



**WEB-T Universal plugin and  
Translation Hub**

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# Introduction

WEB-T Universal is a JavaScript plugin for website content translation. It consists of two parts: a client-side plugin that is embedded in your website, and a server-side Translation Hub that provides translation caching and post-editing.

## How it works

The plugin translates the currently rendered webpage content into the selected language. All translations are saved into a database, allowing you to edit them via Translation editor on the Translation Hub.

### **Setup the Translation Hub:**

1. Set-up and prepare Kubernetes environment.
2. Download deployment HELM and configure values.
3. Deploy.
4. Make available to the outside.

### **Obtain eTranslation or WEB-T compatible translation provider authorization information:**

- [Create an eTranslation account](#) and obtain the API credentials.
- or
- Obtain Base URL & API key for a different provider.

Use these credentials on the Translation Hub.

### **Create an integration and embed the JavaScript plugin on your website:**

1. Create a Website Translator integration on the Translation Hub.
2. Embed the generated JavaScript code into your website.

### **Translate your website and improve the automated translations:**

1. Translate your website by going through all pages and selecting every target language from the menu.
2. Use Translation editor to improve translated texts. The corrections will instantly appear on your website.
3. When new content is added in the original language, re-translate the edited page by selecting every target language from the menu.

First time the content of any page is loaded it will take some time to translate it. The translations will be saved into a database and will load faster the next time.

### **What are its limitations?**

WEB-T Universal does not provide media or email translation.

# Translation Hub setup

The toolkit consists of several microservices, each component is deployable as docker container.

## Components:

- Frontend (frontend) – Application responsible for all GUI and its operations. It is using Angular, that means this is Single Page Application
- Translation Hub API (websiteTranslationService) – service for translation management
- Configuration service (configurationService) - service for configurations
- MT API Integrator (mtApiIntegrator) – service for MT services
- eTranslation Provider (eTranslationProxy ) – service for eTranslation implementation
- Redis - DB for eTranslation
- MySQL - DB for APIs

## Minimal system requirements

- At least a 2-core x86/x64 CPU (Central Processor Unit)
- 5 GB of RAM (Random Access Memory) or more
- 30 GB of storage or more (for DB)
- Internet access

## Supported software versions

- Kubernetes cluster version 1.25+
- Helm 3.5+
- MySQL server 8.0

## Kubernetes cluster

You will need kubectl ([instructions](#)) and Helm ([instructions](#)) installed.

### Running WEB-T Translation Hub locally in a dev environment

For testing and development purposes, an easy option to get Kubernetes running is to install [Rancher Desktop](#). Once you have it installed, you will also need to setup an ingress controller. Rancher uses *Traefik* as the default one, so disable it first by unchecking Enable Traefik from the Kubernetes Settings page. Then deploy the NGINX ingress controller:

```
helm upgrade --install ingress-nginx ingress-nginx \
  --repo https://kubernetes.github.io/ingress-nginx \
  --namespace ingress-nginx --create-namespace
```

# MySQL Databases

## Setup WEB-T databases on MySQL 8.0 server

**Please note:** use separate on-premise or cloud hosted MySQL server or run MySQL server in Kubernetes. MySQL server must be reachable from Kubernetes Pods

### Prepare empty WEB-T databases (DB) and users for databases:

Adjust DB, DB user names and DB user passwords as needed, must match with the database names in your Helm chart values.yaml file.

-- For configurationService component

```
CREATE DATABASE IF NOT EXISTS `webt_configuration` CHARACTER SET utf8 COLLATE utf8_unicode_ci;
```

```
CREATE USER IF NOT EXISTS 'webt_configuration_user'@'%' IDENTIFIED WITH mysql_native_password BY 'webt_configuration_user_pass';
```

```
GRANT ALL PRIVILEGES ON `webt_configuration`.* TO 'webt_configuration_user'@'%';
```

-- For websiteTranslationService component

```
CREATE DATABASE IF NOT EXISTS `webt_website_translation` CHARACTER SET utf8 COLLATE utf8_unicode_ci;
```

```
CREATE USER IF NOT EXISTS 'webt_website_translation_user'@'%' IDENTIFIED WITH mysql_native_password BY 'webt_website_translation_user_pass';
```

```
GRANT ALL PRIVILEGES ON `webt_website_translation`.* TO 'webt_website_translation_user'@'%';
```

## Build WEB-T container images and push containers to your container registry

Read about building docker container images [here](#)

Component	Source code repository	Corresponding <a href="#">Helm chart</a> yamll
configurationService	<a href="#">UP-TranslationHub-ConfigurationService</a>	configuration-service.yaml
eTranslationProxy	<a href="#">UP-TranslationHub-eTranslationProvider</a>	translation-proxy-e-translation.yaml
frontend	<a href="#">UP-TranslationHub-Frontend</a>	frontend.yaml

mtApiIntegrator	<a href="#">UP-TranslationHub-MT-API-Integrator</a>	mt-api-integrator.yaml
websiteTranslationService	<a href="#">UP-TranslationHub-API</a>	website-translation-service.yaml

## Installing the chart

### Using the chart from GitHub repo

1. Clone this repository

```
git clone https://github.com/European-Multilingual-Web/UP-TranslationHub-Deployment
cd UP-TranslationHub-Deployment/translation-hub
```

2. Make sure to update **values.yaml** with corresponding values or create new values file.

The following table lists the configurable parameters of the Translation Hub chart. The current default values can be found in **values.yaml** file.

Parameters	Description
basicAuth.enabled	Enable use of basic authentication for the frontend access - set "true" or "false"
basicAuth.credentials	[Optional] Set credentials for basic authentication
configurationService.dbConnectionString	Configuration Service Database connection string
configurationService.image.name	Configuration Service Image name
configurationService.image.pullSecret	Configuration Service Image pull secret

configurationService.image.repository	Configuration Service Image repository
configurationService.image.tag	Configuration Service Image tag
eTranslationProxy.image.name	ETranslation Proxy Image name
eTranslationProxy.image.pullSecret	ETranslation Proxy Image pull secret
eTranslationProxy.image.repository	ETranslation Proxy Image repository
eTranslationProxy.image.tag	ETranslation Proxy Image tag
frontend.image.name	Frontend Image name
frontend.image.pullSecret	Frontend Image pull secret
frontend.image.repository	Frontend Image repository
frontend.image.tag	Frontend Image tag
global.domain	Translation Hub domain name
global.eTranslation.email	eTranslation translation recipient email - for testing only, leave empty after testing
global.eTranslation.timeout	eTranslation timeout
ingress.tlsSecret	Ingress TLS secret name
mtApiIntegrator.image.name	MT API Integrator Image name
mtApiIntegrator.image.pullSecret	MT API Integrator Image pull secret



mtApiIntegrator.image.repository	MT API Integrator Image repository
mtApiIntegrator.image.tag	MT API Integrator Image tag
websiteTranslationService.dbConnection String	Website translation service Database connection string
websiteTranslationService.image.name	Website translation service Image name
websiteTranslationService.image.pullSecret	Website translation service Image pull secret
websiteTranslationService.image.repository	Website translation service Image repository
websiteTranslationService.image.tag	Website translation service Image tag

**Optional:** Configuration for Restricting Access to translation hub website (Basic Authentication):

Credential preparation for Basic Authentication configuration:

If **basicAuth.enabled** is set to **true** then user credentials must be configured in **values.yaml** file.

