



# **QGIS Documentation Guidelines**

**QGIS Project**

**márc. 24, 2022**



<b>1</b>	<b>A Step By Step Contribution</b>	<b>3</b>
1.1	Using the GitHub web interface . . . . .	4
1.1.1	Fork QGIS-Documentation . . . . .	4
1.1.2	Make changes . . . . .	5
1.1.3	Modify files . . . . .	6
1.1.4	Share your changes via Pull Request . . . . .	6
1.1.5	Delete your merged branch . . . . .	9
1.2	Using Git command line tools . . . . .	9
1.2.1	Local repository . . . . .	10
1.2.2	Add another remote repository . . . . .	11
1.2.3	Update your base branch . . . . .	11
1.2.4	Contribute to your production branch . . . . .	12
1.2.5	Share your Changes . . . . .	12
1.2.6	Clean-up your local and remote repository . . . . .	12
1.3	Further reading . . . . .	13
<b>2</b>	<b>Writing Guidelines</b>	<b>15</b>
2.1	Writing Documentation . . . . .	16
2.1.1	Headlines . . . . .	16
2.1.2	Lists . . . . .	16
2.1.3	Inline Tags . . . . .	16
2.1.4	Labels/references . . . . .	17
2.1.5	Figures and Images . . . . .	18
2.1.6	Index . . . . .	21
2.1.7	Special Comments . . . . .	21
2.1.8	Code Snippets . . . . .	21
2.1.9	Footnotes . . . . .	22
2.2	Managing Screenshots . . . . .	22
2.2.1	Add new Screenshots . . . . .	22
2.2.2	Translated Screenshots . . . . .	23
2.3	Documenting Processing algorithms . . . . .	23
<b>3</b>	<b>Writing code in the PyQGIS Cookbook</b>	<b>27</b>
3.1	How to write testable code snippets . . . . .	27
3.1.1	Doctest sphinx directives . . . . .	27
3.1.2	Grouping tests . . . . .	29
3.2	How to test snippets on your local machine . . . . .	29
<b>4</b>	<b>Fordítási irányelvek</b>	<b>31</b>
4.1	A fordítás folyamata . . . . .	31
4.2	Egy fájl fordítása . . . . .	32

4.2.1	Fordítás Transifexen . . . . .	33
4.2.2	Fordítás a Qt Linguist programban . . . . .	34
4.2.3	Egy kézikönyv lefordítása . . . . .	36
4.2.4	Fordítási szabályok összegzése . . . . .	37
<b>5</b>	<b>Helyettesítések</b>	<b>39</b>
5.1	Usage . . . . .	40
5.2	Common Substitutions . . . . .	40
5.2.1	Platform Icons . . . . .	40
5.2.2	Menu Items . . . . .	41
5.3	Toolbar Button Icons . . . . .	42
5.3.1	Manage Layers and overview . . . . .	42
5.3.2	File . . . . .	43
5.3.3	Edit . . . . .	43
5.3.4	Identity result . . . . .	43
5.3.5	Digitizing and Advanced Digitizing . . . . .	44
5.3.6	Map Navigation and attributes . . . . .	45
5.3.7	Selection and Expressions . . . . .	45
5.3.8	Labels and Diagrams . . . . .	46
5.3.9	Decorations . . . . .	46
5.3.10	Help . . . . .	46
5.3.11	Colors . . . . .	47
5.4	Other basic icons . . . . .	47
5.5	Attribute Table . . . . .	48
5.6	Projections and Georeferencer . . . . .	48
5.7	Print Layout . . . . .	48
5.8	Layer Properties . . . . .	50
5.9	Modulok . . . . .	51
5.9.1	Feldolgozás . . . . .	51
5.9.2	Various Core Plugins . . . . .	51
5.9.3	Grass integration . . . . .	52

A QGIS dokumentációja automatikusan frissül a szerveren minden 0, 8 és 16 órakor (USA/Csendes-óceáni idő, UTC -08:00). Az aktuális állapot elérhető a <https://docs.qgis.org> címen.

A QGIS dokumentáció forrása GitHubon található: <https://github.com/qgis/QGIS-Documentation>. Nagyrészt reStructuredText (reST) szintaxissal íródott, kiegészítve néhány szkripttel a Sphinx eszközkészletből a HTML kimenet utófeldolgozása érdekében. Ezekkel az eszközökkel kapcsolatos általános információkért lásd <http://docutils.sourceforge.net/docs/ref/rst/restructuredtext.html> és <https://www.sphinx-doc.org/en/master/usage/restructuredtext/basics.html>.

A következő fejezetek elmagyarázzák:

- hogyan kell kezelni a dokumentáció forrásfájljait a git rendszerrel a GitHub platformon, ahol tárolva vannak.
- hogyan kell szövegeket módosítani, képernyőmentéseket készíteni... a megfelelő módon
- hogyan lehet a módosításokat megosztani, hogy bekerüljenek a hivatalos dokumentációba.

Ha arról keres általános információt, hogy hogyan közreműködhet a QGIS projektben, ahhoz a [Legyen tagja a QGIS közösségnek](#) oldalon talál segítséget.



---

## A Step By Step Contribution

---

- *Using the GitHub web interface*
  - *Fork QGIS-Documentation*
  - *Make changes*
    - \* *Alternative 1: Use the Edit on GitHub shortcut*
    - \* *Alternative 2: Create an ad hoc branch in your documentation repository*
  - *Modify files*
  - *Share your changes via Pull Request*
    - \* *Start a new pull request*
    - \* *Compare changes*
    - \* *Describe your pull request*
    - \* *Review and comment pull request*
    - \* *Make corrections*
  - *Delete your merged branch*
- *Using Git command line tools*
  - *Local repository*
  - *Add another remote repository*
  - *Update your base branch*
  - *Contribute to your production branch*
  - *Share your Changes*
  - *Clean-up your local and remote repository*
- *Further reading*

---

**Megjegyzés:** Though QGIS-Documentation is used to demonstrate the process, all commands and steps shown

---

below also apply to QGIS-Website.

---

If you are reading these lines, it is certainly because you are willing to contribute to writing QGIS documentation and are looking for a how-to. You have come to the right place! The current document will guide you through the different ways to achieve this objective, showing you the main steps to follow, the tricks you can use and the traps you should be aware of.

For any help, do not hesitate to either ask in a comment on the issue report you are trying to fix or write to the [QGIS-community-team list](#). More details at [Get involved in documentation](#).

Let's now dive into the process.

Documentation sources are stored using the git version control system and are available on GitHub at <https://github.com/qgis/QGIS-Documentation>. A list of issues to fix and features to explain can be found at <https://github.com/qgis/QGIS-Documentation/issues>.

---

**Javaslat:** If you are a first-time contributor and do not know where to start from, you may be interested in tackling our [welcoming reports](#).

---

There are two main ways, not mutually exclusive, to modify the files:

1. *Using the GitHub web interface*
2. *Using Git command line tools.*

## 1.1 Using the GitHub web interface

The GitHub web interface allows you to do the following:

- edit files
- preview and commit your changes
- make a pull request to have your changes inserted into the main repository
- create, update, or delete branches

If you are not yet familiar with git and GitHub vocabulary, you may want to read the GitHub [Hello-world](#) project to learn some basic vocabulary and actions that will be used below.

---

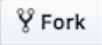
### Megjegyzés: If you are fixing a reported issue

If you are making changes to fix an [issue](#), add a comment to the issue report to assign it to yourself. This will prevent more than one person from working on the same issue.

---

### 1.1.1 Fork QGIS-Documentation

Assuming you already have a [GitHub account](#), you first need to fork the source files of the documentation.

Navigate to the [QGIS-Documentation repository](#) page and click on the  button in the upper right corner.

In your GitHub account you will find a QGIS-Documentation repository (<https://github.com/<YourName>/QGIS-Documentation>). This repository is a copy of the official QGIS-Documentation repository where you have full write access and you can make changes without affecting the official documentation.

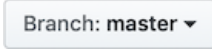
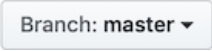


## 1.1.2 Make changes

There are different ways to contribute to QGIS documentation. We show them separately below, but you can switch from one process to the other without any harm.

### Alternative 1: Use the `Edit on GitHub` shortcut

Pages on the QGIS documentation website can be edited quickly and easily by clicking on the `Edit on GitHub` link at the top right of each page.

1. This will open the file in the `qgis:master` branch with a message at the top of the page telling you that you don't have write access to this repo and your changes will be applied to a new branch of your repository.
2. Do your changes. Since the documentation is written using the `reStructureText` syntax, depending on your changes, you may need to rely on the *writing guidelines*.
3. When you finish, make a short comment about your changes and click on *Propose changes*. This will generate a new `branch` (`patch-xxx`) in your repository.
4. After you click on *Propose changes*, github will navigate to the *Comparing changes* page.
  - If you're done making changes, skip to *Compare changes* in the *Share your changes via Pull Request* section below.
  - If there are additional changes that you want to make before submitting them to QGIS, follow these steps:
    1. Navigate to your fork of QGIS-Documentation (<https://github.com/<YourName>/QGIS-Documentation>)
    2. Click on  and search for the `patch-xxx` branch. Select this patch branch. The  button will now say *Branch: patch-xxx*
    3. Jump down to *Modify files* below.

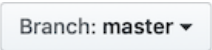
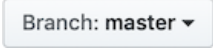
---

**Megjegyzés:** The `Edit on GitHub` shortcut is also available in the drop-down menu at the bottom of the left sidebar.

---

### Alternative 2: Create an ad hoc branch in your documentation repository

You can edit files directly from your fork of the QGIS Documentation.

Click on  in the upper left corner of your forked QGIS- Documentation repository and enter a unique name in the text field to create a new `branch`. The name of the new branch should relate to the problem you intend to fix. The  button should now say *Branch: branch\_name*

---

#### Javaslat: Do your changes in an ad hoc branch, never in the `master` branch

By convention, avoid making changes in your `master` branch except when you merge the modifications from the `master` branch of `qgis/QGIS-Documentation` into your copy of the QGIS-Documentation repository. Separate branches allow you to work on multiple problems at the same time without interfering with other branches. If you make a mistake you can always delete a branch and start over by creating a new one from the `master` branch.

