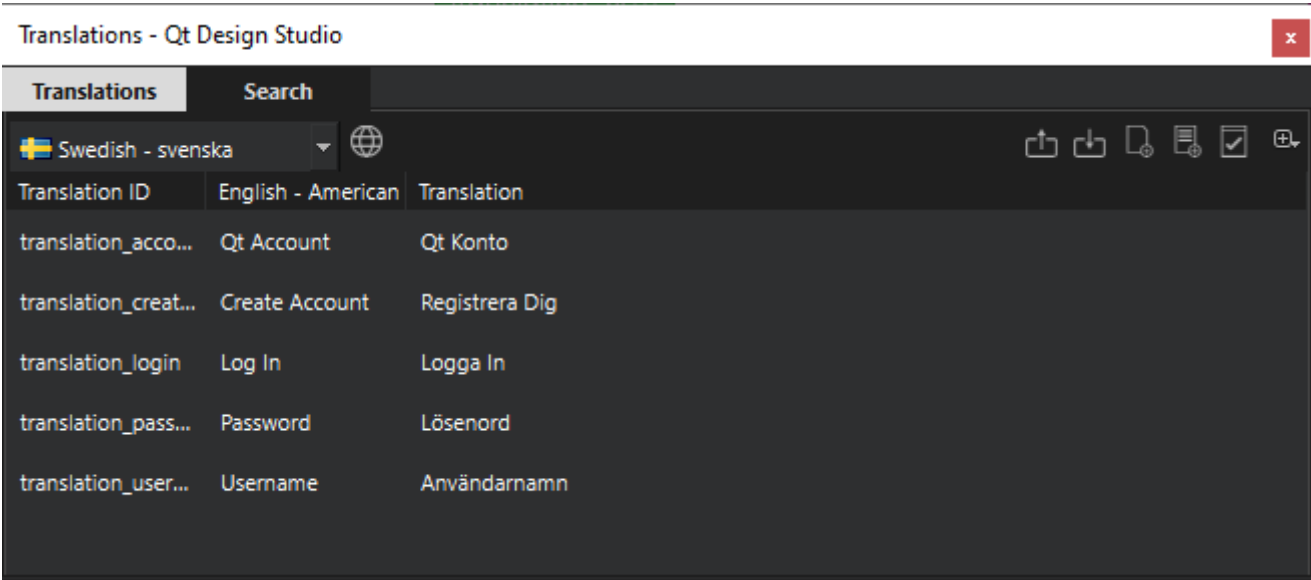


# 翻译

您可以在“翻译”视图中处理翻译和多语言支持。



## 翻译视图按钮摘要

“翻译”视图包含以下按钮。

按钮	功能	阅读更多
	选择您希望项目支持的语言。	
	将所有翻译导出到 JSON 文件。	<a href="#">导入和导出翻译</a>
	从 JSON 文件导入翻译。	<a href="#">导入和导出翻译</a>
	生成 Qt 编译的翻译源文件（.qm）和 Qt 翻译源文件（.ts）。	<a href="#">生成 Qt 翻译源文件</a>
	对多个文档运行翻译测试并创建测试报告。	<a href="#">对多个文档运行翻译测试</a>
	对当前打开的文档运行翻译测试。此测试在 2D 视图中显示平移警告并创建测试报告。	<a href="#">对单个文档运行翻译测试</a>
	导出项目中使用的所有翻译或 UI 中当前可见的所有翻译。	<a href="#">以其他方式导出翻译</a>

您可以使用 JSON 文件导入和导出翻译。

下面是一个 JSON 转换文件的示例：

```
{
  "translatable": [
    {
      "trId": "translation_password",
      "translations": [
        {
          "language": "en",
          "translation": "Password"
        },
        {
          "language": "fi",
          "translation": "Salasana"
        }
      ]
    }
  ]
}
```

## 导入翻译

要将 JSON 翻译文件导入 Qt 设计工作室项目，

- 在 Qt 设计工作室的“翻译”视图中，选择  并打开 JSON 文件。

将翻译匹配的文本字符串。例如，如果您在 JSON 文件中指定了以下翻译 ID：qsTrId

```
"trId": "translation_password",
"translations": [
  {
    "language": "en",
    "translation": "Password"
  },
  {
    "language": "fi",
    "translation": "Salasana"
  }
]
```

the translation applies to all strings with that translation ID in your project.qsTrId


## Generating Qt Translation Source Files

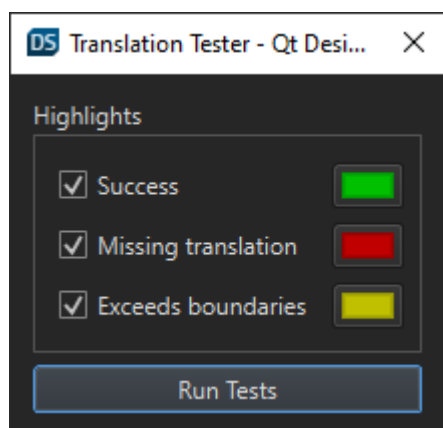
You need to generate Qt compiled translation source files (.qm) and Qt translation source files (.ts) for your project to have the translations working in the actual application and Live Preview.

