable HTTP Strict Transport Security. By default it's set to 0 as shown below.

```
SECURE_HSTS_SECONDS = 0
```

If set to a non-zero integer value, the django.middleware.security.SecurityMiddleware sets the HTTP Strict Transport Security header on all responses that do not already have it.

22: Setting this incorrectly can irreversibly (for some time) break your site. Read the HTTP Strict Transport Security documentation first.

Use a powerful database engine

Please use PostgreSQL for a production environment, see *Weblate* 22222222 for more info.

Weblate 222222222222, Databases

Enable caching

If possible, use Redis from Django by adjusting the CACHES configuration variable, for example:

```
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",
        },
    }
}
```

In case you change Redis settings for the cache, you might need to adjust them for Celery as well, see *Background tasks using Celery*.

??:

??????????

In addition to caching of Django, Weblate performs caching of avatars. It is recommended to use a separate, file-backed cache for this purpose:

```
CACHES = {
    "default": {
        # Default caching backend setup, see above
        "BACKEND": "django_redis.cache.RedisCache",
        "LOCATION": "unix:///var/run/redis/redis.sock?db=0",
            "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 Enable caching Django's cache framework

Configure e-mail sending

Weblate needs to send out e-mails on several occasions, and these e-mails should have a correct sender address, please configure <code>SERVER_EMAIL</code> and <code>DEFAULT_FROM_EMAIL</code> to match your environment, for example:

```
SERVER_EMAIL = "admin@example.org"
DEFAULT_FROM_EMAIL = "weblate@example.org"
```

To disable sending e-mails by Weblate set EMAIL_BACKEND to django.core.mail.backends.dummy.EmailBackend.

This will disable *all* e-mail delivery including registration or password reset e-mails.

??:

Allowed hosts setup

Django requires ALLOWED_HOSTS to hold a list of domain names your site is allowed to serve, leaving it empty will block any requests.

In case this is not configured to match your HTTP server, you will get errors like Invalid HTTP_HOST header: '1.1.1.1'. You may need to add '1.1.1.1' to ALLOWED_HOSTS.

202: On Docker container, this is available as WEBLATE_ALLOWED_HOSTS.

??:

ALLOWED_HOSTS !! WEBLATE_ALLOWED_HOSTS !! Set correct site domain

Django secret key

The SECRET_KEY setting is used by Django to sign cookies, and you should really generate your own value rather than using the one from the example setup.

You can generate a new key using weblate/examples/generate-secret-key shipped with Weblate.

??:

 $SECRET_KEY$

Home directory

20222 2.1 222: This is no longer required, Weblate now stores all its data in DATA_DIR.

The home directory for the user running Weblate should exist and be writable by this user. This is especially needed if you want to use SSH to access private repositories, but Git might need to access this directory as well (depending on the Git version you use).

You can change the directory used by Weblate in settings.py, for example to set it to configuration directory under the Weblate tree:

```
os.environ["HOME"] = os.path.join(BASE_DIR, "configuration")
```

On Linux, and other UNIX like systems, the path to user's home directory is defined in /etc/passwd. Many distributions default to a non-writable directory for users used for serving web content (such as apache, www-data or wwwrun), so you either have to run Weblate under a different user, or change this setting.

??:

?!?!?!?!?!?!?!?

Template loading

It is recommended to use a cached template loader for Django. It caches parsed templates and avoids the need to do parsing with every single request. You can configure it using the following snippet (the loaders setting is important here):

```
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

Running maintenance tasks

For optimal performance, it is good idea to run some maintenance tasks in the background. This is now automatically done by *Background tasks using Celery* and covers following tasks:

Configuration health check (hourly).

Committing pending changes (hourly), see *Lazy commits* and *commit_pending*.

Updating component alerts (daily).

Update remote branches (nightly), see AUTO_UPDATE.

Translation memory backup to JSON (daily), see <code>dump_memory</code>.

Fulltext and database maintenance tasks (daily and weekly tasks), see cleanuptrans.

22222 3.2 222: Since version 3.2, the default way of executing these tasks is using Celery and Weblate already comes with proper configuration, see *Background tasks using Celery*.

System locales and encoding

The system locales should be configured to UTF-8 capable ones. On most Linux distributions this is the default setting. In case it is not the case on your system, please change locales to UTF-8 variant.

For example by editing /etc/default/locale and setting there LANG="C.UTF-8".

In some cases the individual services have separate configuration for locales. For example when using Apache you might want to set it in /etc/apache2/envvars:

```
export LANG='en_US.UTF-8'
export LC_ALL='en_US.UTF-8'
```

Using custom certificate authority

Weblate does verify SSL certificates during HTTP requests. In case you are using custom certificate authority which is not trusted in default bundles, you will have to add its certificate as trusted.

The preferred approach is to do this at system level, please check your distro documentation for more details (for example on debian this can be done by placing the CA certificate into /usr/local/share/cacertificates/ and running update-ca-certificates).

Once this is done, system tools will trust the certificate and this includes Git.

For Python code, you will need to configure requests to use system CA bundle instead of the one shipped with it. This can be achieved by placing following snippet to settings.py (the path is Debian specific):

```
import os
os.environ["REQUESTS_CA_BUNDLE"] = "/etc/ssl/certs/ca-certificates.crt"
```

Compressing client assets

Weblate comes with a bunch of JavaScript and CSS files. For performance reasons it is good to compress them before sending to a client. In default configuration this is done on the fly at cost of little overhead. On big installations, it is recommended to enable offline compression mode. This needs to be done in the configuration and the compression has to be triggered on every Weblate upgrade.

The configuration switch is simple by enabling django.conf.settings.COMPRESS_OFFLINE and configuring django.conf.settings.COMPRESS_OFFLINE_CONTEXT (the latter is already included in the example configuration):

```
COMPRESS_OFFLINE = True
```

On each deploy you need to compress the files to match current version:

```
weblate compress
```

The official Docker image has this feature already enabled.

??:

Common Deployment Scenarios ? Serving static files

Running server

You will need several services to run Weblate, the recommended setup consists of:

Database server (see Weblate ??????????)

Cache server (see Enable caching)

Frontend web server for static files and SSL termination (see Serving static files)

WSGI server for dynamic content (see Sample configuration for NGINX and uWSGI)

Celery for executing background tasks (see *Background tasks using Celery*)

There are some dependencies between the services, for example cache and database should be running when starting up Celery or uwsgi processes.

In most cases, you will run all services on single (virtual) server, but in case your installation is heavy loaded, you can split up the services. The only limitation on this is that Celery and Wsgi servers need access to DATA_DIR.

The WSGI process has to be executed under the same user the Celery process, otherwise files in the DATA_DIR will be stored with mixed ownership, leading to runtime issues.

Running web server

Running Weblate is not different from running any other Django based program. Django is usually executed as uWSGI or fcgi (see examples for different webservers below).

For testing purposes, you can use the built-in web server in Django:

weblate runserver

22: DO NOT USE THIS SERVER IN A PRODUCTION SETTING. It has not gone through security audits or performance tests. See also Django documentation on runserver.

The Django built-in server serves static files only with DEBUG enabled as it is intended for development only. For production use, please see wsgi setups in Sample configuration for NGINX and uWSGI, Sample configuration for Apache, Sample configuration for Apache and Gunicorn, and Serving static files.

Serving static files

22222 2.4 222: Prior to version 2.4, Weblate didn't properly use the Django static files framework and the setup was more complex.

Django needs to collect its static files in a single directory. To do so, execute weblate collectstatic — noinput. This will copy the static files into a directory specified by the STATIC_ROOT setting (this defaults to a static directory inside DATA_DIR).

It is recommended to serve static files directly from your web server, you should use that for the following paths:

Serves static files for Weblate and the admin interface (from defined by STATIC_ROOT).

Used for user media uploads (e.g. screenshots).

Should be rewritten to rewrite a rule to serve /static/favicon.ico.

??:

Compressing client assets [PDeploying Django [PDeploying static files

Content security policy

The default Weblate configuration enables weblate.middleware.SecurityMiddleware middleware which sets security related HTTP headers like Content-Security-Policy or X-XSS-Protection. These are by default set up to work with Weblate and its configuration, but this might need customization for your environment.

77.

CSP_SCRIPT_SRC CSP_IMG_SRC CSP_CONNECT_SRC CSP_STYLE_SRC CSP_FONT_SRC

Sample configuration for NGINX and uWSGI

To run production webserver, use the wsgi wrapper installed with Weblate (in virtual env case it is installed as ~/weblate-env/lib/python3.7/site-packages/weblate/wsgi.py). Don't forget to set the Python search path to your virtualenv as well (for example using virtualenv = /home/user/weblate-env in uWSGI).

The following configuration runs Weblate as uWSGI under the NGINX webserver.

Configuration for NGINX (also available as 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;
    }
```

Configuration for uWSGI (also available as 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]
             = python3
plugins
             = true
master
protocol
             = uwsgi
             = 127.0.0.1:8080
socket.
wsgi-file
             = /home/weblate/weblate-env/lib/python3.7/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
            = 8192
buffer-size
# Reload when consuming too much of memory
reload-on-rss = 250
# Increase number of workers for heavily loaded sites
workers
# 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
```

??:

How to use Django with uWSGI

Sample configuration for Apache

It is recommended to use prefork MPM when using WSGI with Weblate.

The following configuration runs Weblate as WSGI, you need to have enabled mod_wsgi (available as weblate/examples/apache.conf):

(????????)

```
# 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/</pre>
→weblate/>
        <Files wsgi.py>
        Require all granted
        </Files>
    </Directory>
</VirtualHost>
```

Weblate requires Python 3, so please make sure you are running Python 3 variant of the modwsgi. Usually it is available as a separate package, for example libapache2-mod-wsqi-py3.

??:

System locales and encoding? How to use Django with Apache and mod_wsgi

Sample configuration for Apache and Gunicorn

The following configuration runs Weblate in Gunicorn and Apache 2.4 (available as weblate/examples/apache.gunicorn.conf):

```
VirtualHost for Weblate using qunicorn 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>
```

(2222222)

```
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

Running Weblate under path

It is recommended to use prefork MPM when using WSGI with Weblate.

A sample Apache configuration to serve Weblate under /weblate. Again using mod_wsgi (also available as 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/</pre>
→weblate/>
        <Files wsgi.py>
```

(????????)

```
Require all granted
</Files>
</Directory>
</VirtualHost>
```

Additionally, you will have to adjust weblate/settings.py:

```
URL_PREFIX = "/weblate"
```

Background tasks using Celery

?????? 3.2 ????.

Weblate uses Celery to process background tasks. 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

For development, you might want to use eager configuration, which does process all tasks in place, but this will have performance impact on Weblate:

```
CELERY_TASK_ALWAYS_EAGER = True
CELERY_BROKER_URL = "memory://"
CELERY_TASK_EAGER_PROPAGATES = True
```

You should also start the Celery worker to process the tasks and start scheduled tasks, this can be done directly on the command line (which is mostly useful when debugging or developing):

```
./weblate/examples/celery start ./weblate/examples/celery stop
```

The Celery process has to be executed under the same user as the WSGI process, otherwise files in the DATA DIR will be stored with mixed ownership, leading to runtime issues.

See also ????? ?????????? and Running server.

Running Celery as system service

Most likely you will want to run Celery as a daemon and that is covered by Daemonization. For the most common Linux setup using systemd, you can use the example files shipped in the examples folder listed below.

Systemd unit to be placed as /etc/systemd/system/celery-weblate.service:

```
[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_VOTS} \
    \rightarrow OTS} \
```

(?????????)

```
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
```

Environment configuration to be placed as /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"
# Internal Weblate variable to indicate we're running inside Celery
CELERY_WORKER_RUNNING="1"
```

$Logrotate\ configuration\ to\ be\ placed\ as\ /\verb|etc/logrotate.d/celery|:$

```
/var/log/celery/*.log {
    weekly
    missingok
    rotate 12
    compress
    notifempty
}
```

Periodic tasks using Celery beat

Weblate comes with built-in setup for scheduled tasks. You can however define additional tasks in settings.py, for example see *Lazy commits*.

The tasks are supposed to be executed by Celery beats daemon. In case it is not working properly, it might not be running or its database was corrupted. Check the Celery startup logs in such case to figure out root cause.

Monitoring Celery status

You can use <code>celery_queues</code> to see current length of Celery task queues. In case the queue will get too long, you will also get configuration error in the admin interface.

The Celery errors are by default only logged into Celery log and are not visible to user. In case you want to have overview on such failures, it is recommended to configure *Collecting error reports*.

??:

Configuration and defaults [] Workers Guide [] Daemonization [] Monitoring and Management Guide [] celery_queues

Monitoring Weblate

Weblate provides the /healthz/ URL to be used in simple health checks, for example using Kubernetes.

Collecting error reports

Weblate, as any other software, can fail. In order to collect useful failure states we recommend to use third party services to collect such information. This is especially useful in case of failing Celery tasks, which would otherwise only report error to the logs and you won't get notified on them. Weblate has support for the following services:

Sentry

Weblate has built-in support for Sentry. To use it, it's enough to set SENTRY_DSN in the settings.py:

```
SENTRY_DSN = "https://id@your.sentry.example.com/"
```

Rollbar

Weblate has built-in support for Rollbar. To use it, it's enough to follow instructions for Rollbar notifier for Python. In short, you need to adjust settings.py:

```
# 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": "master",
    "root": "/absolute/path/to/code/root",
}
```

Everything else is integrated automatically, you will now collect both server and client side errors.

Migrating Weblate to another server

Migrating Weblate to another server should be pretty easy, however it stores data in few locations which you should migrate carefully. The best approach is to stop Weblate for the migration.

Migrating database

Depending on your database backend, you might have several options to migrate the database. The most straightforward one is to dump the database on one server and import it on the new one. Alternatively you can use replication in case your database supports it.

The best approach is to use database native tools, as they are usually the most effective (e.g. **mysqldump** or **pg_dump**). If you want to migrate between different databases, the only option might be to use Django management to dump and import the database:

```
# Export current data
weblate dumpdata > /tmp/weblate.dump
# Import dump
weblate loaddata /tmp/weblate.dump
```

Migrating VCS repositories

The VCS repositories stored under *DATA_DIR* need to be migrated as well. You can simply copy them or use **rsync** to do the migration more effectively.

Other notes

Don't forget to move other services Weblate might have been using like Redis, Cron jobs or custom authentication backends.

Weblate ???

Installing using Docker Installing on OpenShift Installing on Kubernetes

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

Bitnami Weblate ????

Weblate Cloudron ??????



YunoHost ? Weblate



yunohost app install https://github.com/YunoHost-Apps/weblate_ynh

Upgrading Weblate

Docker image upgrades

The official Docker image (see *Installing using Docker*) has all upgrade steps integrated. There are no manual step besides pulling latest version.

Generic upgrade instructions

Before upgrading, please check the current **22222222** as they might have changed. Once all requirements are installed or updated, please adjust your settings.py to match changes in the configuration (consult settings_example.py for correct values).

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.

[12]: 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 *Backing up and moving Weblate*.

- 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
```

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
```

- 3. Upgrade configuration file, refer to settings_example.py or *Version specific instructions* for needed steps.
- 4. Upgrade database structure:

weblate migrate --noinput

5. Collect updated static files (see *Running server* and *Serving static files*):

weblate collectstatic --noinput

6. Compress JavaScript and CSS files (optional, see Compressing client assets):

weblate compress

7.If you are running version from Git, you should also regenerate locale files every time you are upgrading. You can do this by invoking:

weblate compilemessages

8. Verify that your setup is sane (see also *Production setup*):

weblate check --deploy

9. Restart celery worker (see Background tasks using Celery).

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.

77.

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 Generic upgrade instructions 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.

There are some new and updated requirements.

There is a change in INSTALLED_APPS.

The *DeepL* machine translation now defaults to v2 API, you might need to adjust MT_DEEPL_API_VERSION in case your current DeepL subscription does not support that.

??:

Generic upgrade instructions

Upgrade from 4.1 to 4.2

Please follow Generic upgrade instructions 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 CEL-ERY_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.

??:

Generic upgrade instructions

Upgrade from 4.2 to 4.3

Please follow Generic upgrade instructions 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* [2][2][2][2] 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 $SES-SION_COOKIE_AGE$.

In case you were using **hub** or **lab** to integrate with GitHub or GitLab, you will need to reconfigure this, see <code>GITHUB_CREDENTIALS</code> and <code>GITLAB_CREDENTIALS</code>.

Changed in 4.3.1: The Celery configuration was changed to add memory queue. Please adjust your startup scripts and CELERY_TASK_ROUTES setting.

Changed in 4.3.2: The post_update method of addons now takes extra skip_push parameter.

??:

Generic upgrade instructions

Upgrade from 4.3 to 4.4

Please follow Generic upgrade instructions 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 @ MariaDB.

Changed in 4.4.1: *Monolingual gettext* now uses both msgid and msgctxt when present. This will change IDs of translation strings in such files. Please make sure you commit pending changes in such files prior upgrading.

Changed in 4.4.1: Increased minimal required version of translate-toolkit to address several file format issues.

??:

Generic upgrade instructions

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 migrate to PostgreSQL as that will be the only supported database backend in the 4.0 release. 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 ???????????