---

### 1.1.3 Modify files

1. Browse the source files of your fork of QGIS-Documentation to the file that needs to be modified
2. Make your modifications following the *writing guidelines*
3. When you finish, navigate to the **Commit Changes** frame at the bottom of the page, make a short comment about your changes, and click on *Commit Changes* to commit the changes directly to your branch. Make sure *Commit directly to the branch\_name branch.* is selected.
4. Repeat the previous steps for any other file that needs to be updated to fix the issue

### 1.1.4 Share your changes via Pull Request

You need to make a pull request to integrate your changes into the official documentation.

---

#### Megjegyzés: If you used an [Edit on GitHub](#) link

After you commit your changes GitHub will automatically open a new page comparing the changes you made in your `patch-xxx` branch to the `qgis/QGIS-Documentation` master branch.

Skip to [Step 2](#) below.

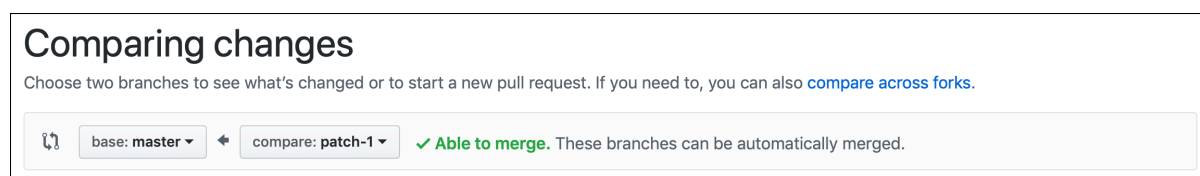
---

#### Start a new pull request

Navigate to the main page of the [QGIS-Documentation](#) repository and click on *New pull request*.

#### Compare changes

If you see two dialog boxes, one that says `base:master` and the other `compare:branch_name` (see figure), this will only merge your changes from one of your branches to your master branch. To fix this click on the *compare across forks* link.



- 1.1. ábra: If your *Comparing changes* page looks like this, click on the *compare across forks* link.

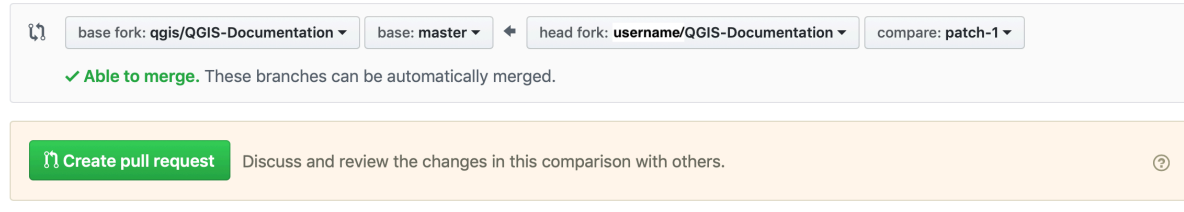
You should see four drop-down menus. These will allow you to compare the changes that you have made in your branch with the master branch that you want to merge into. They are:

- **base fork:** the fork that you want to merge your changes into
- **base:** the branch of the base fork that you want to merge your changes into
- **head fork:** the fork that has changes that you want to incorporate into the base fork
- **compare:** the branch with those changes

Select `qgis/QGIS-Documentation` as the base fork with `master` as base, set the head fork to your repository `<YourName>/QGIS-Documentation`, and set compare to your modified branch.

## Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).



### 1.2. ábra: Comparing changes between qgis/QGIS-Documentation and your repository

A green check with the words **Able to merge** shows that your changes can be merged into the official documentation without conflicts.

Click the *Create pull request* button.

**Figyelem:** If you see **✗ Can't automatically merge.**

This means that there are **conflicts**. The files that you are modifying are not up to date with the branch you are targeting because someone else has made a commit that conflicts with your changes. You can still create the pull request but you'll need to fix any **conflicts** to complete the merge.

**Javaslat:** Though being translated, the **latest version** of QGIS documentation is still maintained and existing issues are fixed. If you are fixing issues for a different release, change **base** from `master` to the appropriate `release_...` branch in the steps above.

## Describe your pull request

A text box will open: fill in any relevant comments for the issue you are addressing.

If this relates to a particular **issue**, add the issue number to your comments. This is done by entering `#` and the issue number (e.g. `#1234`). If preceded by terms like `fix` or `close`, the concerned issue will be closed as soon as the pull request is merged.

Add links to any documentation pages that you are changing.



Click on *Create pull request*.

## Review and comment pull request

As seen above, anyone can submit modifications to the documentation through pull requests. Likewise anyone can review pull requests with questions and **comments**. Perhaps the writing style doesn't match the project guidelines, the change is missing some major details or screenshots, or maybe everything looks great and is in order. Reviewing helps to improve the quality of the contribution, both in form and substance.

To review a pull request:

1. Navigate to the [pull requests page](#) and click on the pull request that you want to comment on.
2. At the bottom of the page you will find a text box where you can leave general comments about the pull request.
3. To add comments about specific lines,


1. Click on  Files changed and find the file you want to comment on. You may have to click on *Display the source diff* to see the changes.
2. Scroll to the line you want to comment on and click on the . That will open a text box allowing you to leave a comment.

Specific line comments can be published either:

- as single comments, using the *Add single comment* button. They are published as you go. Use this only if you have few comments to add or when replying to another comment.
- or as part of a review, pressing the *Start a review* button. Your comments are not automatically sent after validation, allowing you to edit or cancel them afterwards, to add a summary of the main points of the review or global instructions regarding the pull request and whether you approve it or not. This is the convenient way since it's more flexible and allows you to structure your review, edit the comments, publish when you are ready and send a single notification to the repository followers and not one notification for each comment. Get [more details](#).




1.3. ábra: Commenting a line with a change suggestion

Line comments can embed suggestions that the pull request writer can apply to the pull request. To add a suggestion, click the  Insert a suggestion button on top of the comment text box and modify the text within the suggestion block.

---

### Javaslat: Prefer committing suggestions to your pull request as a batch

As a pull request author, when directly incorporating reviewers» feedback in your pull request, avoid using the *Commit suggestion* button at the bottom of the comment when you have many suggestions to address and prefer adding them as a batch commit, that is:

1. Switch to the  Files changed tab
2. Press *Add suggestion to batch* for each rewording you'd like to include. You will see a counter increasing as you go.
3. Press any of the *Commit suggestions* button when you are ready to apply the suggestions to your pull request, and enter a message describing the changes.

This will add all the modifications to your branch as a single commit, resulting in a more legible history of changes and less notifications for the repository followers. Incidentally, proceeding as this will also save you many clicks.



---

## Make corrections

A new pull request will automatically be added to the [Pull requests list](#). Other editors and administrators will review your pull request and they may make suggestions or ask for corrections.

A pull request will also trigger automated build checks (eg, for rst formatting, python code syntaxes), and reports are displayed at the bottom of the page. If an error is found, a red cross will appear next to your commit. Click on the red cross or on `Details` in the summary section at the bottom of the pull request page to see the details of the error. You'll have to fix any reported errors or warnings before your changes are committed to the `qgis/QGIS-Documentation` repository.

You can make modifications to your pull request until it is merged with the main repository, either to improve your request, to address requested modifications, or to fix a build error.

To make changes click on the  `Files changed` tab in your pull request page and click the pencil button  next to the filename that you want to modify.


Any additional changes will be automatically added to your pull request if you make those changes to the same branch that you submitted in your pull request. For this reason, you should only make additional changes if those changes relate to the issue that you intend to fix with that pull request.

If you want to fix another issue, create a new branch for those changes and repeat the steps above.

An administrator will merge your contribution after any build errors are corrected, and after you and the administrators are satisfied with your changes.

### 1.1.5 Delete your merged branch

You can delete the branch after your changes have been merged. Deleting old branches saves you from having unused and outdated branches in your repository.

1. Navigate to your fork of the QGIS-Documentation repository (<https://github.com/<YourName>/QGIS-Documentation>).
2. Click on the `Branches` tab. Below `Your branches` you'll see a list of your branches.
3. Click on the  `Delete this branch` icon to delete any unwanted branches.

## 1.2 Using Git command line tools

The GitHub web interface is an easy way to update the QGIS-documentation repo with your contributions, but it doesn't offer tools to:

- group your commits and clean your change history
- fix possible conflicts with the main repo
- build the documentation to test your changes

You need to [install git](#) on your hard drive in order to get access to more advanced and powerful tools and have a local copy of the repository. Some basics you may often need are exposed below. You'll also find rules to care about even if you opt for the web interface.

In the code samples below, lines beginning with `$` show commands you should type while `#` are comments.

### 1.2.1 Local repository

Now you are ready to get a local clone of **your** QGIS-Documentation repository.

You can clone your QGIS repository using the web URL as follows:

```
# move to the folder in which you intend to store the local repository
$ cd ~/Documents/Development/QGIS/
$ git clone https://github.com/<YourName>/QGIS-Documentation.git
```

The former command line is simply an example. You should adapt both the path and the repository URL, replacing `<YourName>` with your github user name.

Check the following:

```
# Enter the local repository
$ cd ./QGIS-Documentation
$ git remote -v
origin https://github.com/<YourName>/QGIS-Documentation.git (fetch)
origin https://github.com/<YourName>/QGIS-Documentation.git (push)
$ git branch
* master
```

- *origin* is the name of the remote repository of your QGIS-Documentation repository.
- *master* is the default main branch. You should never use it to contribute! **Never!**

Alternatively you can clone your QGIS repository using the SSH protocol:

```
# move to the folder in which you intend to store the local repository
$ cd ~/Documents/Development/QGIS/
$ git clone git@github.com:<YourName>/QGIS-Documentation.git
```

---

#### Javaslat: Permission denied (publickey) error?

If you get a Permission denied (publickey) error with the former command, there may be a problem with your SSH key. See [GitHub help](#) for details.

