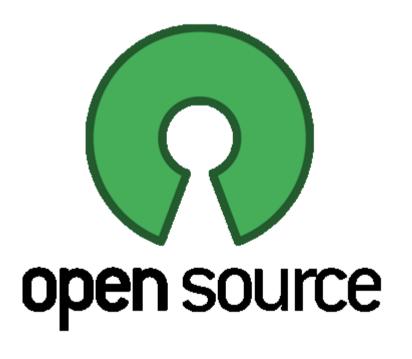


Opensource softwares and tecnology, what's new?



Matteo Gismondi Division of Spatial Information Science Graduate School of Life and Environmental Sciences University of Tsukuba, Japan

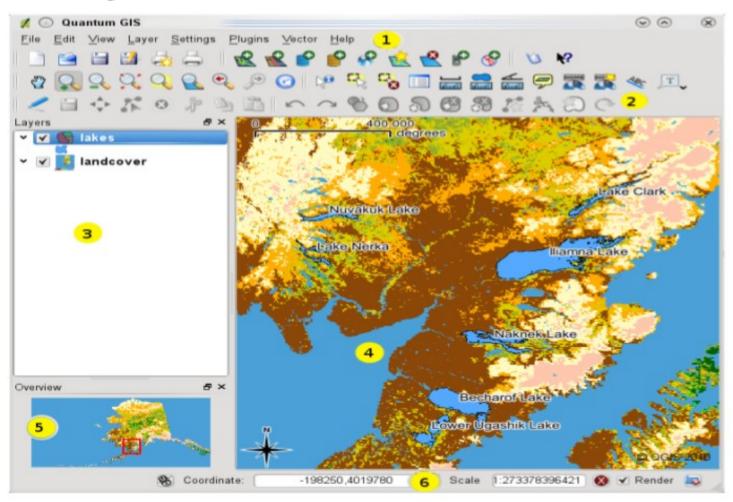
10th February 2011

Main topics

- QGIS
- SAGA GIS
- Opensource softwares



QGIS – Main interface



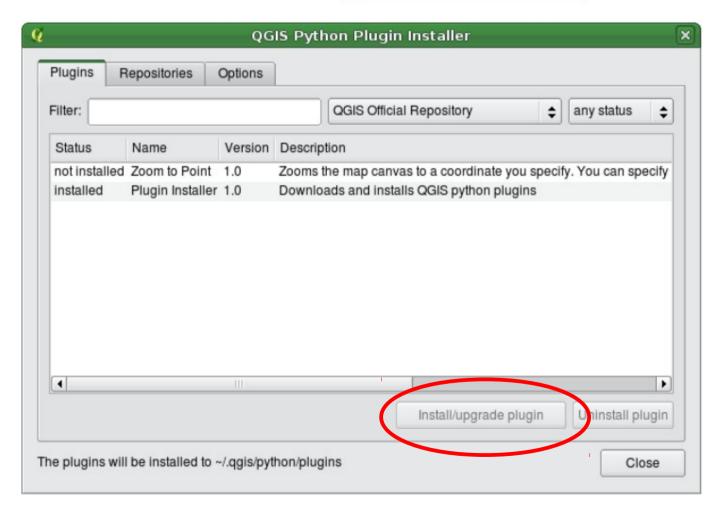
The QGIS GUI is divided into six areas:

- 1. Menu Bar
- 2. Tool Bar
- Map Legend

- Map View
- 5. Map Overview
- 6. Status Bar

QGIS – Plug-in

Plugins Fetch Python Plugins...

