

QWT Installation & Usage

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Qwt User's Guide 6.1.3

Main Page

Classes

Qwt User's Guide

Qwt - Qt Widgets for Technical Applications

Classes

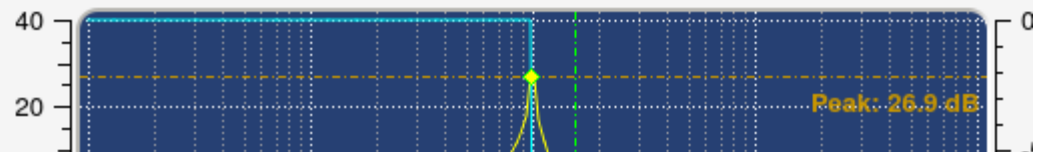
Qwt - Qt Widgets for Technical Applications

The Qwt library contains GUI Components and utility classes which are primarily useful for programs with a technical background. Beside a framework for 2D plots it provides scales, sliders, dials, compasses, thermometers, wheels and knobs to control or display values, arrays, or ranges of type double.

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Frequency Response of a Second-Order System



Downloads

Stable releases or prereleases are available at the [Qwt project page](#).

For getting a snapshot with all bugfixes for the latest 5.2 release:

```
svn export svn://svn.code.sf.net/p/qwt/code/branches/qwt-5.2
```

For getting a snapshot with all bugfixes for the latest 6.1 release:

```
svn export svn://svn.code.sf.net/p/qwt/code/branches/qwt-6.1
```

For getting a development snapshot from the SVN repository:

```
svn export svn://svn.code.sf.net/p/qwt/code/trunk/qwt
```

Installation

Qwt doesn't distribute binary packages, but today all major Linux distributors offer one. Note, that these packages often don't include the examples.

When no binary packages are available (f.e. on Windows) Qwt needs to be **compiled and installed** on the target system.

Support

- Mailing list



qwt


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 qwt-beta	2013-01-25		3 
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












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 6.1.2	2014-12-11		58 
 6.1.1	2014-10-09		4 
 6.1.0	2014-10-09		31 
 6.0.2	2014-10-09		7 
 6.0.1	2014-10-09		26 
 6.0.0	2014-10-09		2 
 5.2.3	2014-10-09		35 
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qwt-6.1.2.zip	2014-12-11	5.3 MB	26 
qwt-6.1.2.pdf	2014-12-11	2.6 MB	9 
qwt-6.1.2.qch	2014-12-11	4.6 MB	
Totals: 4 Items		16.1 MB	


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https://sourceforge.net/projects/qwt/files/qwt/6.1.2/

Opening qwt-6.1.2.tar.bz2

You have chosen to open:

 **qwt-6.1.2.tar.bz2**
which is: Bzip archive (3.4 MB)
from: https://jaist.dl.sourceforge.net

What should Firefox do with this file?

☒ **Open with** Archive Manager (default) 

☐ **Save File**

☐ Do this automatically for files like this from now on.