Example on how to prepare Basic Auth configuration for **web-t-user** user with password **web-t-pwd**:

```
# In Linux terminal execute command:
```

```
htpasswd -nb web-t-user web-t-pwd
```

Command output example:

```
web-t-user:$apr1$j2PQtFMu$7uEKTHLBdxwAbYKvgdfmh/
```

```
# Next, copy part of previous output - the part after username and colon symbol  
(e.g. part after "web-t-user:") and paste that to second command to get the  
base64-encoded password hash to use as a password:
```

```
printf '$apr1$j2PQtFMu$7uEKTHLBdxwAbYKvgdfmh/' | base64
```

Command output example, use this for password configuration:

```
JGFwcjEkajJQUXRGTXUkN3VFS1RITEJkeHdBYlILdmdkZm1oLw==
```

Update configuration in **values.yaml** file:

```
basicAuth:

  enabled: true

  credentials:

    - username: web-t-user

      password: JGFwcjEkajJQUXRGTXUkN3VFS1RITEJkeHdBYlILdmdkZm1oLw==

    # you can add more users if necessary by adding these lines with user prepared
    user credentials:

      - username: user2    # to add another user

        password: *pwd2* # tanother users pwd
```

3. Install the chart with the release name **translation-hub in web-t** namespace.

```
helm install --create-namespace -n web-t translation-hub . -f values.yaml
```

**Please note:** eTranslation is an online machine translation service provided by the European Commission (EC). eTranslation web service is asynchronous. This means that the client sends a translation request and is notified later when the text snippet is translated. Make sure that translation hub API domain is correctly exposed to the internet and can receive traffic from eTranslation servers.

## Uninstalling the chart

To uninstall/delete the translation-hub deployment from web-t namespace, run:

```
helm delete translation-hub --namespace web-t
```

Delete web-t namespace

```
kubectl delete namespace web-t
```

# Translation Hub overview

After you have set-up the **Translation Hub**, open the browser and navigate to the URL **where it is located**.

On the **Translation Hub**, you will find:

- [Translation Provider](#) – for setting the translation provider authorization information (eTranslation API credentials or Base URL & API key).
- [My integrations](#) – for creating and managing your website integrations. Once you create an integration it appears in the “**My integrations**” list.
- [Translation editor](#) – for managing and editing translations (for each integration separately).
- [Settings](#) – for editing languages, machine translation engines and **domain access** (for each integration separately). This page also includes the generated JavaScript integration code.

The screenshot shows the 'Translation provider settings' page in the WEB T interface. The page has a header with the WEB T logo and navigation links: 'My integrations', 'Translation provider' (active), and 'About'. A 'Help center' link is also present. The main content area is titled 'Translation provider settings' and includes the instruction 'Choose machine translation provider to use in website translation.' There are two radio buttons: 'eTranslation' (selected) and 'Custom provider'. Below this, there are fields for 'Username' (with the label 'Enter your username') and 'Password' (with the label 'Enter your password'). The password field is masked with asterisks and has an eye icon to toggle visibility. A link 'See how to set up an account for eTranslation' is provided. A 'Save' button is at the bottom right.

The screenshot shows the 'My integrations' page in the WEB T interface. The header is the same as the previous page. The main content area features a '+ Create website translator' button. Below it, there is a card for 'my example website'. The card displays the domain 'http://exmple.com' and the identifier '55c8bc16-e324-40e6-809d-e0d92c28c5fc'. At the bottom of the card, there are links for 'Translation editor' and 'Settings'.

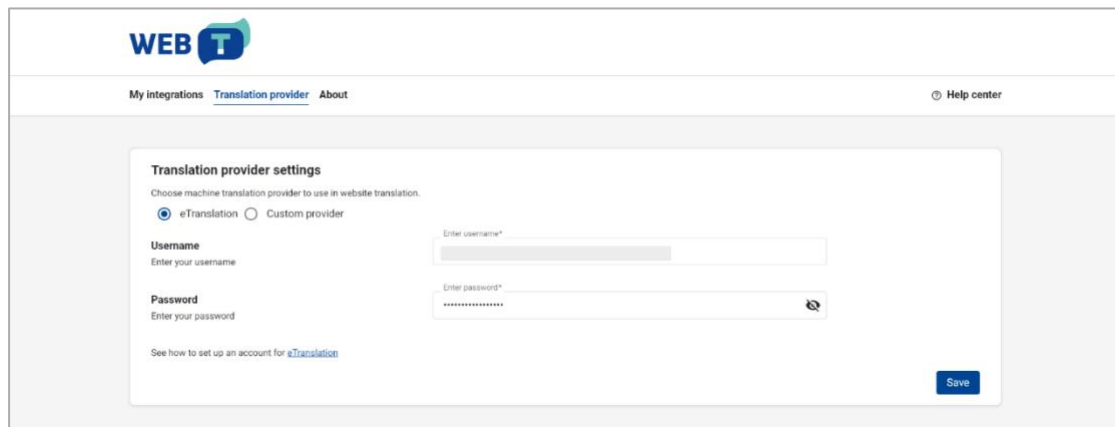
# Configure translation provider

## Before you continue:

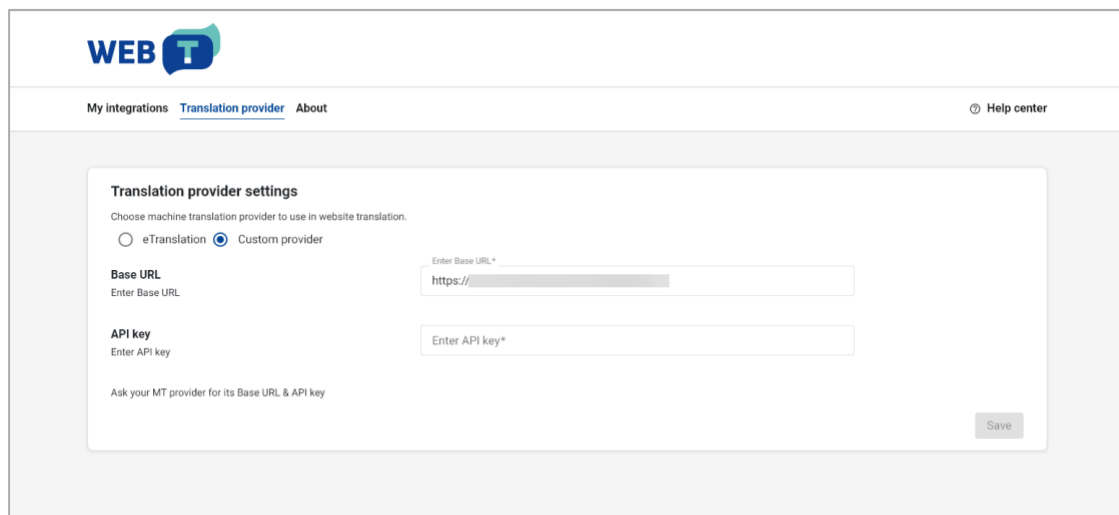
You must have an eTranslation or WEB-T compatible translation provider account.  
You have obtained eTranslation API credentials or Base URL & API key from your translation provider.

To configure the **MT Provider** on the **Translation Hub**:

1. On the Translation Hub, open **Translation provider**.
2. Select MT provider (eTranslation or Custom).
3. Enter the required data (eTranslation API credentials or Base URL & API key).
4. Click **Save**.



