

Python Examples

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1 Setting up Python

There are several ways for Python installation on Windows. Standard installation ensures running of the Python code from the Windows console. Anaconda offers a nice GUI for Python named Spyder and enables installation of the packages online. The newest individual edition of Anaconda can be found on link <https://www.anaconda.com/products/individual>, and it contains Python version 3.8.5. New Python packages can be installed inside Anaconda Prompt in administrator mode by running command `conda install -c conda-forge pkg_name` if the package is available in Anaconda repositories. Otherwise, command `python -m pip install pkg_name` is used for known packages inside Python repositories or `python -m pip install git+git_location` for packages on Github.

Python can be started by opening Spyder. Spyder interface is shown in Fig. 1. It offers script view on the left side and an interactive console on the right side.

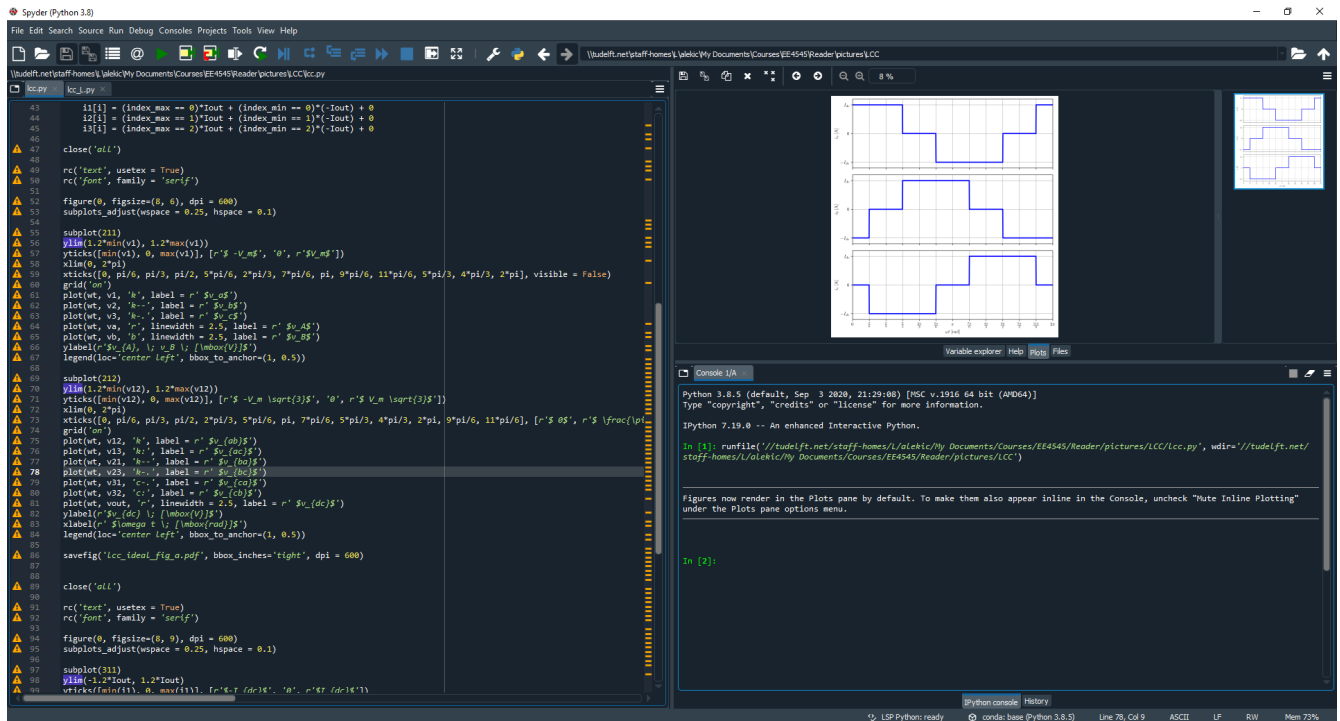


Figure 1: Spyder interface.

For this course the following packages should be installed in Anaconda prompt running it as administrator:

- Matplotlib - command: `conda install -c conda-forge matplotlib`.

Since course codes have \LaTeX visualisations, there should be \LaTeX compiler installed on the computer. The compiler we will be using is MikTeX (<https://miktex.org/download>). While installing it, the option for automatic package installation should be selected.