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OPEN

```
rc Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/gst_proj$ cd ~/sw
sdr@sdr-Samsung-DeskTop-System:~/sw$ ls
iso  opencv  sdk  vmware
sdr@sdr-Samsung-DeskTop-System:~/sw$ mkdir qwt
sdr@sdr-Samsung-DeskTop-System:~/sw$ cd qwt
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt$ ls
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt$ mv ~/Downloads/qwt-6.1.2.tar.bz2 ./
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt$ ls
qwt-6.1.2.tar.bz2
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt$ tar jxvf qwt-6.1.2.tar.bz2
```



```
Terminal File Edit View Search Terminal Help
qwt-6.1.2/examples/stockchart/plot.cpp
qwt-6.1.2/examples/stockchart/legend.cpp
qwt-6.1.2/examples/stockchart/plot.h
qwt-6.1.2/examples/stockchart/main.cpp
qwt-6.1.2/examples/sinusplot/
qwt-6.1.2/examples/sinusplot/sinusplot.pro
qwt-6.1.2/examples/sinusplot/sinusplot.cpp
qwt-6.1.2/INSTALL
qwt-6.1.2/CHANGES-6.1
qwt-6.1.2/README
qwt-6.1.2/qwt.pro
qwt-6.1.2/qwt.prf
qwt-6.1.2/designer/
qwt-6.1.2/designer/qwt_designer_plotdialog.cpp
qwt-6.1.2/designer/qwt_designer_plugin.qrc
qwt-6.1.2/designer/qwt_designer_plugin.cpp
qwt-6.1.2/designer/qwt_designer_plotdialog.h
qwt-6.1.2/designer/designer.pro
qwt-6.1.2/designer/qwt_designer_plugin.h
qwt-6.1.2/designer/pixmaps/
qwt-6.1.2/designer/pixmaps/qwtplot.png
qwt-6.1.2/designer/pixmaps/qwtcompass.png
qwt-6.1.2/designer/pixmaps/qwtthermo.png
qwt-6.1.2/designer/pixmaps/qwtknob.png
qwt-6.1.2/designer/pixmaps/qwtwidget.png
qwt-6.1.2/designer/pixmaps/qwtdial.png
qwt-6.1.2/designer/pixmaps/qwtanalogclock.png
qwt-6.1.2/designer/pixmaps/qwtcounter.png
qwt-6.1.2/designer/pixmaps/qwtscale.png
qwt-6.1.2/designer/pixmaps/qwtslider.png
qwt-6.1.2/designer/pixmaps/qwtwheel.png
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt$ ls
qwt-6.1.2  qwt-6.1.2.tar.bz2
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt$ cd qwt-6.1.2/
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ ls
CHANGES-6.1  doc          playground  qwtfunctions.pri  README
COPYING       examples    qwtbuild.pri  qwt.prf           src
designer       INSTALL     qwtconfig.pri  qwt.pro           textengines
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$
```

```
Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ ls
CHANGES-6.1  doc      playground  qwtfunctions.pri  README
COPYING       examples qwtbuild.pri qwt.prf           src
designer       INSTALL  qwtconfig.pri qwt.pro          textengines
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ qmake qwt.pro
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ ls
CHANGES-6.1  doc      Makefile     qwtconfig.pri    qwt.pro  textengines
COPYING       examples playground  qwtfunctions.pri README
designer       INSTALL  qwtbuild.pri qwt.prf          src
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$
```

```
Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ ls
CHANGES-6.1  doc      playground  qwtfunctions.pri  README
COPYING       examples qwtbuild.pri  qwt.prf           src
designer       INSTALL  qwtconfig.pri qwt.pro           textengines
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ qmake qwt.pro
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ ls
CHANGES-6.1  doc      Makefile      qwtconfig.pri      qwt.pro  textengines
COPYING       examples playground  qwtfunctions.pri  README
designer       INSTALL  qwtbuild.pri  qwt.prf           src
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.2$ make
cd src/ && ( test -e Makefile || /usr/lib/x86_64-linux-gnu/qt5/bin/qmake /home/sdr/sw/qwt/qwt-6.1.2/src/src.pro -o Makefile ) && make -f Makefile
gmake[1]: Entering directory '/home/sdr/sw/qwt/qwt-6.1.2/src'
compiling qwt_abstract_scale_draw.cpp
compiling qwt_clipper.cpp
compiling qwt_color_map.cpp
compiling qwt_column_symbol.cpp
compiling qwt_date.cpp
compiling qwt_date_scale_draw.cpp
compiling qwt_date_scale_engine.cpp
compiling qwt_dyngrid_layout.cpp
compiling qwt_event_pattern.cpp
compiling qwt_graphic.cpp
compiling qwt_interval.cpp
compiling qwt_interval_symbol.cpp
```

