

Conda

[Conda](#) is an open-source package management system and environment management system that runs on Windows, macOS, and Linux. *Conda* quickly installs, runs, and updates packages and their dependencies. *Conda* easily creates, saves, loads, and switches between environments on your local computer.

Install Conda

Go to the *Conda* installation [web page](#) and find the instructions for your operating system under the *Regular installation* section.

You have the choice between the full *Anaconda* application or the lightweight *Miniconda*. For the purpose of this workshop, installing *Miniconda* should be enough.

Select an installer suited to your platform.

Create a Conda environment

Run the following commands in a terminal (the active directory for the terminal should be the one where you've put the file `requirements.txt`):

1. Create the conda environment
`conda create --name workshop-qml python=3.9 pip`
2. Activate the environment
`conda activate workshop-qml`
3. Install the dependencies with pip
`pip install -r requirements.txt`
4. Test your environment
`python test_imports`

Here `workshop-qml` will be the name of your *Conda* environment. You could use anything else but we will refer to this name during the workshop.

Use the `requirements.txt` file that was given to you for this workshop.

If you need to deactivate the `workshop-qml` environment at the end of your session, then type

```
conda deactivate
```

Typical workflow for the workshop

- 1) Start a terminal and navigate to the folder containing the code for the workshop
- 2) To activate the environment, type

```
conda activate workshop-qml
```

3) To start a *jupyter* server, type

```
jupyter-notebook
```

This command should automatically open a web page in your browser that is served by the local *jupyter* server you started.

References

- If you are new to *Conda* environments, please read the following [guide](#).
- If you are new to jupyter notebooks, please read the following [guide](#).