# Install Qt

The objective of upcoming labs is to discover an IDE used in the embedded world: **Qt** ("cute"). Qt is in fact more than a simple IDE but a complete framework to develop complete application with graphic interfaces. Many of the specific display found in the automotive, medical or consumer electronics have been developed using Qt framework.
You will find tons of youtube videos on Qt and dedicated displays, if you are interested you can start with https://www.youtube.com/watch?v=6mcU4exDz4k

# 1 - Qt Installation

An open source version of Qt is available, it does not have all the features, but it is good enough for our lab applications.

## 1.1 Download

Go to Open Source Development | Open Source License | Qt  and follow the instructions to download and install Qt Open Source version. Registration is needed, use your email address.
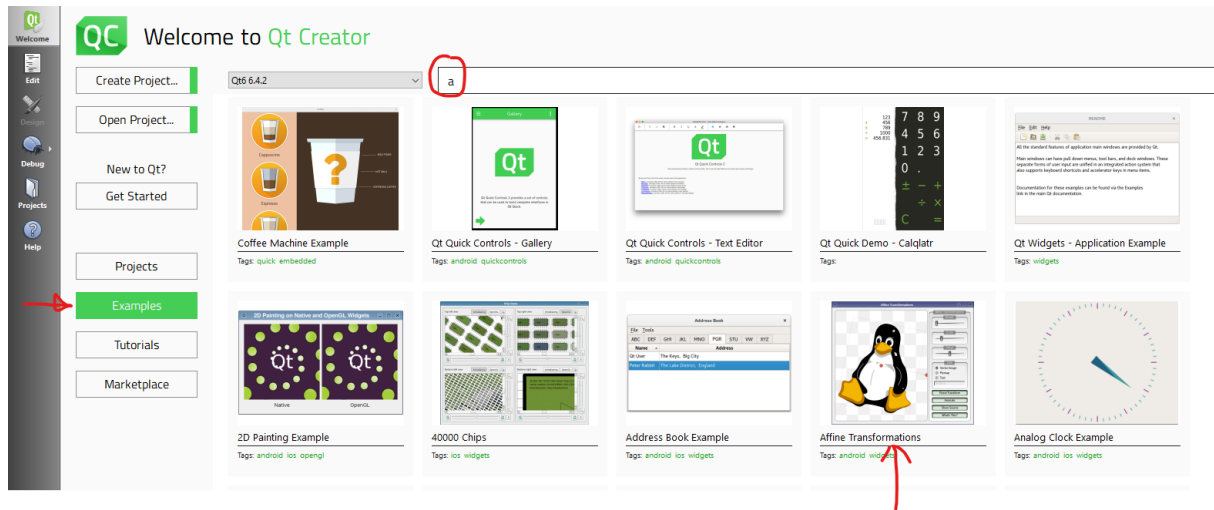
If you need to change the default path C:\Qt, make sure that the path you select *does not have space in the folder names*, it is known to create a problem with Qt.