---

Check the following if you used the SSH protocol:

```
# Enter the local repository
$ cd ./QGIS-Documentation
$ git remote -v
origin git@github.com:<YourName>/QGIS-Documentation.git (fetch)
origin git@github.com:<YourName>/QGIS-Documentation.git (push)
$ git branch
* master
```

You can start to work here but in the long term process you will get a lot of issues when you will push your contribution (called Pull Request in github process) as the master branch of the qgis/QGIS-Documentation repository will diverge from your local/remote repository. You then need to keep track of the main remote repository and work with branches.

## 1.2.2 Add another remote repository

To be able to follow the work in the main project, add a new remote repository in your local repository. This new remote repository is the QGIS-Documentation repository from QGIS project:

```
$ git remote add upstream https://github.com/qgis/QGIS-Documentation.git
$ git remote -v
origin https://github.com/<YourName>/QGIS-Documentation.git (fetch)
origin https://github.com/<YourName>/QGIS-Documentation.git (push)
upstream https://github.com/qgis/QGIS-Documentation.git (fetch)
upstream https://github.com/qgis/QGIS-Documentation.git (push)
```

Similarly, you can use the SSH protocol to add a remote repository in your local repository:

```
$ git remote add upstream git@github.com:qgis/QGIS-Documentation.git
$ git remote -v
origin git@github.com:<YourName>/QGIS-Documentation.git (fetch)
origin git@github.com:<YourName>/QGIS-Documentation.git (push)
upstream git@github.com:qgis/QGIS-Documentation.git (fetch)
upstream git@github.com:qgis/QGIS-Documentation.git (push)
```

So now you have the choice between two remote repository:

- *origin* to push your local branch in **your** remote repository
- *upstream* to merge (if you have right to do so) your contribution to the official one OR to update your master branch of local repository from the master branch of the official repository.

---

**Megjegyzés:** *upstream* is just a label, a kind of standard name but you can call it as you want.

---

## 1.2.3 Update your base branch

Before working on a new contribution, you should always update your master branch in your local repository. Assuming you are willing to push changes to the testing documentation, run the following command lines:

```
# switch to master branch (it is easy to forget this step!)
$ git checkout master
# get "information" from the master branch in the upstream repository
# (aka qgis/QGIS-Documentation's repository)
$ git fetch upstream master
# merge update from upstream/master to the current local branch
# (which should be master, see step 1)
$ git merge upstream/master
# update your remote repository (aka <YourName>/QGIS-Documentation)
$ git push origin master
```

Now you have your local and remote repositories which both have their `master` branch up to date with the official `master` branch of QGIS-Documentation. You can start to work on your contribution.

---

**Megjegyzés:** Switch the branch if you wish to contribute to released doc

Along with the testing documentation, we continue to fix issues in the [latest release](#), meaning that you can also contribute to it. Follow the previous section sample code, replacing `master` with the corresponding branch of the latest documentation.

---

### 1.2.4 Contribute to your production branch

Now that your base branch is updated, you need to create a dedicated branch in which you add your contribution. Always work on a branch other than the base branch! Always!

```
# Create a new branch
$ git checkout -b myNewBranch
# checkout means go to the branch
# and -b flag creates a new branch if needed, based on current branch
# Let's check the list of existing branches (* indicates the current branch)
$ git branch
master
release_2.18
...
* myNewBranch
# You can now add your contribution, by editing the concerned file(s)
# with any application (in this case, vim is used)
$ vim myFile
# once done
$ git add myFile
$ git commit
```

Few words about commit/push commands:

- try to commit only one contribution (atomic change) i.e. address only one issue
- try to explain carefully what you change in the title of your commit and in the description. The first line is a title and should start by an upper case letter and have 80 characters length, don't end with a . . Be concise. Your description can be longer, end with a . and you can give much more details.
- use a # with a number to refer to an issue. Prefix with `Fix` if you fix the ticket: your commit will close the ticket.

Now that your changes are saved and committed in your local branch, you need to send them to your remote repository in order to create pull request:

```
$ git push origin myNewBranch
```

### 1.2.5 Share your Changes

Now you can go to your github repository and *create a Pull Request* as exposed in a previous section. Ensure you create a PR from your branch to the remote branch you are targetting in the official QGIS-Documentation repository.

### 1.2.6 Clean-up your local and remote repository

After your PR has been merged into the official QGIS-Documentation, you can delete your branch. If you work a lot this way, in few weeks you will get a lot of unuseful branches. So keep your repository clean this way:

```
# delete local branch
$ git branch -d myNewBranch
# Remove your remote myNewBranch by pushing nothing to it
$ git push origin :myNewBranch
```

And do not forget to update the `master` branch in your local repository!



## 1.3 Further reading

- Other than the Github web interface and the git command line tools exposed above, there are also [GUI applications](#) you can use to create and manage your contributions to the documentation.
- When the changes in the pull request are conflicting with recent changes pushed to the target branch, the conflicts need to be resolved before a merge is possible:
  - if the conflict relates to few competing lines, a *Resolve conflicts* button is available in the Github pull request page. Press the button and resolve the issue as explained at <https://help.github.com/articles/resolving-a-merge-conflict-on-github/>
  - if the conflict involves files renaming or removal, then you'd need to resolve the conflict using git command lines. Typically, you have to first rebase your branch over the target branch using `git rebase targetBranch` call and fix the conflicts that are reported. Read more at <https://help.github.com/articles/resolving-a-merge-conflict-using-the-command-line/>
- Sometimes, at the end of the proofreading process, you may end up with changes split into multiple commits that are not necessarily worth it. Git command lines help you squash these commits to a smaller number and more meaningful commit messages. Some details at <https://help.github.com/articles/using-git-rebase-on-the-command-line/>



---

## Writing Guidelines

---

- *Writing Documentation*
  - *Headlines*
  - *Lists*
  - *Inline Tags*
  - *Labels/references*
  - *Figures and Images*
    - \* *Pictures*
    - \* *Replacement*
    - \* *Figure*
    - \* *Tables*
  - *Index*
  - *Special Comments*
  - *Code Snippets*
  - *Footnotes*
- *Managing Screenshots*
  - *Add new Screenshots*
  - *Translated Screenshots*
- *Documenting Processing algorithms*

In general, when creating reST documentation for the QGIS project, please follow the [Python documentation style guidelines](#). For convenience, we provide a set of general rules we rely on for writing QGIS documentation below.

## 2.1 Writing Documentation

### 2.1.1 Headlines

To each webpage of the documentation corresponds a `.rst` file.

Sections used to structure the text are identified through their title which is underlined (and overlined for the first level). Same level titles must use same character for underline adornment. In QGIS Documentation, you should use following styles for chapter, section, subsection and minisec.

```

*****
Chapter
*****

Section
=====

Subsection
-----

Minisec
.....

Subminisec
^^^^^^^^^^
    
```

### 2.1.2 Lists

Lists are useful for structuring the text. Here are some simple rules common to all lists:

- Start all list items with a capital letter
- Do not use punctuation after list items that only contain a single simple sentence
- Use period ( . ) as punctuation for list items that consist of several sentences or a single compound sentence

### 2.1.3 Inline Tags

You can use tags to emphasize items.

- **Menu GUI:** to mark a complete sequence of menu selections, including selecting submenus and choosing a specific operation, or any subsequence of such a sequence.

```
:menuselection:`menu --> submenu`
```

- **Dialogs and Tab titles:** Labels presented as part of an interactive user interface including window titles, tab titles, button and option labels.

```
:guilabel:`title`
```

- **Filenames and directories**

```
:file:`README.rst`
```

- **Icons with popup text**

```
|icon| :sup:`popup_text`
```

(see *image* below).

- **Keyboard shortcuts**

```
:kbd:`Ctrl+B`
```

will show Ctrl+B

When describing keyboard shortcuts, the following conventions should be used:

- Letter keys are displayed using uppercase: S
- Special keys are displayed with an uppercase first letter: Esc
- Key combinations are displayed with a + sign between keys, without spaces: Shift+R

- **User text**

```
`label`
```

### 2.1.4 Labels/references

Anchors inside the text can be used to create hyperlinks to sections or pages.

The example below creates the anchor of a section (e.g., Label/reference title)

```
.. my_anchor:
Label/reference
-----
```

To call the reference in the **same page**, use

```
see my_anchor_ for more information.
```

which will return:

see *my\_anchor* for more information.

Notice that it will jump to the line/thing following the «anchor». You do not need to use apostrophes, but you do need to have empty lines after the anchor.

Another way to jump to the same place **from anywhere in the documentation** is to use the `:ref:` role.

```
see :ref:`my_anchor` for more information.
```

which will create a link with the caption instead (in this case the title of this section!):

see *Labels/references* for more information.

So, reference 1 (*my\_anchor*) and reference 2 (*Labels/references*). Because the reference often displays a full caption, it is not really necessary to use the word *section*. Note that you can also use a custom caption to describe the reference:

```
see :ref:`Label and reference <my_anchor>` for more information.
```

which returns:

see *Label and reference* for more information.

### 2.1.5 Figures and Images

#### Pictures

To insert an image, use

```
.. figure:: /static/common/logo.png
   :width: 10 em
```

which returns



#### Replacement


You can put an image inside text or add an alias to use everywhere. To use an image inside a paragraph, first create an alias in the `source/substitutions.txt` file:

```
.. |nice_logo| image:: /static/common/logo.png
   :width: 1 em
```

and then call it in your paragraph:

```
My paragraph begins here with a nice logo |nice_logo|.
```

This is how the example will be displayed:

My paragraph begins here with a nice logo .

To allow preview rendering in GitHub that is as close as possible to HTML rendering, you will also need to add the image replacement call at the end of the file you changed. This can be done by copy-pasting it from `substitutions.txt` or by executing the `scripts/find_set_subst.py` script.

