

1 – First Steps with JupyterLab

Bálint Aradi

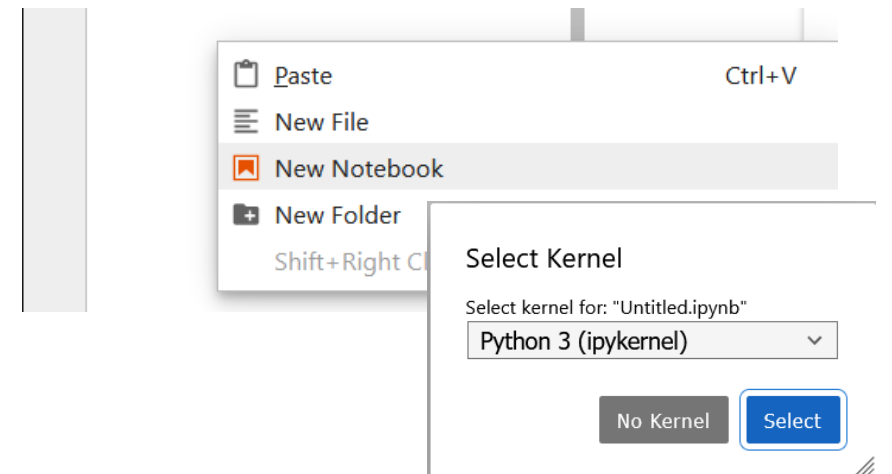
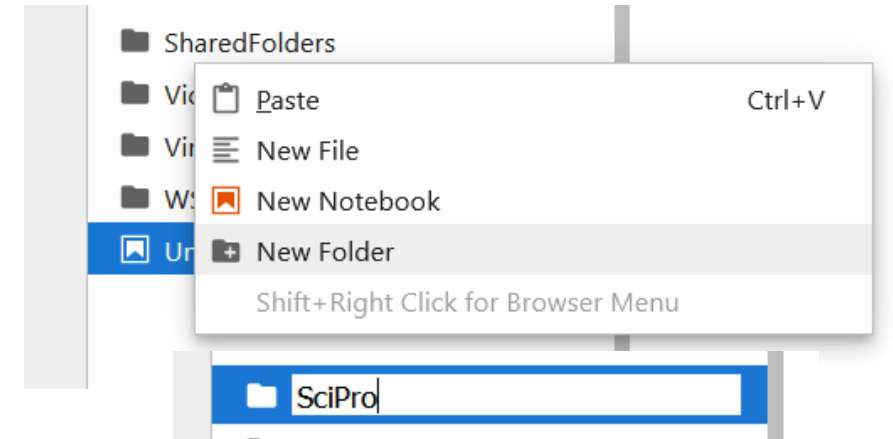
Course: Scientific Programming / Wissenschaftliches Programmieren (Python)