The screenshot shows the 'Translation provider settings' page for the WEB T platform. The page has a header with the WEB T logo and navigation links: 'My integrations', 'Translation provider' (active), and 'About'. A 'Help center' link is in the top right. The main content area is titled 'Translation provider settings' and includes the instruction 'Choose machine translation provider to use in website translation.' There are two radio buttons: 'eTranslation' (selected) and 'Custom provider'. Below this, there are two input fields: 'Username' (with placeholder 'Enter your username') and 'Password' (with placeholder 'Enter your password' and a toggle for visibility). A link 'See how to set up an account for eTranslation' is at the bottom left, and a 'Save' button is at the bottom right.



The screenshot shows the 'Translation provider settings' page for the WEB T platform, configured for a 'Custom provider'. The page has the same header and navigation as the previous screenshot. The main content area is titled 'Translation provider settings' and includes the instruction 'Choose machine translation provider to use in website translation.' There are two radio buttons: 'eTranslation' and 'Custom provider' (selected). Below this, there are two input fields: 'Base URL' (with placeholder 'Enter Base URL' and a pre-filled 'https://') and 'API key' (with placeholder 'Enter API key'). A note 'Ask your MT provider for its Base URL & API key' is at the bottom left, and a 'Save' button is at the bottom right.

# Website translator integration

## Before you continue:

You have deployed the Translation Hub and have access to it.  
You have configured the Translation provider.

Integration consists of 2 main steps:

1. **Creating an integration** on the **Translation Hub**.
2. **Including the generated JavaScript code** into your website.

After you have included the JavaScript code, the language selector will appear on your website, and you can start translating by selecting a language.

💡 For **most users** we recommend following the steps in [Integration \(Basic\)](#).

For more **advanced** use cases, see [Integration \(Advanced\)](#):

- If you wish to display languages as buttons, see [Configure the default language selector](#).
- If you wish to use a custom language selector, see [Use a custom language selector](#).
- If your website is already multilingual, see [Integrate in an already multilingual website](#).


In this section:

- [My integrations](#)
- [Integration \(Basic\)](#):
  - [Create new](#)
  - [Include the generated JavaScript code into your](#)
  - [Try an](#)
  - [Translate the example](#)
- [Integration \(Advanced\)](#):
  - [Setup language selector](#)
    - [Configure the default language](#)
    - [Use a custom language](#)
  - [Customize translation progress](#)
  - [Change display position](#)
    - [Hide translation progress](#)
    - [Integrate in an already multilingual](#)
  - [Full configuration options list](#)
- [Edit existing](#)
- [Delete](#)

# My integrations

“My integrations” lists all of website integrations you have created on the Translation Hub. From this view you can:

- create new integrations,
- access the Translation editor for a specific integration,
- access the Settings of a specific integration,
- delete integration by opening Settings of a specific integration.

**WEB**

[My integrations](#) [Translation provider](#) [About](#) Help center

[+ Create website translator](#)

**my example website**  
Domain: `http://emw-wordpress.local`  
Identifier: `55c8bc16-e324-40e6-809d-e0d92c28c5fc`  
[Translation editor](#) [Settings](#)

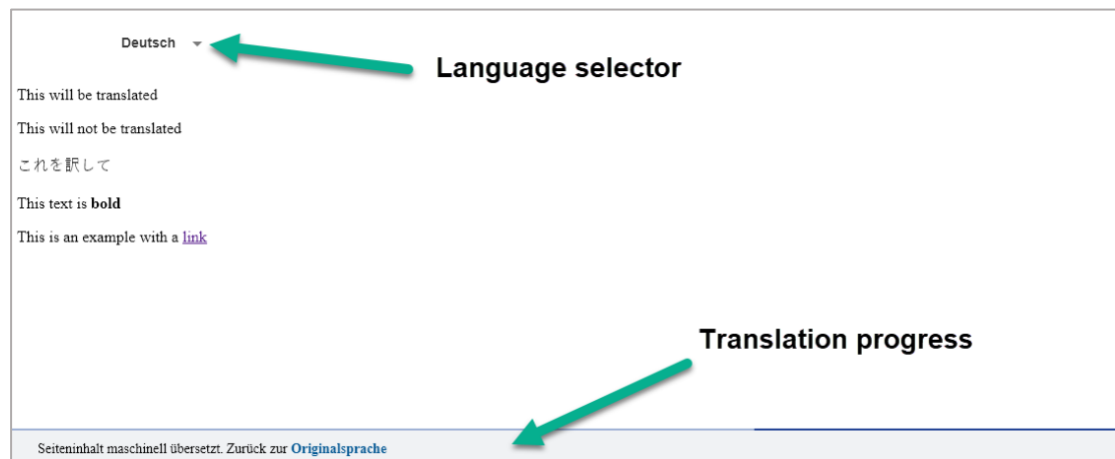
**Test environment**  
Domain: `https://test-environment.com`, `http://localhost`  
Identifier: `756f494e-14fc-4ec6-b120-c29df59a88a5`  
[Translation editor](#) [Settings](#)

**my another website**  
Domain: `http://another-example.com`  
Identifier: `48eccfc9-1443-4043-acc4-607edc83d5a8`  
[Translation editor](#) [Settings](#)

## Integration (Basic)

Following the basic integration steps, you will add the default language selector to your website. This section includes an HTML example, that you can try.


The language selector will appear as a dropdown. It will load the available languages automatically and start translation on selecting. The translations will appear on the **Translation Hub** in **Translation editor** where you can edit them.



### Create new integration.

To create a new website integration:

1. On the **Translation Hub**, open **My integrations**.
2. Click **+Create website translator**.
3. Select **General setup**.
4. Fill the form:
  - 4.1. Give your integration a name.
  - 4.2. Add your website domain URL. (https://example.com, https://www.example.com and https://sub.example.com should all be added separately by clicking **Add another domain**).
  - 4.3. Select your website's original language.
  - 4.4. Select the languages you want your website to be translated into.
  - 4.5. In the generated table, select an MT engine for each language.
5. Click **Save**.



[My integrations](#)
[Translation provider](#)
[About](#)
[Help center](#)

### Website Translator setup

Complete the form to generate integration code for your website

**Integration name**  
Name your integration

**Website domain**  
Enter the website domain name

+ Add another domain

**Original language**  
Select website's original language

**Target languages**  
Select languages you want to translate into

[Cancel](#)
[Create](#)

### Configure machine translation

Select MT engines to use in translation


Language	MT Engine
German	General Text
Finnish	General Text

[Cancel](#)
[Create](#)

Include the generated JavaScript code into your website

To add the JavaScript plugin to your website:

1. On the **Translation Hub**, open the **Settings** of the specific integration.
2. Open **General setup** tab.
3. Copy the language selector tag and insert it in your website code, where you want the language selector to appear.
4. Copy the website translation widget script and insert it at the end of the `<body>` tag.
5. The language selector should appear on your webpage. Reload the page if needed.