## Running Translation Test for a Single Document

You can run the translation test to find missing translations and translations where the text exceeds the text element boundaries. Running the test is a quick way to check the translations in the document you have open in the 2D view as it highlights errors in the UI.

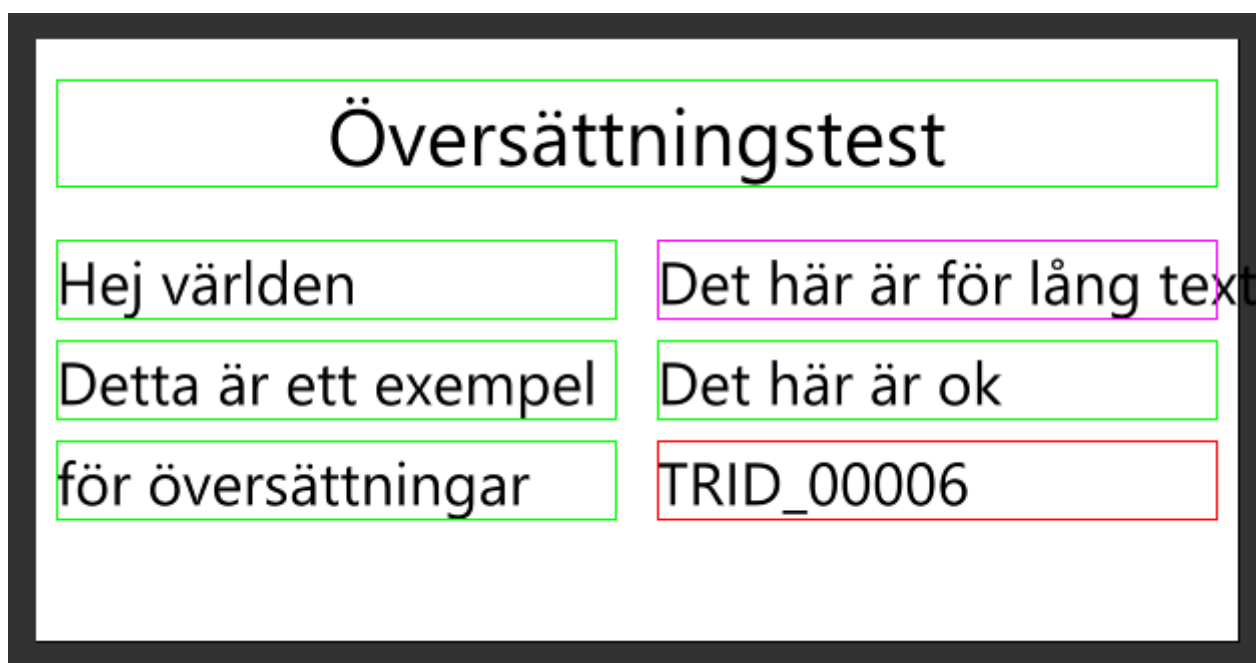
To run the test for the currently open document:

1. In the **Translations** view, select .
2. Select the tests to run and the highlight color for each test:
  - › **Success** highlights translations without any warnings.
  - › **Missing translation** highlights translations that are missing for one or more languages.
  - › **Exceeds boundaries** highlights translations where the text is too long to fit in the text object.



3. Select **Run Tests**.

When the test has completed, you can see the test result highlights in the 2D view.



Running the QML language test generates a report in JSON format. This report is generated in the project root folder with the name *translation\_report\_<ui-file-name>.json*.

Example of QML language test report:


```
{
  "components": [
    {
      "componentPath": "C:/project-directory/content/Screen01.ui.qml",
      "errors": [
        {
          "column": 15,
          "errorType": "Exceeds",
          "line": 45
        },
        {
          "column": 15,
          "errorType": "Missing translation",
          "line": 59
        }
      ]
    }
  ]
}
```

The report shows the type of error as well as line and column of the affected text element in the *ui.qml* file.


## Running Translation Test for Several Documents

You can run the project translation test on several *.ui.qml* files at the same time. Qt Design Studio runs the same tests as during the **Translation Test** and generates the same test reports but does not highlight errors in the UI.

To run the translation test for several documents:

1. Select  in the **Translations** view.
2. Select the files that you want to include in the test.
3. Select **Run Tests**.

## Exporting Translations in Other Ways

Select  in the **Translations** view, for alternative ways to export translations:

- **Export used translations to JSON** exports all translations from the translation database that are currently in use in your project.
- **Export current documents translations to JSON** exports all translations from the currently open documents in your project.



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