# Compilation of `P.I.G.A.L.E.` under openSUSE 13.1

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Compilation instructions of compiling the P.I.G.A.L.E 1.3.15 library under a openSUSE operating system are summarized.

## I.  SOURCES

The source code of the graphics library is drawn from http://sourceforge.net/projects/pigale/files/Pigalesources/Pigale-1.3.15QT5(version5.2.0)/.

Although some support of the QT5 libraries is promised, I found no way to convinvce the 1.3.15 version of this software to comply with the directory structure of `/opt/Qt5.1.0/5.1.0/{gcc_64,Src}`, so the following assumes that the environment variable has been set to

`export QTDIR=/usr`

before trying to compile the library.

## II.  PATCHES

To avoid that some header files are not found, add the line

`DEFINES += HAVE_CONFIG_H`

after the line `DEFINES += NDEBUG` in `freeglut/*.pro`.

To avoid that the `freeglut` and X11 libraries will not be found at link time, replace

`unix:LIBS += ../$$LIBGLUT`

by

`unix:LIBS += ../freeglut/$$LIBGLUT -lX11`

in `qt/qt.pro`

## III.  CONFIGURATION AND PATCH

Continue in the style of

```
autoreconf -i
./configure --prefix=$HOME
```

and then edit `freeglut/Makefile` such that the second `MOVE` in the file (it appears in the body of the `TARGET`) is only a copy:

`-$(COPY) $(TARGET) ..../lib/`

## IV.  COMPILATION

Finally start the compilation with

`make`

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