



Introduction

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Prerequisite: C++



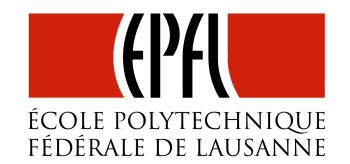
• C++ Tutorial:

http://www.cplusplus.com/doc/tutorial/

Transition from Java:

http://cs.brown.edu/courses/cs123/docs/java_to_cpp.shtml

• Book: C++ Primer (5th Edition). Stanley B. Lippman, Josée Lavoie, Barbara E. Moo. Addison-Wesley, 2012.



Eigen



- Eigen is a C++ template library for linear algebra
 - matrices, vectors, numerical solvers, and related algorithms.
- More on http://eigen.tuxfamily.org/
- See slides at the end on how to compile/build/run



Eigen Tutorial: Vectors (1/2)



Initializing a vector

```
Eigen::Vector3f u, v;
u(0) = 1.0;
u(1) = 0.0;
u(2) = 0.0;

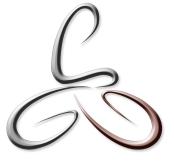
// Another way of initializing a vector/matrix
v << 0.0, 1.0, 0.0;</pre>
```

Display them to standard input

```
cout << "u: " << u.transpose() << endl;
cout << "v: " << v.transpose() << endl;</pre>
```



Eigen Tutorial: Vectors (2/2)



Vector operations

```
auto w = u.cross(v); cout << u.transpose() << " cross " << v.transpose() << " = " << w.transpose() << endl; double dot = u.dot(v); cout << u.transpose() << " dot " << v.transpose() << " = " << dot << endl;
```

More vector operations



Eigen Tutorial: Matrix



Matrix setup

```
Eigen::Matrix2f m;
m(0, 0) = 3;
m(1, 0) = 2.5;
m(0, 1) = -1;
m(1, 1) = m(1, 0) + m(0, 1);
cout << "\nMatrix m:\n" << m << endl;</pre>
```

Matrix operations

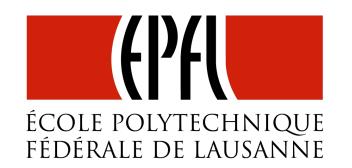
```
auto m1 = m + n; // This will fail.
auto m2 = Eigen::Matrix2f::Identity();
auto m3 = m + m2; // This will not.
cout << "\nMatrix m3:\n" << m3 << endl;</pre>
```



Eigen Tutorial: Final Words



- Quick documentation (for MATLAB users)
 - http://eigen.tuxfamily.org/dox/AsciiQuickReference.txt
- Getting started
 - http://eigen.tuxfamily.org/dox/GettingStarted.html
- Longer tutorial
 - http://eigen.tuxfamily.org/dox/group__TutorialMatrixClass.html
- Reference
 - http://eigen.tuxfamily.org/dox/group QuickRefPage.html



Building on Linux



- Download the zip for dgp17-exercise1 on Moodle
- Download g++, make and cmake from your favourite packet manager
- You can then compile the lab using a terminal:

```
~$ cd /path/to/dgp2017-exercise1/
```

- ~\$ mkdir build/
- ~\$ cd build/
- ~\$ cmake ...
- ~\$ make
- ~\$./lab0_eigen/lab0_eigen

(see slide on Qt Creator if you need an IDE for C++)



Building on a Mac



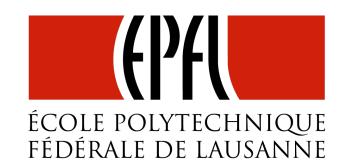
- Install Xcode from the AppStore
- Install brew (see http://brew.sh/)
- Using brew install cmake
- You can then compile the lab using a terminal:

```
~$ cd /path/to/dgp2017-exercise1/
```

- ~\$ mkdir build/
- ~\$ cd build/
- ~\$ cmake ...
- ~\$ make
- ~\$./lab0_eigen/lab0_eigen

(see slide on Qt Creator if you need an IDE for C++)