```
# 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 -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,
        },
    "postgresgl": {
        # Database engine
        "ENGINE": "django.db.backends.postgresgl",
        # 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 <code>importusers</code>.

Backing up and moving Weblate

Automated backup using BorgBackup

?????? 3.9 ????.

Weblate has built-in support for creating service backups using BorgBackup. Borg creates space-effective encrypted backups which can be safely stored in the cloud. The backups can be controlled in the management interface on the *Backups* tab.

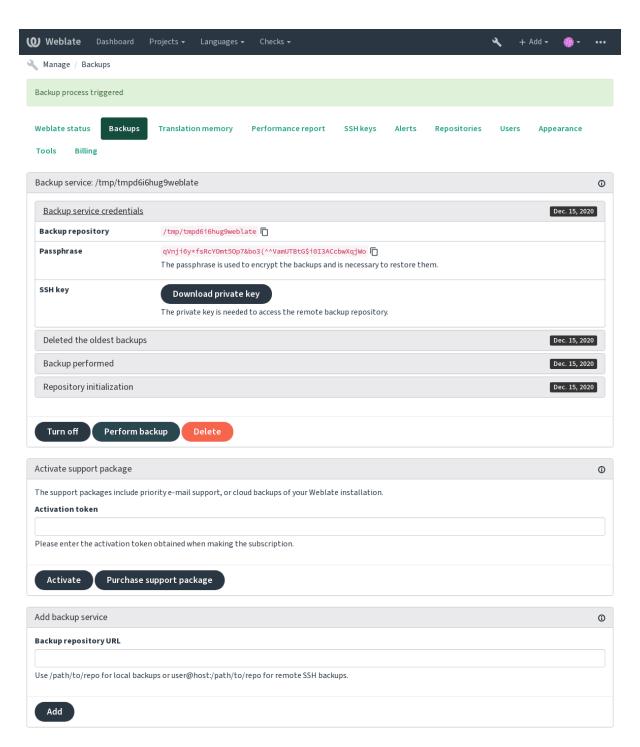
22222 4.4.1 222: Both PostgreSQL and MySQL/MariaDB databases are included in the automated backups.

The backups using Borg are incremental and Weblate is configured to keep following backups:

14 daily backups

8 weekly backups

6 monthly backups



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Borg encryption key

BorgBackup creates encrypted backups and without a passphrase you will not be able to restore the backup. The passphrase is generated when adding new backup service and you should copy it and keep it in a secure place.

In case you are using Weblate provisioned backup storage, please backup your private SSH key as well — it is used to access your backups.

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borg init

Weblate provisioned backup storage

The easiest approach to backup your Weblate instance is to purchase backup service at weblate.org. The process of activating can be performed in few steps:

- 1. Purchase backup service on https://weblate.org/support/#backup.
- 2. Enter obtained key in the management interface, see *Integrating support*.
- 3. Weblate will connect to the cloud service and obtain access information for the backups.
- 4. Turn on the new backup configuration on the Backups tab.
- 5.Backup Borg credentials in order to be able to restore the backups, see *Borg encryption key*.

The manual step of turning on is there for your safety. Without your consent no data is sent to the backup repository obtained through the registration process.

Using custom backup storage

You can also use your own storage for the backups. SSH can be used to store backups on the remote destination, the target server needs to have BorgBackup installed.

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General in the Borg documentation

Local filesystem

It is recommended to specify absolute path for the local backup, for example /path/to/backup. The directory has to be writable by user running Weblate (see 2222 22222222). In case it doesn't exist, Weblate will attempt to create it, but it needs permissions to do so.

When running Weblate in Docker, please make sure that the backup location is exposed as a volume from the Weblate container. Otherwise the backups would be discarded by Docker on container restart.

One option is to place backups in existing volume. For example choose /app/data/borgbackup. This is existing volume in the container.

You can also add new container for the backups in the Docker compose file and use for example /borgbackup:

services:

weblate:

volumes:

- /home/weblate/data:/app/data
- /home/weblate/borgbackup:/borgbackup

The directory where backups will be stored have to be owned by UID 1000, otherwise Weblate will not be able to write the backups there.

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Remote backups using SSH are supported. The SSH server needs to have BorgBackup installed. Weblate connects to the server using SSH key, please make sure the Weblate SSH key is accepted by the server (see Weblate SSH [20]).

Weblate provisioned backup storage provides you automated remote backups.

Restoring from BorgBackup

- 1.Restore access to your backup repository and prepare your backup passphrase.
- 2.List backup existing on the server using borg list REPOSITORY.
- 3.Restore the desired backup to current directory using borg extract REPOSITORY::ARCHIVE.
- 4.Restore the database from the SQL dump placed in the backup directory in the Weblate data dir (see *Dumped data for backups*).
- 5.Copy Weblate configuration (backups/settings.py, see *Dumped data for backups*) to the correct location, see [2][2][2].
- 6.Copy the whole restored data dir to location configured by DATA_DIR.

The Borg session might look like:

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borg list?borg extract

Manual backup

Depending on what you want to save, back up the type data Weblate stores in each respective place.

In case you are doing manual backups, you might want to silent Weblate warning about lack of backups by adding weblate. IO28 to SILENCED_SYSTEM_CHECKS in settings.py or WE-BLATE_SILENCED_SYSTEM_CHECKS for Docker.

```
SILENCED_SYSTEM_CHECKS.append("weblate.I028")
```

Database

The actual storage location depends on your database setup.

The database is the most important storage. Set up regular backups of your database, without it all your translation setup will be gone.

Native database backup

The recommended approach is to do dump of the database using database native tools such as **pg_dump** or **mysq1-dump**. It usually performs better than Django backup and restores complete tables with all data.

You can restore this backup in newer Weblate release, it will perform any necessary migrations when running in migrate. Please consult *Upgrading Weblate* on more detailed information how to perform upgrade between versions.

Django database backup

Alternatively you can backup database using Django's dumpdata command. That way the backup is database agnostic and can be used in case you want to change database backend.

Prior to restoring you need to be running exactly same Weblate version as was used when doing backups. 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.

Once this is done, some entries will be already 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 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 backup the whole *DATA_DIR*. This is safe bet even if it includes some files you don't want. The following sections describe in detail what you should back up and what you can skip.

Dumped data for backups

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 *Background tasks using Celery*). Currently, this includes:

Weblate settings as settings.py (there is also expanded version in settings-expanded.py).

PostgreSQL database backup as database.sql.

The database backups are by default saved as plain text, but they can also be compressed or entirely skipped by using <code>DATABASE_BACKUP</code>.

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 push on commit enabled for all your translation components, all Weblate changes are included upstream and you do not have to backup the repositories on the Weblate side. They can be cloned again from the upstream locations 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.

You should back up user uploaded files (e.g. Visual context for strings).

Celery tasks

The Celery tasks queue might contain some info, but is usually not needed for a backup. At most you will lose updates that have not yet been processed to translation memory. It is recommended to perform the fulltext or repository updates upon restoring anyhow, so there is no problem in losing these.

??

Background tasks using Celery

Command line for manual backup

Using a cron job, you can set up a bash command to be executed on a daily basis, for instance:

```
$ XZ_OPT="-9" tar -Jcf ~/backup/weblate-backup-\$ (date -u +%Y-%m-%d_%H%M%S). 
$\to$xz backups vcs ssh home media fonts secret
```

The string between 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. For instance, to avoid saving the translation memory (in backups folder), you could use:

```
\ XZ_OPT="-9" tar -Jcf ~/backup/weblate-backup-\ (date -u +%Y-%m-%d_%H%M%S). 
 \hookrightarrowxz backups/database.sql backups/settings.py vcs ssh home media fonts. 
 \hookrightarrowsecret
```

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 backup and restore instructions above.

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Upgrading from Python 2 to Python 3. Migrating from other databases to PostgreSQL



??????

The default setup for Weblate is to use python-social-auth, a form on the website to handle registration of new users. After confirming their e-mail a new user can contribute or authenticate by using one of the third party services.

You can also turn off registration of new users using REGISTRATION_OPEN.

Authentication backends

The built-in solution of Django is used for authentication, including various social options to do so. Using it means you can import the user database of other Django-based projects (see *Migrating from Pootle*).

Django can additionally be set up to authenticate against other means too.

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Authentication settings describes how to configure authentication in the official Docker image.

Social authentication

Thanks to Welcome to Python Social Auth's documentation!, Weblate support authentication using many third party services such as GitLab, Ubuntu, Fedora, etc.

Please check their documentation for generic configuration instructions in Django Framework.

By default, Weblate relies on third-party authentication services to provide a validated e-mail address. If some of the services you want to use don't support this, please enforce e-mail validation on the Weblate side by configuring FORCE_EMAIL_VALIDATION for them. For example:

```
SOCIAL_AUTH_OPENSUSE_FORCE_EMAIL_VALIDATION = True
```

??:

Pipeline

Enabling individual backends is quite easy, it's just a matter of adding an entry to the AUTHENTICA-TION_BACKENDS setting and possibly adding keys needed for a given authentication method. Please note that some backends do not provide user e-mail by default, you have to request it explicitly, otherwise Weblate will not be able to properly credit contributions users make.

22:

Python Social Auth backend

OpenID authentication

For OpenID-based services it's usually just a matter of enabling them. The following section enables OpenID authentication for OpenSUSE, Fedora and Ubuntu:

```
# 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 authentication

You need to register an OAuth application on GitHub and then tell Weblate all its secrets:

```
# 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"]
```

The GitHub should be configured to have callback URL as type = 1000 m/accounts/complete/github/.

Weblate provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

??:

GitHub

Bitbucket authentication

You need to register an application on Bitbucket and then tell Weblate all its secrets:

```
# 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 provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

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Bitbucket

Google OAuth 2

To use Google OAuth 2, you need to register an application on https://console.developers.google.com/ and enable the Google+ API.

The redirect URL is 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 provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

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Google

Facebook OAuth 2

As per usual with OAuth 2 services, you need to register your application with Facebook. Once this is done, you can set up Weblate to use it:

The redirect URL is 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 provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

??:

Facebook

GitLab OAuth 2

For using GitLab OAuth 2, you need to register an application on https://gitlab.com/profile/applications>.

The redirect URL is https://WEBLATE SERVER/accounts/complete/gitlab/ and ensure you mark the read_user scope.

```
# 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 provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

??:

GitLab

Microsoft Azure Active Directory

Weblate can be configured to use common or specific tenants for authentication.

The redirect URL is https://WEBLATE SERVER/accounts/complete/azuread-oauth2/for common and https://WEBLATE SERVER/accounts/complete/azuread-tenant-oauth2/for tenant-specific authentication.

```
# 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 provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

??:

Microsoft Azure Active Directory

Slack

For using Slack OAuth 2, you need to register an application on https://api.slack.com/apps.

The redirect URL is 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 provided callback URL during the authentication includes configured domain. In case you get errors about URL mismatch, you might want to fix this, see *Set correct site domain*.

??:

Slack

Turning off password authentication

E-mail and password authentication can be turned off by removing social_core.backends.email. EmailAuth from AUTHENTICATION_BACKENDS. Always keep weblate.accounts.auth. WeblateUserBackend there, it is needed for core Weblate functionality.

????: You can still use password authentication for the admin interface, for users you manually create there. Just navigate to /admin/.

For example authentication using only the openSUSE Open ID provider can be achieved using the following:

```
# Authentication configuration
AUTHENTICATION_BACKENDS = (
    "social_core.backends.suse.OpenSUSEOpenId",
    "weblate.accounts.auth.WeblateUserBackend",
)
```

Password authentication

The default settings.py comes with a reasonable set of AUTH_PASSWORD_VALIDATORS:

Passwords can't be too similar to your other personal info.

Passwords must contain at least 10 characters.

Passwords can't be a commonly used password.

Passwords can't be entirely numeric.

Passwords can't consist of a single character or only whitespace.

Passwords can't match a password you have used in the past.

You can customize this setting to match your password policy.

Additionally you can also install django-zxcvbn-password which gives quite realistic estimates of password difficulty and allows rejecting passwords below a certain threshold.

SAML authentication

?????? 4.1.1 ????.

Please follow the Python Social Auth instructions for configuration. Notable differences:

Weblate supports single IDP which has to be called weblate in SOCIAL_AUTH_SAML_ENABLED_IDPS.

The SAML XML metadata URL is /accounts/metadata/saml/.

Following settings are automatically filled in: SOCIAL_AUTH_SAML_SP_ENTITY_ID, SOCIAL_AUTH_SAML_TECHNICAL_CONTACT, SOCIAL_AUTH_SAML_SUPPORT_CONTACT

Example configuration:

```
# 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_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_uemail": "email",
```

(?????????)

```
}
```

??:

Configuring SAML in Docker? SAML

LDAP authentication

LDAP authentication can be best achieved using the django-auth-ldap package. You can install it via usual means:

```
# Using PyPI
pip install django-auth-ldap>=1.3.0
# Using apt-get
apt-get install python-django-auth-ldap
```

There are some incompatibilities in the Python LDAP 3.1.0 module, which might prevent you from using that version. If you get error AttributeError: 'module' object has no attribute '_trace_level', downgrading python-ldap to 3.0.0 might help.

Once you have the package installed, you can hook it into the Django authentication:

```
# 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
```

You should remove 'social_core.backends.email.EmailAuth' from the AUTHENTICATION_BACKENDS setting, otherwise users will be able to set their password in Weblate, and authenticate using that. Keeping 'weblate.accounts.auth.WeblateUserBackend' is still needed in order to make permissions and facilitate anonymous users. It will also allow you to sign in using a local admin account, if you have created it (e.g. by using createadmin).

Using bind password

If you can not use direct bind for authentication, you will need to use search, and provide a user to bind for the search. For example:

```
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 authentication

CAS authentication can be achieved using a package such as *django-cas-ng*.

Step one is disclosing the e-mail field of the user via CAS. This has to be configured on the CAS server itself, and requires you run at least CAS v2 since CAS v1 doesn't support attributes at all.

Step two is updating Weblate to use your CAS server and attributes.

To install *django-cas-ng*:

```
pip install django-cas-ng
```

Once you have the package installed you can hook it up to the Django authentication system by modifying the settings.py file:

```
# 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")
```

Finally, a signal can be used to map the e-mail field to the user object. For this to work you have to import the signal from the *django-cas-ng* package and connect your code with this signal. Doing this in settings file can cause problems, therefore it's suggested to put it:

In your app config's django.apps.AppConfig.ready() method

In the project's urls.py file (when no models exist)

??:

Django CAS NG

Configuring third party Django authentication

Generally any Django authentication plugin should work with Weblate. Just follow the instructions for the plugin, just remember to keep the Weblate user backend installed.

??:

LDAP authentication [CAS] authentication

Typically the installation will consist of adding an authentication backend to AUTHENTICATION_BACKENDS and installing an authentication app (if there is any) into INSTALLED_APPS:

```
AUTHENTICATION_BACKENDS = (
    # Add authentication backend here
    "weblate.accounts.auth.WeblateUserBackend",
)
INSTALLED_APPS += (
    # Install authentication app here
)
```

??????

????

Weblate ???

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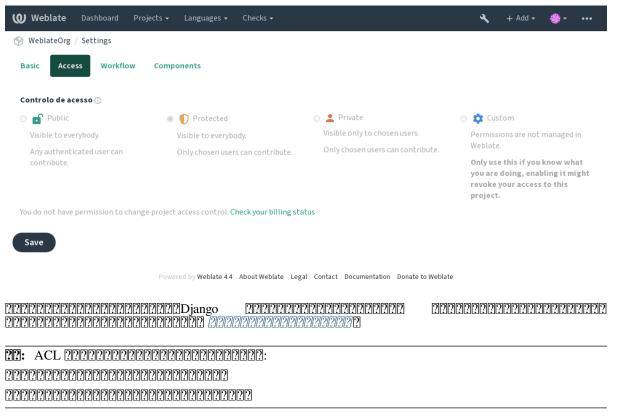
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??: 22?22?22?2 Libre 22?22?22?22?22?2?2?2?2?2?2?

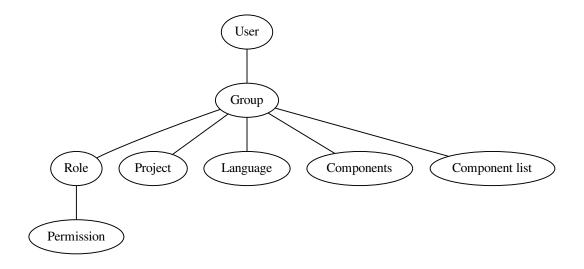
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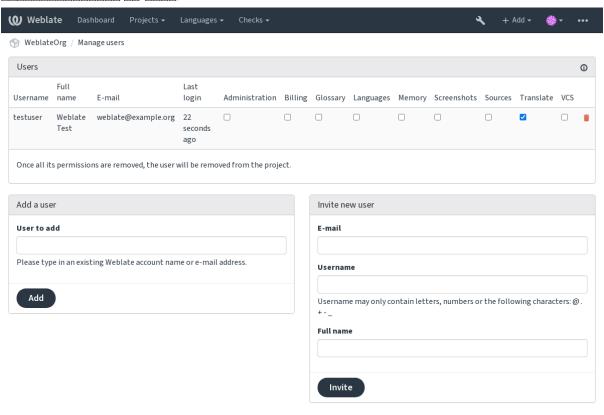
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?????? 3.11 ????.

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Administration

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22 Monolingual components 22222222222

Translate

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

Billing

?????????

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

??????

??????? [Administration, Billing]

?????????? [*Administration*]

[20] [Administration, Edit source, Power user, Review strings, Translate]

[??????? [Administration]

[22] [Administration, Manage glossary, Power user]

22222222 [Administration, Manage glossary, Power user]

22222222222 [Administration, Manage glossary, Power user]

[??????????? [Administration]

[???????????s [Administration]

????????????? [*Administration*]

2222222222 [Administration, Manage screenshots]

[22] [Administration, Edit source]

????????? [*Administration*]

[22] [22] [Administration, Edit source, Power user, Review strings, Translate]

[22] [Administration, Edit source, Power user, Review strings, Translate]

[22][22][[Administration, Review strings]

[2][2][2] [Administration, Edit source, Power user]

[22][22] [Administration, Edit source, Power user, Review strings, Translate]

[20] [Add suggestion, Administration, Edit source, Power user, Review strings, Translate]

[????? [Administration]

[22][22] [Administration, Edit source, Power user, Review strings, Translate]

2222222 [Administration, Manage languages, Power user]

[2][2][2][2] [Administration, Manage languages]

2222222222 [Administration, Manage languages]

222222222222222222 [Administration, Edit source, Power user, Review strings, Translate]

[22] [Administration, Edit source, Power user, Review strings, Translate]

[22] [Access repository, Administration, Manage repository, Power user]

upstream [2][2][2][2][2][2] [Access repository, Administration, Manage repository, Power user]

???????

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????????: none

?????????: *Power user*

????????: Review strings

??????????

?????????: Administration

????????

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 the 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 *Supported file formats*.

20: You can share cloned VCS repositories using Weblate 2020 URL. Using this feature is highly recommended when you have many components sharing the same VCS. It improves performance and decreases required disk space.

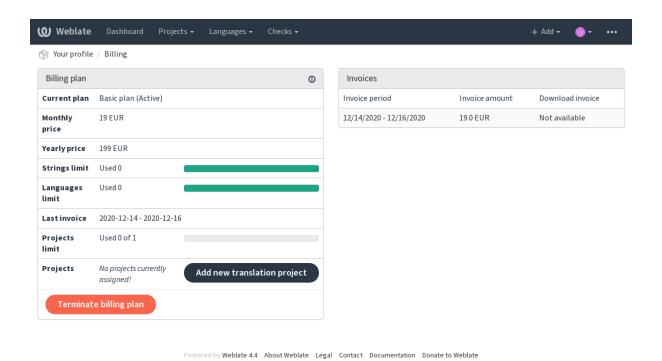
Adding translation projects and components

22222 3.2 222: An interface for adding projects and components is included, and you no longer have to use *The Django admin interface*.

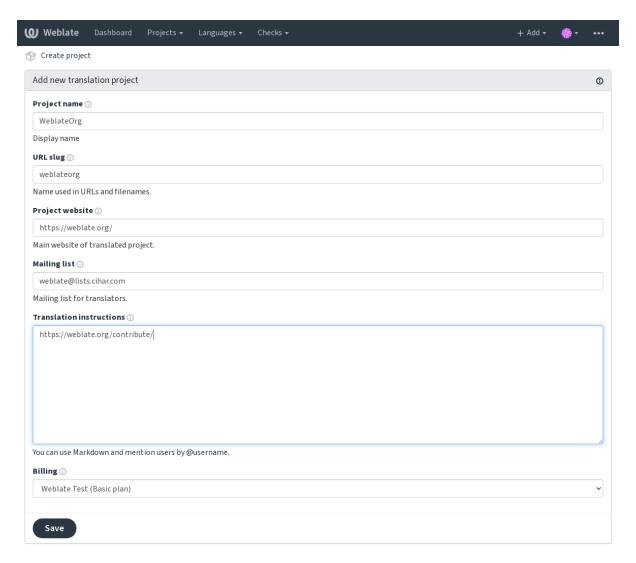
2222 3.4 222: The process of adding components is now multi staged, with automated discovery of most parameters.

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 ②②), 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:



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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.

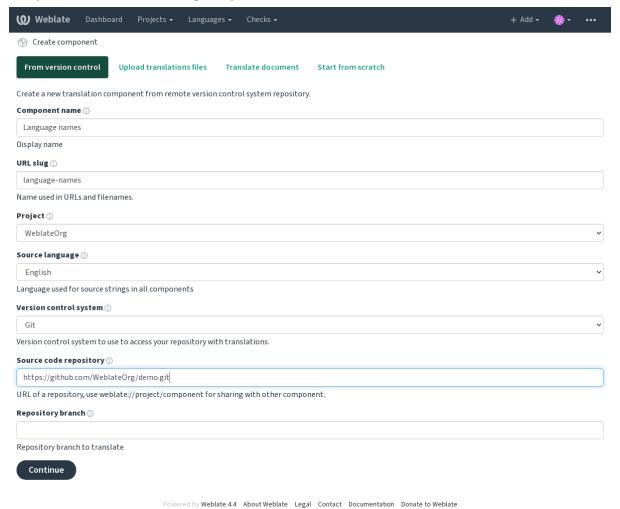
Upload translation files to Weblate in case you do not have version control or do not want to integrate it with Weblate. You can later update the content using the web interface or API.

Upload single document and translate that.

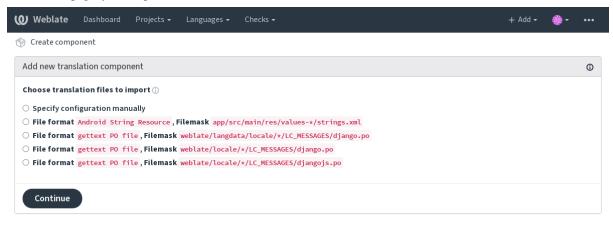
Create blank translation project and add strings manually.

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:

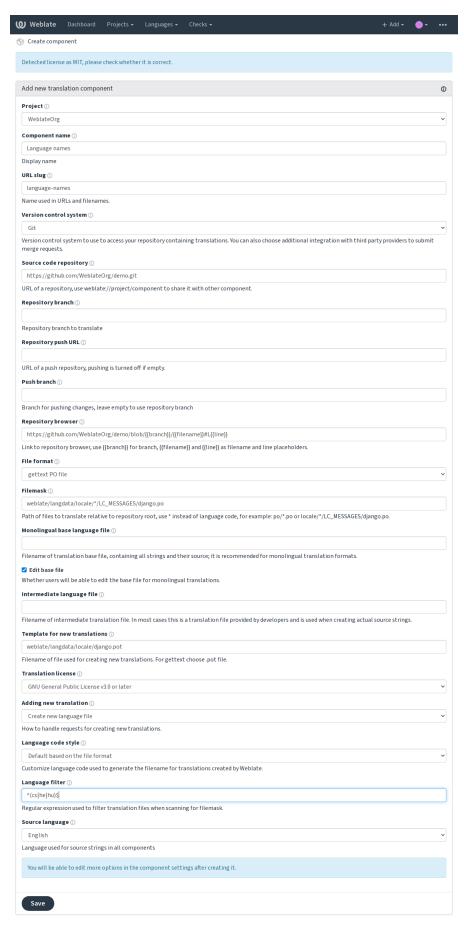


On the next page, you are presented with a list of discovered translatable resources:



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As a last step, you review the translation component info and fill in optional details:



??:

The Django admin interface Project configuration Component configuration

Project configuration

??:

/devel/integration

These basic attributes set up and inform translators of a project:

???????

Verbose project name, used to display the project name.

???????????

Project name suitable for URLs.

?????? Web ????

URL where translators can find more info about the project.

????????

Mailing list where translators can discuss or comment translations.

????????

URL to more site with more detailed instructions for translators.

Set Language-Team header

Whether Weblate should manage the Language-Team header (this is a GNU gettext only feature right now).

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

Whether to use shared translation memory, see 222222 for more details.

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

Whether to contribute to shared translation memory, see 222222 for more details.

??????

Configure per project access control, see 22222222222 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 22222.

??????

Whether unauthenticated **22222** 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.

??:

Parsing language codes

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 Supported file formats.

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 222222222 for details.

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

VCS repository used to pull changes.

77.

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 222 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 22222222 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 *Template markup*.

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, you might want to strip leading directory by parent-dir filter (see *Template markup*): https://github.com/WeblateOrg/hello/blob/{{branch}}/{{filename|parentdir}}#L{{line}}

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

?????????

Which branch to checkout from the VCS, and where to look for translations.

????? push

Branch for pushing changes, leave empty to use 22222222.

This is currently only supported for Git, GitLab and GitHub, it is ignored for other VCS integrations.

File mask

Mask of files to translate, including path. It should include one "*" replacing language code (see *Language definitions* 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.

For example po/*.po or locale/*/LC_MESSAGES/django.po.

In case your filename contains special characters such as [,], these need to be escaped as [[] or []].

777.

Bilingual and monolingual formats \! What does mean "There are more files for the single language (en)"?

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

Base file containing string definitions for Monolingual components.

??:

Bilingual and monolingual formats \(\text{\text{2}}\) What does mean "There are more files for the single language (en)"?

????????

Whether to allow editing the base file for *Monolingual components*.

????????

Intermediate language file for *Monolingual components*. In most cases this is a translation file provided by developers and is used when creating actual source strings.

When set, the source translation is based on this file, but all others are based on 222222222222222. In case the string is not translated in source translation, translating to other languages is prohibited. This provides 2222222222222.

??:

222222222222Bilingual and monolingual formats? What does mean "There are more files for the single language (en)"?

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

Base file used to generate new translations, e.g. .pot file with gettext.

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.

??:

Adding new translations [] [] [] [] [] [] Bilingual and monolingual formats [] What does mean "There are more files for the single language (en)"?

??????

Translation file format, see also Supported file formats.

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

Email address used for reporting upstream bugs. This address will also receive notification about any source string comments made in Weblate.

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

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 <code>DEFAULT_TRANSLATION_PROPAGATION</code>.

??????

Whether translation suggestions are accepted for this component.

??????

Turns on vote casting for suggestions, see 22.2.2.2.

????????

Automatically accept voted suggestions, see 222222.

?????

?????

List of checks which can not be ignored, see 22222.

????????

License of the translation (does not need to be the same as the source code license).

???????

????????

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.

??:

adding-translation.

?????????

22

Adding new translations ?????????Parsing language codes

????????

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 <code>DEFAULT_MERGE_STYLE</code>.

Commit, add, delete, merge and addon messages

Message used when committing a translation, see *Template markup*.

???????

Name of the committer used for Weblate commits, the author will always be the real translator. On some VCSs this might be not supported.

Default value can be changed by <code>DEFAULT_COMMITER_NAME</code>.

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

Email of committer used for Weblate commits, the author will always be the real translator. On some VCSs this might be not supported. The default value can be changed in <code>DEFAULT_COMMITER_EMAIL</code>.

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

Whether committed changes should be automatically pushed to the upstream repository. When enabled, the push is initiated once Weblate commits changes to its internal repository (see *Lazy commits*). To actually enable pushing *Repository push URL* has to be configured as well.

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

Sets how old changes (in hours) are to get before they are committed by background task or <code>commit_pending</code> management command. All changes in a component are committed once there is at least one older than this period.

Default value can be changed by COMMIT_PENDING_HOURS.

????????

Enables locking the component on repository error (failed pull, push or merge). Locking in this situation avoids adding another conflict 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, you might want to choose *English (Developer)* as a source language to avoid conflict between name of the source language and existing translation.

For monolingual translations, you can use intermediate translation in this case, see 22222222.

???????

Regular expression used to filter the translation when scanning for filemask. This can be used to limit the list of languages managed by Weblate.

?! You need to list language codes as they appear in the filename.

Some examples of filtering:

```
Filter description
Selected languages only ^(cs|de|es)$
Exclude languages ^(?!(it|fr)$).+$
Filter two letter codes only^..$
Exclude non language files^(?!(blank)$).+$
Include all files (default) ^[^.]+$
```

??????

Regular expression used to determine the variants of a string, see variants.

Most of the fields can be edited by project owners or managers, in the Weblate interface.

??:

Does Weblate support other VCSes than Git and Mercurial? alerts

????

Restricted access

By default the component is visible to anybody who has access to the project, even if the person can not perform any changes in the component. This makes it easier to keep translation consistency within the project.

Enable this in case you want to grant access to this component explicitly - the project level permissions will not apply and you will have to specify component or component list level permission in order to grant access.

Default value can be changed by DEFAULT RESTRICTED COMPONENT.

This applies to project managers as well - please make sure you will not loose access to the component after toggling the status.

Template markup

Currently it is used in:

Commit message formatting, see Component configuration

Several addons

222222222

?????????

Executing scripts from addon

There following variables are available in the component templates:

?????

???

???????

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

???????

???????????

Translation URL

???????

Translation stats, this has further attributes, examples below.

Total strings count

Count of strings needing review

Percent of strings needing review

Translated strings count

Translated strings percent

Number of strings with failing checks

Percent of strings with failing checks

Author of current commit, available only in the commit scope.

Name of currently executed addon, available only in the addon commit message.

The following variables are available in the repository browser or editor templates:

current branch

line in file

filename, you can also strip leading parts using the parentdir filter, for example { filename | parentdir } }

You can combine them with filters:

```
{{ component|title }}
```

You can use conditions:

```
{% if stats.translated_percent > 80 %}Well translated!{% endif %}
```

There is additional tag available for replacing characters:

```
{% replace component "-" " %}
```

You can combine it with filters:

```
{% replace component|capfirst "-" " %}
```

There are also additional filter to manipulate with filenames:

```
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 }}
```

...and other Django template features.

Importing speed

Fetching VCS repository and importing translations to Weblate can be a lengthy process, depending on size of your translations. Here are some tips:

Optimize configuration

The default configuration is useful for testing and debugging Weblate, while for a production setup, you should do some adjustments. Many of them have quite a big impact on performance. Please check *Production setup* for more details, especially:

Configure Celery for executing background tasks (see *Background tasks using Celery*)

Enable caching

Use a powerful database engine

Disable debug mode

Check resource limits

If you are importing huge translations or repositories, you might be hit by resource limitations of your server.

Check the amount of free memory, having translation files cached by the operating system will greatly improve performance.

Disk operations might be bottleneck if there is a lot of strings to process—the disk is pushed by both Weblate and the database.

Additional CPU cores might help improve performance of background tasks (see Background tasks using Celery).

Disable unneeded checks

Some quality checks can be quite expensive, and if not needed, can save you some time during import if omitted. See <code>CHECK_LIST</code> for info on configuration.

Automatic creation of components

To use the addon, you first need to create a component for one translation file (choose the one that is the least likely to be renamed or removed in future), and install the addon on this component.

For the management commands, you need to create a project which will contain all components and then run *import_project* or *import_json*.

??:

Language definitions

To present different translations properly, info about language name, text direction, plural definitions and language code is needed.

Parsing language codes

While parsing translations, Weblate attempts to map language code (usually the ISO 639-1 one) to any existing language object.

You can further adjust this mapping at project level by 22222.

If no exact match can be found, an attempt will be made to best fit it into an existing language (e.g. ignoring the default country code for a given language—choosing cs instead of cs_CZ).

Should that also fail, a new language definition will be created using the defaults (left to right text direction, one plural). The automatically created language with code xx_XX will be named as xx_XX (generated). You might want to change this in the admin interface later, (see *Changing language definitions*) and report it to the issue tracker (see *Weblate (2020)*), so that the proper definition can be added to the upcoming Weblate release.

In case you see something unwanted as a language, you might want to adjust 2222222 to ignore such file when parsing translations.

??:

???????!Adding new translations

Changing language definitions

You can change language definitions in the languages interface (/languages/URL).

While editing, make sure all fields are correct (especially plurals and text direction), otherwise translators will be unable to properly edit those translations.

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Definitions for more than 550 languages are included in Weblate and the list is extended in every release. Whenever Weblate is upgraded (more specifically whenever weblate migrate is executed, see *Generic upgrade instructions*) the database of languages is updated to include all language definitions shipped in Weblate.

This feature can be disable using <code>UPDATE_LANGUAGES</code>. You can also enforce updating the database to match Weblate built-in data using <code>setuplang</code>.

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In many cases it is not a good idea to use macro language code for a translation. The typical problematic case might be Kurdish language, which might be written in Arabic or Latin script, depending on actual variant. To get correct behavior in Weblate, it is recommended to use individual language codes only and avoid macro languages.

??:

Macrolanguages definition, List of macrolanguages

Language definitions

Each language consists of following fields:

??????

Code identifying the language. Weblate prefers two letter codes as defined by ISO 639-1, but uses ISO 639-2 or ISO 639-3 codes for languages that do not have two letter code. It can also support extended codes as defined by BCP 47.

Parsing language codes ? Adding new translations

?!?!?

Visible name of the language. The language names included in Weblate are also being localized depending on user interface language.

???????

Determines whether language is written right to left or left to right. This property is autodetected correctly for most of the languages.

Plural number

Number of plurals used in the language.

??????

Gettext compatible plural formula used to determine which plural form is used for given count.

??:

[202], GNU gettext utilities: Plural forms, Language Plural Rules by the Unicode Consortium

Adding new translations

[2][2][2][2] 2.18 [2][2]: In versions prior to 2.18 the behaviour of adding new translations was file format specific.

Weblate can automatically start new translation for all of the file formats.

Some formats expect to start with an empty file and only translated strings to be included (for example *Android string resources*), while others expect to have all keys present (for example *GNU gettext*). In some situations this really doesn't depend on the format, but rather on the framework you use to handle the translation (for example with *JSON files*).

The 22222 2222 allows you to customize language code used in generated filenames:

Dependent on file format, for most of them POSIX is used.

Typically used by gettext and related tools, produces language codes like pt_BR.

POSIX style language code including the country code even when not necessary (for example cs_CZ).

Typically used on web platforms, produces language codes like pt-BR.

BCP style language code including the country code even when not necessary (for example cs-CZ).

Only used in Android apps, produces language codes like pt-rBR.

Used by Java—mostly BCP with legacy codes for Chinese.

Additionally, any mappings defined in [2][2][2] are applied in reverse.

Weblate recognizes any of these when parsing translation files, the above settings only influences how new files are created.

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????????Parsing language codes

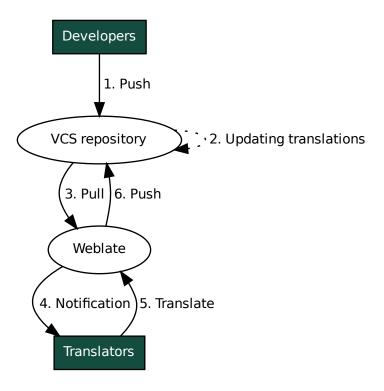
There is infrastructure in place so that your translation closely follows development. This way translators can work on translations the entire time, instead of working through huge amount of new text just prior to release.

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/devel/integration describes basic ways to integrate your development with 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.

Use 22222 to integrate with most of common code hosting services

Enable AUTO_UPDATE to automatically update all components on your Weblate instance

Execute updategit (with selection of project or --all to update all)

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 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
```