아마 여기서 오류가 날 것임

```
Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ vi /etc/apt/sources.list
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ cp /etc/apt/sources.list /et
c/apt/bak_sources.list
cp: cannot create regular file '/etc/apt/bak_sources.list': Permission denied
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ sudo cp /etc/apt/sources.lis
t /etc/apt/bak_sources.list
[sudo] password for sdr:
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ sudo vi /etc/apt/sources.lis
t
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ sudo apt-get update
Hit:1 http://ppa.launchpad.net/maarten-baert/simplescreenrecorder/ubuntu xenial InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [107 kB]
Get:3 http://kaist.archive.ubuntu.com/ubuntu xenial InRelease [247 kB]
Hit:4 http://deb.playonlinux.com precise InRelease
Hit:5 http://ppa.launchpad.net/soylent-tv/screenstudio/ubuntu xenial InRelease
Get:6 http://kaist.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:7 http://kaist.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Get:8 http://kaist.archive.ubuntu.com/ubuntu xenial/main amd64 Packages [1,201 kB]
Get:9 http://kaist.archive.ubuntu.com/ubuntu xenial/main i386 Packages [1,196 kB]
Get:10 http://kaist.archive.ubuntu.com/ubuntu xenial/main Translation-en [568 kB]
Get:11 http://kaist.archive.ubuntu.com/ubuntu xenial/main amd64 DEP-11 Metadata [733 kB]
Get:12 http://kaist.archive.ubuntu.com/ubuntu xenial/main DEP-11 64x64 Icons [409 kB]
Get:13 http://kaist.archive.ubuntu.com/ubuntu xenial/restricted amd64 Packages [8,344 B]
Get:14 http://kaist.archive.ubuntu.com/ubuntu xenial/restricted i386 Packages [8,684 B]
Get:15 http://kaist.archive.ubuntu.com/ubuntu xenial/restricted Translation-en [2,908 B]
Get:16 http://kaist.archive.ubuntu.com/ubuntu xenial/restricted amd64 DEP-11 Metadata [186
B]
Get:17 http://kaist.archive.ubuntu.com/ubuntu xenial/universe amd64 Packages [7,532 kB]
32% [17 Packages 4,454 kB/7,532 kB 59%] 467 kB/s 1min 7s
```

경우에 따라 /etc/apt/sources.list 수정

ted, 0 to remove and 240 not upgraded.

```
Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ sudo apt-get install libqwt-
dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libqwt-headers libqwt6abi1
The following NEW packages will be installed:
  libqwt-dev libqwt-headers libqwt6abi1
0 upgraded, 3 newly installed, 0 to remove and 240 not upgraded.
Need to get 510 kB of archives.
After this operation, 2,067 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

```

Terminal File Edit View Search Terminal Help
97 alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal || echo error)
   " "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[\;&]\s*alert$//'\'' )"'
98
99 # Alias definitions.
100 # You may want to put all your additions into a separate file like
101 # ~/.bash_aliases, instead of adding them here directly.
102 # See /usr/share/doc/bash-doc/examples in the bash-doc package.
103
104 if [ -f ~/.bash_aliases ]; then
105     . ~/.bash_aliases
106 fi
107
108 # enable programmable completion features (you don't need to enable
109 # this, if it's already enabled in /etc/bash.bashrc and /etc/profile
110 # sources /etc/bash.bashrc).
111 if ! shopt -oq posix; then
112     if [ -f /usr/share/bash-completion/bash_completion ]; then
113         . /usr/share/bash-completion/bash_completion
114     elif [ -f /etc/bash_completion ]; then
115         . /etc/bash_completion
116     fi
117 fi
118
119 # Enable Vivado 2015 & Petalinux 2015
120 #source /home/sdr/petalinux_zynq/petalinux-v2015.4-final/settings.sh
121 #source /opt/Xilinx/Vivado/2015.4/settings64.sh
122
123 # Enable Vivado 2017 & Petalinux 2017
124 source /opt/Xilinx/Vivado/2017.4/settings64.sh
125 source /opt/pkg/petalinux/settings.sh
126
127 # Enable QT5 QWT6
128 QT_PLUGIN_PATH="${QWT_ROOT}/plugins:$QT_PLUGIN_PATH"
129
130 export QT_PLUGIN_PATH
-- INSERT --

```