Introduction



Building on Windows



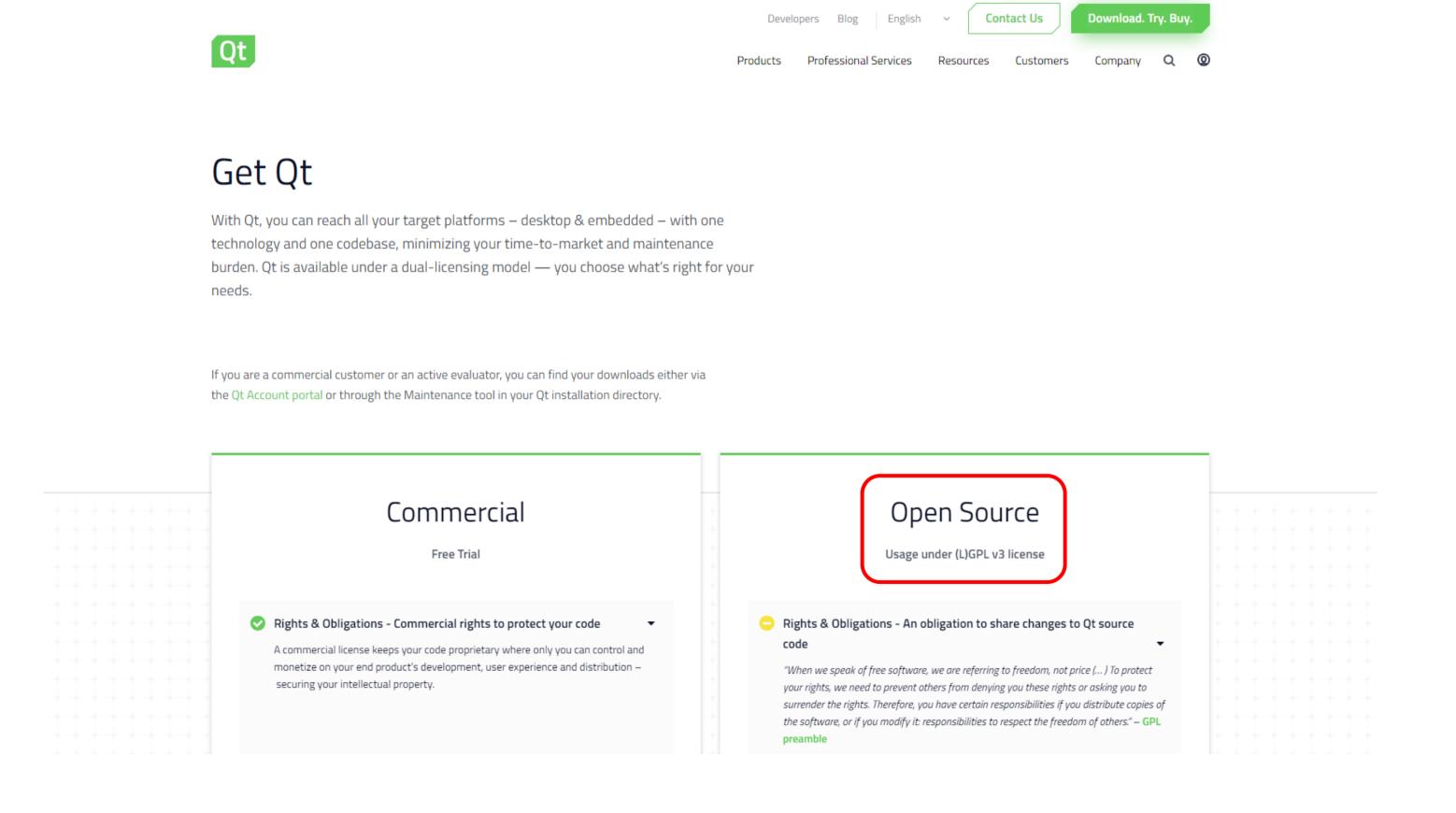
- Download and install Visual Studio Community Edition from <u>https://www.visualstudio.com/vs/community/</u>
 do not forget to tick Visual C++ when during installation
- Download and install CMake from http://www.cmake.org
- See next slide to build and run your program
 (we recommend you to use Qt Creator instead of the Visual Studio IDE has it has a better CMake integration)