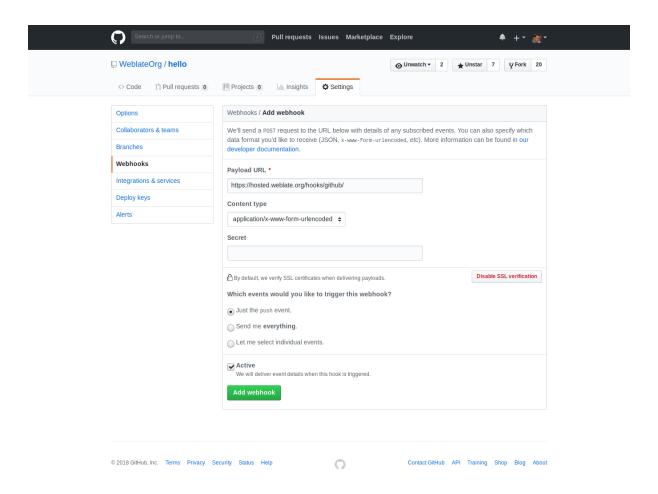
The example uses *Weblate* [2020202], which needs configuration (API keys) to be able to control Weblate remotely. You can also achieve this using any HTTP client instead of wlc, e.g. curl, see API.

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/.

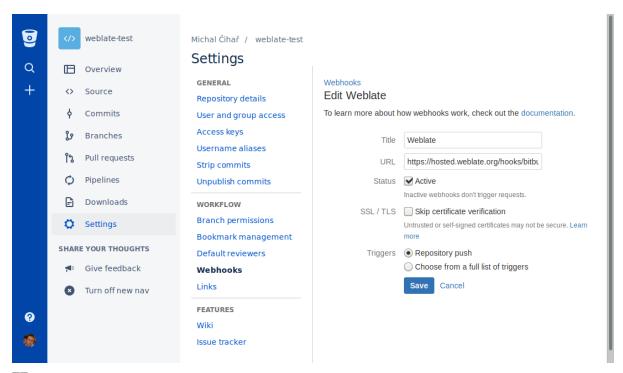
You can leave other values at default settings (Weblate can handle both content types and consumes just the *push* event).

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POST /hooks/github/ Posted Weblate 222222222

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/).



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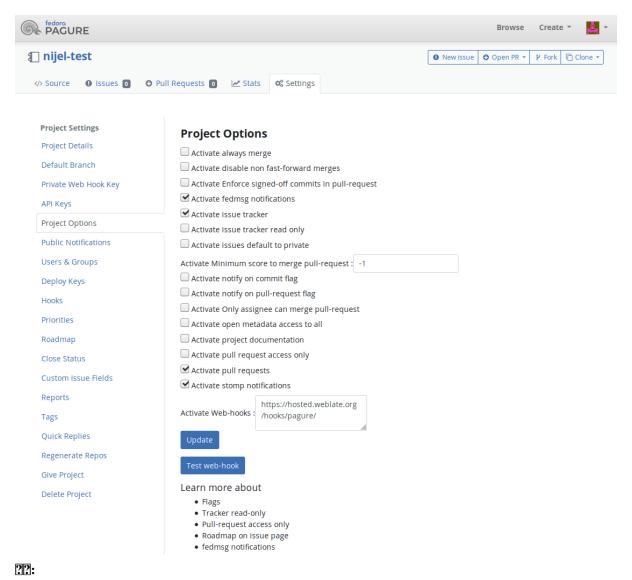
POST /hooks/bitbucket/2Hosted Weblate 2222222222

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/ Mosted Weblate 222222222

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POST /hooks/pagure/ Mosted Weblate 22222222

Automatically receiving changes from Azure Repos

22222 3.8 222.

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*.

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Web hooks in Azure DevOps manual POST /hooks/azure/ Hosted Weblate 2222222222

Automatically receiving changes from Gitea Repos

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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 <code>?POST /hooks/gitea/</code>?<code>Hosted Weblate ???????????????</code>

Automatically receiving changes from Gitee Repos

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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*.

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Webhooks in Gitee manual <code>POST /hooks/gitee/</code>
<code>Hosted Weblate </code>
<code>POST /hooks/gitee/</code>
<code>Hosted Weblate </code>

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

Weblate	??????????????????? <i>Git</i>	Hub?GitLab?IF	Pagu	re ????		??????	Gerrit
???????????	???????????? <i>Component</i>	configuration	$\tilde{?}$???????????	???	GitHub?!GitL	.ab?!Gerrit
???? Pagure ?!	<u> </u>	V 0					

Overall, following options are available with Git, GitHub and GitLab:

Desired setup	??????????	? <u>?????????</u> UR	?L?????? push
No push	Git	empty	empty
Push directly	Git	SSH URL	empty
222222 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 branc	h <i>GitLab</i>	SSH URL ¹	Branch name
222222 Pagure 222 2222	Pagure	empty	empty
???????? Pagure ???? ??????	Pagure	SSH URL ¹	Branch name

You can also enable automatic pushing of changes after Weblate commits, this can be done in

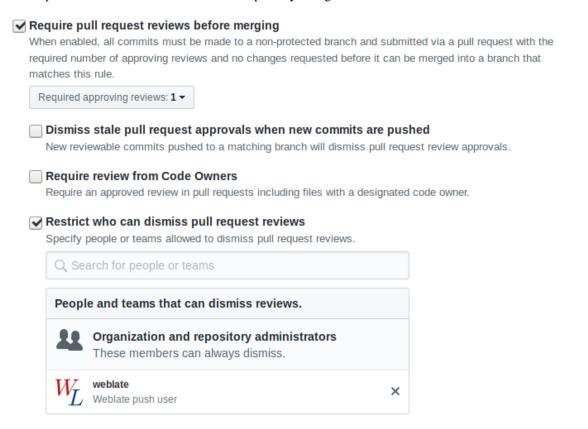
??:

See [2][2][2][2][2] for setting up SSH keys, and Lazy commits for info about when Weblate decides to commit changes.

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.

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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 [2][2][2][2]).

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.

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 **2022**. Consult *Executing scripts from addon* 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 translation propagation 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.

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 222222 check fires whenever the strings are different. You can utilize this to review such differences manually and choose the right translation.

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Automatic translation based on different components can be way to synchronize the translations across components. You can either trigger it manually (see (2002)) or make it run automatically on repository update using addon (see (2002)).

Licensing translations

You can specify which license translations are contributed under. This is especially important to do if translations are open to the public, to stipulate what they can be used for.

You should specify *Component configuration* license info. You should avoid requiring a contributor license agreement, though it is possible.

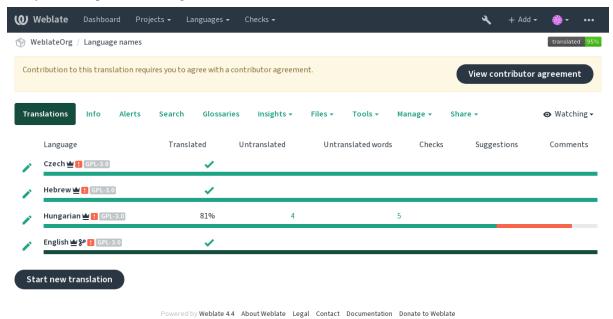
License info

Upon specifying license info (license name and URL), this info is shown in the translation info section of the respective *Component configuration*.

Usually this is best place to post licensing info if no explicit consent is required. If your project or translation is not libre you most probably need prior consent.

???????

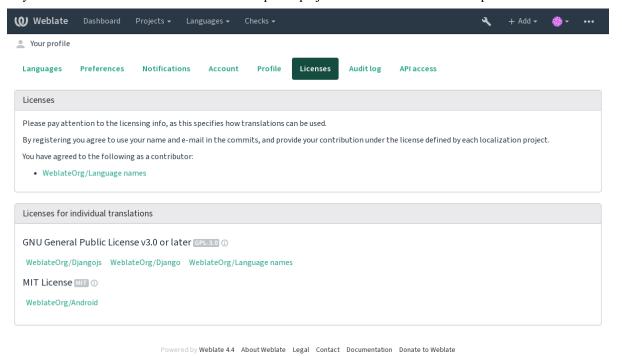
If you specify a contributor license agreement, only users who have agreed to it will be able to contribute. This is a clearly visible step when accessing the translation:



The entered text is formatted into paragraphs and external links can be included. HTML markup can not be used.

User licenses

Any user can review all translation licenses of all public projects on the instance from their profile:



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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* 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).

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* privilege (see 20222).

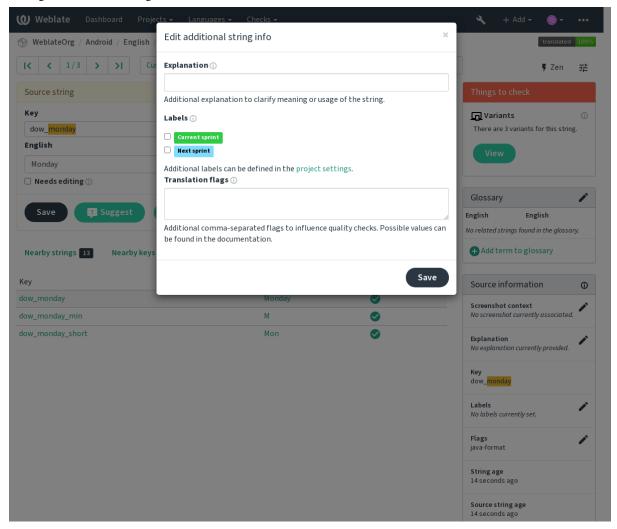
Users suggest and vote for suggestions and a limited group controls what is accepted. - Turn on voting. - Turn off automatic acceptance. - Don't let users save translations.

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.

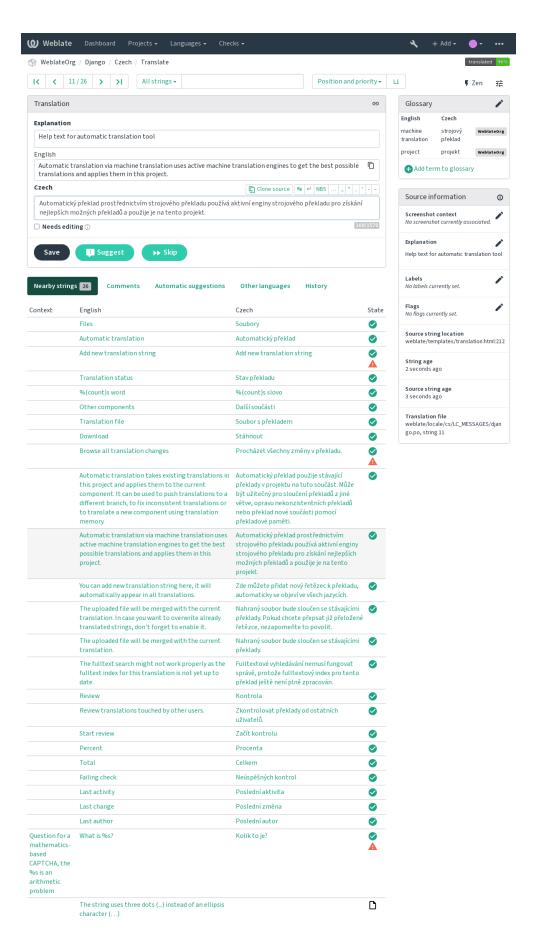
Optional voting for suggestions. (Can optionally be used by users when they are unsure about a translation by making multiple suggestions.) - Only turn on voting.

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.



Strings prioritization

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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.

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[?][?][?]

?????

?????? 2.4 ????.

2222 3.3 222: 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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??

22222 4.1 222: In previous versions this has been called *Extra context*.

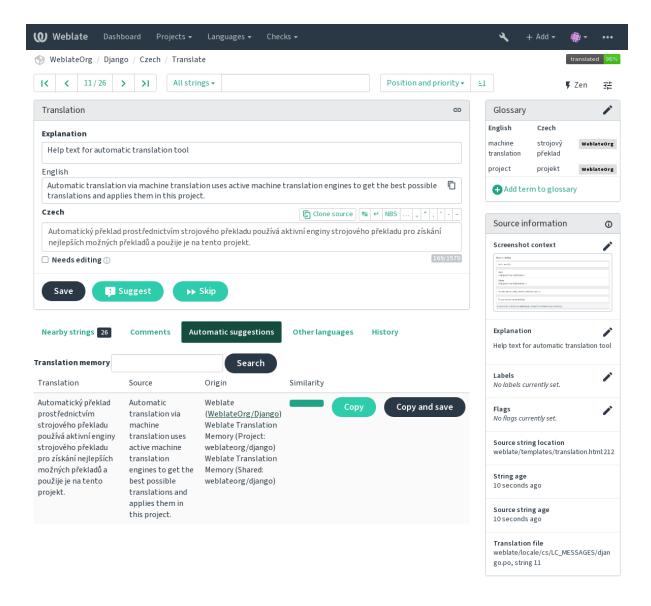
Use the explanation to clarify scope or usage of the translation. You can use Markdown to include links and other markup.

Visual context for strings

?????? 2.9 ????.

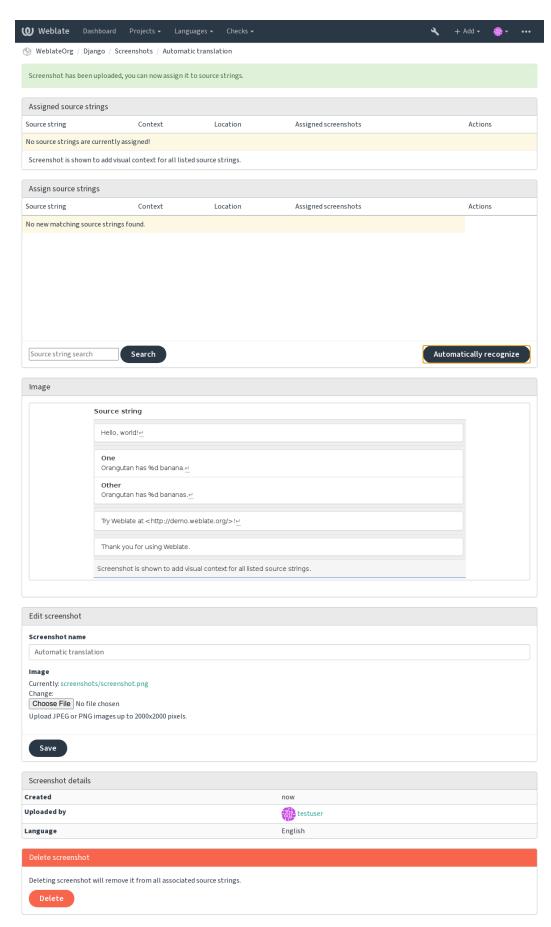
You can upload a screenshot showing a given source string in use within your program. This helps translators understand where it is used, and how it should be translated.