[Back](#)
[Translation editor](#)
[Settings](#)
[Help center](#)

### my example website

[General setup](#)
[Hybrid plugin setup](#)

#### Website translator integration code

Add the following scripts to your website

**1 - Add language menu**  
Add the tag anywhere on your web page you want the language menu to appear

```
<div class="website-translator"></div>
```

**2 - Add configuration**  
Add Website translator configuration at the end of the the HTML <body> tag

```
<script type="text/javascript" src="https://unpkg.com/@tltde-nlp/website-translator/dist/widget.js"></script>
<script>
  WebsiteTranslator.Options.api.clientId = "55c8bc16-e324-40e6-809d-e0d92c28c5fc";
  WebsiteTranslator.Options.api.url = "https://my-translation-hub-url.com";
  WebsiteTranslator.Initialize()
</script>
```

Reload your website to see the language menu. Manage your translations in [Translation editor](#)



## Try an example

To create and translate a test page:

1. Copy the example below.
2. Replace WebsiteTranslator.Options.api.clientId value from the generated code.
3. Replace WebsiteTranslator.Options.api.url value to you Translation Hub URL.
4. Save the file to your web solution.
5. Open the example page in your web browser.

```
<html lang="en">
<head>
  <title>My title</title>
  <meta property="og:site_name" content="My site name">
  <meta name="description" content="Some site description.">
</head>
<body>
  <div class="website-translator"></div>
  <p>This will be translated</p>
  <p translate="no">This will not be translated</p>
  <p lang='ja'>これを訳して</p>
  <p>This text is <b>bold</b></p>
  <p>This is an example with a <a href="">link</a></p>
</body>
<footer>
  <script type="text/javascript" src="https://unpkg.com/@tilde-
nlp/website-translator/dist/widget.js"></script>
  <script>
    // 🖱️ Change XXXXXXXXXXXX to your Client-ID
    WebsiteTranslator.Options.api.clientId = "XXXXXXXXXXXX";
    // 🖱️ Change XXXXXXXXXXXX to your Translation Hub URL
    WebsiteTranslator.Options.api.url = "XXXXXXXXXXXX";
    WebsiteTranslator.Initialize()
  </script>
</footer>
</html>
```

## Translate the example page

Translated text segments get stored in a database. This means that translating the same page again will be a lot quicker and you can edit translations.

The translations will appear on the **Translation Hub** in **Translation editor** where you can edit them.



# Integration (Advanced)

## Before you continue:

You will need to have some JavaScript knowledge to follow the Advanced integration instructions.

You will need to have access to edit the JavaScript integration embedded into your website.

In this section:

- Setup language selector
  - Configure the default language selector
  - Use a custom language selector
- Customize translation progress bar
  - Change display position
  - Hide translation progress bar
- Integrate in an already multilingual website
- Full configuration options list

## Setup language selector

Configure the default language selector

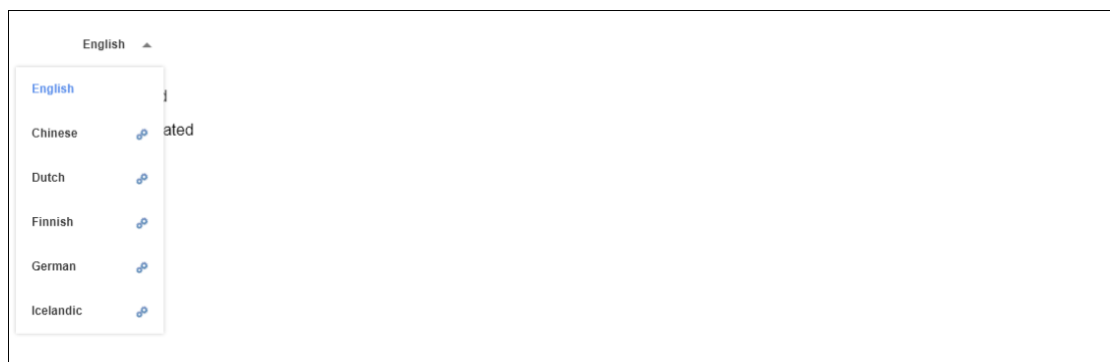
### Before you continue:

You have followed the steps of Basic integration. The JavaScript plugin is embedded into your website.

Language selector can be displayed as a dropdown or a list of buttons that can be styled by CSS to further match your style. It will load the available languages automatically and start translation on selecting.

Add an element with **class="website-translator"** to your page. See: Try an .

Setting **WebsiteTranslator.Options.ui.layout="menu"** will display the language selector as a dropdown menu. It is the default appearance.



The website translator's language selector can be displayed as a list of buttons setting **WebsiteTranslator.Options.ui.layout="list"**.



That can be further styled by overwriting CSS as you wish:



## Use a custom language selector

### Before you continue:

You have created an integration on the Translation Hub.

The default language selector (dropdown or list of buttons) doesn't fit your needs.

### Initialize

Initializes Website Translator - language select, fetches available MT systems. If there is lang parameter in URL, it will translate to language that is provided in parameter value. If there is no lang parameter and current source language is the same as last time when Tilde Website Translator was used, then it will translate to last translated target language.

Normally Initialize should be issued only once, but further calls will reinitialize language select. Consider this when your page changes DOM including language selector.

```
// Configure your personal access key
WebsiteTranslator.Options.api.clientId = 'x-xxxxxxx-xxxx-xx'

// Initialize
await WebsiteTranslator.Initialize()
```

### Start translation and wait until finished

Translate page to specific language. If you call Translate even if previous translation is not finished, it will cancel current translation, restore web page in original language and start new translation in specified language - same as to issue Cancel and restore translation and start new translation with Translate.

```
// You can call next translation even when previous is not finished
WebsiteTranslator.Translate("lt").then(function(translationFinish){
  // You can wait when page is translated
```

```
Promise.all(translationFinish).then(function(){
    console.log("Translation is complete")
})
})
```

When page is translated, web page url lang parameter is changed to translated language or added if it does not exist.

For example: <https://example.com/> -> <https://example.com/?lang=lt> If page translation is restored, then lang parameter is set to source language.

#### Cancel translation

Restores page in Source language.

```
WebsiteTranslator.CancelAndRestore();
```

#### Translate with given language

```
WebsiteTranslator.Translate("hu");
```

#### Get current language

Returns language code for web page. Value can be also SourceLanguage. This can be used to programmatically read web page language.

```
WebsiteTranslator.CurrentLanguage
```

#### Get available languages and machine translation systems

Returns available languages and systems. Can be used to create custom language selector or language selection using JavaScript translation API.

```
WebsiteTranslator.GetTargetLanguages()
```

## Customize translation progress bar

Translation progress bar can be displayed at the top or bottom of the page or hidden completely. You will need to edit the JavaScript integration code on your website to change it.

#### Change display position

To change display position, you will have to set it from JavaScript.

Add the following line to the integration code:

```
WebsiteTranslator.Options.ui.toolbarPosition = "top"
```

or

```
WebsiteTranslator.Options.ui.toolbarPosition = "bottom"
```

#### Hide translation progress bar

Website visitors won't see the translation progress bar and be able to revert the page to the original language by clicking the restore link.

Add the following line to the integration code:

```
WebsiteTranslator.Options.ui.headless=true
```

## Integrate in an already multilingual website

Use machine translation to make an already multilingual website available in more languages.