QT Creator (1/6)



- Download and install QT Creator (only, not the full Qt stack) from
 - https://www.qt.io/download-open-source/#section-9
- Choose "Open Source"





QT Creator (2/6)

- Select the following components to install
 - **QT** 5.11.2
 - ✓ MSVC 2017 64-bit
 - ✓ MinGW 5.3.0 32 bit
 - ☐ Tools
 - ✓ Qt Creator 4.7.1 CDB Debugger Support 4.7.1-0
 - ✓ MinGW 5.3.0
- Launch Qt Creator and follow the screenshots on the next slides

Select Componer

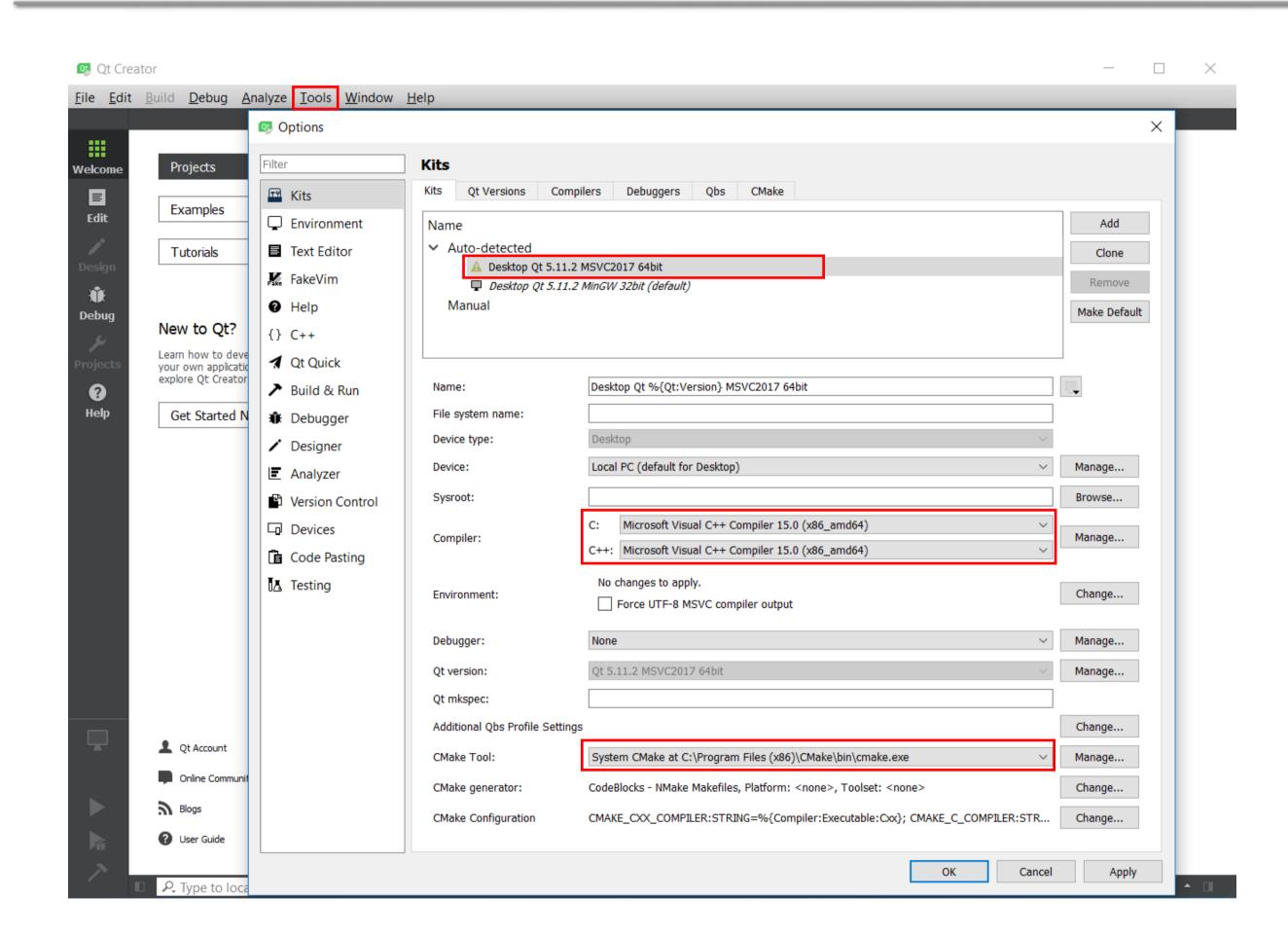
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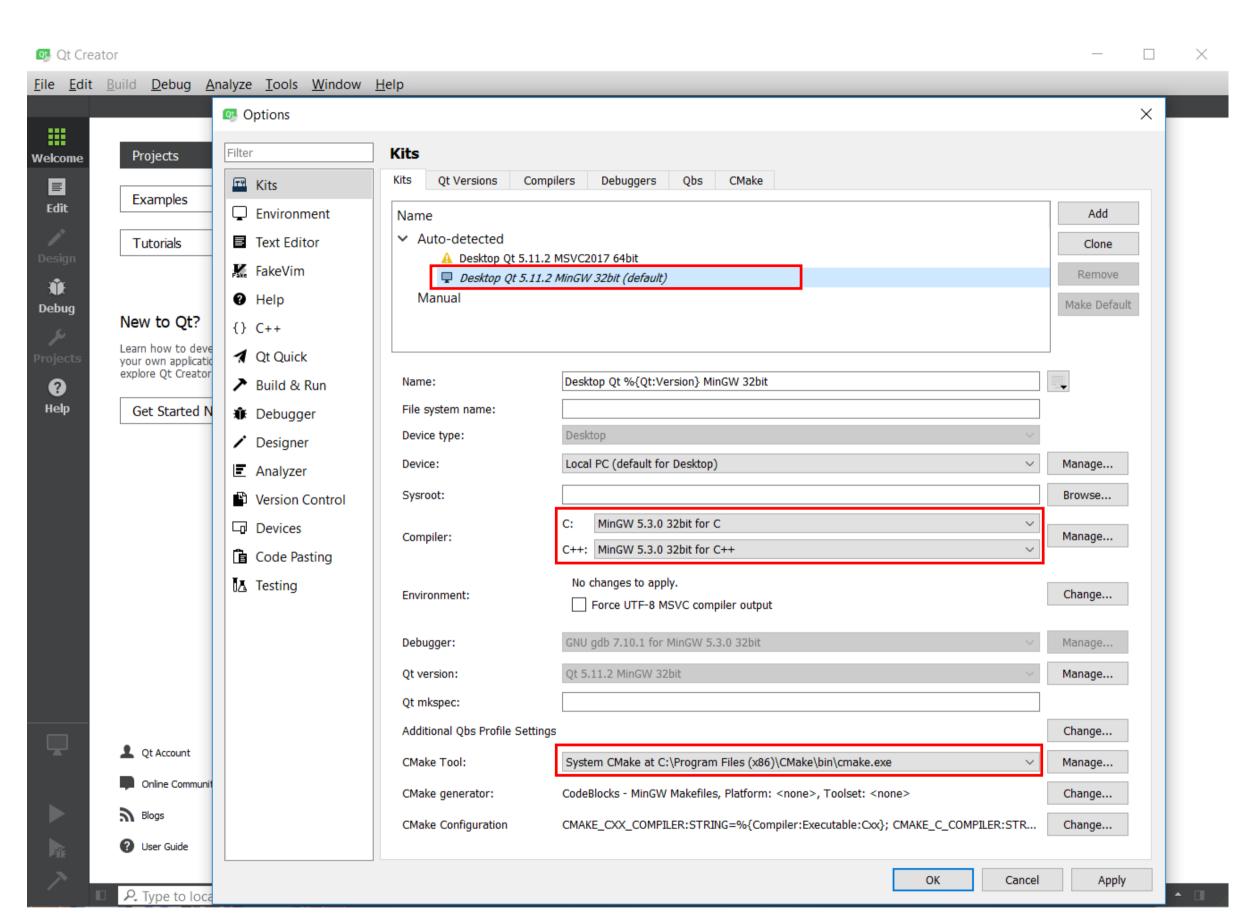
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QT Creator (3/6)





