First steps with QGIS

This short tutorial has the objective to follow you during the installation, update and the configuration of QGIS:

- How to install QGIS under Windows
- How to update QGIS under Windows
- How to install and update QGIS under Linux
- How to configure QGIS Plugins

Tutorial created by Matteo Gismondi

Open a web browser and insert the following address: http://www.qgis.org/index.php

Press over download as showed on the picture

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The Quantum GIS project st regular basis. The first QGIS Horst Düster from the Canto	arts to publish short reports about QGIS usage on a Case Study was contributed in May 2009 by Dr. n of Solothurn in Switzerland.	untum In 1.4.0 "Ence	GIS eladus"	
Main Menu	Welcome to the Quantum GIS Project			
 » <u>Home</u> » About QGIS » Community » Documentation » <u>Download</u> » Commercial Support » Developer Meetings » User Meetings » Sponsorship 	The 3. QGIS Developer Meeting is in preparation to take plac March 2010. We're always searching for Sponsors! You can d Information about the upcoming Hackfest are at th Quantum GIS (QGIS) is a user friendly Open Source Geographic Informat General Public License. QGIS is an official project of the Open Source Geo Linux, Unix, Mac OSX, and Windows and supports numerous vector, rast	ce in Pisa, Italy from lo some sponsoring here he Information Page tion System (GIS) licensed cospatial Foundation (OSC ere and database formats	18th to 22nd el el d under the GNU Geo). It runs on and functionalities	
 » Advanced Search Support QGIS! 	Quantum GIS provides a continously growing number of capabilities prov visualize, manage, edit, analyse data, and compose printable maps. Get a a more detailed feature list.	rided by core functions an first impression with som	ad plugins. You can e screenshots and	
Make A Donation	Guantum GIS is a volunteer driven project, we weicome contributions fro fixes, bug reports, contributed documentation, advocacy and supporting	other users on our mailin	g lists and the	

Select Current Version

The Quantum GIS project starts to publish short reports about QGIS usage on a regular basis. The first QGIS Case Study was contributed in May 2009 by Dr. Horst Düster from the Canton of Solothurn in Switzerland.

Main Menu

Download

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- » Developer Meetings

Quantum GIS is open source software available under the terms of the GNU General Public License. Source code tarballs, long term support (LTS) and current ready-to-install binary packages and external plugins are available for many supported platforms.

For testing and learning purpose, we also provide a **sample dataset**, which contains collections of data from different sources and in different formats, like GPS data, a small GRASS location, GeoTiff, ERDAS Img, Shape or GML formats. Please select from the download menu on the left.

Quantum GIS

"Enceladus"

Current v rsion

Contains the latest features, but may not be bug-free.

Long term support (LTS) version

Our long term support version with non-changing user interface and API.

In the table look for the Nightly Trunk Builds, they are most of the time stable and you will have always the latest update

🥥 🚽 Main Menu

Current packages

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Irunk

The **current release series** are provided to offer users a chance to try out new features as they make their way into the code base. We will not support these releases over a long term and they are aimed more for those who value new features over stability. We use the term 'stability here in the sense of 'not changing a lot' rather than 'not crashing' - in general our current releases are continually improving in terms of reliability and application robustness. The current development version is **QGIS 1.4.0 'Enceladus'** (find out about the name here) and was released on 10 January 2010. We offer Ready-to-Run software packages (.exe, .dmg, .deb, .rpm) for many platforms listed in the table below. If your OS is missing from the list below, please check again soon - we add new packages as they become available.

Show 10 V	entries	Search:
Version 🔻	Platform	Package & Comment
		Download: <u>http://trac.osgeo.org/osgeo4w/</u> , Package qgis-dev in 'Advanced Installation'
	Windows	This is also a MSVC based build of QCK. It's build automatically from QGIS trunk each night (1am, MEST) and uploaded into the OSGeo4W repository.
Trunk Builds	OSGeo4W	This is not a supported build. At any given time it may not work, or may do bad things to your data. It is provided for early adopters and testers to check if bugs have been resolved and that no new bugs have been introduced. Use as your own risk.

You will be redirected on the OSGeo4W website where you will be able to download the installer for windows.

Click over OSGeo4W Istaller and save the file on your pc.

Quick Start for OSGeo4W Users

Note: Step 2 must be run on a computer with internet access as the installer downloads individual packages as needed. You may also need to enable your software firewall to allow the installer to have outbound access.

- Download the
 ⇒ OSGeo4W Installer.
- 2. Run the installer.
- 3. Select Express Install, and Next.
- 4. Pick one or more packages to install, and Next.
- 5. The selected packages and their required subpackages will be downloaded and installed automatically.

