



About QGIS 3.44

QGIS Project

cen 06, 2026

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Preamble

Welcome to the documentation of the geographical information system (GIS) software QGIS, an official OSGeo project. QGIS is subject to the GNU General Public License version 2, or any later version. More information is available on the [QGIS website](#).

The contents of this document have been written and verified to the best of the knowledge of the authors and editors. Nevertheless, mistakes are possible.

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This document has been typeset with reStructuredText. It is available as reST source code on [github](#), and online as HTML and PDF via <https://www.qgis.org/resources/hub/#documentation>. Translated versions of this document can be browsed and downloaded via the documentation area of the QGIS project as well.

For more information about contributing to this document and about translation, please read QGIS-documentation-guidelines.

Links in this Document

This document contains internal and external links. Clicking on an internal link moves within the document, while clicking on an external link opens an internet address.

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1.1 What is new in QGIS 3.44

This release of QGIS includes hundreds of bug fixes and many new features and enhancements, compared to QGIS 3.40. For a list of new features, visit the [visual changelogs](#).

We recommend that you use this version over previous releases.

Dobrodošli u čudesni svet geografskih informacionih sistema (GIS)!

QGIS je geografski informacioni sistem otvorenog koda i zvanični projekat Fondacije za geoprostorni pristup otvorenog koda (OSGeo). Projekat je nastao u maju 2002. godine i osnovan je kao projekat na SourceForge-u u junu iste godine. Vredno smo radili kako bismo GIS softver (koji je tradicionalno skup vlasnički softver) učinili dostupnim svima koji imaju pristup ličnom računaru.

QGIS trenutno radi na većini Unix platformi, Windows-u i macOS-u. QGIS je razvijen korišćenjem Qt alata (<https://www.qt.io>) i C++-a. To znači da QGIS deluje brzo i ima prijatan, jednostavan za korišćenje grafički korisnički interfejs (GUI). Postoje i nezavisno kreirane aplikacije koje vam omogućavaju da ponesete QGIS na teren. Ove aplikacije mogu da rade na Android-u i iOS-u.

QGIS ima za cilj da bude GIS jednostavan za korišćenje, pružajući uobičajene funkcije i karakteristike. Prvobitni cilj projekta bio je da se obezbedi pregledač GIS podataka. QGIS je dostigao tačku u svojoj evoluciji gde se koristi za svakodnevne potrebe pregleda GIS podataka, za prikupljanje podataka, za naprednu GIS analizu i za prezentacije u obliku sofisticiranih mapa, atlasa i izveštaja. QGIS podržava mnoštvo rasterskih i vektorskih formata podataka, a podrška za nove formate se lako dodaje pomoću arhitekture dodataka.

QGIS je objavljen pod GNU-ovom opštom javnom licencom (GPL). Razvoj QGIS-a pod ovom licencom znači da možete pregledati i menjati izvorni kod i garantuje da ćete vi, naš zadovoljni korisnik, uvek imati pristup GIS programu koji je besplatan i koji se može slobodno menjati. Trebalo bi da ste dobili kompletnu kopiju licence uz vašu kopiju QGIS-a, a možete je pronaći i u Dodatku *Appendix A: GNU General Public License*.

Савет

Ažurirana dokumentacija

Najnovija verzija ovog dokumenta uvek se može naći u odeljku za dokumentaciju na veb-sajtu QGIS na <https://www.qgis.org/resources/hub/#documentation>.

Ovaj odeljak opisuje jednoobrazne stilove koji će se koristiti kroz ovaj priručnik.

3.1 Konvencije grafičkog interfejsa

Stilovi konvencija grafičkog interfejsa namenjeni su oponašanju izgleda grafičkog interfejsa. Uopšteno, stil će odražavati izgled bez prelaska mišem, tako da korisnik može vizuelno pregledati grafički interfejs da pronade nešto što izgleda kao instrukcija u priručniku.