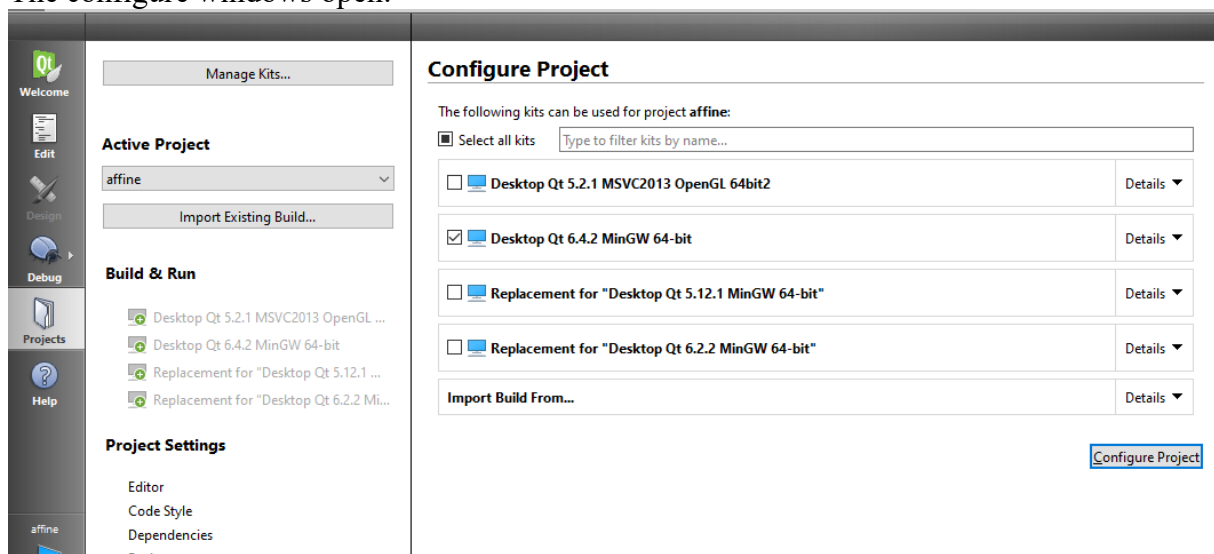When done with the install, click on Finish to Launch Qt Creator
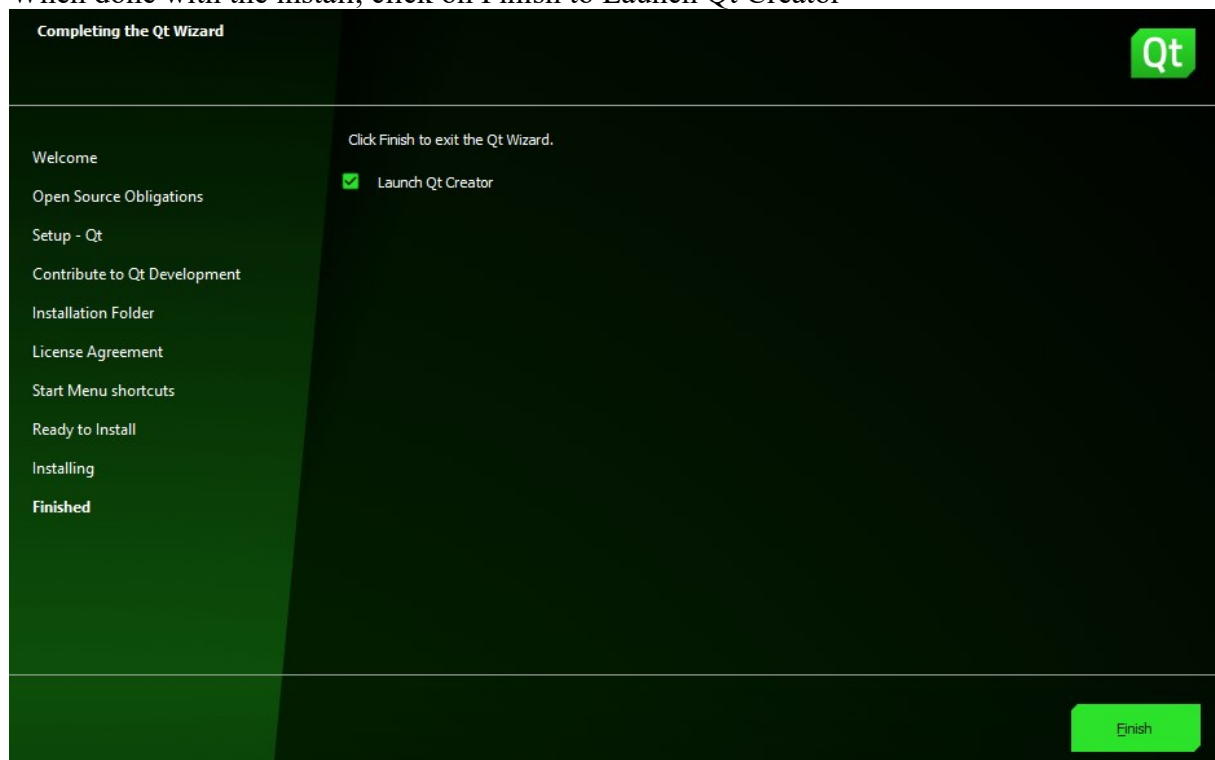
## 1.2 Verify Qt