The uploaded screenshot is shown in the translation context sidebar:



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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:



???????????

```
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
# This file is part of Weblate <a href="https://weblate.org/">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 <a href="https://www.gnu.org/licenses/">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
```

Python

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```
placeholders:"special:value":"other value", regex:.*
```

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

?????? Markdown ??????????

UNIX 2222 DOS 22222222222 \n 2222 \r\n22

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2222 HTML 22222222222 HTML

22222 XML 2222222222222 XML 22 222 XML 2222222

?C????????????????

2Qt 222222222222

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2XML 2222222222222

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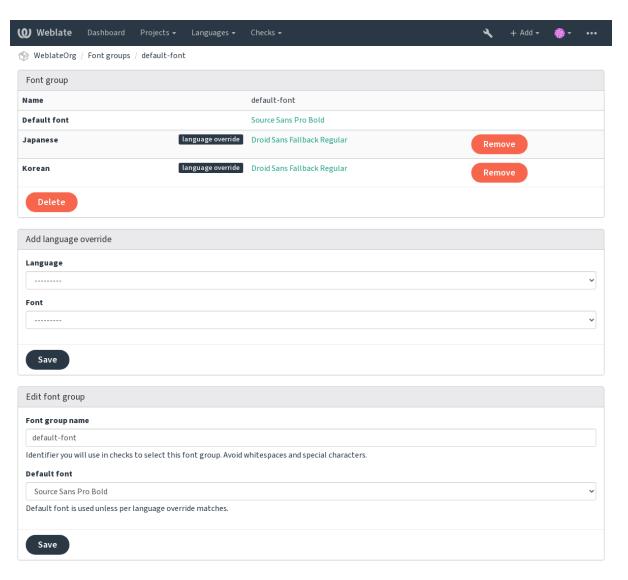
?????

?????? 3.11 ????.

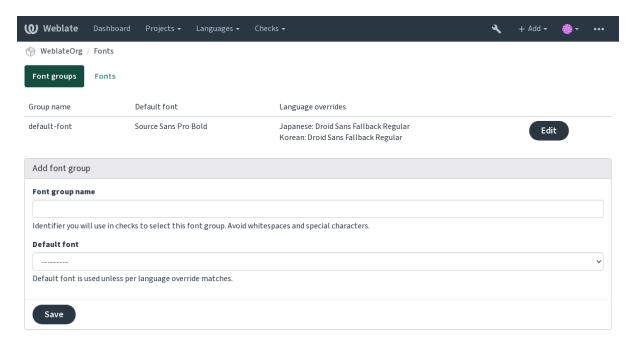
???????

?????? 3.7 ????.

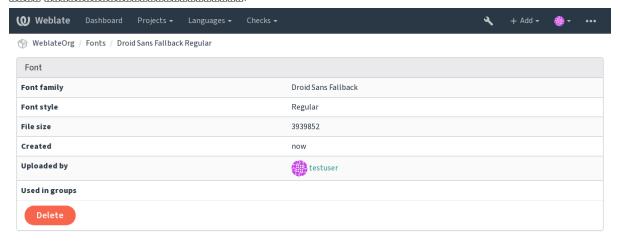
Weblate font management tool in *Fonts* under the *Manage* menu of your translation project provides interface to upload and manage fonts. TrueType or OpenType fonts can be uploaded, set up font-groups and use those in the check.



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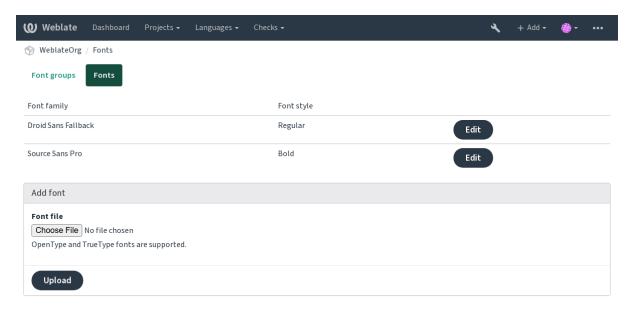


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- 1.weblate.checks.Check ???????????
- 2.????????????

?!?!?!?!?!?foo?!?!?!?!?!?!?!?!?!?


```
#
# 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.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
```



```
# Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
# This file is part of Weblate <a href="https://weblate.org/">
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# This file is part of Weblate <a href="https://weblate.org/">
# This file is part of We
# 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
```

(????????)

(22222222)

```
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
```

????

Built-in support for several machine translation services and can be turned on by the administrator using $MT_SERVICES$ for each one. They come subject to their terms of use, so ensure you are allowed to use them how you want.

The source language can be configured at *Project configuration*.

amaGama

Special installation of *tmserver* run by the authors of Virtaal.

Turn on this service by adding weblate.machinery.tmserver.AmagamaTranslation to ${\it MT_SERVICES}.$

??:

Installing amaGama? Amagama? amaGama Translation Memory

Apertium

A libre software machine translation platform providing translations to a limited set of languages.

The recommended way to use Apertium is to run your own Apertium-APy server.

Turn on this service by adding weblate.machinery.apertium.ApertiumAPYTranslation to $MT_SERVICES$ and set $MT_APERTIUM_APY$.

??:

MT_APERTIUM_APY, Apertium website, Apertium APy documentation

AWS

?????? 3.1 ????.

Amazon Translate is a neural machine translation service for translating text to and from English across a breadth of supported languages.

- 1. Turn on this service by adding weblate.machinery.aws.AWSTranslation to MT_SERVICES.
- 2.Install the *boto3* module.
- 3. Configure Weblate.

??:

 ${\it MT_AWS_REGION} \underline{{\it MT_AWS_ACCESS_KEY_ID}} \underline{{\it MT_AWS_SECRET_ACCESS_KEY_Amazon}} \\ {\it Translate Documentation}$

Baidu API machine translation

?????? 3.2 ????.

Machine translation service provided by 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). You can toggle this by MT_DEEPL_API_VERSION.

??:

MT_DEEPL_KEY MT_DEEPL_API_VERSION DeepL website DeepL pricing DeepL API documentation

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

Machine translation service provided by 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)

Machine translation service provided by Google Cloud services.

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.

??:

 ${\it MT_GOOGLE_CREDENTIALS?} {\it MT_GOOGLE_PROJECT?} {\it MT_GOOGLE_LOCATION} \ \ {\it Google translate documentation}$

Microsoft Cognitive Services Translator

?????? 2.10 ????.

Machine translation service provided by Microsoft in Azure portal as a one of Cognitive Services.

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

You need to register at Azure portal and use the key you obtain there. With new Azure keys, you also need to set <code>MT_MICROSOFT_REGION</code> to locale of your service.

??:

MT_MICROSOFT_COGNITIVE_KEY?MT_MICROSOFT_REGION?Cognitive Services - Text Translation API ?Microsoft Azure Portal

Microsoft Terminology Service

?????? 2.19 ????.

The Microsoft Terminology Service API allows you to programmatically access the terminology, definitions and user interface (UI) strings available in the Language Portal through a web service.

Turn this service on by adding weblate.machinery.microsoftterminology. MicrosoftTerminologyService to $MT_SERVICES$.

??

Microsoft Terminology Service API

ModernMT

?????? 4.2 ????.

Turn this service on by adding weblate.machinery.modernmt.ModernMTTranslation to $MT_SERVICES$ and configure $MT_MODERNMT_KEY$.

??:

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 ????.

Machine translation service provided by Netease.

This service uses an API, and you need to obtain key and secret from NetEase.

 $\label{thm:continuity} \begin{array}{lll} \textbf{Turn} & \textbf{on this service by adding weblate.} \\ \textbf{mt}_\textbf{SERVICES} & \textbf{and set } \textbf{MT}_\textbf{NETEASE}_\textbf{KEY} & \textbf{and } \textbf{MT}_\textbf{NETEASE}_\textbf{SECRET}. \end{array}$

??

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 ${\it MT_SERVICES}.$

```
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 Translation Memory

Yandex Translate

Machine translation service provided by 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 ????.

Machine translation service provided by 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 [2][2][2] 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

Machine translation service provided by SAP.

You need to have a SAP account (and enabled the SAP Translation Hub in the SAP Cloud Platform) to use this service.

Turn on this service by adding weblate.machinery.saptranslationhub.SAPTranslationHub to $MT_SERVICES$ and set the appropriate access to either sandbox or the productive 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.

??:

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,
```

(????????)

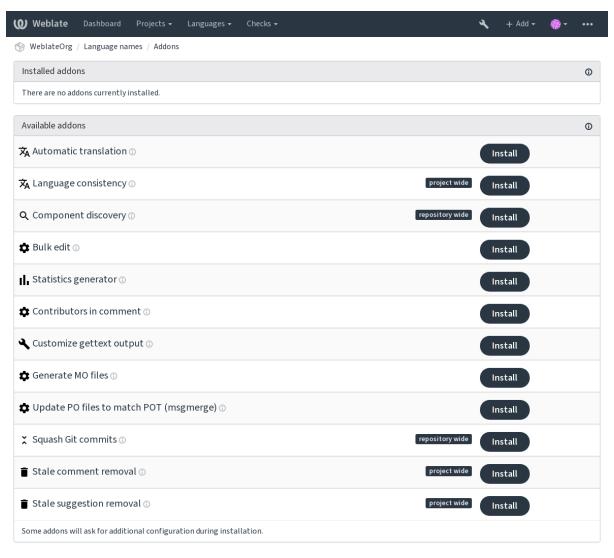
(??????????)

```
# 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
\hookrightarrow": text}
```

You can list own class in MT_SERVICES and Weblate will start using that.

????

?????? 2.19 ????.



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??????

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?????? 3.9 ????.

??:

JavaScript ???? CDN

?????? 4.2 ????.

222222222222222222222 URL 22222222 URL 2

??

cdn-addon-config@weblate-cdn@cdn-addon-extract@cdn-addon-html

????????

?????? 4.4 ????.

?!?!?!?!?!?!?!?!?!?!?!?!?!?!?!?!?

??:

Does Weblate update translation files besides translations?

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

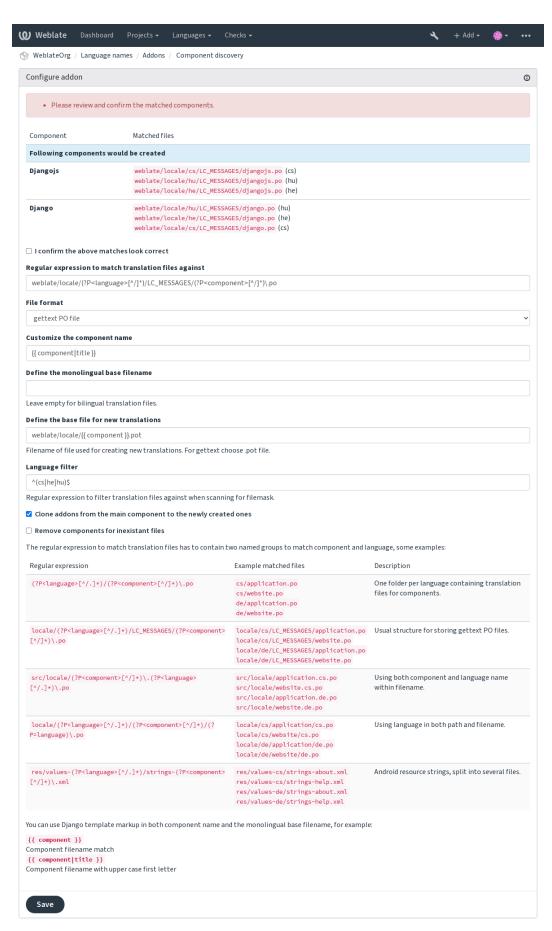
??:

Does Weblate update translation files besides translations?

??????

2222222224 2222 1 2222222222 Weblate 2222222222222

?????????



??:

Template markup

????

??????? 3.11 ????.

?:

????? NOT has:label ???????????

?????? language:en AND key:changelogs/ ????????read-only

??:

[?][?][?]

22222 3.1 222.

?????? "???" ???????

??????? ''????'' ??????????

????????

locale/{{ language_code }}.json

```
"language": "{{ language_code }}",
   "strings": "{{ stats.all }}",
   "translated": "{{ stats.translated }}",
   "last_changed": "{{ stats.last_changed }}",
   "last_author": "{{ stats.last_author }}",
}
```

??:

Template markup

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


```
# 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 ?????? ALL_LINGUAS ??????

gettext ??????????

?????????:

77 ????????????????

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LINGUAS ????????

22222222222222 LINGUAS 222222222222

MO ???????

22222 PO 2222222222 MO 2222222222

POT ?????? PO ??????? (msgmerge)

??:

Does Weblate update translation files besides translations?

?????????

?????? 3.4 ????.

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?????? 3.5 ????.

????

?????? 4.1 ????.

JSON ??????????????

????????????JSON ?????????????

??????????

?????? 3.7 ????.

???????

?????? 3.7 ????.

RESX ???????

?????? 3.9 ????.

??:

Does Weblate update translation files besides translations?

YAML ??????????????

?????? 3.10.2 ????.

?!?!?!?!?!?YAML ?!?!?!?!?!?!?!?

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

Writing addon

You can write your own addons too, all you need to do is subclass weblate.addons.base.BaseAddon, define the addon metadata and implement a callback which will do the processing.

??:

Executing scripts from addon

Addons can also be used to execute external scripts. This used to be integrated in Weblate, but now you have to write some code to wrap your script with an addon.

```
# Copyright @ 2012 - 2021 Michal Čihař <michal@cihar.com>
 This file is part of Weblate <a href="https://weblate.org/">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"
```

The script is executed with the current directory set to the root of the VCS repository for any given component.

Additionally, the following environment variables are available:

WL_VCS

Version control system used.

WL_REPO

Upstream repository URL.

WL PATH

Absolute path to VCS repository.

WL_BRANCH

??<u>?</u>??? 2.11 ????.

Repository branch configured in the current component.

WL FILEMASK

Filemask for current component.

WL TEMPLATE

Filename of template for monolingual translations (can be empty).

WL_NEW_BASE

?????? 2.14 ????.

Filename of the file used for creating new translations (can be empty).

WL_FILE_FORMAT

Fileformat used in current component.

WL_LANGUAGE

Language of currently processed translation (not available for component level hooks).

WL_PREVIOUS_HEAD

Previous HEAD on update (available only when running post update hook).

WL COMPONENT SLUG

 $22\overline{2}$ 22 3.9 22

Component slug used to construct URL.

WL_PROJECT_SLUG

????????.3.9????

Project slug used to construct URL.

WL COMPONENT NAME

???<u>?</u>??? 3.9 ????.

Component name.

WL_PROJECT_NAME

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

Project name.

WL_COMPONENT_URL

?????? 3.9 ????.

Component URL.

WL_ENGAGE_URL

 $22\overline{2}$ 2.9 $2\overline{2}$ 2.

Project engage URL.

??:

Component configuration

Post update repository processing

Post update repository processing can be used to update translation files when the VCS upstream source changes. To achieve this, please remember that Weblate only sees files committed to the VCS, so you need to commit changes as a part of the script.

For example with Gulp you can do it using following code:

```
#! /bin/sh
gulp --gulpfile gulp-i18n-extract.js
git commit -m 'Update source strings' src/languages/en.lang.json
```

Pre commit processing of translations

Use the commit script to automatically make changes to the translation before it is committed to the repository. It is passed as a single parameter consisting of the filename of a current translation.

?????

?????? 2.20 ????.

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, 2222 view while translating.

Automatically, by translating strings using 2222, or 2222 addon.

For installation tips, see Weblate Translation Memory, which is turned on by default.

Translation memory scopes

22222 3.2 222: 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.

???????

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

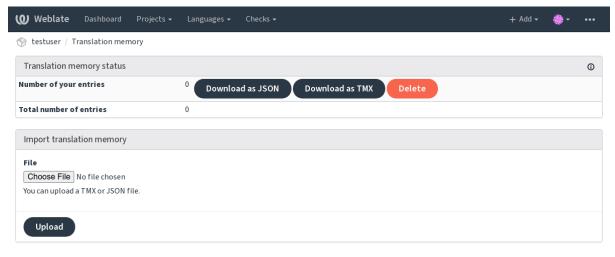
?????? 3.2 ????.

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.

Translation memory in JSON can be imported into Weblate, TMX is provided for interoperability with other tools.

??:

Weblate [?]??????



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Management interface

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

??

22222222 settings.py 22222222Django 22222222

??:

AKISMET_API_KEY

ANONYMOUS_USER_NAME

??:

AUDITLOG_EXPIRY

??????? 3.6 ????.

??????? 180 ?????

AUTH_LOCK_ATTEMPTS

?????? 2.14 ????.

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

22222 10 2222

??:

?????,

AUTO_UPDATE

?????? 3.2 ????.

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

?????t???

????????

??????????

AVATAR_URL_PREFIX

????????????ENABLE_AVATARS?Avatars

AUTH_TOKEN_VALID

?????? 2.14 ????.

AUTH_PASSWORD_DAYS

?????? 2.15 ????.