---

**Megjegyzés:** Currently, to ensure consistency and help in the use of QGIS icons, a list of aliases is built and available in the [Helyettesítések](#) chapter.

---

#### Figure

```
.. _figure_logo:
.. figure:: /static/common/logo.png
   :width: 20 em
   :align: center

   A caption: A logo I like
```

The result looks like this:



2.1. ábra: A caption: A logo I like

To avoid conflicts with other references, always begin figure anchors with `_figure_` and use terms that easily connect to the figure caption. While only the centered alignment is mandatory for the image, feel free to use any other options for figures (such as `width`, `height`, `scale...`) if needed.

The scripts will insert an automatically generated number before the caption of the figure in the generated HTML and PDF versions of the documentation.

To use a caption (*see My caption*) just insert indented text after a blank line in the figure block.

A figure can be referenced using the reference label like this:

```
see :numref:`figure_logo`
```

renders like this:

see 2.1. ábra

This is the preferred way of referencing figures.

---

**Megjegyzés:** For `:numref:` to work, the figure **must have a caption**.

---

Avoid using `:ref:` instead of `:numref:` for reference, since this returns the full caption of the image.

```
see :ref:`figure_logo`
```

renders like this:

see *A caption: A logo I like*

## Tables

A simple table can be coded like this

```
=====
x          y          z
=====
1          2          3
4          5
=====
```

It will render like this:

x	y	z
1	2	3
4		5

Use a \ (backslash) followed by an empty space to leave an empty space.

You can also make more complicated tables and reference them:



```
.. _my_drawn_table:

+-----+-----+
| Windows | macOS |
+-----+-----+
| |win|   | |osx|   |
+-----+-----+
| and of course not to forget |nix| |
+-----+-----+

My drawn table, mind you this is unfortunately not regarded as a caption

You can reference it like this: my_drawn_table_.
```

The result:

Windows	macOS
	X
and of course not to forget 	

My drawn table, mind you this is unfortunately not regarded as a caption

You can reference to it like this *my\_drawn\_table*.

For even more complex tables, it is easier to use list-table:

```
.. list-table::
   :header-rows: 1
   :widths: 20 20 20 40

   * - What
     - Purpose
     - Key word
     - Description
   * - **Test**
     - ``Useful test``
     - complexity
     - Geometry. One of:

       * Point
       * Line
```

The result:

What	Purpose	Key word	Leírás
<b>Test</b>	Useful test	complexity	Geometry. One of: <ul style="list-style-type: none"> <li>• Point</li> <li>• Line</li> </ul>



## 2.1.6 Index

An index is a handy way to help the reader find information in a document. QGIS documentation provides some essential indices. There are a few rules that help us provide a set of indices that are really useful (coherent, consistent and really connected to each other):

- An index should be human readable, understandable and translatable; an index can be made from many words but you should avoid any unneeded `_`, `-`... characters to link them i.e., `Loading layers` instead of `loading_layers` or `loadingLayers`.
- Capitalize only the first letter of the index unless the word has a particular spelling. E.g., `Loading layers`, `Atlas generation`, `WMS`, `pgsql2shp`.
- Keep an eye on the existing [Index list](#) in order to reuse the most convenient expression with the right spelling and avoid unnecessary duplicates.

Several index tags exist in RST. You can use the inline `:index:` tag within normal text:

```
QGIS can load several :index:`Vector formats` supported by GDAL/OGR ...
```

Or you can use the `.. index::` block-level markup which links to the beginning of the next paragraph. Because of the rules mentioned above, it is recommended to use the block-level tag:

```
.. index:: WMS, WFS, Loading layers
```

It is also recommended to use index parameters such as `single`, `pair` and `see`, in order to build a more structured and interconnected index table. See [Index generating](#) for more information on index creation.

## 2.1.7 Special Comments

Sometimes, you may want to emphasize some points of the description, either to warn, remind or give some hints to the user. In QGIS Documentation, we use reST special directives such as `.. warning::`, `.. seealso::``, ```.. note::` and `.. tip::`. These directives generate frames that highlight your comments. See [Paragraph Level markup](#) for more information. A clear and appropriate title is required for both warnings and tips.

```
.. tip:: **Always use a meaningful title for tips**
```

```
Begin tips with a title that summarizes what it is about. This helps
users to quickly overview the message you want to give them, and
decide on its relevance.
```

## 2.1.8 Code Snippets

You may also want to give examples and insert code snippets. In this case, write the comment below a line with the `::` directive inserted. For a better rendering, especially to apply color highlighting to code according to its language, use the code-block directive, e.g. `.. code-block:: xml`. More details at [Showing code](#).

---

**Megjegyzés:** While texts in note, tip and warning frames are translatable, be aware that code block frames do not allow translation. So avoid comments not related to the code and keep comments as short as possible.

---

### 2.1.9 Footnotes

Please note: Footnotes are not recognized by any translation software and it is also not converted to pdf format properly. So, if possible, don't use footnotes within any documentation.

This is for creating a footnote (showing as example<sup>1</sup>)

```
blabla [1]_
```

Which will point to:

## 2.2 Managing Screenshots

### 2.2.1 Add new Screenshots

Here are some hints to create new, nice looking screenshots. The images should be placed in an image (`img/`) folder that is located in the same folder as the referencing `.rst` file.

- You can find some prepared QGIS-projects that are used to create screenshots in the `./qgis-projects` folder of this repository. This makes it easier to reproduce screenshots for the next version of QGIS. These projects use the QGIS [Sample Data](#) (aka Alaska Dataset), which should be placed in the same folder as the QGIS-Documentation Repository.
- Reduce the window to the minimal space needed to show the feature (taking the whole screen for a small modal window > overkill)
- The less clutter, the better (no need to activate all the toolbars)
- Don't resize them in an image editor; the size will be set into the `.rst` files if necessary (downscaling the dimensions without properly upping the resolution > ugly)
- Cut the background
- Make the top corners transparent if the background is not white
- Set print size resolution to `135 dpi` (e.g. in Gimp set the print resolution *Image ► Print size* and save). This way, images will be at original size in html and at a good print resolution in the PDF. You can also use ImageMagick `convert` command to do a batch of images:

```
convert -units PixelsPerInch input.png -density 135 output.png
```

- Save them as `.png` (to avoid `.jpeg` artifacts)
- The screenshot should show the content according to what is described in the text

---

**Javaslat:** If you are on Ubuntu, you can use the following command to remove the global menu function and create smaller application screens with menus:

```
sudo apt autoremove appmenu-gtk appmenu-gtk3 appmenu-qt
```

---

<sup>1</sup> Updates of core plugins

## 2.2.2 Translated Screenshots

Here are some additional hints for those that want to create screenshots for a translated user guide:

Translated images should be placed in a `img/<your_language>/` folder. Use the same filename as the english «original» screenshot.

## 2.3 Documenting Processing algorithms

If you want to write documentation for Processing algorithms, consider these guidelines:

- Processing algorithm help files are part of QGIS User Guide, so use the same formatting as User Guide and other documentation.
- Each algorithm documentation should be placed in the corresponding **provider** folder and **group** file, e.g. the algorithm *Voronoi polygon* belongs to the *QGIS* provider and to the group *vectorgeometry*. So the correct file to add the description is: `source/docs/user_manual/processing_algs/qgis/vectorgeometry.rst`.

---

**Megjegyzés:** Before starting to write the guide, check if the algorithm is already described. In this case, you can enhance the existing description.

---

- It is **extremely** important that each algorithm has an *anchor* that corresponds to the provider name + the unique name of the algorithm itself. This allows the Help button to open the Help page of the correct section. The anchor should be placed **above** the title, e.g. (see also the *Labels/references* section):

```
.. _qgisvoronoipolygons:
Voronoi polygons
-----
```

To find out the algorithm name you can just hover the mouse on the algorithm in the Processing toolbox.

- Avoid using „This algorithm does this and that...” as the first sentence in the algorithm description. Try to use more general expressions like:

```
Takes a point layer and generates a polygon layer containing the...
```





- Avoid describing what the algorithm does by replicating its name and please don't replicate the name of the parameter in the description of the parameter itself. For example if the algorithm is *Voronoi polygon* consider to describe the Input layer as *Layer* to calculate the polygon from.
- Indicate in the description whether the algorithm has a default shortcut in QGIS or supports in-place editing.
- Add images! A picture is worth a thousand words! Use `.png` format and follow the general guidelines for documentation (see the *Figures and Images* section for more info). Put the image file in the correct folder, i.e. the `img` folder next to the `.rst` file you are editing.
- If necessary, add links in the „See also” section that provide additional information about the algorithm (e.g., publications or web-pages). Only add the „See also” section if there is really something to see. As a good practice, the „See also” section can be filled with links to similar algorithms.
- Give clear explanation for algorithm parameters and outputs: take inspiration from existing algorithms.
- Avoid duplicating detailed description of algorithm options. Add this information in the parameter description.
- Avoid adding information about the vector geometry type in the algorithm or parameter description, as this information is already available in the parameter descriptions.
- Add the default value of the parameter, e.g.:

```

* - **Number of points**
- ``NUMBER_OF_POINTS``
- [number]

Default: 1
- Number of points to create
    
```

- Describe the *type* of input supported the parameters. There are several types available you can pick one from:

Parameter/Output type	Leírás	Visual indicator
Point vector layer	vector: point	
Line vector layer	vector: line	
Polygon vector layer	vector: polygon	
Generic vector layer	vector: any	
Vector field numeric	tablefield: numeric	<b>1.2</b>
Vector field string	tablefield: string	<b>abc</b>
Vector field generic	tablefield: any	
Raster layer	raster	
Raster band	raster band	
HTML file	html	
Table layer	table	
Expression	expression	
Point geometry	coordinates	
Extent	extent	
CRS	crs	
Enumeration	enumeration	
List	list	
Number	number	1,00 
String	string	Display name <input type="text" value="lakes.shp"/>
Boolean	boolean	<input checked="" type="checkbox"/>
Folder path	folder	
File	file	
Matrix	matrix	
Layer	layer	
Same output type as input type	same as input	
Definition	definition	
Point	point	
MultipleLayers	multipleLayers	
Range	range	
AuthConfig	authconfig	
Mesh	mesh	
Layout	layout	
LayoutItem	layoutitem	
Color	color	
Scale	scale	

- Study an existing and well documented algorithm, and copy all the useful layouts.
- When you are finished, just follow the guidelines described in *A Step By Step Contribution* to commit your changes and make a Pull Request

Here is an example of an existing algorithm to help you with the layout and the description:

```
.. _qgiscountpointsinpolygon:
```

Count points in polygon

-----

Takes a point and a polygon layer and counts the number of points from the point layer in each of the polygons of the polygon layer.