Double click over the installer osgeo4w-setup.exe Select Advanced Install then Next



Choose the first option \rightarrow Install from internet \rightarrow Then next

 OSGeo4W Setup - Choose Installation Type 	_ D X
Choose A Download Source Choose whether to install or download from the internet, or install from files in a local directory.	8
 Install from Internet (downloaded files will be kept for future re-use) Download Without Installing Install from Local Directory 	
< Back Next	Cancel

Here you can decide your root directory, you can change it or leave it how it is and just press Next

 OSGeo4W Setup - Cl 	oose Installation [Directory _ 🗆 🗙
Select Root Install Directory Select the directory where you w few installation parameters.	vant to install OSGeo4W,Als	o choose a
Root Directory		
C:\OSGeo4W		Browse
Install For		
All Users (RECOMMENDED)		
OSGeo4W will be available to a of the system.	users	
O Just Me		
OSGeo4W will only be available current user. Only select this i lack Admin, privileges or you ha specific needs.	to the you ve	
	< <u>B</u> ack	Next > Cancel

Here you can choose where your packages will be downloaded, you can change the directory or leave your default directory and just press Next

 OSGeo4W Setup - Select Local Package Director 	ry _ 🗆 🗙
Select Local Package Directory Select a directory where you want Setup to store the installation files it downloads. The directory will be created if it does not already exist.	<u> </u>
	Province
< Back Next >	Cancel

Usually Direct Connection will be your choice \rightarrow Then Next

 OSGeo4W Setup - Select Connection Type 	_ D X
Select Your Internet Connection Setup needs to know how you want it to connect to the internet. Choose the appropriate settings below.	<u> </u>
 Direct Connection Use IE5 Settings Use HTTP/FTP Proxy: 	
Proxy Host Port 80	
< Back Next >	Cancel

Here we can select what to install:

We select the Desktop among the categories.

In this case we choose GRASS and QGIS unstable to make appear the version to install just click over the \bigcirc making sure that the version number appears.

In our example Grass is version 6.4.0svn-5 and QGIS is $1.4.0-1 \rightarrow$ Then Next

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	🚯 Skip	n/a	n/a	?	qgis-dev: Quantum GIS nig
	🚯 Skip	nja	n/a	?	qgis-full: Quantum GIS full
	1.4.0-1	\times	n/a	9,662k	qgis-unstable: Quantum GI
	🚯 Skip	n/a	nja	?	udig: User-friendly Desktpp
↓	•) I

The installation is finished \rightarrow Click Finish



How to update QGIS under Windows

Every sometimes you might want to update QGIS, you have 2 choices:

1. Delete the program and reinstall it

2. Click again over the installer fallow all the steps of the installation and once arrived at this point you will want to click if until **update** will appear, if update does not appear it means that you will already have the latest version. Press Next and conclude the update.

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How to install and update QGIS under Linux

In our example we will use Ubuntu Linux. All the following commands will be run in a terminal You will find the terminal in Applications \rightarrow Accessories \rightarrow Terminal

The installation is very simple: 1. Add the GIS repository (copy-paste in the terminal) *sudo add-apt-repository ppa:ubuntugis/ubuntugis-unstable* 2. Install QGIS and GRASS (copy-paste in the terminal) *Sudo apt-get install qgis grass*

To update simply run (copy-paste in the terminal) sudo apt-get update && sudo apt-get upgrade

N.B. Once you write the command in the terminal press Enter and insert you password then once more enter

How to configure QGIS Plugins

 Once QGIS is started go to: Plugins → Manage Plugin From here you can add the installed plugins to QGIS.
 Be sure that the Plugin installer is checked
 To install additional Plugins go to
 Plugins →Fetch Python Plugins
 From here you will be able to install, delete and update

	Q	GIS Python Plugin Inst	taller
Plugins Repo	ositories Options		
Filter:		all repositories	✓ any status
Status	Name	Version	Description
upgradeable	Statist	0.2.4 -> 0.2.5	Calculate and show statistics for a f
not installed	Shaded Relief	2.1	produces a shaded relief map from a sele
not installed	Composer plugin	0.01	Test plugin to access print composer fron
not installed	Export To MySQL	0.1.2	Quantum GIS plugin to export its geomet
not installed	OGR 2 Layers	0.2	A plugin to export OGR layers to OpenLay
not installed	MultiQml	0.3.9	Applying a one qml style to many rasters
not installed	Arpat	0.3.1	Survey identification. Licenced under GNI
not installed	Point sampling tool	0.2.2	Collects polygon attributes and raster va
not installed	Image show or hide	0.2	Show or hide image from vector layer wi
<			>
			Install/upgrade plugin Uninstall plugir
Help	The pluging will be installed to	~/ gais/python/plugins	Close