Specify the languages of your webpage that already have the translation embedded and machine translation should not be carried out. Configure the *thirdPartyTranslationLanguages* option, if we have German and French versions of the English pages:

```
WebsiteTranslator.Options
  .translation.thirdPartyTranslationLanguages = ['de', 'fr']
```

Full example:

```
<!DOCTYPE html>
<head>
  <script      type="text/javascript"      src="https://unpkg.com/@tilde-
nlp/website-translator/dist/widget.js"></script>
</head>
<body>
  <div class="website-translator"></div>
  <p>This is an example</p>
</body>

<footer>
  <script>
    // 📌 Change XXXXXXXXXXXX to your Client-ID
    WebsiteTranslator.Options.api.clientId = "XXXXXXXXXXXX";
    // 📌 Change XXXXXXXXXXXX to your Translation Hub URL
    WebsiteTranslator.Options.api.url = "XXXXXXXXXXXX";

    // Specify embedded languages of your webpage that has translation
    already
    var thirdPartyLanguages = ["de", "fr", "sv"];

    WebsiteTranslator.Options.translation.thirdPartyTranslationLanguages =
    thirdPartyLanguages;

    // Set language of the webpage that is currently rendered.
    Example shows how to get language code from document lang attribute.
    WebsiteTranslator.Options.currentLanguage =
    document.documentElement.getAttribute('lang')

    // Add custom logic to use embedded translations instead of
    machine translation
    WebsiteTranslator.Options.translation.onLanguageSelected =
    function (selectedLanguage) {
      return new Promise(function (resolve) {
        let translationHandled = false
        console.info('Language selected: ' + selectedLanguage)
        // Check if custom action must be perform to open
        embedded translation bypassing machine translation process
        if
        (WebsiteTranslator.Options.translation.thirdPartyTranslationLanguages.inc
        ludes(selectedLanguage)) {
          translationHandled = true
          if (WebsiteTranslator.Options.currentLanguage !==
          selectedLanguage) {
```

```

        console.info('Redirecting to embedded language
version of the page')
        // Add your own logic on how to transform URL of
current language to URL of selected target language
        // or other necessary actions.
        // Note. This replacement logic is to transform
http://example.com/page_en.html to http://example.com/page_de.html
        // and vice versa.
        window.location.href =
window.location.href.replace(/page_\w+/, 'page_' + selectedLanguage)
        // For example, for page
https://example.com/en/news to transform to https://example.com/de/news
        // window.location.href =
window.location.href.replace(/example.com\/\w+/, "/example.com/" +
selectedLanguage)
    }
}
resolve(translationHandled)
}))
}

// Initialize and run translations
WebsiteTranslator.Initialize()
</script>
</footer>
</html>

```

## Full configuration options list

Section contains a full list of plugin's configuration options, that you can set through JavaScript.

### Language

The widget determines target language automatically if the webpage uses lang parameter in URL query.

It supports ISO 639-1 language codes with optional ISO 3166-1 alpha-2 country codes. If language is not found with specified country code, then widget checks if language without country code is available.

[WebsiteTranslator.Options.currentLanguage](#)

Type: String

Default: null

Current web page language (if the web page is already pre-translated). The language in which the website has been translated. When currentLanguage is not equal to source language, selecting language to translate, Website Translator will try to get page in language by calling translation.onLanguageSelected(language)

### Debug mode

[WebsiteTranslator.Options.debug](#)

Type: Boolean

Default: false

Enable verbose logging in console.

## Translation API options

### [WebsiteTranslator.Options.api.clientId](#)

Type: String

Default: null

Authorization key which allows Website Translator to access translation API Required.

## Translation options

### [WebsiteTranslator.Options.translation.autoTranslate](#)

Type: Boolean

Default: true

Save last translation target language and on next page load, automatically translate to it.

If browser url contains lang parameter in url, Website Translator will use it for translation. Otherwise, if lang parameter is not available, saved language will be used.

### [WebsiteTranslator.Options.translation.translateOnlyAllowedTags](#)

Type: Boolean

Default: false

Translate only tags and their children which have translate="yes" attribute

### [WebsiteTranslator.Options.translation.translateAttributes](#)

Type: Boolean

Default: true

Translate HTML attributes.

### [WebsiteTranslator.Options.translation.onLanguageSelected](#)

Type: Function

Default: () => Promise.resolve(false)

Custom actions on selecting languages. This function if implemented should return Boolean -> true when Language must be Translated with Website Translator, false otherwise.

### [WebsiteTranslator.Options.translation.thirdPartyTranslationLanguages](#)

Type: Array<string>

Default: []

Define languages which are supposed to be translated with third party.

## UI options

### [WebsiteTranslator.Options.ui.headless](#)

Type: Boolean

Default: false

Hide MT toolbar with translation progress.

### [WebsiteTranslator.Options.ui.tooltipShowDelay](#)

Type: Number

Default: 500

How much time to wait after user is started to hover translation to show suggestion popup (in ms)

#### [WebsiteTranslator.Options.ui.toolbarPosition](#)

Type: String

Default: bottom

Where toolbar is positioned. Values can be:

- "top" - Show translation toolbar at the top of the page
- "bottom" - Show translation toolbar at the bottom of the page

#### [WebsiteTranslator.Options.ui.mainContentElement](#)

Type: HTMLElement

Default: null

Main container HTMLElement for web page that contains all scrollable content.

#### [WebsiteTranslator.Options.ui.showPopup](#)

Type: Boolean

Default: true

Show or hide translation popup Also when disabled, highlight for translated sentences won't be visible.

#### [WebsiteTranslator.Options.ui.showLanguagesInNativeLanguage](#)

Type: Boolean

Default: false

Show languages in native language in language selector.

#### [WebsiteTranslator.Options.ui.translate](#)

Type: String

Default: source

Translate UI, values can be:

- source - Show UI in source language
- target - Show UI in target language

#### [WebsiteTranslator.Options.ui.showTranslationControls](#)

Type: Boolean

Default: true

Show or hide "restore" and "cancel" translation buttons on UI.

#### [WebsiteTranslator.Options.ui.layout](#)

Type: String

Default: menu

Change display mode of the language selection in UI, values can be:

- "menu" - Show available languages in select.
- "list" - Show available languages as list items.
- null - Hide language selector.




# Edit existing integration

To change and add new languages or update the domains:

1. On the **Translation Hub**, open My integrations.
2. In the list of integrations, find the one you want to edit.
3. Click **Settings**.
4. On the **General setup** tab, scroll down to **Website translator settings**.
5. Make your changes and click **Save changes**.

If you have your website open, you will need to reload the page (Ctrl+F5) to see the changes.



[← Back](#) [Translation editor](#) [Settings](#) [Help center](#)

**my example website**

General setup

Hybrid plugin setup

**Website translator integration code**

Add the following scripts to your website

**1 - Add language menu**  
Add the tag anywhere on your web page you want the language menu to appear

`<div class="website-translator"></div>`

**2 - Add configuration**  
Add Website translator configuration at the end of the HTML <body> tag

```
<script type="text/javascript" src="https://unpkg.com/@tilde-nlp/website-translator/dist/widget.js"></script>
<script>
  WebsiteTranslator.Options.api.clientId = "55c8bc16-e324-40e6-809d-e0d92c28c5fc";
  WebsiteTranslator.Options.api.url = " ";
  WebsiteTranslator.Initialize()
</script>
```

Reload your website to see the language menu. Manage your translations in [Translation editor](#)

**Website translator settings**

Add, remove and change languages and domains

**Website translator settings**

Add, remove and change languages and domains

**Integration name**  
Name your integration

my example website

**Website domain**  
Enter the website domain name

Enter the URL\*

http://example.com

×

⊕ Add another domain

**Original language**  
Select website's original language

Select language\*

English

▼

**Target languages**  
Select languages you want to translate into

Select languages you want to translate into\*

Finnish, German, Latvian, Lithuanian

▼

**Configure machine translation**  
Select MT engines to use in translation

Language	MT Engine	
German	General Text	▼
Finnish	General Text	▼
Latvian	General Text	▼
Lithuanian	General Text	▼

🗑 Delete website translator

Save changes

# Delete integration

To delete an integration:

1. On the **Translation Hub**, open **My integrations**.
2. In the list of integrations, find the one you want to delete.
3. Click **Settings**.
4. On the bottom of the page, click **Delete website translator**.