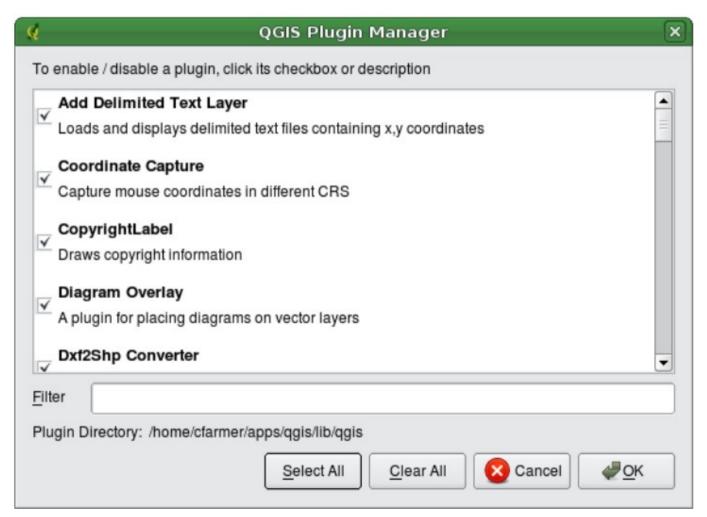


QGIS – Plug-in

Plunins Repositories Options Status Name URL connected Carson Farmer's Repository http://www.ftools.ca/cfarmerQgisRepo.xml connected OGIS Contributed Repository http://pyggis.org/repo/contributed http://www.maths.lancs.ac.uk/~rowlings/Qgis/Plugins/plugir connected Barry Rowlingson's Repository connected CatAIS Repository http://www.catais.org/qgis/plugins.xml connected QGIS Official Repository http://pyqgis.org/repo/official disabled Martin Dobias' Sandbox http://mapserver.sk/~wonder/qgis/plugins-sandbox.xml connected GIS-Lab Repository http://gis-lab.info/programs/qgis/qgis-repo.xml http://build.sourcepole.ch/qqis/plugins.xml connected Sourcepole Repository http://qgisplugins.z-pulley.com connected Aaron Racicot's Repository connected Marco Hugentobler's Repository http://karlinapp.ethz.ch/python_plugins/python_plugins.xml connected Volkan Kepoglu's Repository http://agit.metu.edu.tr/~volkan/plugins.xml 4 (1 Add 3rd party repositories Add... Edit... Delete