A new polygon layer is generated, with the exact same content as the input polygon layer, but containing an additional field with the points count corresponding to each polygon.

```
.. figure:: img/count_points_polygon.png
   :align: center
```

The labels in the polygons show the point count

An optional weight field can be used to assign weights to each point. Alternatively, a unique class field can be specified. If both options are used, the weight field will take precedence and the unique class field will be ignored.

```
``Default menu``: :menuselection:`Vector --> Analysis Tools`
```

Parameters

.....

```
.. list-table::
   :header-rows: 1
   :widths: 20 20 20 40
```

- \* - Label
  - Name
  - Type
  - Description
- \* - **Polygons**
  - ``POLYGONS``
  - [vector: polygon]
  - Polygon layer whose features are associated with the count of points they contain
- \* - **Points**
  - ``POINTS``
  - [vector: point]
  - Point layer with features to count
- \* - **Weight field**
  - Optional
    - ``WEIGHT``
    - [tablefield: numeric]
    - A field from the layer.
    - The count generated will be the sum of the weight field of the points contained by the polygon.
- \* - **Class field**
  - Optional
    - ``CLASSFIELD``
    - [tablefield: any]
    - Points are classified based on the selected attribute and if several points with the same attribute value are within the polygon, only one of them is counted.
    - The final count of the points in a polygon is, therefore, the count of different classes that are found in it.
- \* - **Count field name**
  - ``FIELD``

(continues on next page)

```
- [string]

Default: 'NUMPOINTS'
- The name of the field to store the count of points
* - **Count**
- ``OUTPUT``
- [vector: polygon]

Default: [Create temporary layer]
- Specification of the output layer type (temporary, file,
  GeoPackage or PostGIS table).
  Encoding can also be specified.

Outputs
.....

.. list-table::
   :header-rows: 1
   :widths: 20 20 20 40

   * - Label
     - Name
     - Type
     - Description
   * - **Count**
     - ``OUTPUT``
     - [vector: polygon]
     - Resulting layer with the attribute table containing the
       new column with the points count
```

---

## Writing code in the PyQGIS Cookbook

---

- *How to write testable code snippets*
  - *Doctest sphinx directives*
  - *Grouping tests*
- *How to test snippets on your local machine*

If you are planning to add or update some chapters of the PyQGIS-Developer-Cookbook, then you should follow some rules to enable automatic testing of the code snippets.

Testing is really important because it allows automatic checking of the code. Code snippets with errors or code that uses outdated methods will fail and the notification will help you fix the problems.

For testing, we use the [Sphinx doctest extension](#). Refer to the extension documentation for more detailed information.

### 3.1 How to write testable code snippets

Writing testable code snippets is not so different from the *old* method. Basically, you need to use a different Sphinx *directive*.

#### 3.1.1 Doctest sphinx directives

Instead of embedding the code in a `.. code-block:: python` directive (which would highlight the code syntax automatically), you now need to embed it in a `.. testcode::`. That is, instead of this:

```
.. code-block:: python

    crs = QgsCoordinateReferenceSystem("EPSG:4326")
    assert crs.isValid()
```

You now use this:

```
.. testcode::

    crs = QgsCoordinateReferenceSystem("EPSG:4326")
    assert crs.isValid()
```

After you wrote the example code, you should add some *assertion* that will evaluate the code and that will be run automatically.

In the above example, you are creating a crs and with `assert crs.isValid()` you **test** if it is valid. If the code has a wrong python syntax or the `crs.isValid()` returns `False`, this code snippet will fail during testing.

To successfully run the tests on snippets, you must import all the classes and declare any variables used in the code snippets. You can include those in the code snippet itself (visible in the HTML pages) or you can add them to a `.. testsetup::` directive (hidden in the HTML pages). The `.. testsetup::` needs to be placed before the `.. testcode::`:

```
.. testsetup::

    from qgis.core import QgsCoordinateReferenceSystem

.. testcode::

    crs = QgsCoordinateReferenceSystem("EPSG:4326")
    assert crs.isValid()
```

If the code snippet doesn't create objects (and therefore you cannot use something like `assert object.isValid()`), you can test the code using the `print()` method, then add the expected results within a `.. testoutput::` directive to compare the expected output:

```
.. testcode::

    print("QGIS CRS ID:", crs.srsid())
    print("PostGIS SRID:", crs.postgisSrid())

.. testoutput::

    QGIS CRS ID: 3452
    PostGIS SRID: 4326
```

By default, the content of `.. testoutput::` is shown in the HTML output. To hide it from the HTML use the `:hide:` option:

```
.. testoutput::
    :hide:

    QGIS CRS ID: 3452
    PostGIS SRID: 4326
```

---

**Megjegyzés:** If the code snippet contains any print statements, you **MUST** add a `testoutput` with the expected outputs; otherwise the test will fail.

---



### 3.1.2 Grouping tests

For each rst document, the code snippets are tested sequentially, which means you can use one `.. testsetup::` for all the following code snippets and that later snippets will have access to variables declared in earlier ones in the document.

Alternatively, you can use groups to break down the examples on the same page in different tests.

You add the code snippet to groups by adding one or more group names (separated by commas) in the respective directive:

```
.. testcode:: crs_crsfromID [, morenames]

    crs = QgsCoordinateReferenceSystem("EPSG:4326")
    assert crs.isValid()
```

The `doctest` will pick each group snippets and run them independently.

---

**Megjegyzés:** Use group names that make sense with the related content. Use something similar to `<chapter>_<subchapter>`, for example: `crs_intro`, `crs_fromwkt`. In case of failures, this will help identifying where the failures occur.

---

If you don't declare any group, the code snippet will be added to a group named `default`. If instead, you use `*` as a group name, the snippet will be used in all testing groups, something normally usefull to use in the test setup:

```
.. testsetup:: *

    from qgis.core import QgsCoordinateReferenceSystem
```

## 3.2 How to test snippets on your local machine

---

**Megjegyzés:** Instructions are valid for Linux system.

---

To test Python code snippets, you need a *QGIS* installation. For this, there are many options. You can:

- Use your system *QGIS* installation with *Sphinx* from a Python virtual environment:

```
make -f venv.mk doctest
```

- Use a manually built installation of *QGIS*. You'd need to:

1. Create a custom Makefile extension on top of the `venv.mk` file, for example a `user.mk` file with the following content:

```
# Root installation folder
QGIS_PREFIX_PATH = /home/user/apps/qgis-master

include venv.mk
```

Or

```
# build output folder
QGIS_PREFIX_PATH = /home/user/dev/QGIS-build-master/output

include venv.mk
```

2. Then, use it to run target `doctest`:

```
make -f user.mk doctest
```

- Run target `doctest` inside the official *QGIS* docker image:

```
make -f docker.mk doctest
```

You have to install [Docker](#) first because this uses a docker image with QGIS in it.

---

## Fordítási irányelvek

---

- *A fordítás folyamata*
- *Egy fájl fordítása*
  - *Fordítás Transifexen*
  - *Fordítás a Qt Linguist programban*
  - *Egy kézikönyv lefordítása*
  - *Fordítási szabályok összegzése*

This manual is aiming to help the translator. First the general process of how technically a translation is done is explained. Later the translation is explained from an actual English rst document that is translated to Dutch. Finally a summary of *Rules of translation* is given.

---

**Megjegyzés:** Habár ez az útmutató a QGIS dokumentációra összpontosul, de az alábbi módszerek és a szabályok leírásai alkalmazhatóak a QGIS alkalmazás és honlap fordításánál is.

---

### 4.1 A fordítás folyamata

QGIS Documentation is written in English with `.rst` files. In order to provide translations:

1. A prebuild script creates translation files named `.po` files for the English language in the folder `/QGIS-Documentation/locale/en`.
2. These „originals” are then copied by the script to the `locale` folders for other languages.
3. The sentences in the `.po` files are pushed to the Transifex web platform, and made available for translators who can begin to translate from English to their language with the editor.
4. At the end of the day, a script pulls back all validated translations
5. At the next build of the documentation (which occurs at least once a day), a script reuses the sentences to create translated output

6. When afterwards an `.rst` document is updated a new `.po` file is created in the English part. The contents of this new file will be merged with already existing `.po` files for each language. This means that when a new line is added to an `.rst` document that was already translated, only the new/updated sentences are added in the translated `.po` file and needs to be translated. The amount of work for updating translations for next release should be relatively small.

---

**Megjegyzés:** The process above is the same followed to translate QGIS website, QGIS Desktop and QGIS Server. The difference with the applications is that instead of `.po` files, all the translatable strings in the `.py`, `.cpp`, `.yaml` and others... files that shape the application are pushed to and pulled from transifex as a single `.ts` file.

---

Jelenleg két különböző eszköz használható a QGIS fordítás készítésére:

- The [Transifex web platform](#), the easiest and recommended way to translate QGIS, transparently does the process described above and pulls all the translatable texts in one place for the translator. Just pick the files you want and translate. Translated files are stored in the platform until another release is pushed.
- [Qt Linguist](#), a Qt development tool, requires the translator to pull locally the `.po` (or `.ts`) files from the source code, translate and then push back.

Jegyezze meg, hogy bármelyik eszközt is választja, a fordítás szabályai ugyanazok lesznek.