- Opcije menija: *Sloj ► Dodaj rasterski sloj ili Podešavanja ► Palete alatki ► Digitalizovanje*

- Alatka:  Dodaj rasterski sloj

- Dugme: *Sačuvaj kao podrazumevano*

- Naslov dijaloga: *Svojstva sloja*

- Kartica: *Opšte*

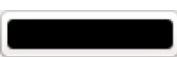
- Polje za potvrdu:  *Iscrtaj*

- Radio dugme:  *Postgis SRID*  *EPSG ID*

- Izaberite broj: 

- Izaberite nisku: 

- Pronađite datoteku: ...

- Izaberite boju: 

- Klizač: 

- Unos teksta: Display name 

Senka označava komponentu grafičkog interfejsa na koju se može kliknuti.

3.2 Konvencije za tekst ili tastaturu

Ovaj priručnik takode uključuje stilove povezane sa tekстом, komandama tastature i kodiranjem radi označavanja različitih entiteta, kao što su klase ili metode. Ovi stilovi ne odgovaraju stvarnom izgledu bilo kog teksta ili kodiranja unutar QGIS-a.

- Hiperlinkovi: <https://qgis.org>
- Kombinacije tastera: Pritisnite `Ctrl+B`, što znači pritisnite i držite taster `Ctrl`, a zatim pritisnite taster `B`.
- Naziv datoteke: `lakes.shp`
- Naziv klase: **NewLayer**
- Metod: `classFactory`
- Server: `myhost.de`
- Korisnički tekst: `qgis --help`

Linije koda označene su fontom fiksne širine:

```
PROJCS["NAD_1927_Albers",
  GEOGCS["GCS_North_American_1927",
```

3.3 Instrukcije specifične za platformu

Sekvence grafičkog interfejsa i male količine teksta mogu se formatirati ugrađeno: Kliknite  *Datoteka*  *QGIS* ► *Izadi* za zatvaranje *QGIS*-a. Ovo označava da na Linux, Unix i Windows platformama prvo treba da kliknete na meni *Datoteka*, zatim *Izadi*, dok na macOS platformama prvo treba da kliknete na meni *QGIS*, zatim *Izadi*.

Veće količine teksta mogu se formatirati kao lista:

-  Uradite ovo
-  Uradite ono
-  Ili uradite ono

ili kao pasusi:

  Uradite ovo i ovo i ovo. Zatim uradite ovo i ovo i ovo, i ovo i ovo i ovo, i ovo i ovo i ovo.

 Uradite ono. Zatim uradite ono i ono i ono, i ono i ono i ono, i ono i ono i ono, i ono i ono.

Snimci ekrana koji se pojavljuju kroz korisnički vodič napravljeni su na različitim platformama.

QGIS nudi mnoštvo GIS funkcija, koje pružaju osnovne karakteristike i dodaci. Lokatorska traka olakšava pretragu funkcija, skupova podataka i još mnogo toga.

A short summary of six general categories of features and plugins is presented below, followed by first insights into the integrated Python console.

4.1 View data

You can view combinations of vector and raster data (in 2D or 3D) in different formats and projections without conversion to an internal or common format. Supported formats include:

- Spatially-enabled tables and views using PostGIS, SpatiaLite and MS SQL Spatial, Oracle Spatial, vector formats supported by the installed OGR library, including GeoPackage, ESRI Shapefile, MapInfo, SDTS, GML and many more. See section `label_workingvector`.
- Raster and imagery formats supported by the installed GDAL (Geospatial Data Abstraction Library) library, such as GeoTIFF, ERDAS IMG, ArcInfo ASCII GRID, JPEG, PNG and many more. See section `working_with_raster`.
- Mesh data (TINs and regular grids are supported). See `label_meshdata`.
- Vector tiles
- GRASS raster and vector data from GRASS databases (location/mapset). See section `sec_grass`.
- Online spatial data served as OGC Web Services, including WMS, WMTS, WCS, WFS, and WFS-T. See section `working_with_ogc`.

The QGIS authentication infrastructure helps you manage user/password, certificates and keys for web services and other resources.