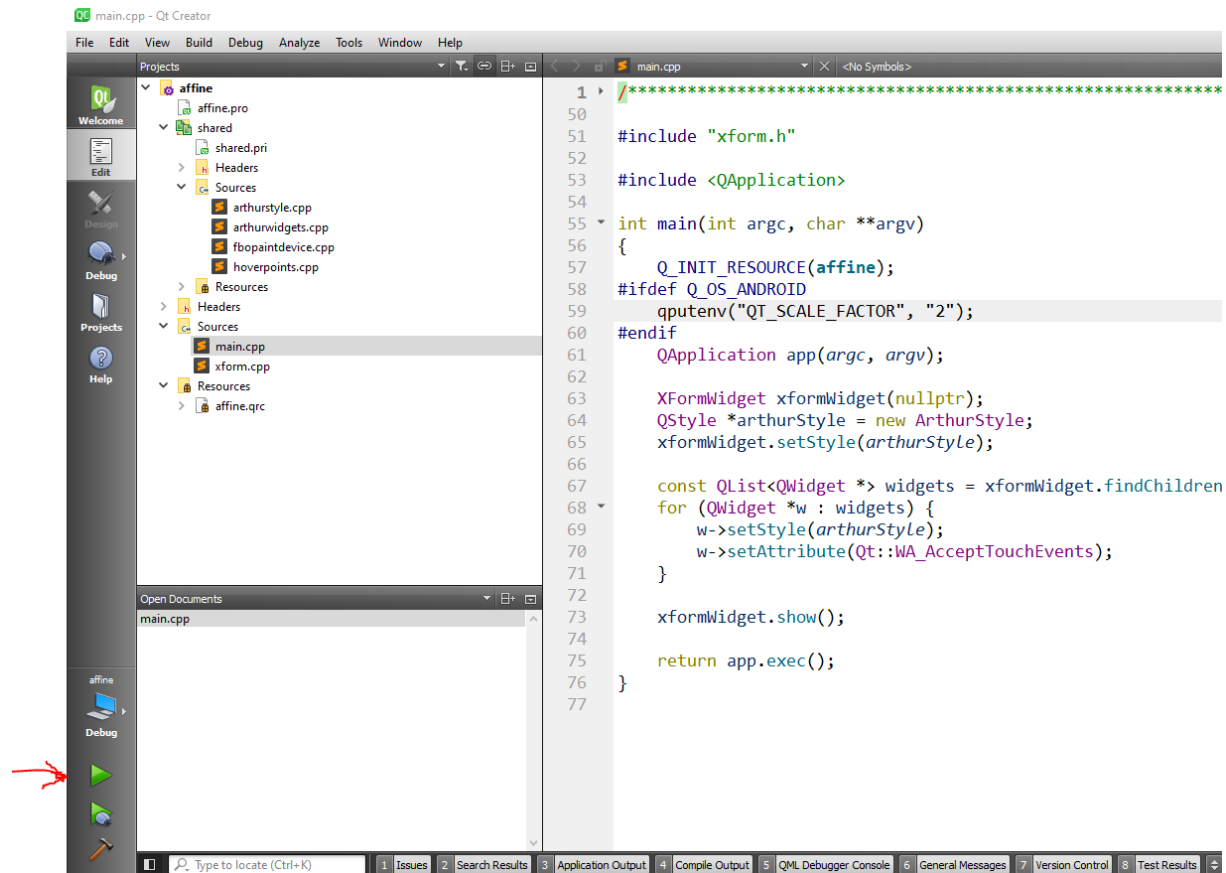To verify that your install is ok, select