## 4.2 Egy fájl fordítása

A fordítás működésének elmagyarázásához, a hőtérkép modult fogjuk használni példaként. Ebben a példában a modult le fogjuk fordítani angolról hollandra, de ez gyakorlatilag ugyanúgy működik más dokumentumok esetén is bármilyen nyelven.

A dokumentum forrása itt található:

```
QGIS-Documentation/source/docs/user_manual/plugins/plugins_heatmap.rst
```

Tehát, miért választottam ezt a dokumentumot?

1. It includes images, captions, headers, references and replacements.
2. Ezt én írtam, úgyhogy nekem ezt könnyebb fordítani ;-)

The build process has created the English `.po` file which can be found here:

```
QGIS-Documentation/locale/en/LC_MESSAGES/docs/user_manual/plugins/plugins_heatmap.  
↳po
```

The equivalent Dutch `.po` file (basically a copy) can be found here:

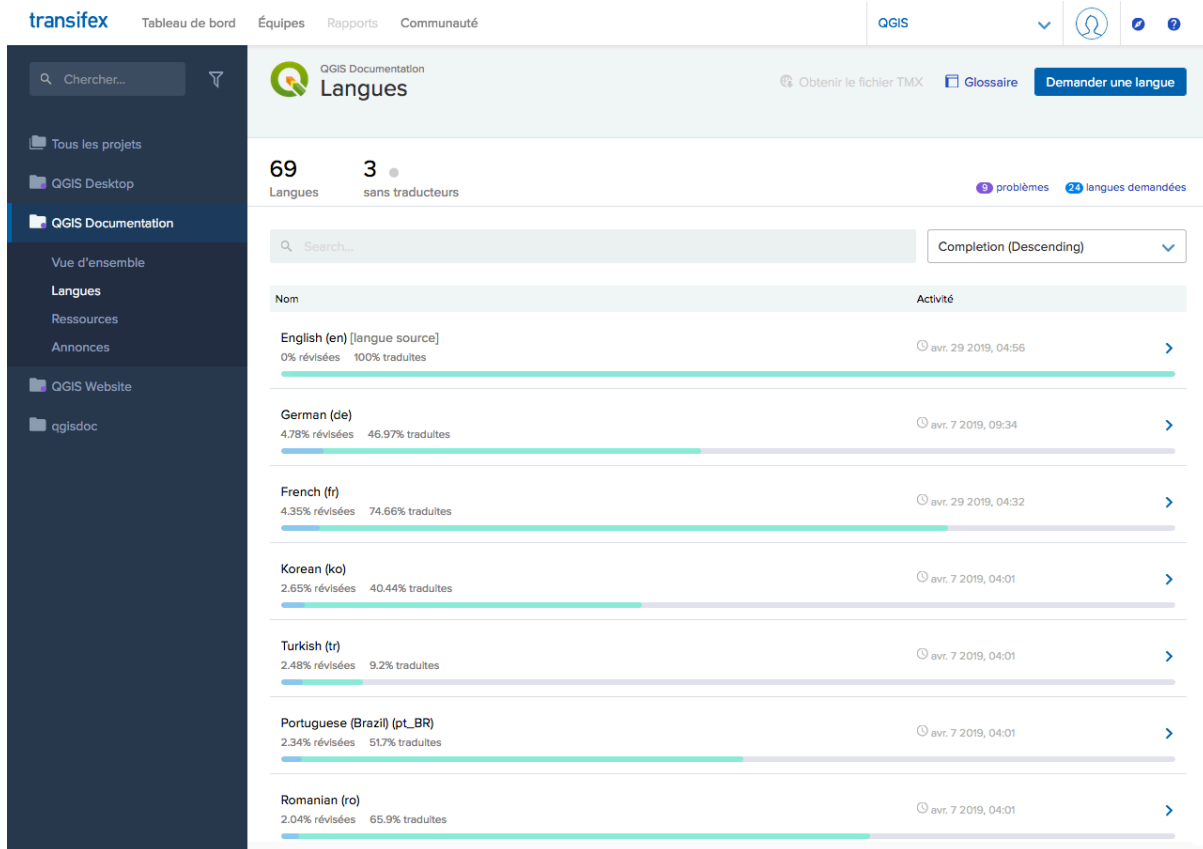
```
QGIS-Documentation/locale/nl/LC_MESSAGES/docs/user_manual/plugins/plugins_heatmap.  
↳po
```

Along this file you will see a tiny `.mo` file which indicates that it does not hold any translations yet.

## 4.2.1 Fordítás Transifexen

In order to translate using Transifex, you need to:

1. create an account on Transifex and join the QGIS project.
2. Once you are part of a language team, click on the corresponding project (in this case QGIS Documentation). A list of available languages with their ratio of translation is displayed.



4.1. ábra: Select language for translation in the Transifex menu

3. Hover over your language and click either:
  - *View resources*: translatable .po files with their ratio of translation, number of strings and some more metadata are now displayed.
  - or *Translate*: opens the interface of translation with all the available .po files
4. Identify the file you'd like to translate (in our case we are looking for the docs\_user-manual\_plugins\_plugins-heatmap, the heatmap plugin file) or any unfinished file and click on it: strings in the files are loaded and you can use the interface to filter, translate, suggest translation...

---

**JavaSlat:** For the documentation or the website, clicking the `Fix me` link in the footer of a page brings you directly to its corresponding translation page in Transifex.

---

5. All you need to do is select each text and translate following the *guidelines*.

For further information on the use of Transifex Web Editor, see <https://docs.transifex.com/translation/translating-with-the-web-editor>.

## 4.2.2 Fordítás a Qt Linguist programban

With Qt Linguist, you need to:

1. manually grab the `.po` or `.ts` file(s). This can be achieved by downloading the file(s) either from Transifex platform or from the `locale/$language` folder of the source repository (in GitHub),
2. proceed to the translation locally
3. upload the modified files to their sources (Transifex or GitHub).

While downloading and uploading translatable files can be done with Transifex, it's not advised to use this process. Since there's no versioning system on Transifex, the file you upload will simply replace the existing one and potentially overwrite any modification made by others on the platform in the meantime.

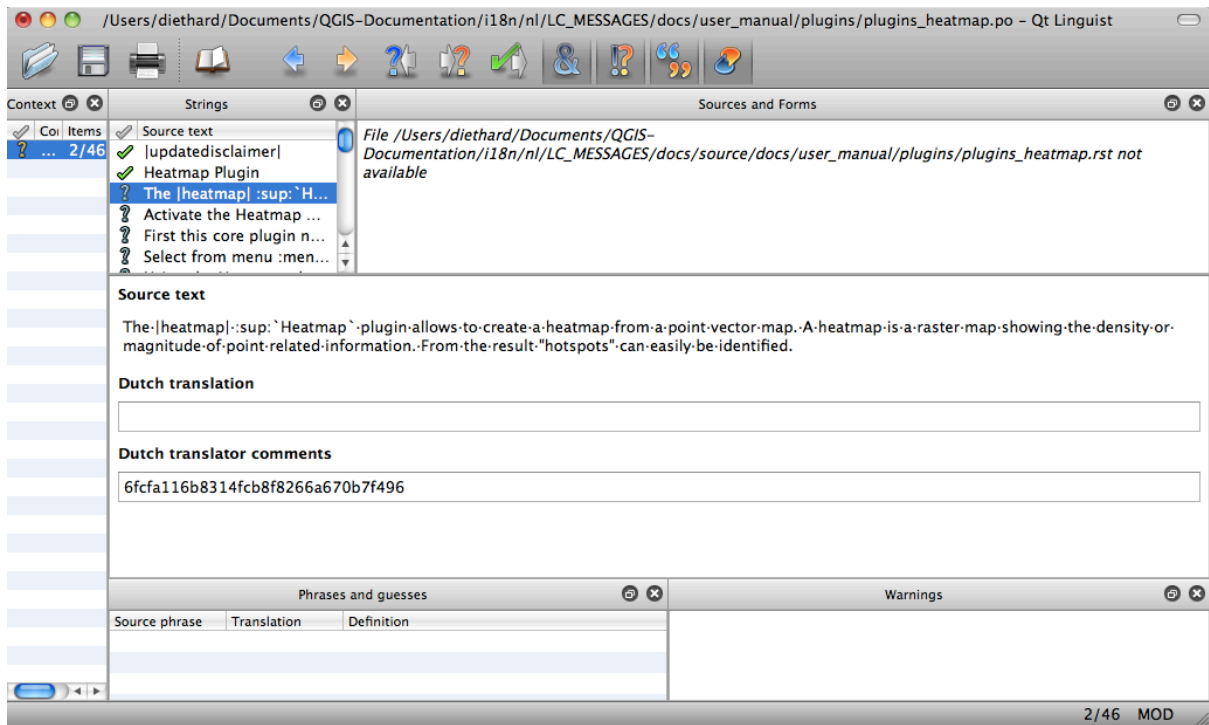
When you open the file in Qt Linguist for the first time you will see the following dialog:



4.2. ábra: A fordításhoz használt nyelv kiválasztása a linguist menüjében






A célnyelvet pontosan kell kitölteni. A forrásnyelvet úgy lehet hagyni ahogy van, vagyis POSIX, és a Country/Region értékét is, tehát Bármely Ország.

When you press the *OK* button Qt Linguist is filled with sentences and you can start translating, see 4.3. ábra.



4.3. ábra: Fordítás a Linguist menü használatával

A menüben az alábbi gombok láthatóak, amelyek kényelmes használatot biztosítanak.