- Spreadsheets (ODS / XLSX)

Temporal data are supported.

4.2 Explore data and compose maps

You can compose maps and interactively explore spatial data with a friendly GUI. The many helpful tools available in the GUI include:

- QGIS browser
- On-the-fly reprojection
- 2D and 3D map rendering
- DB Manager
- Print layout
- Report
- Overview panel
- Spatial bookmarks
- Annotation tools
- Identify/select features
- Edit/view/search attributes
- Data-defined feature labeling
- Data-defined vector and raster symbology tools
- Atlas map composition with graticule layers
- North arrow, scale bar and copyright label for maps
- Support for saving and restoring projects

4.3 Create, edit, manage and export data

You can create, edit, manage and export vector and raster layers in several formats. QGIS offers the following:

- Vector digitizing tools
- Ability to create and edit multiple file formats and GRASS vector layers
- Georeferencer tool to geocode vectors and images
- GPS tools to import and export GPX format, and convert other GPS formats to GPX or down/upload directly to a GPS unit (on Linux, usb: has been added to list of GPS devices)
- Support for visualizing and editing OpenStreetMap data
- Ability to create spatial database tables from files with the DB Manager plugin
- Improved handling of spatial database tables
- Tools for managing vector attribute tables
- Option to save screenshots as georeferenced images
- DXF-Export tool with enhanced capabilities to export styles and plugins to perform CAD-like functions

4.4 Analyze data

You can perform spatial data analysis on spatial databases and other OGR-supported formats. QGIS currently offers vector analysis, raster analysis, sampling, geoprocessing, geometry and database management tools. You can also use the integrated GRASS tools, which include the complete GRASS functionality of more than 400 modules (see section sec_grass). Or, you can work with the Processing plugin, which provides a powerful geospatial analysis framework to call native and third-party algorithms from QGIS, such as GDAL, SAGA, GRASS, OTB, R, and more (see section sec_processing_intro). All analysis functions are run in the background, allowing you to continue your work before the processing has finished.

The graphical modeller allows you to combine / chain functions into a complete workflow in an intuitive graphical environment.

4.5 Publish maps on the Internet

QGIS can be used as a WMS, WMTS, WMS-C, WFS, OAPIF and WFS-T client (see section [working_with_ogc](#)), and QGIS Server (see [QGIS-Server-manual](#)) allows you to publish your data through the WMS, WCS, WFS and OAPIF protocols on the Internet using a webserver.

4.6 Extend QGIS functionality through plugins

QGIS can be adapted to your special needs with the extensible plugin architecture and libraries that can be used to create plugins. You can even create new applications with C++ or Python!

4.6.1 Core Plugins

Core plugins include:

1. DB Manager (exchange, edit and view layers and tables from/to databases; execute SQL queries)
2. Geometry Checker (check geometries for errors)
3. Georeferencer GDAL (add projection information to rasters using GDAL)
4. GPS Tools (load and import GPS data)
5. GRASS (integrate GRASS GIS)
6. MetaSearch Catalogue Client (interacting with metadata catalog services supporting the OGC Catalog Service for the Web (CSW) standard)
7. Offline Editing (allow offline editing and synchronizing with databases)
8. Processing (the spatial data processing framework for QGIS)
9. Topology Checker (find topological errors in vector layers)

4.6.2 External Python Plugins

QGIS offers a growing number of external Python plugins that are provided by the community. These plugins reside in the official Plugins Repository and can be easily installed using the Python Plugin Installer. See [Section managing_plugins](#).

4.7 Python Console

For scripting, it is possible to take advantage of an integrated Python console, which can be opened with: *Plugins ► Python Console*. The console opens as a non-modal utility window. For interaction with the QGIS environment, there is the `qgis.utils iface` variable, which is an instance of `QgisInterface`. This interface provides access to the map canvas, menus, toolbars and other parts of the QGIS application. You can create a script, then drag and drop it into the QGIS window and it will be executed automatically.

For further information about working with the Python console and programming QGIS plugins and applications, please refer to [console](#) and [PyQGIS-Developer-Cookbook](#).