### Website translator settings

Add, remove and change languages and domains

**Integration name**  
Name your integration

e.g., "My awesome website" or "Test environment"  
my example website

**Website domain**  
Enter the website domain name

Enter the URL \*  
http://example.com

⊕ Add another domain

**Original language**  
Select website's original language

Select language\*  
English

**Target languages**  
Select languages you want to translate into

Select languages you want to translate into\*  
Finnish, German, Latvian, Lithuanian

**Configure machine translation**  
Select MT engines to use in translation

Language	MT Engine	
German	General Text	🗑
Finnish	General Text	🗑
Latvian	General Text	🗑
Lithuanian	General Text	🗑

🗑 Delete website translator

**Save changes**

### Website translator settings

Add, remove and change languages and domains

**Integration name**  
Name your integration

e.g., "My awesome website" or "Test environment"  
my example website

**Website domain**  
Enter the website domain name

Enter the URL \*  
http://example.com

⊕ Add another domain

**Original language**  
Select website's original language

Select language\*  
English

**Target languages**  
Select languages you want to translate into

Select languages you want to translate into\*  
Finnish, German, Latvian, Lithuanian

**Configure machine translation**  
Select MT engines to use in translation

Language	MT Engine	
German	General Text	🗑
Finnish	General Text	🗑
Latvian	General Text	🗑
Lithuanian	General Text	🗑

🗑 Delete website translator

**Save changes**

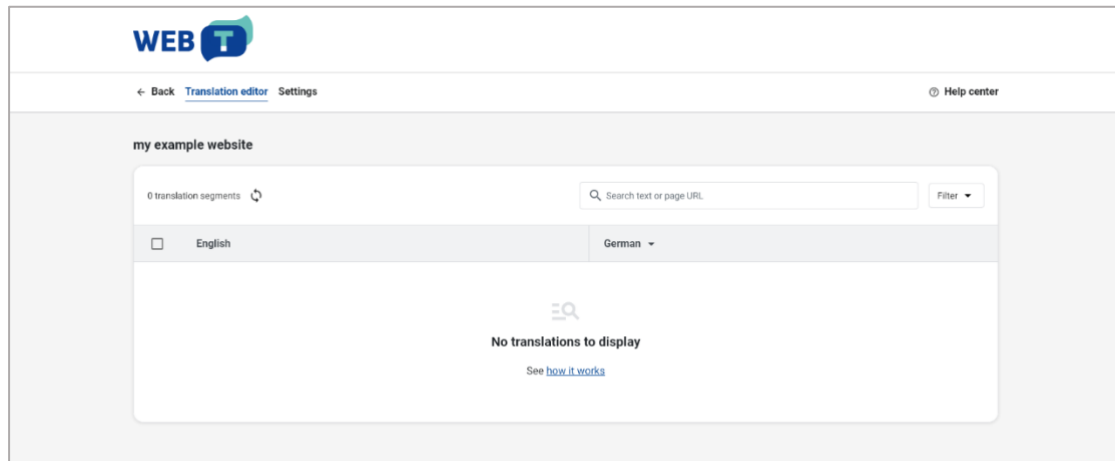
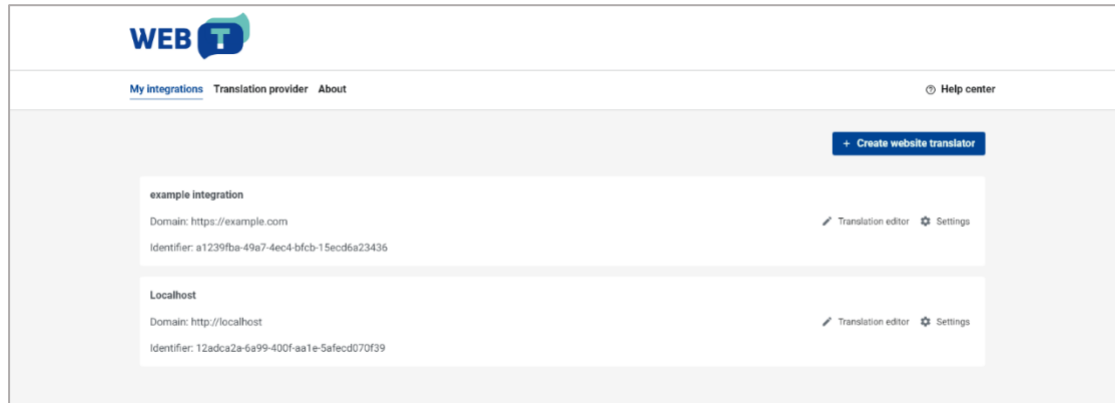
#### Confirm delete

Delete Website translator with an ID:  
55c8bc16-e324-40e6-809d-e0d92c28c5fc ?

**Delete** **Cancel**

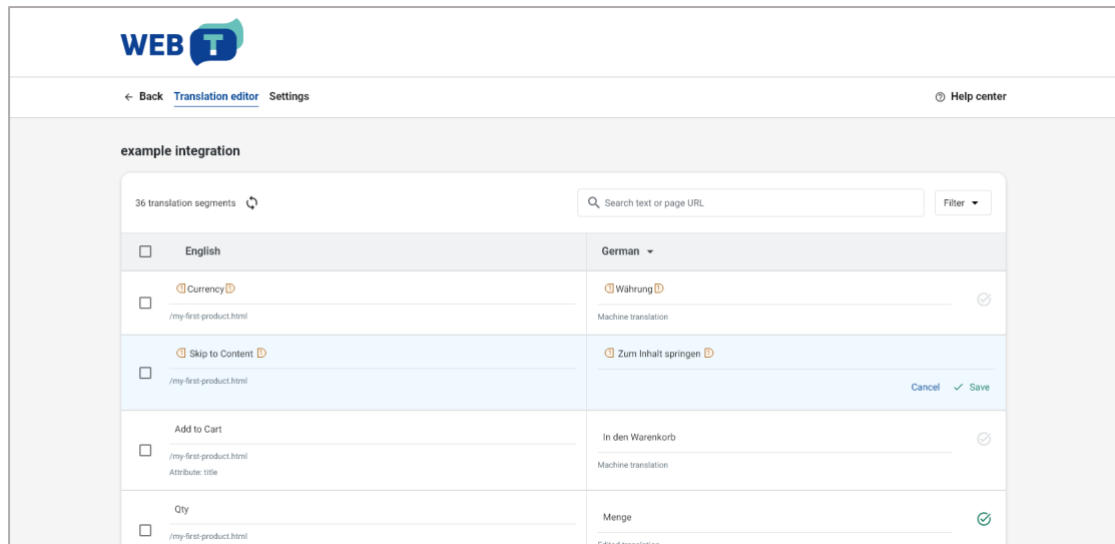
# Manage translations

View, edit and delete translations on the Translation Hub. Translate your webpage with the plugin for the translations to appear, refresh the Translation editor table to see new translations.