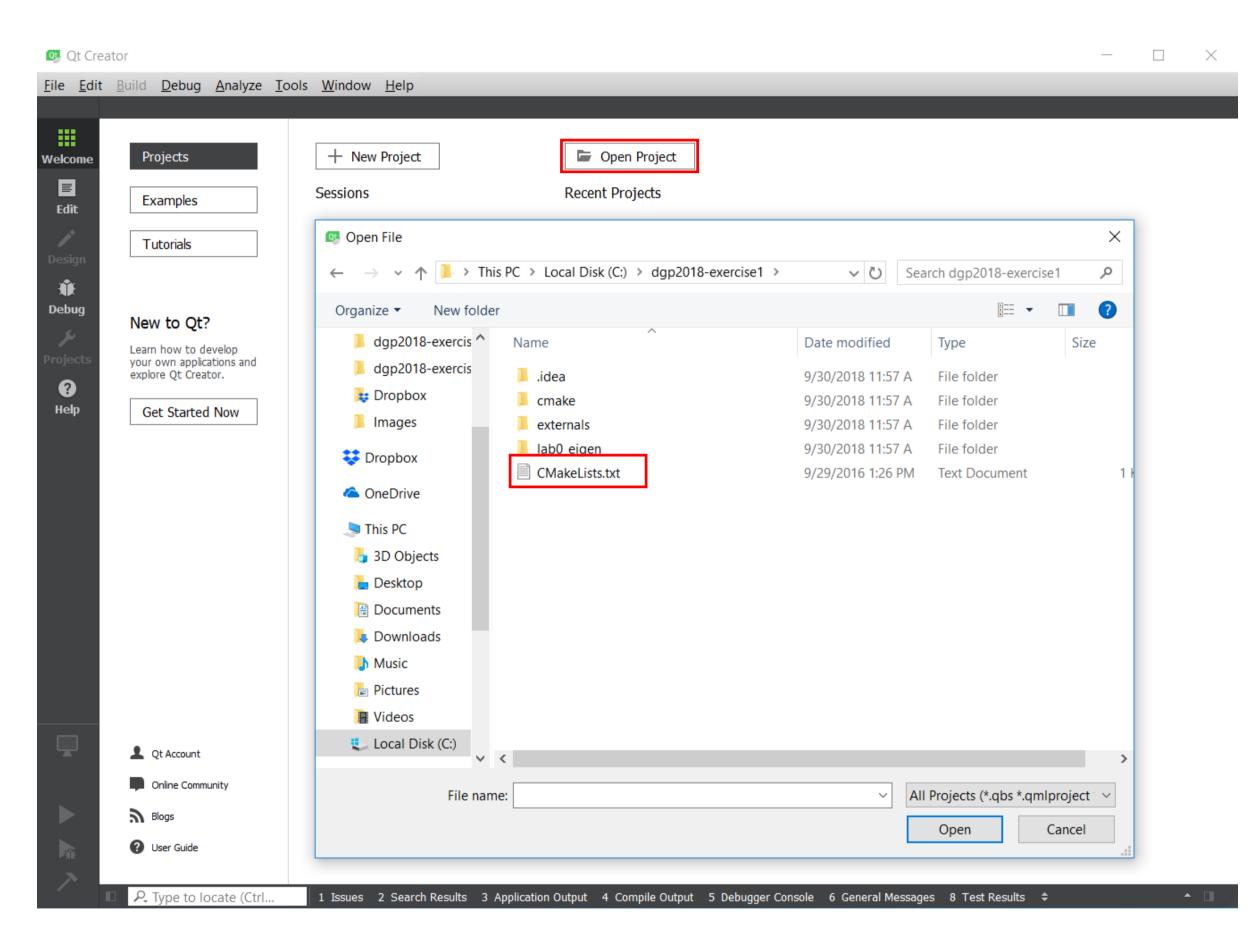


On *Windows only*, be sure that your compiler is set to be the Microsoft Visual C++Compiler or MinGW (click "Tools" -> "Options")