??????? 180 ?????

AUTOFIX_LIST

????????

safe-html 2002020202020202020 HTML 202202020202020 2020 HTML

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

```
AUTOFIX_LIST = (
    "weblate.trans.autofixes.whitespace.SameBookendingWhitespace",
    "weblate.trans.autofixes.chars.ReplaceTrailingDotsWithEllipsis",
)
```

??:

BASE DIR

DATA DIR

BASIC LANGUAGES

?????? 4.4 ????.

??

```
BASIC_LANGUAGES = {"cs", "it", "ja", "en"}
```

??:

Language definitions

CSP_SCRIPT_SRC?CSP_IMG_SRC?CSP_CONNECT_SRC?CSP_STYLE_SRC?CSP_FONT_SRC

??

```
# Enable Cloudflare Javascript optimizations
CSP_SCRIPT_SRC = ["ajax.cloudflare.com"]
```

??:

Content security policy 222222 22222 2222CSP2

CHECK_LIST

```
CHECK_LIST = ()
```

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

```
CHECK_LIST = (
    "weblate.checks.chars.BeginNewlineCheck",
    "weblate.checks.chars.EndNewlineCheck",
    "weblate.checks.chars.MaxLengthCheck",
)
```

??:

?????**?**??????????

COMMENT_CLEANUP_DAYS

22222 3.6 222.

COMMIT_PENDING_HOURS

?????? 2.10 ????.

??:

Component configuration [2] [2] [2] [2] [2] [2] [2] [2] [2] Running maintenance tasks [2] commit_pending

DATA_DIR

22222222222

????

SSH ??????

MEDIA_ROOT 22222Django 2222 22222222222222

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

22222222 222222 Dumped data for backups 2222222222

sudo chown www-data:www-data -R \$DATA_DIR

?????? \$BASE_DIR/data ????

??:

BASE_DIR Placking up and moving Weblate

DATABASE_BACKUP

?????? 3.1 ????.

"plain"

"compressed"

"none"

??:

Backing up and moving Weblate

DEFAULT_ACCESS_CONTROL

?????? 3.3 ????.

22222

???????

|?||?||?||?

??:

DEFAULT_RESTRICTED_COMPONENT

?????? 4.1 ????.

??:

DEFAULT ADD MESSAGE?DEFAULT ADDON MESSAGE?DEFAULT COMMIT MESSAGE?DEFAULT DEI

??:

Template markup?!Component configuration?!Commit, add, delete, merge and addon messages

DEFAULT_ADDONS

??

```
DEFAULT_ADDONS = {
    # Addon with no parameters
    "weblate.flags.target_edit": {},
    # Addon 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 ????.

??:

DEFAULT_COMMITER_NAME

?????? 2.4 ????.

??:

DEFAULT_LANGUAGE

?????? 4.3.2 ????.

??:

Language definitions?????????

DEFAULT_MERGE_STYLE

?????? 3.4 ????.

rebase - ??????

merge

??:

DEFAULT_TRANSLATION_PROPAGATION

?????? 2.5 ????.

??:

DEFAULT_PULL_MESSAGE

ENABLE AVATARS

??:

ENABLE HOOKS

??:

[?][?][?][?]

ENABLE HTTPS

The HTTPS redirection might be problematic in some cases and you might hit issue with infinite redirection in case you are using a reverse proxy doing SSL termination which does not correctly pass protocol headers to Django. Please tweak your reverse proxy configuration to emit X-Forwarded-Proto or Forwarded headers or configure SE-CURE_PROXY_SSL_HEADER to let Django correctly detect the SSL status.

22

SESSION_COOKIE_SECURE COOKIE_SECURE SECURE SECURE SECURE PROXY_SSL_HEADER Set correct site domain

ENABLE SHARING

GITLAB_CREDENTIALS

?????? 4.3 ????.

```
GITLAB_CREDENTIALS = {
    "gitlab.com": {
        "username": "weblate",
        "token": "your-api-token",
},
    "gitlab.example.com": {
        "username": "weblate",
        "token": "another-api-token",
},
}
```

GITLAB_USERNAME

??:

GITLAB_CREDENTIALS?!GitLab

GITLAB_TOKEN

?????? 4.3 ????.

22222222 API 22222 GitLab 222222 2222

?|?|:

GITLAB CREDENTIALS GitLab GitLab: Personal access token

GITHUB_CREDENTIALS

?????? 4.3 ????.

```
GITHUB_CREDENTIALS = {
    "api.github.com": {
        "username": "weblate",
        "token": "your-api-token",
    },
    "github.example.com": {
        "username": "weblate",
        "token": "another-api-token",
    },
}
```

GITHUB USERNAME

??:

GITHUB_CREDENTIALS ?! GitHub

GITHUB_TOKEN

?????? 4.3 ????.

??:

GITHUB_CREDENTIALS GitHub Creating a personal access token

GOOGLE_ANALYTICS_ID

HIDE_REPO_CREDENTIALS

??: ?????????????????

HIDE_VERSION

?????? 4.3.1 ????.

??: ???????????

IP_BEHIND_REVERSE_PROXY

?????? 2.14 ????.

True 2222222222Weblate ? IP_PROXY_HEADER 2222222222 IP 22222222222

??: ?????????????????

??:

IP_PROXY_HEADER

?????? 2.14 ????.

??:

IP_PROXY_OFFSET

?????? 2.14 ????.

222222 0 222

??:

LEGAL_URL

?????? 3.5 ????.

??

```
LEGAL_URL = "https://weblate.org/terms/"
```

LICENSE_EXTRA

??

```
LICENSE_EXTRA = [
    (
          "AGPL-3.0",
          "GNU Affero General Public License v3.0",
          "https://www.gnu.org/licenses/agpl-3.0-standalone.html",
    ),
]
```

LICENSE_FILTER

??

```
LICENSE_FILTER = {"AGPL-3.0", "GPL-3.0-or-later"}
```

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

```
LICENSE_FILTER = set()
```

??:

alerts

LICENSE REQUIRED

??: ??????????????

LIMIT_TRANSLATION_LENGTH_BY_SOURCE_LENGTH

??: ??????? True ????

LOCALIZE_CDN_URL ???? LOCALIZE_CDN_PATH

22: Hosted Weblate 22: https://weblate-cdn.com/ 22:22:

??:

JavaScript ????? CDN

LOGIN_REQUIRED_URLS

22222222 URL 22222Weblate 2222222222222222222

```
LOGIN_REQUIRED_URLS = (r"/(.*)$",)
REST_FRAMEWORK["DEFAULT_PERMISSION_CLASSES"] = [
    "rest_framework.permissions.IsAuthenticated"
]
```

??:

REQUIRE_LOGIN

LOGIN_REQUIRED_URLS_EXCEPTIONS

??????????

```
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_URL

MATOMO_URL

Weblate 2222222222222 Matomo2222 Piwik22222222 URL22222222222222 https://matomo.org/ 22222222222

?

```
MATOMO_SITE_ID = 1
MATOMO_URL = "https://example.matomo.cloud/"
```

??:

MATOMO_SITE_ID

MT_SERVICES

```
MT_SERVICES = (
    "weblate.machinery.apertium.ApertiumAPYTranslation",
    "weblate.machinery.deepl.DeepLTranslation",
    "weblate.machinery.glosbe.GlosbeTranslation",
    "weblate.machinery.google.GoogleTranslation",
    "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 22222 URL2 https://wiki.apertium.org/wiki/Apertium-apy

??:

MT AWS ACCESS KEY ID

Amazon ????????? ID?

??:

MT_AWS_SECRET_ACCESS_KEY

???????? API ?????

77.

MT_AWS_REGION

??:

AWS???????????

MT_BAIDU_ID

Baidu Zhiyun API 22222 ID 22https://api.fanyi.baidu.com/api/trans/product/index 2222222:

MT_BAIDU_SECRET

MT_DEEPL_API_VERSION

?????? 4.1.1 ????.

DeepL 22222222 API 2222222222222222222222222

??:

DeepL???????????

MT_DEEPL_KEY

DeepL API ? API ? https://www.deepl.com/pro.html ????

??:

DeepL????????????

MT GOOGLE KEY

Google Translate API v2 2 API 22 register at https://cloud.google.com/translate/docs 22 22

??:

MT_GOOGLE_CREDENTIALS

MT_GOOGLE_PROJECT

MT GOOGLE LOCATION

22. https://cloud.google.com/appengine/docs/locations 22.22.22.22

??:

Google Translate API V3 (Advanced)

MT_MICROSOFT_BASE_URL

"Base URLs" ?????? ??????????????? ??? URL ?????

Azure 22.22.22.22.22.22.22 api.cognitive.microsofttranslator.com 202

Azure China ??????api.translator.azure.cn ???????????

MT_MICROSOFT_COGNITIVE_KEY

Microsoft Cognitive Services Translator API 222222222

??:

MT_MICROSOFT_REGION

MT_MICROSOFT_ENDPOINT_URL

MT_MODERNMT_KEY

ModernMT [?]?]?]?]?]?] API [?]?]

??:

ModernMT MT_MODERNMT_URL

MT MODERNMT URL

ModernMT MT_MODERNMT_KEY

MT_MYMEMORY_EMAIL

MyMemory 2222222222222MyMemory: API technical specifications

MT_MYMEMORY_KEY

MyMemory???????????MyMemory: API key generator

MT_MYMEMORY_USER

MyMemory???????????!MyMemory: API key generator

MT_NETEASE_KEY

NetEase Sight API [] App key[]https://sight.youdao.com/ [][][][]

MT_NETEASE_SECRET

NetEase Sight API ? App secret? https://sight.youdao.com/ ?????

??:

MT_TMSERVER

tmserver ???????? URL?

??:

tmserver????????????tmserver

MT_YANDEX_KEY

Yandex Translate API [2] API key[2]https://yandex.com/dev/translate/ [2][2][2]

??

MT_YOUDAO_ID

Youdao Zhiyun API 222222 ID 22https://ai.youdao.com/product-fanyi-text.s 222222:

MT_YOUDAO_SECRET

Youdao Zhiyun API ? Client secret ? https://ai.youdao.com/product-fanyi-text.s ? ? ? ? ? ? ? ? ? ? .

MT_SAP_BASE_URL

SAP ????? ??????? API URL?

??:

MT_SAP_SANDBOX_APIKEY

???????? API ??? API key

??:

SAP Translation Hub?????????????

MT_SAP_USERNAME

SAP ?????

??:

SAP Translation Hub????????????

MT_SAP_PASSWORD

SAP ??????

??:

SAP Translation Hub????????????

MT_SAP_USE_MT

??:

SAP Translation Hub????????????

NEARBY_MESSAGES

PAGURE CREDENTIALS

?????? 4.3.2 ????.

```
PAGURE_CREDENTIALS = {
    "pagure.io": {
        "username": "weblate",
        "token": "your-api-token",
    },
    "pagure.example.com": {
        "username": "weblate",
        "token": "another-api-token",
    },
}
```

PAGURE_USERNAME

?????? 4.3.2 ????.

??:

PAGURE_CREDENTIALS Pagure

PAGURE_TOKEN

?????? 4.3.2 ????.

??:

PAGURE_CREDENTIALS Pagure Pagure API

RATELIMIT ATTEMPTS

?????? 3.2 ????.

?????? 5 ?????

??:

22222 RATELIMIT WINDOW PRATELIMIT LOCKOUT

RATELIMIT_WINDOW

??????? 3.2 ????.

??????? 300 ??5 ??????

??:

22222 RATELIMIT_ATTEMPTS RATELIMIT_LOCKOUT

RATELIMIT_LOCKOUT

?????? 3.2 ????.

222222 600 2210 22222

??:

22222RATELIMIT_ATTEMPTS?RATELIMIT_WINDOW

REGISTRATION_ALLOW_BACKENDS

?????? 4.1 ????.

?

REGISTRATION_ALLOW_BACKENDS = ["azuread-oauth2", "azuread-tenant-oauth2"]

???: 2222222222222 URL 22222222222222

??:

REGISTRATION_OPEN???

REGISTRATION CAPTCHA

?????????

?????????

REGISTRATION EMAIL MATCH

?????? 2.17 ????.

REGISTRATION EMAIL MATCH = r"^.*@weblate\.org\$"

REGISTRATION OPEN

??:

REGISTRATION_ALLOW_BACKENDS PREGISTRATION_EMAIL_MATCH 1972

REPOSITORY ALERT THRESHOLD

?????? 4.0.2 ????.

??:

alerts

REQUIRE_LOGIN

?????? 4.1 ????.

SENTRY_DSN

?????? 3.9 ????.

Collecting error reports ?????? Sentry DSN?

??:

Sentry ? Django ??

SESSION COOKIE AGE AUTHENTICATED

?????? 4.3 ????.

SESSION COOKIE AGE

??

SESSION_COOKIE_AGE

SIMPLIFY_LANGUAGES

SITE DOMAIN

?:

```
# Production site with domain name
SITE_DOMAIN = "weblate.example.com"

# Local development with IP address and port
SITE_DOMAIN = "127.0.0.1:8000"
```

??:

Set correct site domain Allowed hosts setup Correctly configure HTTPS WEBLATE_SITE_DOMAIN ENABLE_HTTPS

SITE_TITLE

SPECIAL CHARS

????????

 $SPECIAL_CHARS = ("\t", "\n", "...")$

SINGLE_PROJECT

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

?

SINGLE_PROJECT = "test"

STATUS URL

SUGGESTION_CLEANUP_DAYS

??????? 3.2.1 ????.

UPDATE LANGUAGES

?????? 4.3.2 ????.

setuplang

??:

URL_PREFIX

???: ????? / ???????????

?

URL_PREFIX = "/translations"

VCS BACKENDS

22222 VCS 222222222

```
VCS_BACKENDS = ("weblate.vcs.git.GitRepository",)
```

??:

VCS CLONE DEPTH

?????? 3.10.2 ????.

VCS CLONE DEPTH = 0

WEBLATE ADDONS

```
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",
    # Addon you want to include
    "weblate.addons.example.ExampleAddon",
```

??:

??:

??????DEFAULT ADDONS

WEBLATE_EXPORTERS

??????? 4.2 ????.

Supported file formats

WEBLATE_FORMATS

22222 3.0 222.

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

??:

Supported file formats

WEBLATE_GPG_IDENTITY

?????? 3.1 ????.

```
WEBLATE_GPG_IDENTITY = "Weblate <weblate@example.com>"
```

Signing Git commits with GnuPG 2222222222

??:

Signing Git commits with GnuPG

??????

```
# Copyright @ 2012 - 2021 Michal Čihař <michal@cihar.com>
  This file is part of Weblate <a href="https://weblate.org/">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 <a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>.
```

```
import os
import platform
from logging.handlers import SysLogHandler
# 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,
        },
    }
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 = (
        GUAGES = (
    ("ar", "äg, μյε Jl"),
    ("az", "Azərbaycan"),
    ("be", "Беларуская"),
    ("be@latin", "Biełaruskaja"),
    ("bg", "Български"),
    ("br", "Brezhoneg"),
    ("ca", "Català"),
    ("cs", "Čeština"),
    ("da", "Dansk"),
    ("de", "Deutsch"),
    ("en", "English"),
    ("el", "Eλληνικά"),
    ("en-gb", "English (United Kin
         ("en-gb", "English (United Kingdom)"),
        ("en-gb", "English (
("es", "Español"),
("fi", "Suomi"),
("fr", "Français"),
("gl", "Galego"),
("he", "הערית"),
("hu", "Magyar"),
("hr", "Hrvatski"),
("id", "Indonesia"),
("is" "fslenska")
        ("id", "Indonesia"),
("is", "Íslenska"),
("it", "Italiano"),
("ja", "202"),
("kab", "Taqbaylit"),
("kk", "Kasaκ τίπί"),
("ko", "202"),
("nb", "Norsk bokmål"),
("nl", "Nederlands"),
("pl", "Português"),
("pt", "Português br
         ("pt-br", "Português brasileiro"),
        ("pt-br", "Portugues b

("ru", "Русский"),

("sk", "Slovenčina"),

("sl", "Slovenščina"),

("sq", "Shqip"),

("sr", "Српски"),

("sv", "Svenska"),

("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
# URL prefix to use, please see documentation for more details
URL_PREFIX = "'
# Absolute filesystem path to the directory that will hold user-uploaded...
\hookrightarrow 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,
        },
    }
1
# GitHub username for sending pull requests.
# Please see the documentation for more details.
GITHUB_USERNAME = None
GITHUB_TOKEN = None
# GitLab username 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.
→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")
    # },
]
# Allow new user registrations
REGISTRATION_OPEN = True
# Shortcut for login required setting
REOUIRE 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",
ROOT_URLCONF = "weblate.urls"
# Diango 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",
    # 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
\hookrightarrow% (message) s"},
        "simple": {"format": "[%(asctime)s: %(levelname)s/%(process)s]
\hookrightarrow% (message) \stackrel{-}{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",
        "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"],
    """ "TNFO",
            "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.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
# 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
# Title of site to use
SITE TITLE = "Weblate"
# Site domain
SITE_DOMAIN = ""
# Whether site uses https
ENABLE HTTPS = False
# 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
SECURE_REFERRER_POLICY = "same-origin"
# SSL redirect URL exemption list
SECURE_REDIRECT_EXEMPT = (r"healthz/$",) # Allowing HTTP access to health_
\hookrightarrowcheck
# Session cookie age (in seconds)
SESSION_COOKIE_AGE = 1000
SESSION_COOKIE_AGE_AUTHENTICATED = 1209600
# 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
# 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 =
# 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.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.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",
#
# 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.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.yaml.YAMLCustomizeAddon",
      "weblate.addons.cdn.CDNJSAddon",
      "weblate.addons.autotranslate.AutoTranslateAddon",
#
#
# 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/(.*)$",
                                   # Allowing access to API
    rf"{URL_PREFIX}/js/i18n/$",
rf"{URL_PREFIX}/contact/$",
                                  # JavaScript localization
                                  # Optional for contact form
     rf"{URL_PREFIX}/legal/(.*)$", # 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
AKISMET_API_KEY = None
```

Management commands

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 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
```

??:

Installing using Docker Installing on Debian and Ubuntu Installing on SUSE and openSUSE Installing on RedHat, Fedora and CentOS INSTALLING ON THE ARCHITECTURE IN THE STATE OF THE ARCHITECTURE IN THE STATE OF THE S

add_suggestions

weblate add_suggestions ct> <component> <language> <file>

?????? 2.5 ????.