## Edit translation

Translations may need a bit of tweaking, or you might want to replace them with manual translations.



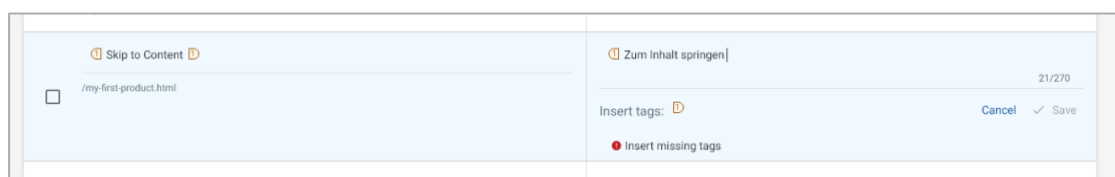
To edit translation:

1. In the table of translations, find the translation.
2. Click on the row.
3. Edit the translation.
4. Click **Save**.
5. The translation will be updated and marked as "confirmed" in the database.

HTML tags in the source and translation are displayed as numbered blocks. The colouring and numbers let you follow the order and match the opening and closing tags. Translation must contain all the tags from the source.

Missing and mismatched tag errors will be displayed under the segment. All the tags from the original segment must be present in the translation.

Tags can be dragged to reorder or deleted and inserted by clicking on them under the segment.



## Confirm translation

To confirm a translation:

1. In the table of translations, find the translation.
2. Click the "✓" checkmark at the end of the row.

The translation in the database will be marked as "Confirmed". When saving edits made to machine translation the status is automatically set to "Confirmed". Machine translations not marked as "Confirmed" are still used in the translation. This feature is meant to help keep track of translations that should be reviewed.

<input type="checkbox"/>	Currency ⓘ /my-first-product.html	Währung ⓘ Machine translation	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Skip to Content ⓘ /my-first-product.html	Zum Inhalt springen ⓘ Machine translation	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Add to Cart /my-first-product.html Attribute: title	In den Warenkorb Machine translation	<input checked="" type="checkbox"/>

## Delete translations

To delete a translation:

1. In the table of translations, find the translation.
2. Click the checkbox at the start of the row.
3. Click **Delete**.

example integration			
2 translation segments <input checked="" type="checkbox"/> Mark as confirmed <input type="checkbox"/> Delete <span style="float: right;">Deselect all</span>			
	English	German	
<input type="checkbox"/>	Currency ⓘ /my-first-product.html	Währung ⓘ Machine translation	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Skip to Content ⓘ /my-first-product.html	Zum Inhalt springen ⓘ Machine translation	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Add to Cart /my-first-product.html Attribute: title	In den Warenkorb Machine translation	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Qty /my-first-product.html	Menge	<input checked="" type="checkbox"/>

### Delete translations having a certain target language

You have decided to remove a certain language from your website and want to delete the saved translations.

To delete all matching translations:

1. In the table of translations, select the target language from the drop-down menu.
2. At the start of the table header row, click the checkbox.
3. Click Delete.
4. Repeat until all translations are deleted.

### Delete translations having a certain URL

You have decided to remove a certain page from your website and want to delete the saved translations.

To delete all matching translations:

1. Filter the translations by URL.
2. Repeat the steps from Delete translations having a certain target language for every language.

## Delete all translations

Repeat the steps from **Delete translations having a certain target language** for every language. Or delete the whole Website translator integration.

## Filter translations

Filter the translations table to:

- Find translations or source text with matching words or phrases.
- See only the translations you have not confirmed.
- Find translations belonging to a certain page.
- See only SEO translations.

### Filter by status or translation type

To filter by translation type:

1. Above the translations table, open the filter drop-down menu.
2. Select **Machine translation** or **Manually edited**.

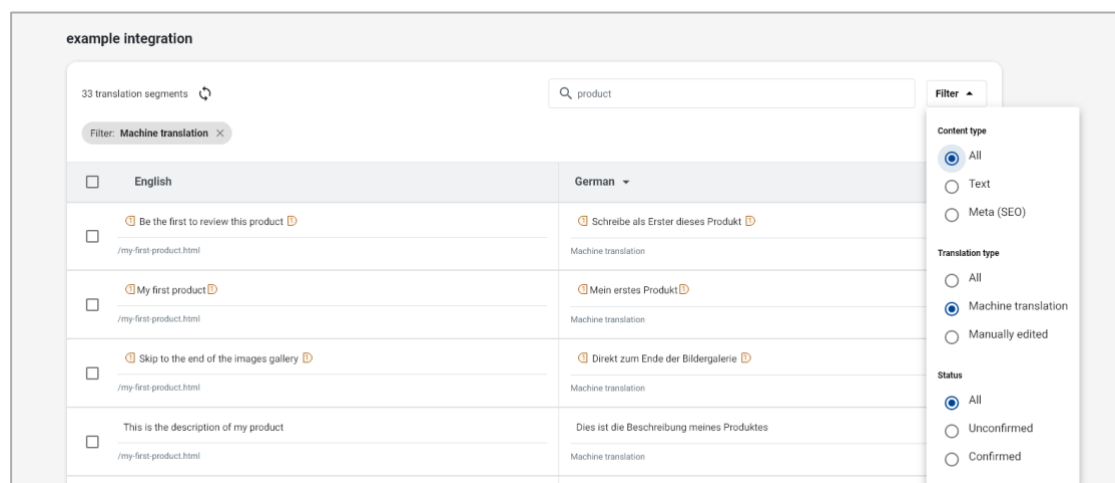
To filter by translation status:

1. Above the translations table, open the filter drop-down menu.
2. Select **Unconfirmed** or **Confirmed**.

### Filter by content type

To see only the SEO meta tag translations:

1. Above the translations table, open the filter drop-down menu.
2. Select Text or Meta (SEO).



### Filter by text

The text is searched in both original language segments and translations.

To filter the table by source or target text:

1. In the search field, type the word or phrase.

## 2. Press Enter.

The screenshot shows a web interface titled 'example integration'. At the top, it says '10 translation segments' with a refresh icon. There is a search bar containing 'product' and a 'Filter' button. Below the search bar, a tag indicates 'Translation contains: product'. The main area is a table with two columns: 'English' and 'German'. The table lists three translation segments, each with a checkbox, the source text, the target text, and a status icon.

English	German
<input type="checkbox"/> Be the first to review this <b>product</b> ⓘ /my-first-product.html	<input checked="" type="checkbox"/> Schreibe als Erster dieses Produkt ⓘ Machine translation
<input type="checkbox"/> My first <b>product</b> ⓘ /my-first-product.html	<input checked="" type="checkbox"/> Mein erstes Produkt ⓘ Machine translation
<input type="checkbox"/> This is the description of my <b>product</b> ⓘ /my-first-product.html	<input checked="" type="checkbox"/> Dies ist die Beschreibung meines Produktes Machine translation

## Filter by URL

The table can be filtered by:

1. full url of the page, for example: <https://www.example.com/pages/my-page>,  
[www.example.com/pages/my-page](https://www.example.com/pages/my-page)
2. partial url, for example: [/pages/my-page](#)

To filter the table by source or target text:

1. In the search field, type the url.
2. Press Enter.

The screenshot shows the same 'example integration' interface, but now the search bar contains '/my-first-product.html' and the 'Filter' button is active. The table now shows 36 translation segments. The first two rows are visible, showing the same source and target text as in the previous screenshot.