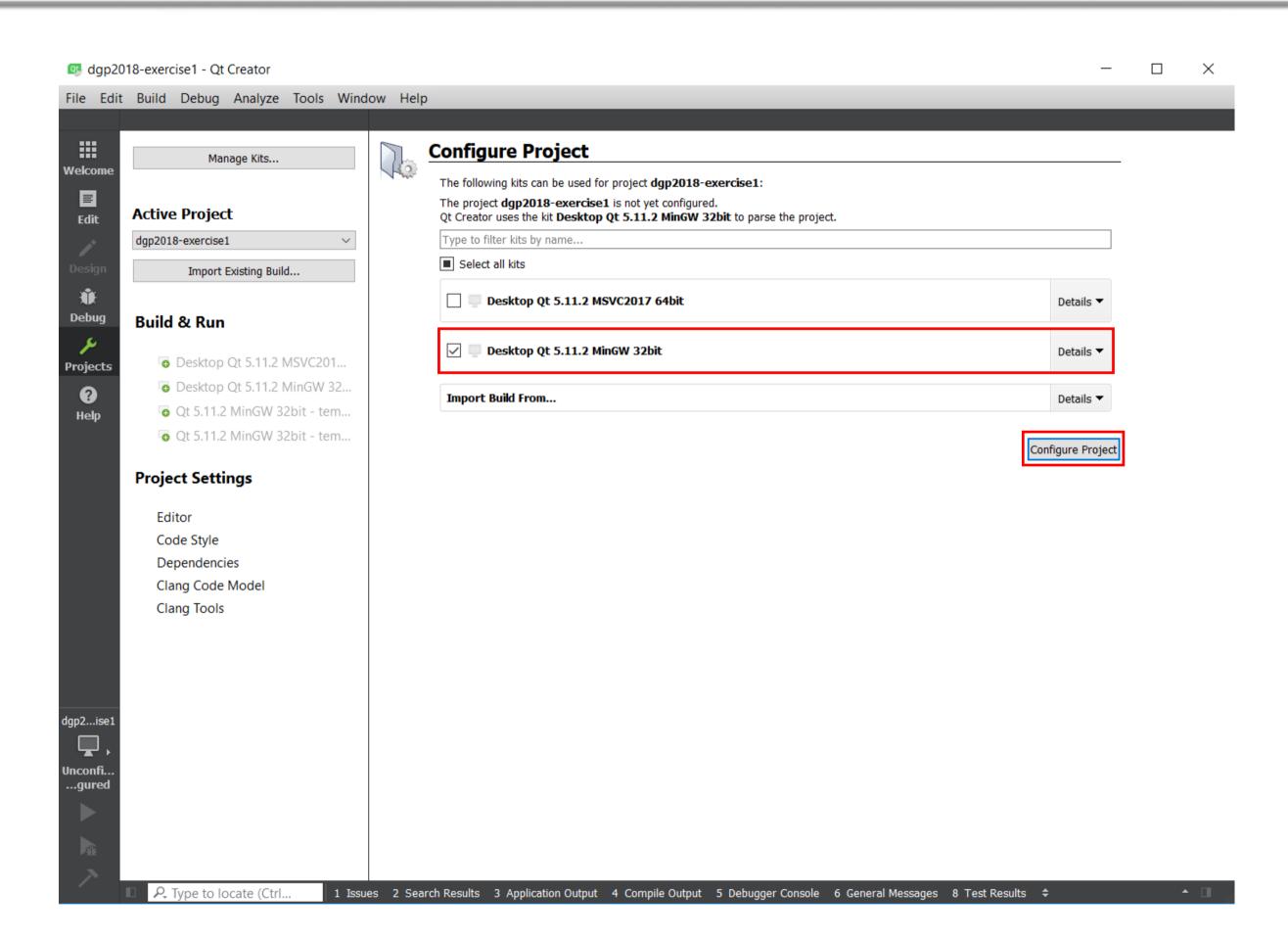


QT Creator (4/6)