-  A Translation Done Next gomb, a legfontosabb gomb. Ha az elem fordítást igényel, akkor adjon meg egy fordítást a szöveg mezőben, és nyomja le ezt a gombot. Ha az elem nem igényel fordítást, akkor csak hagyja üresen a fordítás mezőt és nyomja meg ezt a gombot, ami jelezni fogja, hogy ez az elem készen van és folytathatja a következő elemmel.
-  A Goto Previous gomb használható az előző fordítási elemre történő visszalépésre.
-  A Goto Next gomb használható az következő fordítási elemre történő ugráshoz.
-  A Next Todo gomb, az első lefordítatlan elemhez ugrik. Hasznos, amikor az eredeti dokumentum megváltozott és csak kevés új/módosított mondatot szükséges lefordítani.
-  A Previous Todo gomb, visszafelé megkeresi és odaugrik az első lefordítatlan elemhez.

For further information on the use of Qt Linguist, see <https://doc-snapshots.qt.io/qt5-5.12/linguist-translators.html>

**Figyelem:** If you want to download content to translate from the source repository, never do this in the `master` branch. For translations there are always translation branches available, once a document is fully updated in English for a certain version. As an example, to translate the manual of QGIS 2.8, you have to use the `manual_en_v2.8` branch.

### 4.2.3 Egy kézikönyv lefordítása

Most elkezdjük lefordítani a `plugin_heatmap` kézikönyvet!

A legtöbb mondat fordítása magától értetődik. Ebben a fordítás fejezetben rá fogok mutatni azokra a részekre (rst utasítások) amelyek különleges fordítást igényelnek.

Lentebb láthatunk egy érdekes lefordítandó mondatot:

The `|heatmap|` `:sup:`Heatmap`` plugin allows to create a heatmap from a point vector map. A heatmap is a raster map showing the density or magnitude of point related information. From the result "hotspots" can easily be identified.

Ez a mondat két rst utasítást tartalmaz:

1. A `|heatmap|` szó | helyettesítők között van és ezt soha nem szabad lefordítani! Ez lesz lecserélve a hőtérkép modul ikonjával!
2. `:sup:`Heatmap``, `a``:sup:``` utasítás egy szuperpozíciós utasítás és a következő szöveget egy kicsit nagyobb méretben jeleníti meg. Ezt a felugró szövegek megjelenítésénél használják, ami akkor jelenik meg, ha a kurzor az eszköztár elem felett van, és ez különböző lehet, amikor ez ténylegesen le van fordítva a QGIS alkalmazásban. A holland nyelv esetében ez nincs lefordítva.

A mondaton belül minden más egyszerű szöveget le lehet fordítani!

A következő fordítási elem a `:ref:` utasítást tartalmazza, amit általánosan a kézikönyv egy másik fejezetére történő hivatkozásra használnak! A `:ref:` utasítást követő szöveget soha nem szabad lefordítani, mert az egy egyedi azonosító!

First this core plugin needs to be activated using the Plugin Manager (see Section `:ref:`load_core_plugin``). After activation the heatmap icon `|heatmap|` can be found in the Raster Toolbar.

In this case `load_core_plugin` is a unique reference identifier placed before an rst item that has a caption. The `ref` statement will be replaced with the text of the header and turned into a hyperlink. When the header this reference is referring to is translated, all references to this header will be automatically translated as well.

A következő elem tartalmazza a `:menuselection:` rst jelzést követő szöveget, ami valóban megjelenik a QGIS alkalmazás menüjében, ez lefordítható az alkalmazásban és ezért meg is kell változtatni amikor ez a helyzet.

Select from menu `:menuselection:`View --> Toolbars --> Raster`` to activate the Raster Toolbar when it is not yet activated.

A fenti elem „View →” valóban le van fordítva erre: „Beeld →” mivel ez a fordítás használatos a QGIS alkalmazás holland honosításában.

Egy kicsit tovább találkozunk a következő trükkös fordítás elemmel:

The `|heatmap|` `:sup:`Heatmap`` tool button starts the Dialog of the Heatmap plugin (see `:numref:`figure_heatmap_settings``).

It holds a reference to a figure `figure_heatmap_settings_`, and like a reference to a section this reference should not be changed!! The reference definition from the rst-document is not included in the `.po` file and can therefore not be changed. This means the reference to figures can not be translated. When HTML is created you will see `figure_heatmap_settings`. When a PDF document is created `figure_heatmap_settings_` is replaced with a figure number.

Az alábbi fordítási elem a következő rst attribútumokkal rendelkező elem:

**\*\*Input Point dialog\*\***: Provides a selection of loaded point vector maps.

Ne távolítsa el a csillagokat a fenti sorból. Ez tartalmazza azt, hogy a megjelenített szöveg félkövér legyen. Maga a szöveg gyakran a párbeszédablak tartalmának szövege és lefordítható az alkalmazásban.



A következő fordítási elem tartalmazza a `:guilabel:` rst jelzést.

```
When the |checkbox| :guilabel:`Advanced` checkbox is checked it will
give access to additional advanced options.
```

A `guilabel` jelzés `Advanced` szövegét le lehet fordítani a QGIS alkalmazásban és lehetőleg meg is kell tenni!

A következő fordítási elem tartalmazza az ``airports``-t. Az idézőjeleket arra használják, hogy megadjanak a szövegnek egy másik betűkészletet. Ebben az esetben ez egy szó szerinti érték, és nem szükséges lefordítani.

```
For the following example, we will use the `airports` vector point
layer from the QGIS sample dataset (see :ref:`label_sampledata`).
Another excellent QGIS tutorial on making heatmaps can be found on
`https://www.qgistutorials.com
<https://www.qgistutorials.com/en/docs/creating_heatmaps.html>`_.
```

This item also includes a hyperlink with an url and an external presentation. The url should of course be left intact, you are allowed to change the external text `https://www.qgistutorials.com` which is visible by the reader. Never remove the underscore at the end of the hyperlink which forms an essential part of it!!

## 4.2.4 Fordítási szabályok összegzése

1. Soha ne változtassa meg a két | karakter közti szöveget, mint pl. a |`bronze`|, |`checkbox`|, |`labels`|, |`selectString`|, |`addLayer`| ... Ezek speciális jelzések, amiket a képek helyettesítésére használnak
2. Do not change references that start with roles like `:ref:`, `:file:`, `:numref:` unless they include a title. In that case, you can translate the title but keep unchanged the link (i.e., the text between `<` and `>`)

**Javaslat:** When a title is provided for a reference, Transifex may display a number in the English source text in replacement of the link part. Click on the number in the source text to add the reference link next to the title being translated.

3. Soha ne változtassa meg a hivatkozásokat, amelyek egy aláhúzással végződnek, mint pl. `figure_labels_1_`
4. Soha ne változtassa meg az URL-t a hiperhivatkozásban, de meg lehet változtatni a külső leírást. Hagyja meg az aláhúzást a hiperhivatkozás végén, további helykitöltők használata nélkül (`>`_``)
5. Változtassa meg az idézőjelbe tett az `:index:`, `:sup:`, `:guilabel:` és `:menuselection:` jelzéseket követő szöveget. Ellenőrizze, ha fordították QGIS alkalmazásban, akkor azt hogyan tették. Soha ne változtassa meg magát a jelzést.
6. A kettőzött csillagok vagy kettőzött idézőjelek között lévő szöveg gyakran értéket vagy mezőnevet jelez, néha van szükség fordításra, néha nem.
7. Legyen körültekintő, hogy pontosan ugyanazokat (mennyiségben is) különleges karaktereket használja, mint ami a forrásszövegben van, mint a ```, ````, `*`, `**`, `:` jelek. Ezek hozzájárulnak a szolgáltatott információk külalakjához.
8. Soha ne kezdjen vagy fejezzen be egy szöveget speciális karakterrel vagy helykitöltővel rendelkező jelzéssel
9. Soha ne fejezze be a lefordított karakterláncokat egy új bekezdéssel, máskülönben a szöveg nem lesz lefordítva a html generálás során.

Tartsa be a fent bemutatott szabályokat és lefordított dokumentum jó lesz!

Bármilyen kérdése van, kérjük lépjen kapcsolatba a QGIS Közösségi Csapattal vagy a QGIS Fordítói Csapattal.



---

## Helyettesítések

---

- *Usage*
- *Common Substitutions*
  - *Platform Icons*
  - *Menu Items*
- *Toolbar Button Icons*
  - *Manage Layers and overview*
  - *File*
  - *Edit*
  - *Identity result*
  - *Digitizing and Advanced Digitizing*
  - *Map Navigation and attributes*
  - *Selection and Expressions*
  - *Labels and Diagrams*
  - *Decorations*
  - *Help*
  - *Colors*
- *Other basic icons*
- *Attribute Table*
- *Projections and Georeferencer*
- *Print Layout*
- *Layer Properties*
- *Modulok*
  - *Feldolgozás*

- *Various Core Plugins*
- *Grass integration*

## 5.1 Usage

To ease the use of icons in QGIS manuals, replacements are defined for each icon in `/source/substitutions.txt` file at [QGIS-Documentation repository](#) and some of these substitutions are listed below. Thus, when you want to use an icon from QGIS application in the documentation there is a big chance that there is already a substitution that can/should be used.

If no replacement exists:

1. check the documentation repository whether the icon is available in `/static/common` folder. If no image, then you need to find and copy the icon image file from [QGIS repository](#) (often under [https://github.com/qgis/QGIS/blob/release-3\\_16/images/themes/default](https://github.com/qgis/QGIS/blob/release-3_16/images/themes/default) folder) and paste (in `.png` format) under `/static/common` folder. For convenience and update, it's advised to keep filename when possible.
2. create the reference to the substitution in the `/source/substitutions.txt` file following the example below. The replacement text should be in camelCase:





```
.. |splitLayer| image:: /static/common/split_layer.png
   :width: 1.5em
```

3. run the `scripts/find_set_subst.py` script to update the substitution definitions in the `rst` files and include the new substitution(s).
4. (optional) add the reference to the icon and its substitution to the list below.







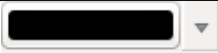





## 5.2 Common Substitutions

Below are given some icons and their substitution to use when writing documentation. Can be used/found in many places in manuals.