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 / \hookrightarrow tmp/suggestions-cs.po

auto translate

weblate auto_translate ct> <component> <language>

?????? 2.5 ????.

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 22222).

--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.

??

```
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 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*.

??:

Running maintenance tasks [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.

?

Running maintenance tasks

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).

20222 2.9 222: Added parameters --username, --email, --name and --update.

dump_memory

weblate dump_memory

?????? 2.20 ????.

Export a JSON file containing Weblate Translation Memory content.

??:

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

22222 4.1 222.

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 <code>GET /api/components/(string:project)/(string:component)/</code>). 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.

22222 2.9 222: 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",
    "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.
```

This can be useful in case your TMX file locales happen not to match what you use in Weblate.

??:

[?|]?||?||?||?||?||Weblate |?||?||?||?||?||?

import project

weblate import_project project < gitrepo > <branch > <filemask >

22222 3.0 222: The import_project command is now based on the 222222222 addon, leading to some changes in behavior and what parameters are accepted.

Batch imports components into project based on filemask.

cproject> 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.

```
For example: Documentation: {{ component }}
```

--base-file-template TEMPLATE

Customize the base file for monolingual translations.

For example: {{ component }}/res/values/string.xml

--new-base-template TEMPLATE

Customize the base file for addition of new translations.

```
For example: {{ component }}/ts/en.ts
```

--file-format FORMAT

You can also specify the file format to use (see Supported file formats), 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 ????.

Installs an addon to a set of components.

--addon ADDON

Name of the addon to install. For example weblate.gettext.customize.

--configuration CONFIG

JSON encoded configuration of an addon.

--update

Update the existing addon configuration.

You can either define which project or component to install the addon 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.110n.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 oject|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.

unlock_translation

weblate unlock_translation copect|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 222222222222222.

??:

??????

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 ct|project/component>

Updates all checks for all strings.

222: 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 2222, instead of regular polling by updategit.

????

22222 4.0 222: In prior releases this feature was called whiteboard messages.

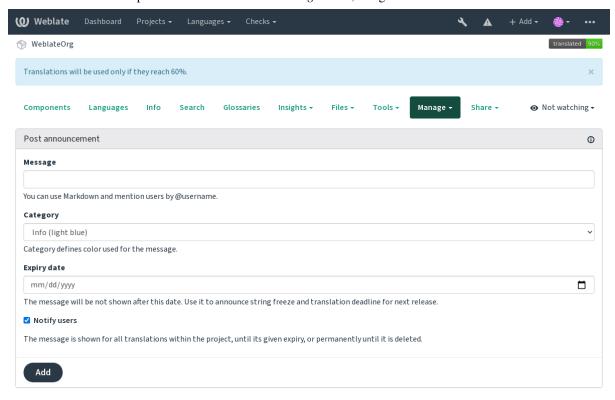
Provide info to your translators by posting announcements, site-wide, per project, component, or language.

Announce the purpose, deadlines, status, or specify targets for translation.

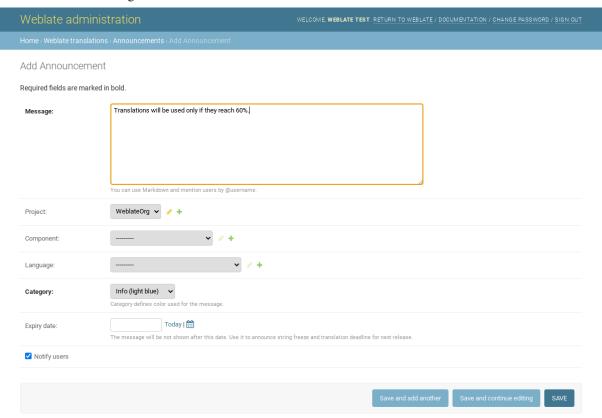
The users will receive notification on the announcements for watched projects (unless they opt out).

This can be useful for various things from announcing the purpose of the website to specifying targets for translations.

The announcements can posted on each level in the Manage menu, using Post announcement:



It can be also added using the admin interface:



The announcements are then shown based on their specified context:

No context specified

Shown on dashboard (landing page).

Project specified

Shown within the project, including all its components and translations.

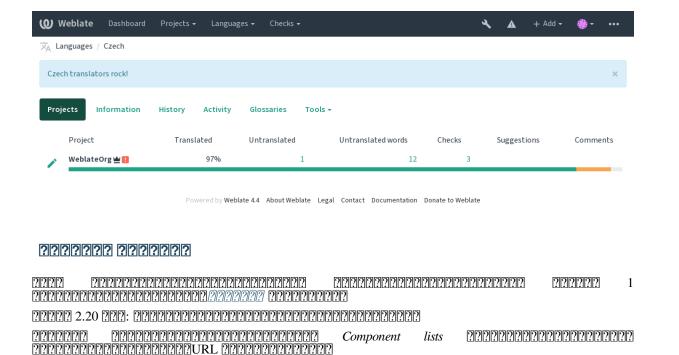
Component specified

Shown for a given component and all its translations.

Language specified

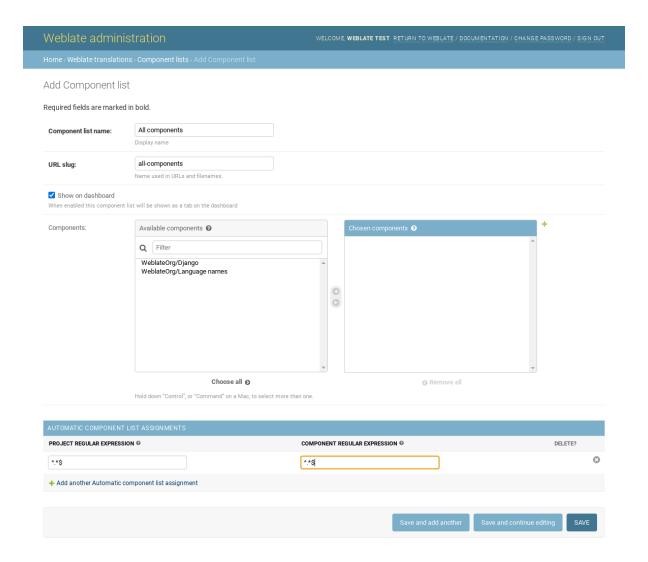
Shown on the language overview and all translations in that language.

This is how it looks on the language overview page:



?????? 2.13 ????.

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/master/.

Repositories for publicly available projects can be cloned without authentication:

```
git clone 'https://example.org/git/weblate/master/'
```

```
git clone 'https://user:KEY@example.org/git/weblate/master/'
```

?

?????? 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 222222.

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/master/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 $EN-ABLE_AVATARS$.

Weblate currently supports:

Gravatar

??:

Spam protection

You can protect against suggestion spamming by unauthenticated users by using the akismet.com service.

- 1.Install the akismet Python module
- 2. Configure the Akismet API key.

This (among other things) relies on IP address of the client, please see 2222 22222222 for properly configuring that.

??:

Signing Git commits with GnuPG

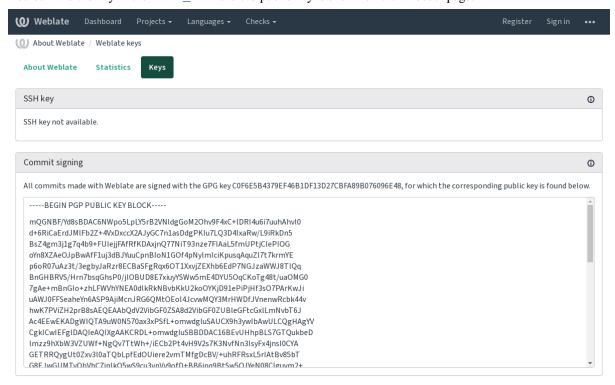
?????? 3.1 ????.

All commits can be signed by the GnuPG key of the Weblate instance.

1. Turn on <code>WEBLATE_GPG_IDENTITY</code>. (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:



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2. Alternatively you can also import existing keys into Weblate, just set <code>HOME=\$DATA_DIR/home</code> when invoking gpg.

??:

WEBLATE_GPG_IDENTITY

????

???????????

??	??	???	???????	?????????
??	REGISTRATION NECESTRATION	ON 5	300	600
????????????	MESSAGE	5	300	600
??????????????	?LOGIN	5	300	600
???????	SEARCH	6	60	60
??	TRANSLATE	30	60	600
????????	GLOSSARY	30	60	600

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:

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

Branding appears in the following files:

/weblate.svgLogo shown in the navigation bar.

logo-*.pngWeb icons depending on screen resolution and web-browser.

favicon.icoWeb icon used by legacy browsers.

eblate-*.pngAvatars for bots or anonymous users. Some web-browsers use these as shortcut icons.

ail-logo.pngUsed 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.

??:

Managing static files (e.g. images, JavaScript, CSS) [Serving static files


```
# Checks
CHECK_LIST += ("weblate_customization.checks.FooCheck",)

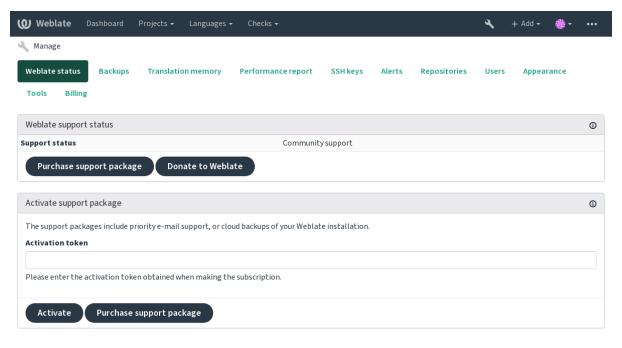
# Autofixes
AUTOFIX_LIST += ("weblate_customization.autofix.FooFixer",)

# Addons
WEBLATE_ADDONS += ("weblate_customization.addons.ExamplePreAddon",)
```

??:

Management interface

The management interface offer administration settings under the /manage/ URL. It is available for users signed in with admin privileges, accessible by using the wrench icon top right:



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It includes basic overview of your Weblate:

Support status, see Getting support for Weblate

Backups, see Backing up and moving Weblate

Performance report to review Weblate health and length of Celery queues

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

Alerts overview for all components, see alerts

The Django admin interface

Will be removed in the future, as its use is discouraged—most features can be managed directly in Weblate.

Here you can manage objects stored in the database, such as users, translations and other settings:

Weblate administration

Site administration



Recent actions

My actions

None available

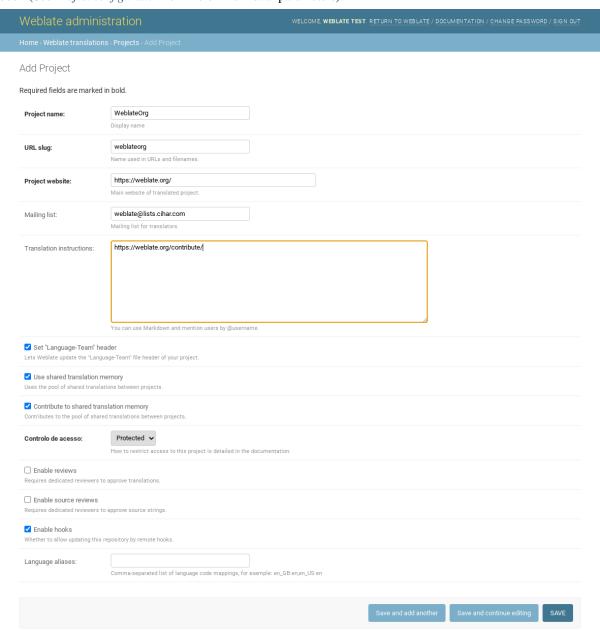
In the *Reports* section, you can check the status of your site, tweak it for *Production setup*, or manage SSH keys used to access 2222222222.

Manage database objects under any of the sections. The most interesting one is probably *Weblate translations*, where you can manage translatable projects, see *Project configuration* and *Component configuration*.

Weblate languages holds language definitions, explained further in Language definitions.

Adding a project

Adding a project serves as container for all components. Usually you create one project for one piece of software, or book (See *Project configuration* for info on individual parameters):

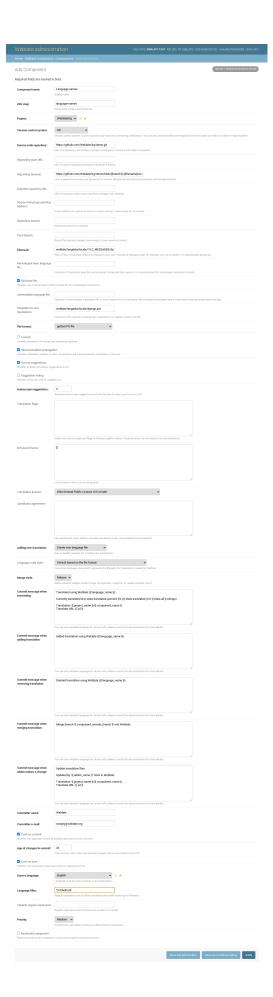


??:

Project configuration

Bilingual components

Once you have added a project, translation components can be added to it. (See *Component configuration* for info regarding individual parameters):



??:

Component configuration Pailingual and monolingual formats

Monolingual components

For easier translation of these, provide a template file containing the mapping of message IDs to its respective source language (usually English). (See *Component configuration* for info regarding individual parameters):



??:

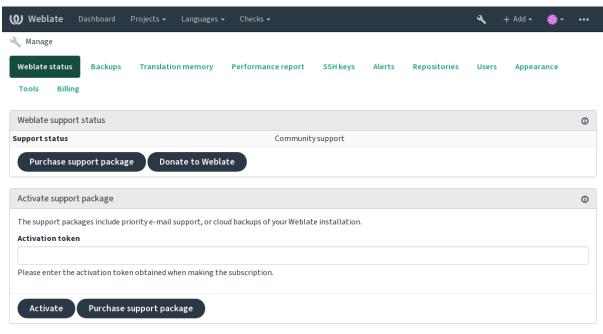
Component configuration [Pailingual and monolingual formats

Getting support for Weblate

Integrating support

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

Purchased support packages can optionally be integrated into your Weblate subscription management interface, from where you will find a link to it. Basic instance details about your installation are also reported back to Weblate this way.



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Data submitted to the Weblate

URL where your Weblate instance is configured

Your site title

The Weblate version you are running

Tallies of some objects in your Weblate database (projects, components, languages, source strings and users)

The public SSH key of your instance

No other data is submitted.

Integration services

See if your support package is still valid

Weblate provisioned backup storage

Purchased support packages are already activated upon purchase, and can be used without integrating them.

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)

22

Export Controls (EAR) on Open Source Software

?????????

Weblate ???

Weblate \(\text{10} \text

Weblate [?][?][?][?]

Weblate [?]?????????

Weblate [2][2]

Weblate ???

Weblate ????????

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

Weblate ?????:

Yashiro Ccs

Cheng-Chia Tseng

Timon Reinhard

Cassidy James

Loic Dachary

Marozed

https://freedombox.org/

GNU Solidario (GNU Health)

BallotReady

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

Weblate | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 | 2020 |

???????????

Weblate ????????

1. Weblate ????????????

git clone https://github.com/WeblateOrg/weblate.git
cd weblate

2.virtualenv ?????

virtualenv .venv
.venv/bin/activate

pip install -e .

pip install -r requirements-dev.txt

4.????????:

weblate runserver

./weblate/examples/celery start

- . scripts/test-database
- ./manage.py test

??:

Docker??????? Weblate ????