Click on "Open Project" and select the CMakeLists.txt file at the root of the dgp2018-exercise1/ directory

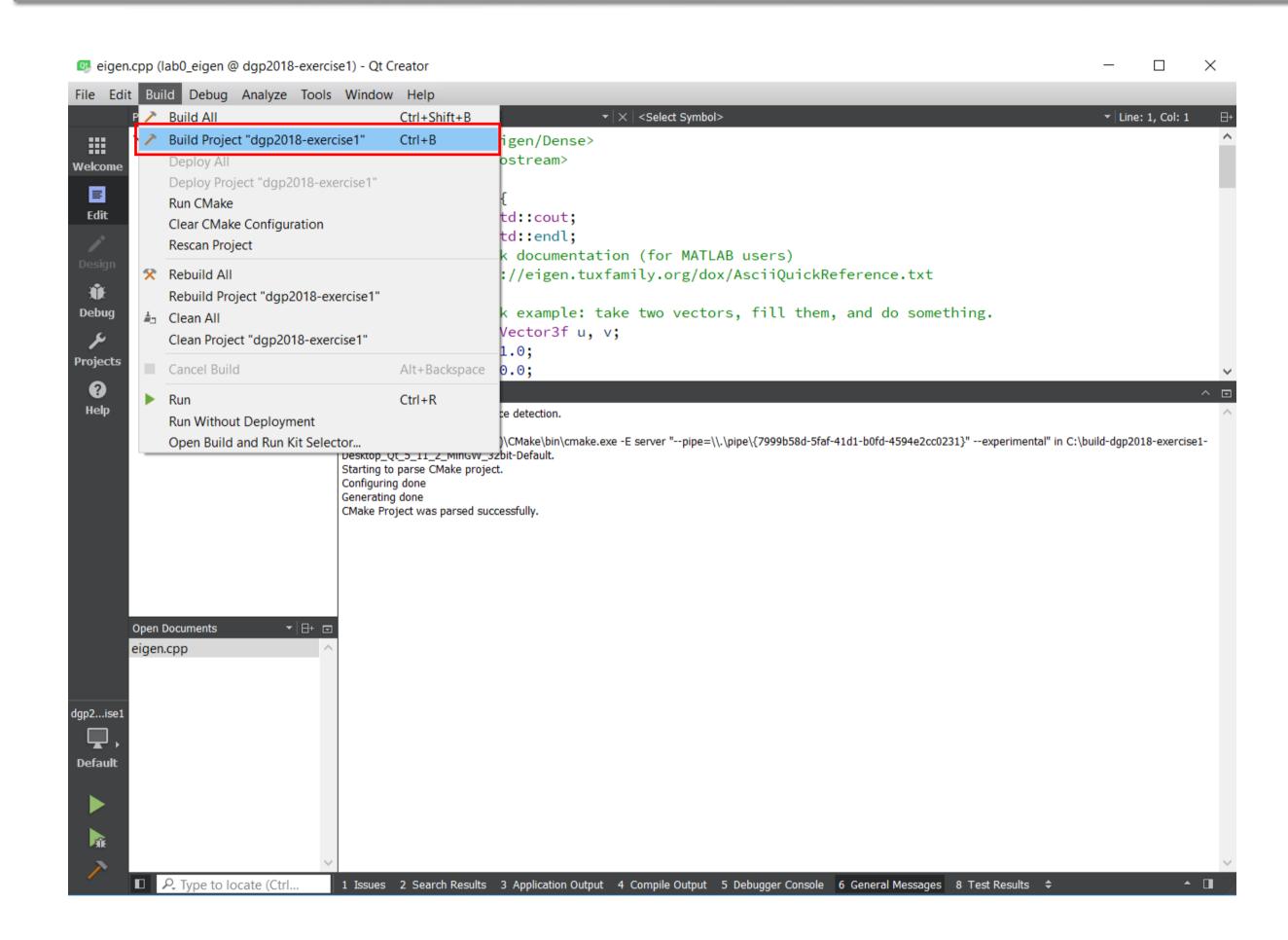


Select "Desktop QT 5.11.2 MinGW 32 bit" (or "Desktop QT 5.11.2 MSVC 2017 64bit") and click on "Configure project"