### 5.2.1 Platform Icons






















































Icon	Substitution	Icon	Substitution
	logo		
	kde		nix
	osx		win

## 5.2.2 Menu Items






Icon	Substitution	Icon	Substitution
	checkbox		unchecked
	radioButtonOn		radioButtonOff
	selectNumber		selectString
	selectColor		selectColorRamp
	tab		degrees
	inputText		slider

## 5.3 Toolbar Button Icons
























### 5.3.1 Manage Layers and overview

Icon	Substitution	Icon	Substitution
	dataSourceManager		
	addOgrLayer		addDb2Layer
	addRasterLayer		addMssqlLayer
	addDelimitedTextLayer		addSpatialiteLayer
	addPostgisLayer		addOracleLayer
	addAfsLayer		addAmsLayer
	addMeshLayer		
	addVectorTileLayer		addXyzLayer
	addVirtualLayer		addWmsLayer
	addWcsLayer		addWfsLayer
	newVectorLayer		newSpatialiteLayer
	newGeoPackageLayer		createMemory
	newVirtualLayer		
	dbManager		gdal
	geoPackage		spatialite
	virtualLayer		wms
	wcs		wfs
	dbSchema		
	inOverview		addAllToOverview
	removeAllOverview		removeLayer
	showAllLayers		hideAllLayers
	showMapTheme		showSelectedLayers
	hideSelectedLayers		hideDeselectedLayers
	toggleAllLayers		toggleSelectedLayers
	addLayer		
	indicatorTemporal		indicatorNonRemovable
	indicatorEmbedded		indicatorFilter
	indicatorMemory		indicatorNoCRS
	indicatorBadLayer		favourites












### 5.3.2 File

Icon	Substitution	Icon	Substitution
	fileNew		fileOpen
	fileSave		fileSaveAs
	fileExit		







































### 5.3.3 Edit

Icon	Substitution	Icon	Substitution
	undo		redo
	editCopy		editPaste
	editCut		saveEdits
	editableEdits		
	circle2Points		circle2TangentsPoint
	circle3Points		circle3Tangents
	circleCenterPoint		ellipseCenter2Points
	ellipseCenterPoint		ellipseExtent
	ellipseFoci		rectangle3PointsDistance
	rectangle3PointsProjected		rectangleCenter
	rectangleExtent		regularPolygon2Points
	regularPolygonCenterCorner		regularPolygonCenterPoint

### 5.3.4 Identity result

























Icon	Substitution	Icon	Substitution
	expandTree		collapseTree
	expandNewTree		formView
	deselectAll		editCopy
	filePrint		
	identifyByRectangle		identifyByPolygon
	identifyByFreehand		identifyByRadius

### 5.3.5 Digitizing and Advanced Digitizing























Icon	Substitution	Icon	Substitution
	cad		cadConstruction
	cadParallel		cadPerpendicular
	toggleEditing		allEdits
	tracing		snapping
	capturePoint		capturePolygon
	captureLine		deleteSelectedFeatures
	circularStringCurvePoint		circularStringRadius
	vertexTool		vertexToolActiveLayer
	moveFeature		moveFeatureCopy
	moveFeatureLine		moveFeatureCopyLine
	moveFeaturePoint		moveFeatureCopyPoint
	rotateFeature		rotatePointSymbols
	offsetCurve		offsetPointSymbols
	simplifyFeatures		reshape
	addRing		addPart
	fillRing		
	deleteRing		deletePart
	mergeFeatures		mergeFeatAttributes
	splitFeatures		splitParts
	reverseLine		



































### 5.3.6 Map Navigation and attributes

Icon	Substitution	Icon	Substitution
	pan		panToSelected
	zoomIn		zoomOut
	zoomActual		zoomFullExtent
	zoomToLayer		zoomToSelected
	zoomLast		zoomNext
	refresh		
	identify		mapTips
	showBookmarks		newBookmark
	measure		measureArea
	measureAngle		
	newMap		new3DMap
	tiltUp		tiltDown
	3dNavigation		play








### 5.3.7 Selection and Expressions

Icon	Substitution	Icon	Substitution
	selectRectangle		selectPolygon
	selectFreehand		selectRadius
	selectAll		deselectAll
	invertSelection		expressionSelect
	deselectActiveLayer		algorithmSelectLocation
	selectAllTree		select
	formSelect		dataDefined
	expression		dataDefineOn
	dataDefineExpressionOn		dataDefineError
	dataDefineExpressionError		
	addExpression		
	expressionFilter		filterMap






### 5.3.8 Labels and Diagrams

Icon	Substitution	Icon	Substitution
	labeling		labelingNone
	labelingRuleBased		labelingObstacle
	piechart		diagramNone
	text		histogram
	stackedBar		
	annotation		textAnnotation
	formAnnotation		htmlAnnotation
	svgAnnotation		autoPlacement
	labelbackground		labelbuffer
	labelformatting		labelplacement
	labelshadow		render
	labelcallout		
	labelAnchorCenter		labelAnchorCustom
	labelAnchorEnd		labelAnchorStart
	pinLabels		showHideLabels
	moveLabel		rotateLabel
	showPinnedLabels		showUnplacedLabel
	changeLabelProperties		

### 5.3.9 Decorations

Icon	Substitution	Icon	Substitution
	copyrightLabel		addGrid
	titleLabel		northArrow
	scaleBar		addMap
	addImage		
























### 5.3.10 Help

Icon	Substitution	Icon	Substitution
	helpContents		qgisHomePage
	success		
	helpSponsors		contextHelp
























### 5.3.11 Colors

Icon	Substitution	Icon	Substitution
	colorBox		colorPicker
	colorSwatches		colorWheel













## 5.4 Other basic icons

Icon	Substitution	Icon	Substitution
	arrowDown		arrowUp
	signPlus		signMinus
	projectProperties		options
	interfaceCustomization		keyboardShortcuts
	copyrightLabel		northArrow
	scaleBar		tracking
	gpsImporter		gpsTrackBarChart
	folder		extents
	settings		start
	3dconfigure		deleteSelected
	browserExpand		browserCollapse
	codeEditor		










## 5.5 Attribute Table

Icon	Substitution	Icon	Substitution
	openTable		selectedToTop
	selectAll		invertSelection
	panToSelected		zoomToSelected
	copySelected		editPaste
	expressionSelect		deleteSelectedFeatures
	newAttribute		deleteAttribute
	newTableRow		calculateField
	refresh		formView
	conditionalFormatting		multiEdit
	dock		actionRun
	duplicateFeature		
	panTo		highlightFeature

## 5.6 Projections and Georeferencer



















































Icon	Substitution	Icon	Substitution
	geographic		crs
	customProjection		setProjection
	projectionDisabled		projectionEnabled
	transformation		
	georefRun		pencil
	linkQgisToGeoref		linkGeorefToQgis
	fullHistogramStretch		

## 5.7 Print Layout






















































Icon	Substitution	Icon	Substitution
	newLayout		layoutManager
	duplicateLayout		
	newReport		newPage
	atlasSettings		atlas
	filePrint		saveMapAsImage

continues on next page

5.1 – folytatás az előző oldalról


































Icon	Substitution	Icon	Substitution
	saveAsSVG		saveAsPDF
	addBasicShape		addBasicCircle
	addBasicTriangle		addBasicRectangle
	addNodesShape		editNodesShape
	addPolygon		addPolyline
	addArrow		northArrow
	add3DMap		addMap
	addLegend		addHtml
	addManualTable		addTable
	addImage		addMarker
	label		scaleBar
	select		moveItemContent
	setToCanvasScale		setToCanvasExtent
	viewScaleInCanvas		viewExtentInCanvas
	raiseItems		lowerItems
	moveItemsToTop		moveItemsToBottom
	alignLeft		alignRight
	alignHCenter		alignVCenter
	alignTop		alignBottom
	resizeShortest		resizeTallest
	resizeNarrowest		resizeWidest
	resizeSquare		
	lockItems		unlockAll
	locked		unlocked
	lockedRepeat		lockedGray
	groupItems		

## 5.8 Layer Properties

Icon	Substitution	Icon	Substitution
	symbology		labeling
	sourceFields		general
	metadata		action
	display		rendering
	join		diagram
	labelmask		temporal
	legend		dependencies
	3d		system
	editMetadata		overlay
	digitizing		auxiliaryStorage
	history		stylePreset
	search		pyramids
	transparency		rasterHistogram
	singleSymbol		nullSymbol
	graduatedSymbol		categorizedSymbol
	25dSymbol		ruleBasedSymbol
	invertedSymbol		heatmapSymbol
	pointDisplacementSymbol		pointClusterSymbol
	meshContours		meshContourOff
	meshVectors		meshVectorOff
	meshFrame		
	sum		sort
	paintEffects		mapIdentification
	styleManager		iconView
	joinNotEditable		joinedLayerNotEditable
	joinHasNotUpsertOnEdit		filterTableFields
	symbologyEdit		
	sharingImport		sharingExport

















## 5.9 Modulok

### 5.9.1 Feldolgozás






Icon	Substitution	Icon	Substitution
	processing		processingModel
	processingHistory		processingResult
	processSelected		processingHelp
	saveAsPython		processingOutput
	qgsProjectFile		addToProject
	integer		
	mean		layerExtent
	randomSelection		vectorGrid
	convexHull		buffer
	intersect		union
	symDifference		clip
	difference		dissolve
	checkGeometry		exportGeometry
	delaunay		centroids
	toLines		extractNodes
	splitLayer		heatmap
	showRasterCalculator		showMeshCalculator

### 5.9.2 Various Core Plugins

Standard provided with basic install, but not loaded with initial install

Icon	Substitution	Icon	Substitution
	showPluginManager		installPluginFromZip
	pythonFile		runConsole
	showEditorConsole		clearConsole
	offlineEditingCopy		offlineEditingSync
	plugin		interpolation
	gdalScript		metasearch
	geometryChecker		topologyChecker
	fromSelectedFeature		sqlQueryBuilder

### 5.9.3 Grass integration

Icon	Substitution	Icon	Substitution
	grass		grassRegion
	grassTools		grassNewMapset
	grassOpenMapset		grassCloseMapset