the "Affine transform project"
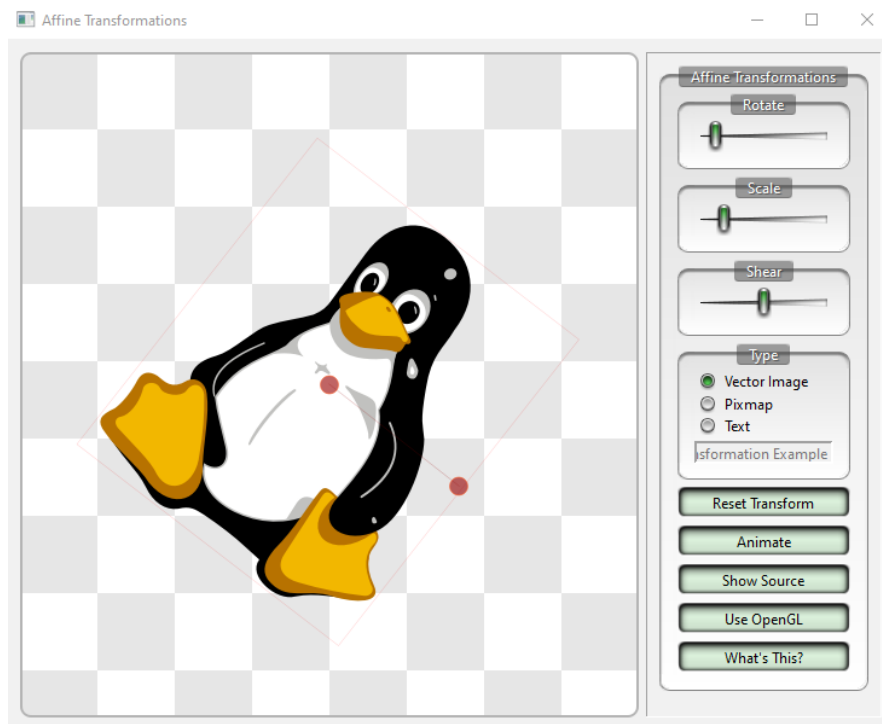