./rundev.sh

Dockerfile 2 docker-compose.yml 22dev-docker 22222222222

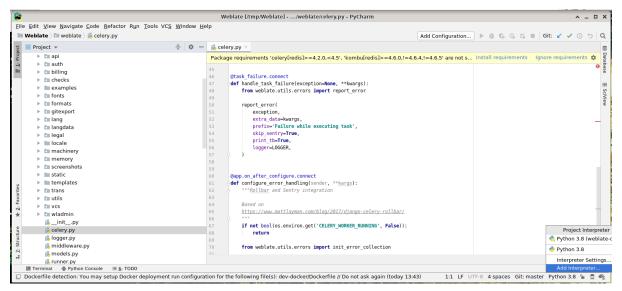
./rundev.sh test --failfast weblate.trans

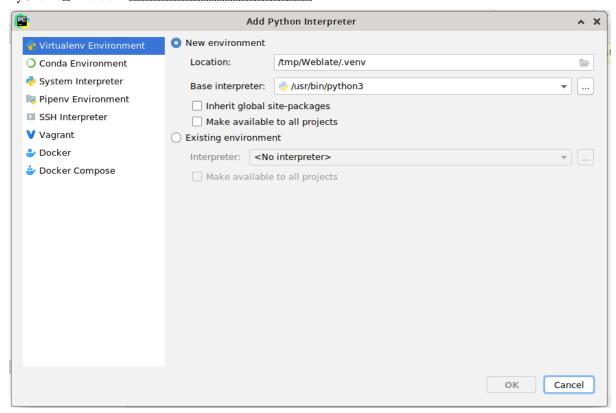
????????

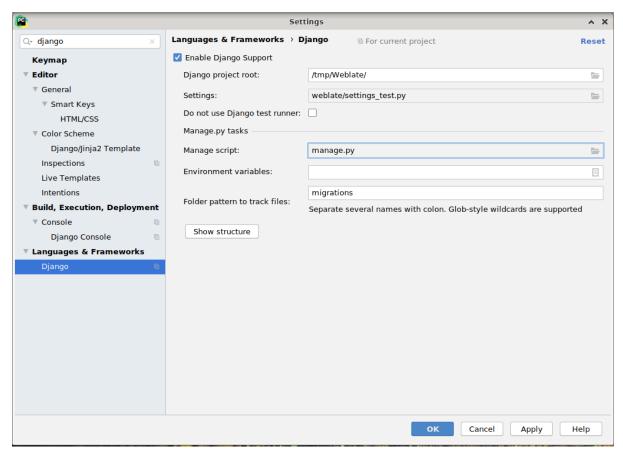
./rundev.sh logs

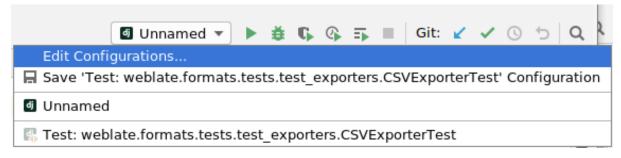
./rundev.sh stop

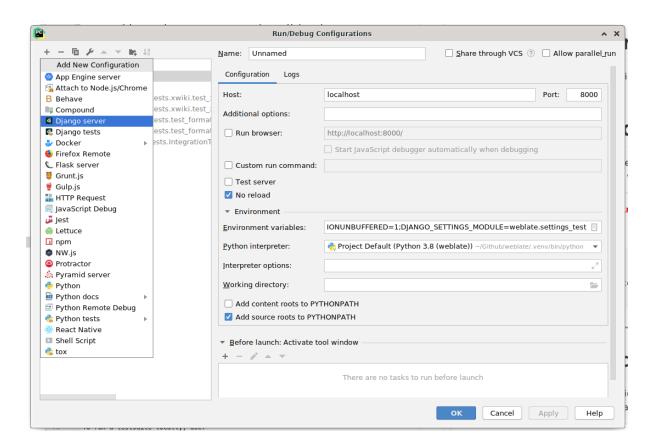
PyCharm ???? Weblate ????????











Be careful with the property called *No reload*: if you check it, the server live reloads won't happened when you modify files. This allows the existing debugger breakpoints to persist as these would be discarded on reload.

Weblate [?]?]? ?[?]?[?]?[Weblate [?]?[?]?[?]?[?]?[?]?[?]?[?]?

??????????

????????

pre-commit run --all

Debugging Weblate

Bugs can behave as application crashes or as misbehavior. You are welcome to collect info on any such issue and submit it to the issue tracker.

???????

Turning on debug mode will make the exceptions show in the browser. This is useful to debug issues in the web interface, but not suitable for production environment as it has performance consequences and might leak private data

??:

Disable debug mode

Weblate logs

Weblate can produce detailed logs of what is going 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 *Background tasks using Celery*) usually produces own logs as well. The example system-wide setups log to several files under /var/log/celery/.

Docker containers log to their output (as usual in the Docker world), so you can look at the logs using docker-compose logs.

??:

222222 contains LOGGING configuration.

Not processing background tasks

Lot of things happen in background Celery workers. In case things like sending out e-mails or component removal does not work, there might be some issue with it.

????????:

Check Celery process is running, see Background tasks using Celery

Check Celery queue status either in *Management interface* or using celery_queues

Look into 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 <code>sendtestemail</code> management command (see *Invoking management commands* for instructions on how to invoke it in different environments) or using *Management interface* under the *Tools* tab.

These send e-mail directly, so this verifies that your SMTP configuration is correct (see 2222222). 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. The easiest way to achieve this is by using third-party services which can collect such info automatically. You can find info on how to set this up in *Collecting error reports*.

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 *Collecting error reports* helps you to notice such failures easier.

Performance issues

In case Weblate performs badly in some situation, 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 *Collecting error reports* and get pinpointed and detailed tracebacks in the error collection tool.

Weblate ???

???????

`**Django<https://www.djangoproject.com/>**`_ 22222222222 Weblate 2222 Weblate 2222

?????

accounts

addons

api

Django REST framework ???????? API?

auth

????????

billing

???????*??*???????

checks

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

fonts

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

formats

gitexport

??????? Git exporter ???????

lang

legal

machinery

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

memory

????????????*?????*??

screenshots

22222222222 OCR 222222

trans

utils

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

VCS

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

wladmin

2222222 Django 222222

???????

class weblate.addons.base.BaseAddon(storage=None)

configure (settings)

daily (component)

??????????

post_commit (component)

pre_commit (translation, author)

save_state()
???????????????

stay_on_create = False

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.

???????

```
Copyright © 2012 - 2021 Michal Čihař <michal@cihar.com>
# This file is part of Weblate <a href="https://weblate.org/">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 <a href="https://www.gnu.org/licenses/">https://www.gnu.org/licenses/</a>>.
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 addon should receive
    events = (EVENT_PRE_COMMIT,)
    # Addon unique identifier
    name = "weblate.example.example"
     # Verbose name shown in the user interface
    verbose = _("Example addon")
     # Detailed addon description
    description = _("This addon does nothing it is just an example.")
     # Callback to implement custom behavior
    def pre commit(self, translation, author):
         return
```

Weblate ???????

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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.

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??????????

Weblate 22JavaScript 22222 CSS 2222222222 22222 Prettier 222222222 22 ESLint 22222 JavaScript 22222222222

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Translation topic in the Django documentation

????

Weblate ??????

2222 222222 2 GitHub 2222:

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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.

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 COEE 5A32 9C27 B313 42B7 511D. You can also get the PGP key from Keybase.

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:

Diango

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
./ci/run-setup
```

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 222222222 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. \hookrightarrowgitexport
```

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See Testing in Django for more info on running and writing tests for Django.

???????

Weblate ???????

https://weblate.org/schemas/weblate-memory.schema.json

??? ??????? ????? ?!?!?!?!?!?!?!? category 1 = ????????2 = ????10000000 ??? = [?][?] ? 1 ?? 0 1 origin ?????????????????? [2][2][2] ? test ????? ??? ? source 222 ? Hello minLength 1 ?????? source_language ISO 639-1 / ISO 639-2 / IETF BCP 47 222 <u>?</u>??? ^[^]+\$????? target 2222222 [?][?][?] ? ? Ahoj minLength ????? target_language ISO 639-1 / ISO 639-2 / IETF BCP 47 222 ? ????? ?????? ^[^]+\$??????? False ?? ??: Weblate ????? ??????????? https://weblate.org/schemas/weblate-userdata.schema.json ??????? <u>?????</u> [?][?] basic ? [2][2][2][2][2][2] ????? username Username ? <u>?</u>!?!?! ??? <u>?????</u>? full_name **?? ???**?

222

Weblate ????

?

?

```
Table 5 - ?????????????
                                ?????
                email
                                ?
                                                222
                                                noreply@example.com
                                ?????
                date_joined
                                222
                                                2019-11-18T18:53:54.862Z
                                ?????
profile
                222222
                ?
                                22222
                ?????
                                [?][?]
                language
                                ?
                                                [?][?]
                                ?
                                                cs
                                                ^.*$
                                ????
                                ?????
                suggested
                                ?
                                                [?][?]
                                <u>?</u>?????
                                                0
                                translated
                                                ?!?
                                                24
                                ?????
                                                0
                uploaded
                                <u>????????????????</u>
                                               ?
                                                ?!?
                                <u>?</u>????
                                                0
                                hide_completed
                                                boolean
                                ?
                                                False
                                ?????
                                                True
                secondary_in_zen
                                boolean
                                ?
                                                True
                                ?????
                                                True
                                hide_source_secondary
                                                boolean
                                                False
                                ?????
                                                True
                editor_link
                                222
                                ????
                                                ^.*$
                                ?????
                                222222 222
                translate_mode
                                ?
                                                [?][?]
                                ?????
                                                0
                                Zen [?][?][?][?]
                zen_mode
                                                ?!?
                                ?????
                                                0
                special_chars
                                2222
                                ?
                                                222
                                ????
                                                ^.*$
                                ?????
                dashboard_view
                                [?][?]
                                ?
                                ?
                                                1
                                ?????
                                                0
```

dashboard_component[?[?st?]

????????

null

		ole 5 – ??????????? ?????		null [2][2]
	secondary_languages	2022 2 20222 22222 22	212 212222 2 2 21222	222 cs ^.*\$
		<u>2222</u> 2 20222 22	2222 22 2222 2 2	222 sk
		222222222 2 22222 22222	2222 2222 22 22 22 22 22 2	^.*\$ 222 weblate
_	2222 22	<i>2 2</i> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	^.*\$
		address user_agent	IP 2222 2 2 2022 2222 2222 2222 2222 2222	222 127.0.0.1 ^.*\$ 222 PC / Linux / Firefox 70.0
		timestamp	21212 2121212 21212121212 2 2 2	^.*\$ 222 2019-11- 18T18:58:30.845Z
22		activity	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	^.*\$ 2/2/2 2/2/2 2/2/2 ^.*\$

??:

????????dumpuserdata

Weblate ?????

?????????

Weblate has two month release cycle for releases (x,y). These are usually followed by a bunch of bugfix releases to fix issues which slip into them (x,y,z).

The change in the major version indicates that the upgrade process can not skip this version - you always have to upgrade to x.0 before upgrading to higher x.y releases.

22

Upgrading Weblate

Release planning

The features for upcoming releases are collected using GitHub milestones, you can see our roadmap at https://github.com/WeblateOrg/weblate/milestones.

Release process

???????????:

- 2../scripts/prepare-release ????????????????

- 5.Docker ?????????

?????????????????? GnuPG

Weblate git 222222 push 22222 push2

Weblate ????

?????????

Web-based continuous localization tool with tight [2022/2022] supporting a wide range of Supported file formats, making it easy for translators to contribute.

???????

"Weblate" ???"web" ?! "translate" ????????????????

??????? Web ????

?????????

???

22222222 Michal Čihař <michal@cihar.com> 2222222222222

???

?????

Copyright (C) 2012 - 2021 Michal Čihař <michal@cihar.com>

????

Weblate 4.4.1

Released on January 13th 2021.

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

Fixed displaying help for project settings.

???????????

Fixed cleanup addon behavior with HTML, ODF, IDML and Windows RC formats.

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.

Fixed cleanup addon breaking adding new strings.

Added API for addons.

Weblate 4.4

Released on December 15th 2020.

Weblate now requires Django 3.1.

Fixed read-only state handling in bulk edit.

CodeMirror ????????

Syntax highlighting in translation editor for XML, HTML, Markdown and reStructuredText.

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 ?????

2222 [222222] 222222

Added tasks API.

2222 222222222222

Improved display of user defined special characters.

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

Improved naming of ZIP downloads.

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

Weblate 4.3.2

Released on November 4th 2020.

Fixed crash on certain component filemasks.

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

Simplified setup of Git repositories with different default branch than "master".

Newly created internal repositories now use main as the default branch.

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.

Weblate 4.3.1

Released on October 21st 2020.

??????????

Improve hooks compatibility with Bitbucket Server.

Reduced memory usage.

??????????

Weblate 4.3

Released on October 15th 2020.

Include user stats in the API.

Fixed component ordering on paginated pages.

Define source language for a glossary.

Rewritten support for GitHub and GitLab pull requests.

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

Fixed configuration of enforced checks.

Improve documentation about built-in backups.

Moved source language attribute from project to a component.

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.

Fixed login redirect for some authentication configurations.

Fixed LDAP authentication with group sync.

Fixed creating local VCS components using API.

Weblate 4.2.1

Released on August 21st 2020.

Fixed saving plurals for some locales in Android resources.

Fixed crash in the cleanup addon for some XLIFF files.

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 addon 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 222222 22222222222222222

Removed leading dot from JSON unit keys.

Allow to configure Content-Security-Policy HTTP headers.

Added support for aliasing languages at project level.

New addon to help with HTML or JavaScript localization, see JavaScript [2][2][2] 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 addons configuration in Docker.

Fixed possible crash in "About" page.

Improved installation of byte-compiled locale files.

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 authentication.

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 source language in project creation form.

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.

Consistently use dismissed as state of dismissed checks.

Add support for configuring default addons to enable.

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.

Renamed shapings to more generic name variants.

Added new quality checks: 2222222, 2222222.

Reintroduced support for wiping translation memory.

Fixed option to ignore source checks.

Added support for configuring different branch for pushing changes.

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 222222222.

API now supports filtering of changes.

Added support for sharing glossaries between projects.

Weblate 4.0.4

Released on May 07th 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 02nd 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.

Fixed displaying of translation changes in some corner cases.

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 22.

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 addon to handle more syntax variants.

Fixed editing monolingual XLIFF source file.

Added support for exact matching in **22**.

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.

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.

Fixed documentation links for addons.

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.

Display nearby keys on monolingual translations.

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 bulk edit addon.

Added option for ??????.

Increased default validity of confirmation links.

Improved Matomo integration.

Fixed [2][2] to correctly handle source string change.

Extended automatic updates configuration by AUTO_UPDATE.

LINGUAS addons now do full sync of translations in 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.

Fixed searching on systems with non-English locales.

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 addon 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.

Add copy to clipboard for secondary languages.

Improved support for Mercurial.

Improved Git repository fetching performance.

Add search lookup for age of string.

Show source language for all translations.

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.

Added automatic translation addon to bootstrap translations.

Extend automatic translation to add suggestions.

Display addon 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 addon 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.

Improve performance of repository scoped addons.

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 cloning addons to discovered components.

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.

Refreshed landing page for new contributors.

Add support for configuring msgmerge addon.

Delay opening SMTP connection when sending notifications.

Improved error logging.

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Allow custom location in MO generating addon.

Added addons 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 addon 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.

Addons are now automatically triggered upon installation.

Improved instructions for resolving merge conflicts.

Cleanup addon 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 addons 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 addon 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.

Make Microsoft Terminology service compatible with current Zeep releases.

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.

Addon 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 addon 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.

New addon to squash commits prior to push.

Improved displaying of translation changes.

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 addons, 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 addon installation.

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Added support for export and import of Excel files.

Improve component cleanup in case of multiple component discovery addons.

Rewritten Microsoft Terminology machine translation backend.

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.

Built in translation memory now automatically stores translations done.

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.

New addon for automatic component discovery.

The import_project management command has now slightly different parameters.

Added basic support for Windows RC files.

New addon to store contributor names in PO file headers.

The per component hook scripts are removed, use addons instead.

Add support for collecting contributor agreements.

Access control changes are now tracked in history.

New addon to ensure all components in a project have same translations.

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 addon to configure gettext output wrapping.

New addon 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.

Added built in translation memory.

Added support for DeepL machine translation service.

Machine translation results are now cached inside Weblate.

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.

Improved built in machine translation service.

Added support for SAP Translation Hub service.

Added support for 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.

Added addons to customize translation workflows.

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.

Locales updates.

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.

Added direct link to edit secondary language translation.

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.

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.

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.

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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 addon.

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.

Highlight secondary language if not showing source.

Record suggestion deletion in history.

Improved UX of languages selection in profile.

Fixed showing whiteboard messages for component.

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.

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.

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.

Added option to specify source language.

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.

Clarified terminology on strings needing action and not translated strings.

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.

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.

Allow to show secondary language in Zen mode.

Support for hiding source string in favor of secondary language.

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.

222222222222 Pango + Cairo 22222 Pillow 222222222222222

Add status badge widget.

Dropped invalid text direction check.

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.

Show code snippets for widgets in more variants.

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.

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.

Displays secondary languages while translating.

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. Initial release.

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