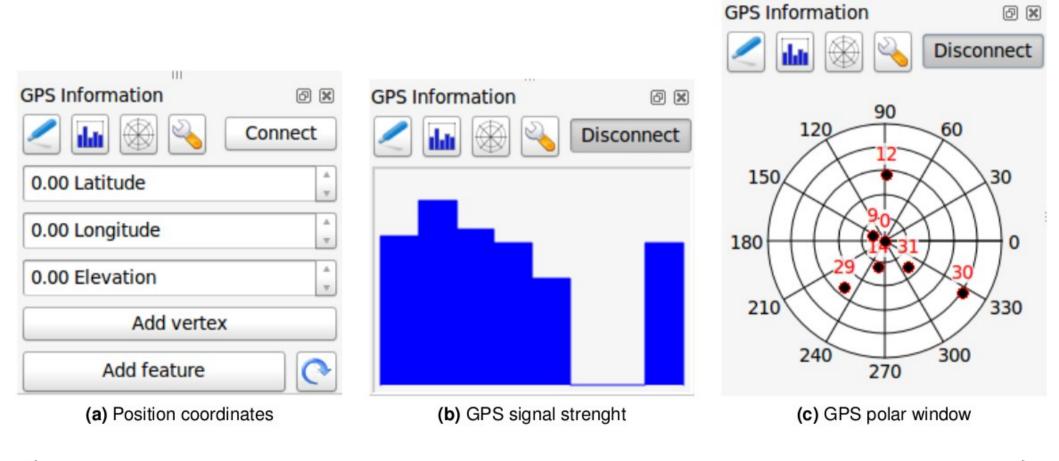
QGIS – Plug-in





QGIS – Live GPS tracking

View → Live GPS tracking





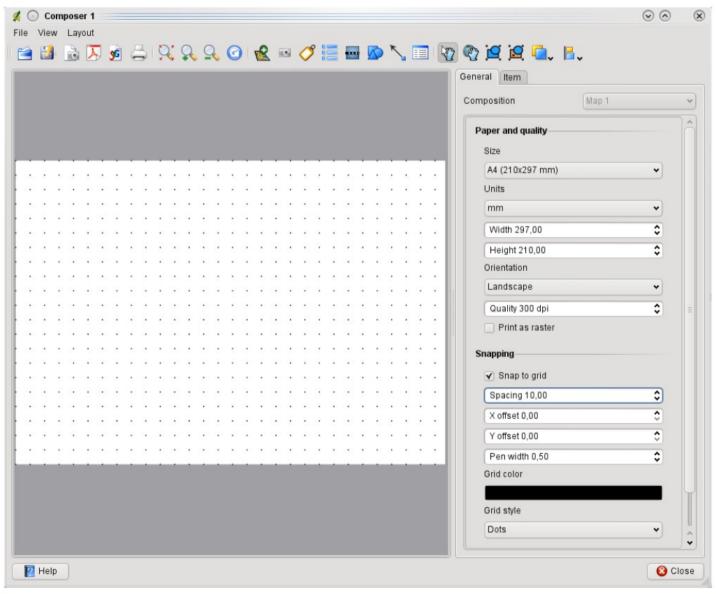
QGIS – Live GPS tracking

Connection button

Type of connection

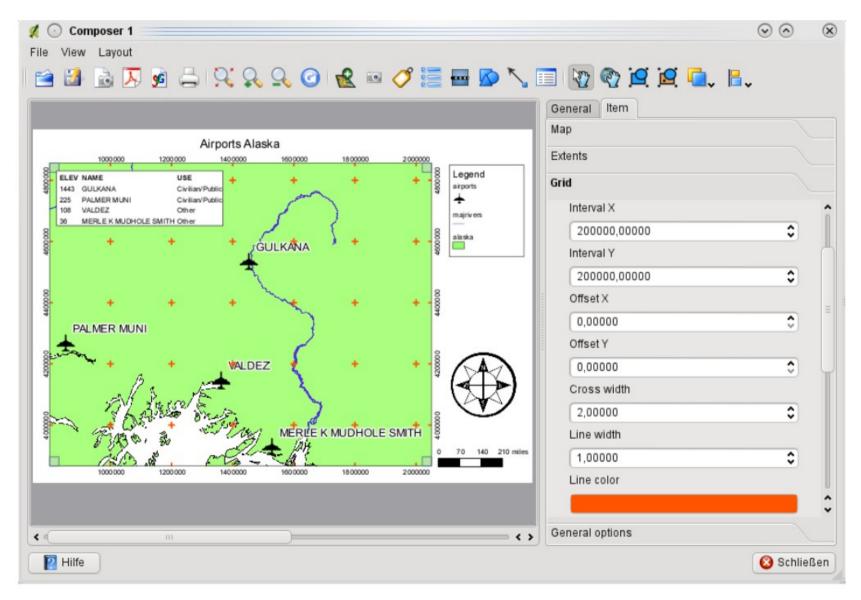
- 1. Automatic
- 2. Select a specific device
- 3. Use a remotely connected device

QGIS – Print composer



Icon	Purpose	Icon	Purpose
	Load from template		Save as template
	Export to an image format	1	Export as PDF
3 G	Export print composition to SVG		Print or export as Postscript
Q.	Zoom to full extend	₽.	Zoom in
2	Zoom out	0	Refresh view
R.	Add new map from QGIS map canvas		Add Image to print composition
0	Add label to print composition		Add new legend to print composition
••••	Add new scalebar to print composition		Add basic shape to print composition
	Add arrow to print composition		Add attribute table to print composition
1	Select/Move item in print composition		Move content within an item
<u>io</u>	Group items of print composition	Ö	Ungroup items of print composition
	Raise selected items		Lower selected items
-	Move selected items to top	-	Move selected items to bottom
	Align selected items left		Align selected items right
	Align selected items center	==	Align selected items center vertical
	Align selected items top		Align selected items bottom

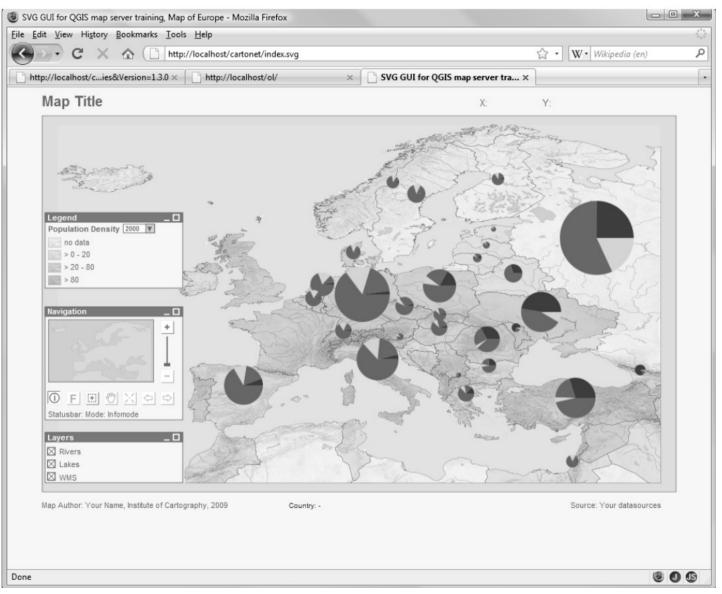
QGIS – Print composer



QGIS – New plug-in

- Gdal tools (raster analysis)
- Geocode
- Google layers
- Open layers plug-in & Openlayers Overview
- Openstreetmap plugi-in

QGIS – Webserver



SAGA GIS



Graphics/Drawing

1. Dia Replaces: Visio Professional (\$559.95)

Like Visio, Dia is great for creating network diagrams, flowcharts, org charts and other simple relational graphics. It can save files in XML format or export to EPS, SVG, XFIG, WMF or PNG files. Operating System: Windows, Linux