```
Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ sudo apt-get install qttools
5-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  qttools5-dev
0 upgraded, 1 newly installed, 0 to remove and 240 not upgraded.
Need to get 188 kB of archives.
After this operation, 1,656 kB of additional disk space will be used.
Get:1 http://kaist.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 qttools5-dev amd
64 5.5.1-3ubuntu0.1 [188 kB]
Fetched 188 kB in 1s (104 kB/s)
Selecting previously unselected package qttools5-dev:amd64.
(Reading database ... 252429 files and directories currently installed.)
Preparing to unpack .../qttools5-dev_5.5.1-3ubuntu0.1_amd64.deb ...
Unpacking qttools5-dev:amd64 (5.5.1-3ubuntu0.1) ...
Setting up qttools5-dev:amd64 (5.5.1-3ubuntu0.1) ...
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$
```


cannot find file: qwt.pro.

sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.3\$ qmake qwt.pro

sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.3\$ make

cd src/ && (test -e Makefile || /usr/lib/x86_64-linux-gnu/qt5/bin/qmake /home/sdr/sw/qwt/qwt-6.1.3/src/src.pro -o Makefile) && make -f Makefile

make[1]: Entering directory '/home/sdr/sw/qwt/qwt-6.1.3/src'

make[1]: Nothing to be done for 'first'.

make[1]: Leaving directory '/home/sdr/sw/qwt/qwt-6.1.3/src'

cd textengines/ && (test -e Makefile || /usr/lib/x86_64-linux-gnu/qt5/bin/qmake /home/sdr/sw/qwt/qwt-6.1.3/textengines/textengines.pro -o Makefile) && make -f Makefile

make[1]: Entering directory '/home/sdr/sw/qwt/qwt-6.1.3/textengines'

make[1]: Nothing to be done for 'first'.

make[1]: Leaving directory '/home/sdr/sw/qwt/qwt-6.1.3/textengines'

cd doc/ && (test -e Makefile || /usr/lib/x86_64-linux-gnu/qt5/bin/qmake /home/sdr/sw/qwt/qwt-6.1.3/doc/doc.pro -o Makefile) && make -f Makefile

make[1]: Entering directory '/home/sdr/sw/qwt/qwt-6.1.3/doc'

make[1]: Nothing to be done for 'first'.

make[1]: Leaving directory '/home/sdr/sw/qwt/qwt-6.1.3/doc'

cd designer/ && (test -e Makefile || /usr/lib/x86_64-linux-gnu/qt5/bin/qmake /home/sdr/sw/qwt/qwt-6.1.3/designer/designer.pro -o Makefile) && make -f Makefile

make[1]: Entering directory '/home/sdr/sw/qwt/qwt-6.1.3/designer'

compiling qwt_designer_plugin.cpp

In file included from qwt_designer_plugin.h:13:0,

from qwt_designer_plugin.cpp:23:

/usr/include/x86_64-linux-gnu/qt5/QtDesigner/QDesignerCustomWidgetInterface:4:4: warning: #warning Header <QtDesigner/QDesignerCustomWidgetInterface> is deprecated. Please include <QtUiPlugin/QDesignerCustomWidgetInterface> instead. [-Wcpp]

warning Header <QtDesigner/QDesignerCustomWidgetInterface> is deprecated. Please include

^

compiling qwt_designer_plotdialog.cpp

rcc qwt_designer_plugin.qrc

compiling resources/qrc_qwt_designer_plugin.cpp

moc qwt_designer_plugin.h

compiling moc/moc_qwt_designer_plugin.cpp

In file included from moc/./qwt_designer_plugin.h:13:0,

from moc/moc_qwt_designer_plugin.cpp:9:


```
Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/sw/qwt/qwt-6.1.3$ sudo make install
cd src/ && ( test -e Makefile || /usr/lib/x86_64-linux-gnu/qt5/bin/qmake /home/sdr/sw/qwt/qwt-6.1.3/src/src.pro -o Makefile ) && make -f Makefile install
make[1]: Entering directory '/home/sdr/sw/qwt/qwt-6.1.3/src'
install -m 755 -p ../lib/libqwt.so.6.1.3 /usr/local/qwt-6.1.3/lib/libqwt.so.6.1.3
strip --strip-unneeded /usr/local/qwt-6.1.3/lib/libqwt.so.6.1.3
ln -f -s libqwt.so.6.1.3 /usr/local/qwt-6.1.3/lib/libqwt.so
ln -f -s libqwt.so.6.1.3 /usr/local/qwt-6.1.3/lib/libqwt.so.6
ln -f -s libqwt.so.6.1.3 /usr/local/qwt-6.1.3/lib/libqwt.so.6.1
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_abstract_scale_draw.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_clipper.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_color_map.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_compat.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_column_symbol.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_date.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_date_scale_draw.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_date_scale_engine.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_dyngrid_layout.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_global.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_graphic.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_interval.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_interval_symbol.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_math.h /usr/local/qwt-6.1.3/include/
install -m 644 -p /home/sdr/sw/qwt/qwt-6.1.3/src/qwt_magnifier.h /usr/local/qwt-6.1.3/include/
```

```

Terminal File Edit View Search Terminal Help
96 # sleep 10; alert
97 alias alert='notify-send --urgency=low -i "$([ $? = 0 ] && echo terminal ||
echo error)" "$(history|tail -n1|sed -e '\''s/^\s*[0-9]\+\s*//;s/[\;&]\s*ale
rt$//'\`)'"'
98
99 # Alias definitions.
100 # You may want to put all your additions into a separate file like
101 # ~/.bash_aliases, instead of adding them here directly.
102 # See /usr/share/doc/bash-doc/examples in the bash-doc package.
103
104 if [ -f ~/.bash_aliases ]; then
105     . ~/.bash_aliases
106 fi
107
108 # enable programmable completion features (you don't need to enable
109 # this, if it's already enabled in /etc/bash.bashrc and /etc/profile
110 # sources /etc/bash.bashrc).
111 if ! shopt -oq posix; then
112     if [ -f /usr/share/bash-completion/bash_completion ]; then
113         . /usr/share/bash-completion/bash_completion
114     elif [ -f /etc/bash_completion ]; then
115         . /etc/bash_completion
116     fi
117 fi
118
119 # Enable Vivado 2015 & Petalinux 2015
120 #source /home/sdr/petalinux_zynq/petalinux-v2015.4-final/settings.sh
121 #source /opt/Xilinx/Vivado/2015.4/settings64.sh
122
123 # Enable Vivado 2017 & Petalinux 2017
124 source /opt/Xilinx/Vivado/2017.4/settings64.sh
125 source /opt/pkg/petalinux/settings.sh
126
127 # Enable QT5 QWT6
128 QT_PLUGIN_PATH="/usr/local/qwt-6.1.3/plugins:$QT_PLUGIN_PATH"
129 export QT_PLUGIN_PATH
130
131 # Enable LD_LIB_PATH
132 LD_LIBRARY_PATH="/usr/local/qwt-6.1.3/lib:$LD_LIBRARY_PATH"
133 export LD_LIBRARY_PATH

```

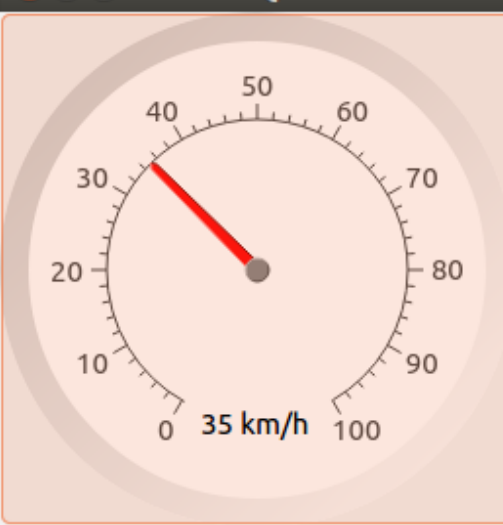
```
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ qmake qt_18th.pro
```