The configure windows open:



Click on Configure Project

The main window opens, click on the green arrow (bottomleft of the window, indicated by my red mark.



After a compile step (1 min), the "Affine Transformations" window opens



**Congratulation, you have correctly installed Qt.**

## 1.3 Install a Simple Project

At the shell, clone the git repository in a location such as C:\student\lab3 or any other location of your choice, just make sure that you don't have space the each of the folder names.

```
shell> git clone https://github.com/elec4/image_base.git
Cloning into 'image_base'...
remote: Counting objects: 9, done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 9 (delta 0), reused 9 (delta 0), pack-reused 0
Unpacking objects: 100% (9/9), done.
Checking connectivity... done.
```
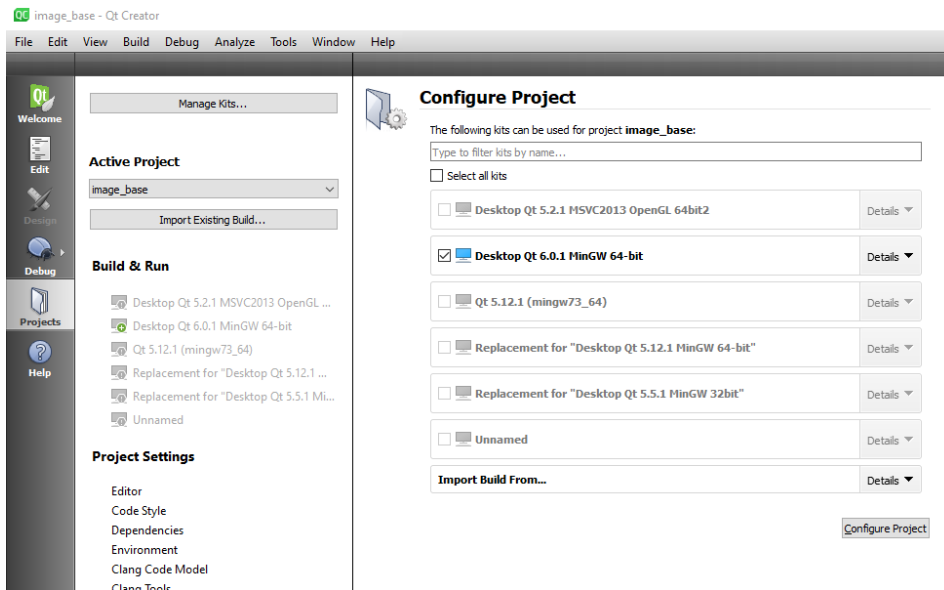
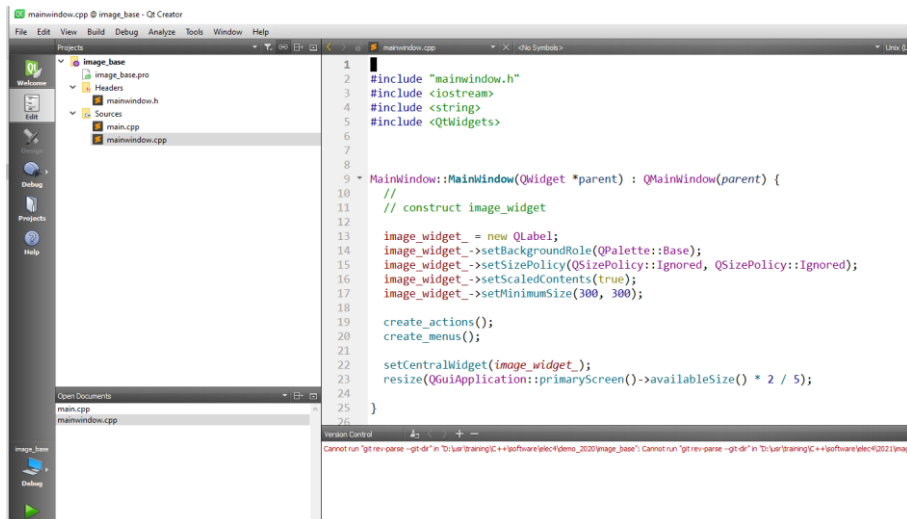In Qt Creator: Open File or Project
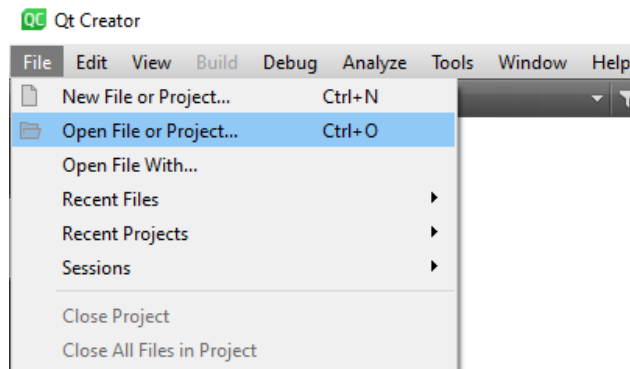