4.8 Known Issues

4.8.1 Number of open files limitation

If you are opening a large QGIS project and you are sure that all layers are valid, but some layers are flagged as bad, you are probably faced with this issue. Linux (and other OSs, likewise) has a limit of opened files by process. Resource limits are per-process and inherited. The `ulimit` command, which is a shell built-in, changes the limits only for the current shell process; the new limit will be inherited by any child processes.

You can see all current `ulimit` info by typing:

```
$ ulimit -aS
```

You can see the current allowed number of opened files per process with the following command on a console:

```
$ ulimit -Sn
```

To change the limits for an **existing session**, you may be able to use something like:

```
$ ulimit -Sn #number_of_allowed_open_files
$ ulimit -Sn
$ qgis
```

Alternatively, you can use the newer `prlimit` utility. More info: <https://man7.org/linux/man-pages/man1/prlimit.1.html>

To fix it forever

On most Linux systems, resource limits are set on login by the `pam_limits` module according to the settings contained in `/etc/security/limits.conf` or `/etc/security/limits.d/*.conf`. You should be able to edit those files if you have root privilege (also via `sudo`), but you will need to log in again before any changes take effect.

More info:

- <https://www.cyberciti.biz/faq/linux-increase-the-maximum-number-of-open-files/>
- <https://linuxaria.com/article/open-files-in-linux>

5.1 Mailing lists

QGIS is under active development and as such it won't always work like you expect it to. The preferred way to get help is by joining the qgis-users mailing list. Your questions will reach a broader audience and answers will benefit others.

5.1.1 QGIS Users

This mailing list is used for discussion about QGIS in general, as well as specific questions regarding its installation and use. You can subscribe to the qgis-users mailing list by visiting the following URL: <https://lists.osgeo.org/mailman/listinfo/qgis-user>

5.1.2 QGIS Developers

If you are a developer facing problems of a more technical nature, you may want to join the qgis-developer mailing list. This list is also a place where people can chime in and collect and discuss QGIS related UX (User Experience) / usability issues. It's here: <https://lists.osgeo.org/mailman/listinfo/qgis-developer>

5.1.3 QGIS Community Team

This list deals with topics like documentation, context help, user guide, web sites, blog, mailing lists, forums, and translation efforts. If you would like to work on the user guide as well, this list is a good starting point to ask your questions. You can subscribe to this list at: <https://lists.osgeo.org/mailman/listinfo/qgis-community-team>

5.1.4 QGIS Translations

This list deals with the translation efforts. If you like to work on the translation of the website, manuals or the graphical user interface (GUI), this list is a good starting point to ask your questions. You can subscribe to this list at: <https://lists.osgeo.org/mailman/listinfo/qgis-tr>

5.1.5 QGIS Project Steering Committee (PSC)

This list is used to discuss Steering Committee issues related to overall management and direction of QGIS. You can subscribe to this list at: <https://lists.osgeo.org/mailman/listinfo/qgis-psc>

5.1.6 QGIS User groups

In order to locally promote QGIS and contribute to its development, some QGIS communities are organized into QGIS User Groups. These groups are places to discuss local topics, organize regional or national user meetings, organize sponsoring of features... The list of current user groups is available at <https://qgis.org/community/groups/>

You are welcome to subscribe to any of the lists. Please remember to contribute to the list by answering questions and sharing your experiences.

5.2 Communication channels

5.2.1 Matrix / IRC

Matrix (<https://matrix.org>) is a project for decentralised chat. QGIS has a room accessible by the #qgis:osgeo.org alias (among others) which bridges to the libera.chat #qgis IRC channel.

To use Matrix:

1. Create an account (at matrix.org is easiest, but if you have an OSGeo account you can also use your OSGeo id as matrix id)
2. Install a client (Elements is easiest, but see [Matrix clients](#) for more), OR point your browser to <https://matrix.to/#/#qgis:osgeo.org>

To use IRC:

1. Install an IRC client
2. Connect to <irc://irc.libera.chat/#qgis> or point your browser to <https://web.libera.chat/?channels=#qgis>

5.2.2 Telegram

There is a vibrant user and community related chat group (english spoken) on the Telegram channel, which you can [join here](#).