```
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ make
```

```
g++ -c -m64 -pipe -std=c++11 -O2 -Wall -W -D_REENTRANT -fPIC -DQWT_DLL -DQT_NO_D
EBUG -DQT_SVG_LIB -DQT_WIDGETS_LIB -DQT_GUI_LIB -DQT_CORE_LIB -I. -I. -I/usr/loc
al/qwt-6.1.3/include -I/usr/local/qwt-6.1.3 -isystem /usr/include/x86_64-linux-g
nu/qt5 -isystem /usr/include/x86_64-linux-gnu/qt5/QtSvg -isystem /usr/include/x8
6_64-linux-gnu/qt5/QtWidgets -isystem /usr/include/x86_64-linux-gnu/qt5/QtGui -i
system /usr/include/x86_64-linux-gnu/qt5/QtCore -I. -I/usr/lib/x86_64-linux-gnu/
qt5/mkspecs/linux-g++-64 -o CustomWidget.o CustomWidget.cpp
```

```
g++ -c -m64 -pipe -std=
EBUG -DQT_SVG_LIB -DQT
al/qwt-6.1.3/include -I
nu/qt5 -isystem /usr/in
6_64-linux-gnu/qt5/QtWi
system /usr/include/x86
qt5/mkspecs/linux-g++-6
/usr/lib/x86_64-linux-g
WIDGETS_LIB -DQT_GUI_LI
linux-g++-64 -I/home/sdr
/qt_proj/18th -I/usr/lo
de/x86_64-linux-gnu/qt5
/x86_64-linux-gnu/qt5/Q
/include/x86_64-linux-g
linux-gnu/c++/5 -I/usr/
include -I/usr/local/in
usr/include/x86_64-linu
pp
```

Custom QwtDial



```
g++ -c -m64 -pipe -std=c++11 -O2 -Wall -W -D_REENTRANT -fPIC -DQWT_DLL -DQT_NO_D
EBUG -DQT_SVG_LIB -DQT_WIDGETS_LIB -DQT_GUI_LIB -DQT_CORE_LIB -I. -I. -I/usr/loc
al/qwt-6.1.3/include -I/usr/local/qwt-6.1.3 -isystem /usr/include/x86_64-linux-g
nu/qt5 -isystem /usr/include/x86_64-linux-gnu/qt5/QtSvg -isystem /usr/include/x8
6_64-linux-gnu/qt5/QtWidgets -isystem /usr/include/x86_64-linux-gnu/qt5/QtGui -i
system /usr/include/x86_64-linux-gnu/qt5/QtCore -I. -I/usr/lib/x86_64-linux-gnu/
qt5/mkspecs/linux-g++-64 -o moc_CustomWidget.o moc_CustomWidget.cpp
```

```
g++ -m64 -Wl,-O1 -o qt_18th CustomWidget.o qt_18th.o moc_CustomWidget.o -L/usr
/X11R6/lib64 -L/usr/local/qwt-6.1.3/lib -lqwt /usr/local/qwt-6.1.3/lib/libqwt.so
.6 -lQt5Svg -lQt5Widgets -lQt5Gui -lQt5Core -lGL -lpthread
```

```
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ ./qt_18th
```

```
sdr@sdr-Samsung-DeskTop-System:~/lecture/Project/qt_proj/18th$ ./qt_18th
```