

Programming in C++

Jülich Supercomputing Centre, Forschungszentrum Jülich, Germany

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Course Material

The course material will be hosted on the [JSC gitlab server](#). If you use git, you can quickly get the material by cloning the repository like this:

```
git clone https://gitlab.version.fz-juelich.de/sdlbio-courses/programming-in-cxx-2023.git
```

This method is recommended in the class room.

If not, go to the [web page for the course](#) and use the download button to the left of the “Clone” button. It does not have the text “Download” on it, just a tiny image with a downward pointing arrow!

Access to the JUSUF supercomputer for the course

The access will be through the JupyterJSC Jupyter Hub: <https://jupyter-jsc.fz-juelich.de/hub/home>

If you have performed all the steps in your registration process, you should be able to start a Jupyter lab session [here](#). After logging in:

- Click on “Add new JupyterLab”
- Select JUSUF as your system
- If you have multiple accounts, select your account
- Select the project training2312
- Select partition “LoginNode”
- Click "Start" to start your JupyterLab session

The next step is very important!! (In case the project "training2312" does not show up for you during the course days, please let us know.)

Important step for every new Jupyter Lab session

When you have started your Jupyter Lab session, the first thing you should do is to open a terminal from the menu : File -> New -> Terminal. In that terminal, you enter the following command:

```
source $PROJECT/local/setup.sh
```

On first run, the setup script creates your own private working area and create a symbolic link to it accessible directly from the left panel in your Jupyter Lab. The link will be called CXX2023. In other words, after you run the above command, when you see a link CXX2023 among other entries in your HOME folder, you can click on that to get to your private workspace. The necessary compilers and libraries will be pre-installed, as described in the companion book for the course. No further set up steps are required.

The course material for each day will be made available to you on that day. When you run the setup script, it will also bring any new material as required.