<https://www.bccms.uni-bremen.de/people/b-aradi/wissen-progr/python/2023>

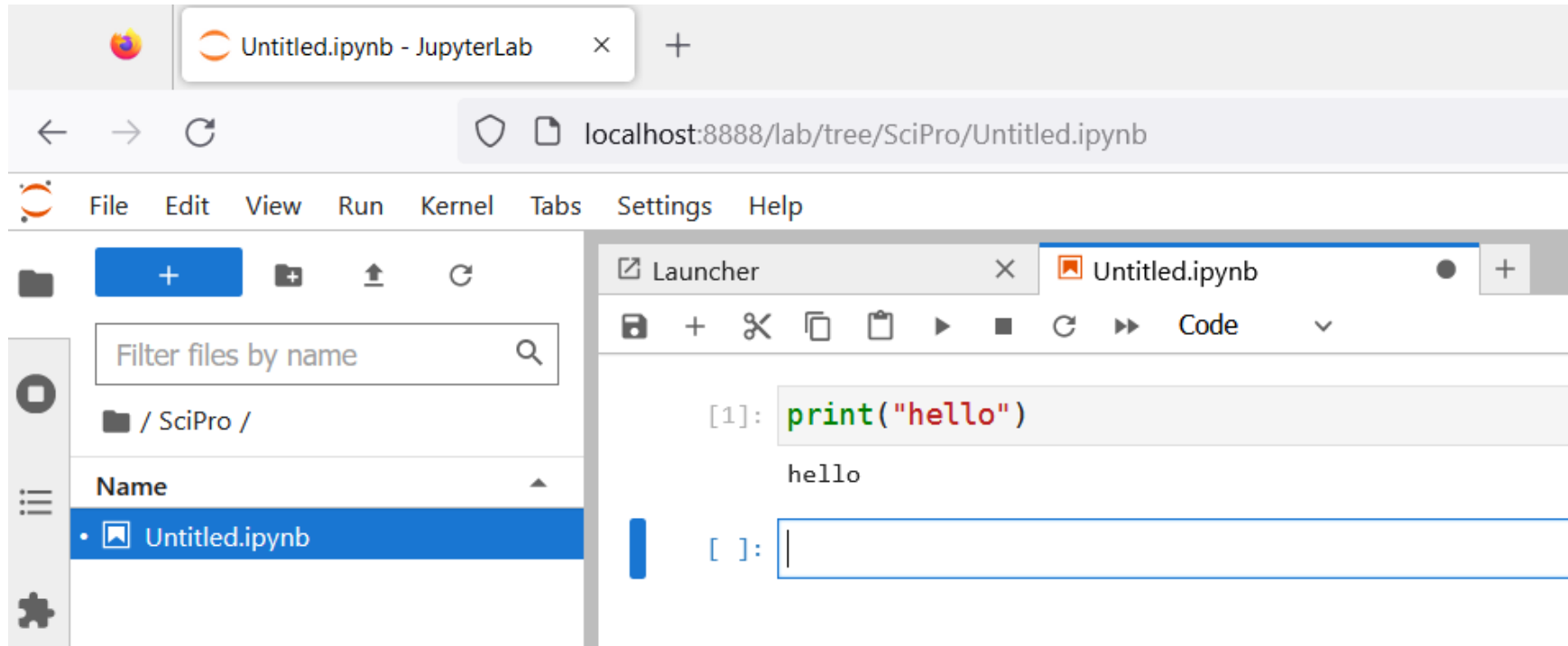
Create a new notebook

- Start JupyterLab in the **scipro** Conda environment
- Create a special directory **SciPro** for all course related files (right click in the file explorer bar and select **New Folder**)
- Change to the **SciPro** folder (double click on the folder name)
- Create a new notebook in the SciPro folder (right click in the file explorer bar and select **New Notebook**)
- Select **Python 3 (ipykernel)** kernel



Start programming python

- You are ready to enter your first Python commands



Navigation in JupyterLab

Esc	Change to command mode
Enter	Change to edit mode
Shift-Enter	Execute current cell and focus on next one
Ctrl-Enter	Execute current cell and stay there
Up/Down arrows	Move between cells (command mode) Move between lines in cell (edit mode)
A	Insert cell above (command mode)
B	Insert cell below (command mode)
C	Copy cell (command mode)
X	Cut cell (command mode)
V	Insert cell (command mode)
D, D	Delete cell (command mode)
Z	Undo last command (command mode)

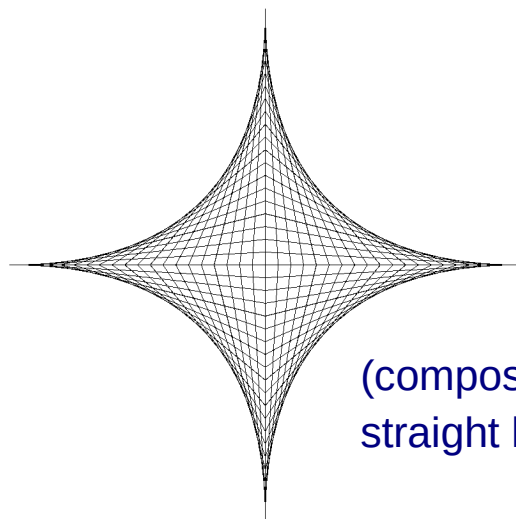
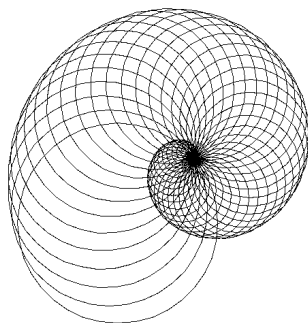
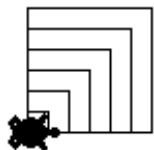
Have fun!

Explore the tutorial

- [The Beginner's Guide to Python Turtle \(on RealPython\)](#)

Create the following shapes with turtle-graphics.

Try to use loops and user defined functions (if you know those concepts) whenever it makes the code less repetitive and more elegant .



(composed of
straight lines only)

