

Install Qt 5 on Ubuntu

From Qt Wiki

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Introduction

This is a tutorial for installation of Qt 5.7.0 to Ubuntu 12.10. It may be used also for newer versions of Qt and Ubuntu. A difference for OpenGL has been found and added as a note below.

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Installation Guide

▪ Download

Visit Qt downloads page and download a 32-bit or 64-bit Linux installation (<https://www.qt.io/download-open-source/#section-2>) depending your version of Ubuntu. The installation file can be also downloaded through the command line using wget.

Example:

```
wget http://download.qt.io/official_releases/qt/5.7/5.7.0/qt-opensource-linux-x64-5.7.0.run
```

▪ Install

Adjust permission, run the installer and follow the instruction to complete the installation.

```
chmod +x qt-opensource-linux-x64-5.7.0.run  
./qt-opensource-linux-x64-5.7.0.run
```

▪ Install g++

Open a terminal and execute the following command to install g++:

```
sudo apt-get install build-essential
```

▪ Install generic font configuration library - runtime

Open a terminal and execute the following command to install the full runtime files for the generic font configuration library:

```
sudo apt-get install libfontconfig1
```

Configure a compiler

Launch **Qt Creator**. Go to **Tools > Options**. Click **Build & Run** and select tab **Kit**. Configure a compiler if it is not automatically detected.

▪ Install OpenGL libraries

Execute the following command to install OpenGL libraries:

```
sudo apt-get install mesa-common-dev
```

Note: Just installing the above-mentioned mesa-common-dev kit is not sufficient for more recent Ubuntu versions. Based on a comment in the Qt forum^[1] an additional package needs installation. Execute following command:

```
sudo apt-get install libglu1-mesa-dev -y
```

Tested with Qt5.3.1 and Ubuntu 14.04 and it solved the problem with missing -lGL.

▪ Set file association with pro files

When installing from the on-line source the file association is not done automatically. It also not show up when you try to associate it with file explorer. Create a file named "Qt-Creator.desktop" and fill the file with the following.

```
[Desktop Entry]
Version=1.0
Encoding=UTF-8
Type=Application
Name=QtCreator
Comment=QtCreator
NoDisplay=true
Exec=(Install folder of QT)/Tools/QtCreator/bin/qtcreator %f
Icon=(Install folder of QT)/5.4/Src/qtdoc/doc/images/landing/icon_QtCreator_78x78px.png
Name[en_US]=Qt-Creator
```

Place this file in home `.local/share/applications` .

Edit a file named “`defaults.list`” in the same directory . Add the following line.

```
text/qtcreator=Qt-Creator.desktop;
```

open file `mimeapps.list` and check if the following line is present.

```
application/vnd.nokia.qt.qmakeprofile=qtcreator.desktop
```

if not add it under [added Associations].

Run the following command.

```
sudo update-mime-database /usr/share/mime
```

now Qt has been added to the list of file associations.

Troubleshooting

▪ Qt Creator needs a compiler set up to build

Follow the instruction from the previous section to configure compiler for Qt Creator.

▪ error: g++: Command not found

Solution:

```
sudo apt-get install build-essential
```

▪ error: GL/gl.h: No such file or directory

Solution:

```
sudo apt-get install mesa-common-dev
```

References

1. ↑ Qt 5.5.0 problem running examples [SOLVED] (<https://forum.qt.io/topic/59062/qt-5-5-0-problem-running-examples-solved/2>). 2015-09-22. Archived (<https://web.archive.org/web/20160801041947/https://forum.qt.io/topic>

/59062/qt-5-5-0-problem-running-examples-solved) from the original on 2016-08-01. Retrieved 2016-08-01.

Execute the following command to install OpenGL libraries: `sudo apt-get install mesa-common-dev` Note: Just installing the above-mentioned mesa-common-dev kit is not sufficient for more recent Ubuntu versions. Based on this comment in the forum an additional package needs installation. Execute following command: `sudo apt-get install libglu1-mesa-dev -y` Tested with Qt5.3.1 and Ubuntu 14.04 and it solved the problem with missing -lGL.

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