To join Telegram from your phone, you need to install the Telegram app, register and join via the link above. There is also a web version (<https://web.telegram.org>) which you can join in the browser (after you have joined telegram via your phone number).

5.3 Commercial support

Commercial support for QGIS is also available. Check the website <https://qgis.org/resources/support/commercial-support/> for more information.

5.4 BugTracker

While the qgis-users mailing list is useful for general 'How do I do XYZ in QGIS?'-type questions, you may wish to notify us about bugs in QGIS. You can submit bug reports using the [QGIS bug tracker](#).

Please bear in mind that your bug may not always enjoy the priority you might hope for (depending on its severity). Some bugs may require significant developer effort to remedy, and the manpower is not always available for this.

Feature requests can be submitted as well using the same ticket system as for bugs. Please make sure to select the type `Feature request`.

If you have found a bug and fixed it yourself, you can submit a Pull Request on the [Github QGIS Project](#).

Read [Bugs, Features and Issues](#) and `submit_patch` for more details.

5.5 Blog

The QGIS community also runs a weblog at <https://planet.qgis.org/>, which has some interesting articles for users and developers. Many other QGIS blogs exist, and you are invited to contribute with your own QGIS blog!

5.6 Dodaci

The website <https://plugins.qgis.org> is the official QGIS plugins web portal. Here, you find a list of all stable and experimental QGIS plugins available via the 'Official QGIS Plugin Repository'.

5.7 Wiki

Lastly, we maintain a WIKI web site at <https://github.com/qgis/QGIS/wiki> where you can find a variety of useful information relating to QGIS development, release plans, links to download sites, message-translation hints and more. Check it out, there are some goodies inside!

QGIS je projekat otvorenog koda u okviru Fondacije za geoprostorne podatke otvorenog koda (OSGeo), koji je razvio tim posvećenih volontera i organizacija. Težimo da budemo gostoljubiva zajednica za ljude svih rasa, veroispovesti, polova i društvenih slojeva. U svakom trenutku možete se [uključiti](#).

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6.2 Prevodioci

QGIS je višejezična aplikacija i kakva god da jeste, objavljuje i dokumentaciju prevedenu na nekoliko jezika. Mnogi drugi jezici se prevode i biće objavljeni čim dostignu razuman procenat prevoda. Ako želite da pomognete u poboljšanju jezika ili zatražite novi, pogledajte [translation_guidelines](#).

Trenutni prevodi su omogućeni zahvaljujući:

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Poljski	Andrzej Świąder, Borys Jurgiel, Ewelina Krawczak, Jakub Bobrowski, Mateusz Łoskot, Michał Kułach, Michał Smoczyk, Milena Nowotarska, Radosław Pasiok, Robert Szczepanek, Tomasz Paul
Portugalski	Alexandre Neto, Duarte Carreira, Giovanni Manghi, João Gaspar, Joana Simões, Leandro Infantini, Nelson Silva, Pedro Palheiro, Pedro Pereira, Ricardo Sena
Portugalski (Brazil)	Arthur Nanni, Felipe Sodré Barros, Leônidas Descovi Filho, Marcelo Soares Souza, Narcélio de Sá Pereira Filho, Sidney Schaberle Goveia
Rumunski	Alex Bădescu, Bogdan Pacurar, Georgiana Ioanovici, Lonut Losifescu-Enescu, Sorin Călinică, Tudor Bărașcu
Ruski	Alexander Bruy, Artem Popov
Španski	Carlos Dávila, Diana Galindo, Edwin Amado, Gabriela Awad, Javier César Aldariz, Mayeul Kauffmann, Fran Raga
Ukrajinski	Alexander Bruy

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Srpski	42.93	Slovački	1.32	Slovenački	2.5
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Version 2, June 1991

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