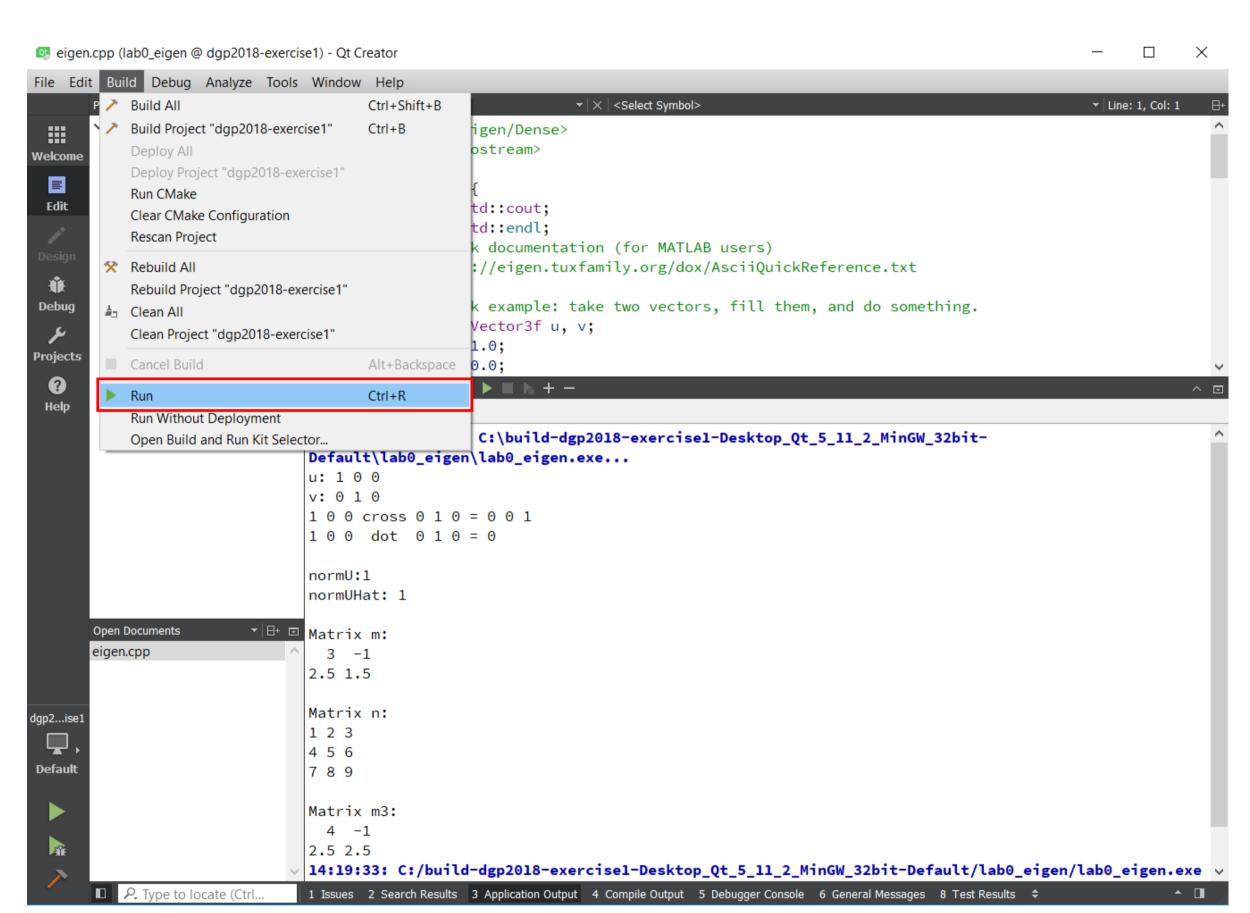


QT Creator (5/6)





Click on "Build dgp2018-exercise1"



Click on "Run" and see the output of the program



QT Creator (6/6)



- You can also use QT Creator on a Mac
- When install QT creator on a Mac, you only need to select the following component
 - **QT** 5.11.2
 - ✓ macOS