2.Gimp Replaces: Photoshop CS5 (\$699)

The "GNU Image Manipulation Program," lets you manipulate photographs much like you can with Photoshop. Features include a full suite of painting tools, sub-pixel sampling, full alpha channel support, layers and channels, advanced tool path, quick mask and much more. For the Windows version, you'll need to download Gimp-win. Operating System: Windows, Linux

3.Inkscape Replaces: Illustrator (\$599), CorelDraw (\$199)

This vector graphics program is powerful enough to meet the needs of professionals with many advanced SVG features (markers, clones, alpha blending, etc.) But it also offers a simple interface that makes it easy for novices to get started creating their own graphics or manipulating the free clip art available through the site. Operating System: Windows, Linux, OS X

4. Paint.Net Replaces: Photoshop (\$699)

PaintNet isn't quite as as powerful as Photoshop and The Gimp, but it's also not as complicated to use. It handles most photo-editing and re-touching tasks easily and supports layers, unlimited undo, special effects and many other features. Operating System: Windows

Office Productivity

1. LibreOffice Replaces: Microsoft Office (\$499)

LibreOffice combines a word processor, spreadsheet, database and a graphics program with all of the features most people need. It also reads and saves in Microsoft Office formats, so no one will ever know you're not using Microsoft software. Operating System: Windows, Linux, OS X

2. Scribus Replaces: InDesign CS5 (\$599), QuarkXPress (\$899)

Most good desktop publishing programs cost a lot—but not Scribus. This app gives you professional-quality page layout features, including CMYK color separations, spot colors, ICC color management, and PDF creation. The interface is easy to use, and you can find a lot of help on the Web site. Operating System: Windows, Linux, OS X

3.NeoOffice Replaces: Microsoft Office (\$499)

The NeoOffice team took OpenOffice.org and customized it for the Mac. As a result, it's faster and more stable and includes features like native OS X text highlighting. It's also available in mobile versions for the iPad, iPod, and iPhone. Operating System: OS X, iOS

Operating System

1. Red Hat Replaces: Windows 7 Professional (\$299.99)

Designed primarily for enterprise users, Red Hat aims to give IT administrators maximum flexibility. One-year subscriptions with basic support start at \$80 for the desktop version, or try Fedora for a nearly identical non-supported, free version.

2. SUSE Replaces: Windows 7 Professional (\$299.99)

Like Red Hat, Novel makes SUSE primarily for enterprise customers, with support licenses starting at \$50 for the basic desktop version. But you can get a similar program for free (without the support) from openSUSE.

3. Ubuntu Replaces: Windows 7 Professional (\$299.99)

One of the most user-friendly Linux variants, Ubuntu is particularly popular with home desktop users and netbook owners. The latest version offers new mobile syncing, communication and social networking features that suit the way people use their computers today.

4.Debian Replaces: Windows 7 Professional (\$299.99)

Debian and Ubuntu are fairly similar; however, Debian has the reputation of catering to people who are more knowledgeable about Linux. It's supported by an active community, and it gives users a lot of control and flexibility.

PDF Tools

1.PDFCreator Replaces: Adobe Acrobat Standard (\$299)

Speech Recognition

1. Simon Replaces: Dragon Naturally Speaking Premium (\$199.99)

Video Tools

- 1. Blender Replaces: AutoDesk Maya (\$3,495)
- 2. Cinelerra Replaces: Adobe Premiere Pro CS5 (\$799)
- 3. OpenShot Video Editor Replaces: Adobe Premiere Pro CS5 (\$799)
- 4. Kdenlive Replaces: Adobe Premiere Pro CS5 (\$799)
- 5. CineFX Replaces: Adobe Premiere Pro CS5 (\$799)
- 6. Avidemux Replaces: Adobe Premiere Pro CS5 (\$799)

Web Site Authoring

- 1. Kompozer Replaces: Adobe Dreamweaver (\$399), Microsoft Expression Web (\$149)
- 2. NVU Replaces: Adobe Dreamweaver (\$399), Microsoft Expression Web (\$149)
- 3. Bluefish Replaces: Adobe Dreamweaver (\$399), Microsoft Expression Web (\$149)
- 4. SeaMonkey Replaces: Adobe Dreamweaver (\$399), Microsoft Expression Web (\$149)



Thank you for your attention

QGIS website

http://www.qgis.org/index.php

Tutorial: "Development of Web GIS and Web Mapping Applications with QGIS mapserver" http://karlinapp.ethz.ch/qgis_wms/giscience2010/

SAGA GIS website

http://www.saga-gis.org/en/index.html