Select image_base.pro from the location where you have extracted the cloned repository, click on open
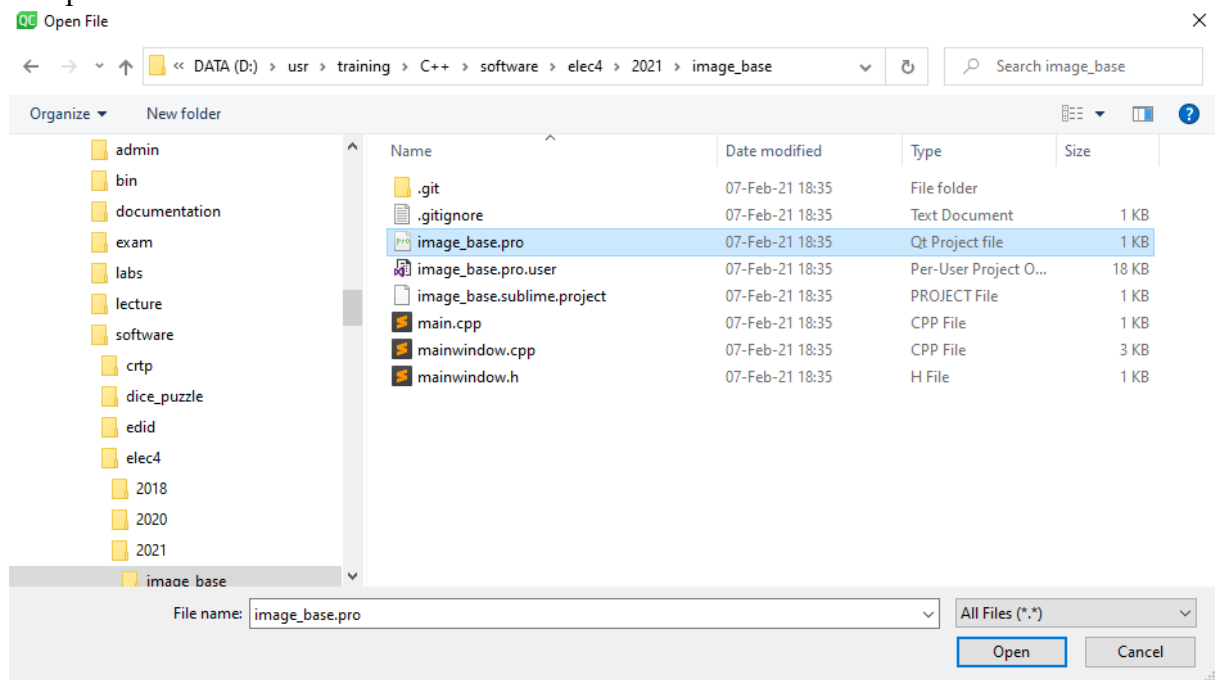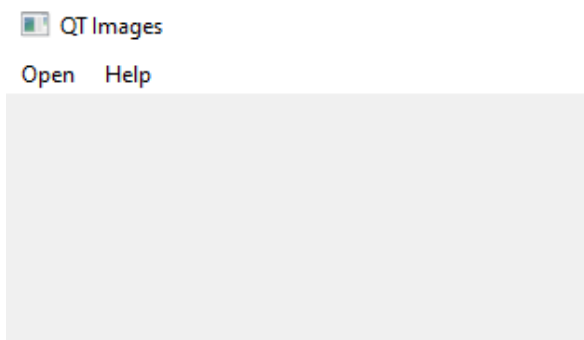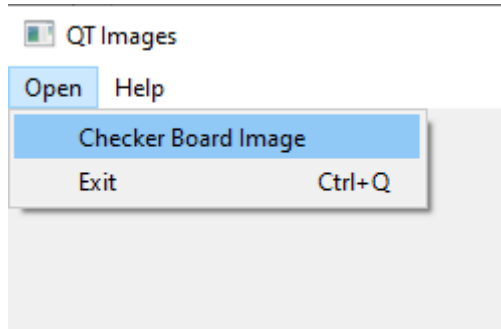
Then click on Configure Project
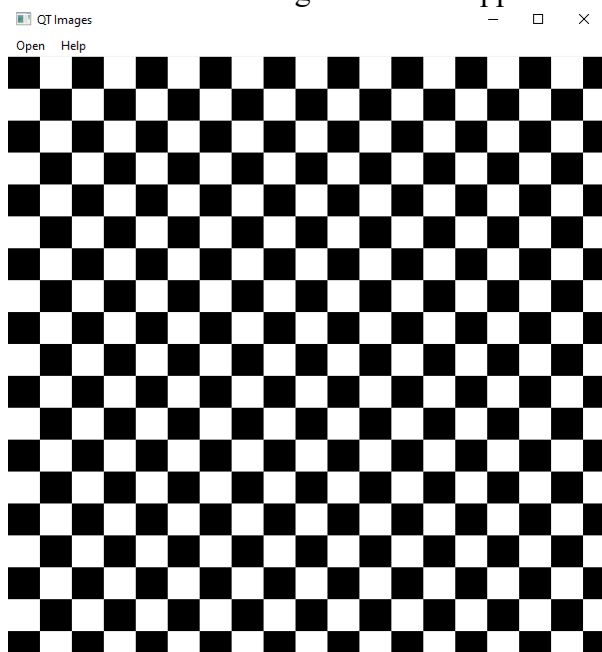
The code window opens

Again, click on run (bottom left, green triangle), the "QT Images" window opens,

Select Open-> Checker Board Image



The checkerboard image must now appears



**You are done with QT install and you are ready to proceed with the labs.**