English	German
<input type="checkbox"/> Be the first to review this <b>product</b> ⓘ /my-first-product.html	<input checked="" type="checkbox"/> Schreibe als Erster dieses Produkt ⓘ Machine translation
<input type="checkbox"/> My first <b>product</b> ⓘ /my-first-product.html	<input checked="" type="checkbox"/> Mein erstes Produkt ⓘ Machine translation

## SEO tags

SEO meta tags are translated by the plugin like any other text and appear in the **Translation editor** table. Translations are labelled with “SEO attribute:...”, found right under the page URL.





Filter the table by **Content type** to see only the SEO content.

example integration

4 translation segments 

Search text or page URL Filter ▼

Filter: Meta (SEO) ✕

<input type="checkbox"/> English	German ▼
<input type="checkbox"/> This is the description of my product /my-first-product.html SEO attribute: og:description	Dies ist die Beschreibung meines Produktes Machine translation 
<input type="checkbox"/> My first product /my-first-product.html SEO attribute: og:title	Mein erstes Produkt Machine translation 
<input type="checkbox"/> My first product /my-first-product.html SEO attribute: keywords	Mein erstes Produkt Machine translation 
<input type="checkbox"/> My first product /my-first-product.html SEO attribute: description	Mein erstes Produkt Machine translation 

## FAQ

### How do I integrate Website translator into my website?

See: [Website translator integration](#).

### Can I customize the language selector look?

See: [Setup language selector](#) or [Use a custom language](#)

### Do I have to use the default language selector?

The website translator can be integrated with a custom language selector that fits your website's design. Set the layout mode to null **WebsiteTranslator.Options.ui.layout=null** and implement the selector yourself.

See: [Use a custom language](#)

### Can I customize the translation notice?

See: [Change display position](#) and [Hide translation progress](#)

### Can I use machine translation alongside existing human translation?

If your website is already translated into several languages, you can define them as “third party languages” in configuration. When selecting either of them the website translator will not try to machine translate the content.



See: [Integrate in an already multilingual](#)

## I want to keep some parts untranslated / Some of my content is in another language.

Content that should not be translated, like addresses, lists of company names etc. should be marked as untranslatable. Add **translate="no"** attribute to the elements.

Content that is in a different language should be marked with a language attribute. If you don't mark this content as not translatable or different language the Website Translator will attempt to translate it and corrupt the content. Translation from several source languages at once is not supported.

## I want to explicitly mark the content that should be translated.

Mark the elements that should be translated with **translate="yes"** and add **WebsiteTranslator.Options.translation.translateOnlyAllowedTags=true** option to the configuration. No other content will be translated. If some child elements should not be translated mark them with **translate="no"**.

```
<html lang="en">
  <head>
    <script type="text/javascript" src="https://unpkg.com/@tilde-
nlp/website-translator/dist/widget.js"></script>
  </head>
  <body>
    <div class="website-translator"></div>

    <!-- This will be translated because it inherits document
language "en"-->
    <p>This will be translated</p>

    <!-- This will not be translated because it has translate="no"
attribute-->
    <p translate="no">This will not be translated</p>

    <!-- This will not be translated because it has different
language from document source language -->
    <p lang='ja'>これを訳して</p>

    <ul translate="no">
      <!-- This will not be translated because it inherits
translate="no" attribute-->
      <li>Coffee</li>

      <!-- This will be translated because it overrides inherited
translate="no" with translate="yes"-->
      <li translate="yes">Tea</li>
    </ul>
  </body>
</html>
```

```

        <!-- This will not be translated because it inherits
        translate="no" attribute-->
        <li>Milk</li>
    </ul>
</body>
<footer>
    <script>
        // Configure plugin
        // 📌 Change XXXXXXXXXXXX to your Client-ID
        WebsiteTranslator.Options.api.clientId = "XXXXXXXXXXXX";
        // 📌 Change XXXXXXXXXXXX to your Translation Hub URL
        WebsiteTranslator.Options.api.url = "XXXXXXXXXXXX";

        WebsiteTranslator.Options.ui.toolbarPosition = "top"
        WebsiteTranslator.Initialize()
    </script>
</footer>
</html>

```

I want the translation progress bar to not be visible to the website visitors.

Add **WebsiteTranslator.Options.ui.headless=true** option to the configuration. Website visitors won't see the translation progress bar and be able to revert the page to the original language by clicking the restore link.

## How can I edit the translations?

Translations can be edited on the Translation Hub. See: [Manage translations](#)

## Does the plugin translate images and media content?

The widget does not translate images or media content.

## Will the edit I made in one page affect the translations of the whole website?

Edits are made on a segment basis. You will be able to change the translation of a whole sentence or paragraph not a single word in a sentence. If the same segment appears elsewhere on your website, it will use the edited translation. If there are any changes in the segment it will have to be edited and approved separately. For example, editing a translation of an element in a menu or footer will affect all the pages it appears in, but changing the translation of a street name that appears in different sentences will affect only the identical sentences.

## Will the translation edits I made in my test environment be used in production?

Yes, if you have used the same Website translator integration. If you want to keep the translations separate generate Website translator for each of the environments.

## I want to add or change languages, or MT engines.

You can change or add new languages and domains in the **Settings** of each **integration**. On the **Translation Hub** open **My integrations** and find the correct integration, then click **Settings**.

## How to update translations after changing translation engine?

To update the existing translations after changing the machine translation engine or translation provider:

1. Delete the old translations for the specific language.
2. Translate all content again.

# Troubleshooting

## I can't find some of my page content in the Translation editor

Make sure you open/view all the menus, forms and other dynamic content when translating your web page otherwise they won't be translated and saved to the database for editing. Wait for the translation to finish before closing the page.

## How to enable debugging for the plugin?

Set **WebsiteTranslator.Options.debug=true** in JavaScript integration code.

## The language selector is not displayed

Make sure you have added an element with **class="website-translator"** to your page.

## My website is not being translated

### 1. The language is not set

Check if the language is declared correctly in HTML. Your HTML should have lang attribute defined. Website translator supports ISO 639-1 language codes with optional ISO 3166-1 alpha-2 country codes.

### 2. The contents have not been loaded

Make sure the contents of the page have been loaded before initializing the website translator. Different methods can be used to determine if the page has been loaded.

```
$(document).ready(function() {  
    ...  
    WebsiteTranslator.Initialize()  
})
```

For static websites it is recommended to place the Website translator configuration script at the end of the body tag.

## Language of the Website translator's UI keeps changing

The language of the translation bar and popups is set to the language you are translating into.

If you want them to be in the website's original language, add the following line to the JavaScript integration code:

```
WebsiteTranslator.Options.ui.translate="source"
```

## Website translation is slow / Translation makes the page load slower

First time the content of any page is loaded it will take some time to translate it. The translation will be saved in a translation database and will load faster the next time.

To make it load faster for the visitors it is recommended to "pre-translate" all the pages of your website. Go through pages, selecting each language from the Website translator's language selector to translate them.

## Translation timed out

Waiting for the response from the translation engine took too much time. You can retry translating later.

## The Website translator doesn't look right

Globally set CSS styles can affect the appearance of the website translator. You can restyle it with CSS and fix the issues.

Instruction for plugin