

Installation of cfl library with Microsoft Visual Studio Community 2017 for Windows Desktop

The software was created to accompany the course and is intended only for educational purposes. No guarantee whatsoever is given with respect to the accuracy of the results.

Please follow the instructions carefully, line-by-line. This is not the time to be creative!

1. Download and install free Microsoft Visual Studio Community 2017 for Windows Desktop from the web¹. The procedure is pretty straightforward — just follow the instructions.
Do not forget to register the Community Edition! Otherwise, the software will stop working after one month.
2. Download and install 7-Zip file archive program². This program is optional. In principle, you can use native Windows archive tools. Unfortunately, they may be quite slow.
3. Create a directory, where you will keep the material related to the course. Hereafter we shall call this directory FC.
4. Place the file `Course.zip` in the directory FC and unzip it³. Check that you get the directory tree as `FC:\Course\cfl` (not as `FC:\Course\Course\cfl`).
5. Click on the Visual Studio Solution file `FC:\Course\Course.sln`. You will start your Visual Studio 2017. Your workspace should contain 3 projects: `cfl`, `test`, and `Examples`.
6. Go to the file `\test\Output.hpp` and type your Student ID in “ ”. You can access this file from Visual Studio: `\test\Header Files\Output.hpp`.
7. Compile (F7) Solution Course (all 3 projects) both in debug and release modes⁴. The following files should appear:
 - in directory `FC:\Course\lib`: `cfl.lib` and `cflg.lib`, `test.lib` and `testg.lib` (letter `g` at the end indicates the debug versions).

¹ As of August 2017, the link is <http://www.visualstudio.com/downloads>.

² As of August 2017 the link is <http://www.7-zip.org/>.

³ With 7-Zip program installed, click right button on `Course.zip` and in the list of commands for 7-Zip select `Extract Here`

⁴ To switch between debug and release modes you can use Configuration Manager. You access it by clicking the right button of a mouse on Solution ‘Course’.

- in directory FC:\Course\bin: Examples.exe and Examplesg.exe.

8. Finally, run the project **Examples**. An easy way to do that is by double clicking the files **Examples.exe** (release version) and **Examplesg.exe** (debug version). *Be patient: the running time in debug mode may take a few minutes!*

You can also start these .exe files directly from Visual Studio. To accomplish that make **Examples** the **StartUp** project, by clicking right button on **Examples** and choosing **Set as StartUp Project**. Then you can run it by clicking (Ctrl+F5). This command will run the project in either debug or release version depending on the current choice in **Configuration Manager**.

The five text files:

- (a) ExamplesBlackPathDependent.txt,
- (b) ExamplesBlackStandard.txt,
- (c) ExamplesData.txt,
- (d) ExamplesHullWhitePathDependent.txt,
- (e) ExamplesHullWhiteStandard.txt,

will be created in the directory FC:\Course\Examples\Output. Your Student ID should appear on the first line of each of these files. Check it!

The library is ready for use!