1 – First Steps with JupyterLab

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Scientific Programming / Wissenchaftliches Programmieren in Python (2024)

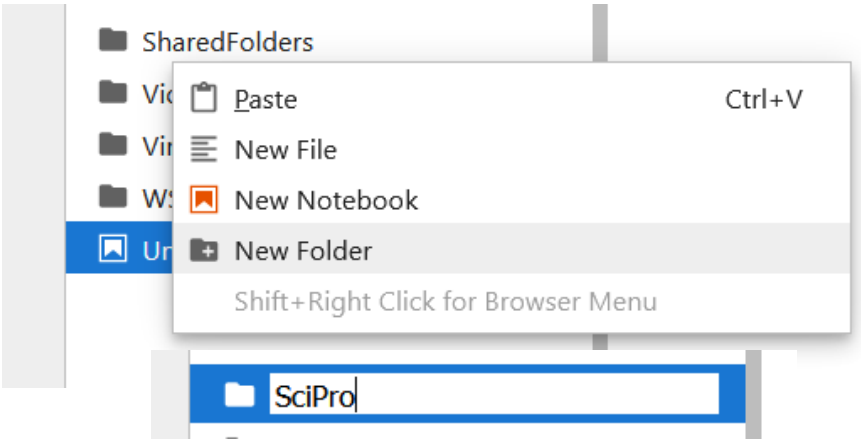
https://atticlectures.net/scipro/python-2024/

Create a new notebook

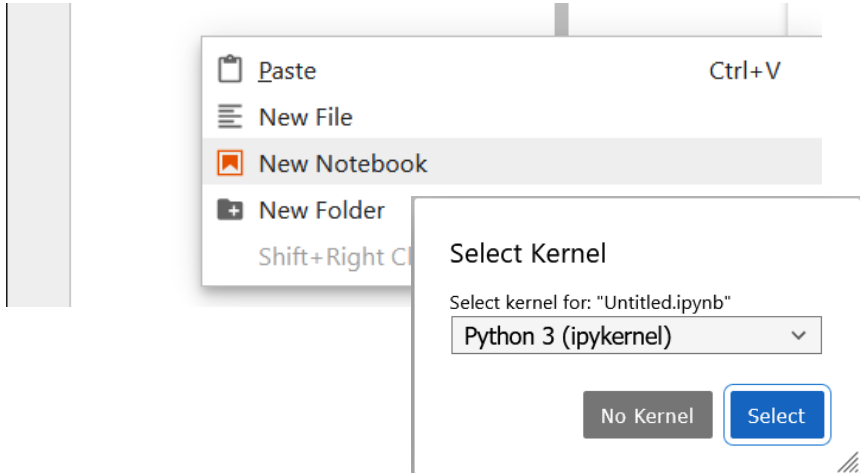
- Start JupyterLab in the **scipro** Conda environment

- 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)

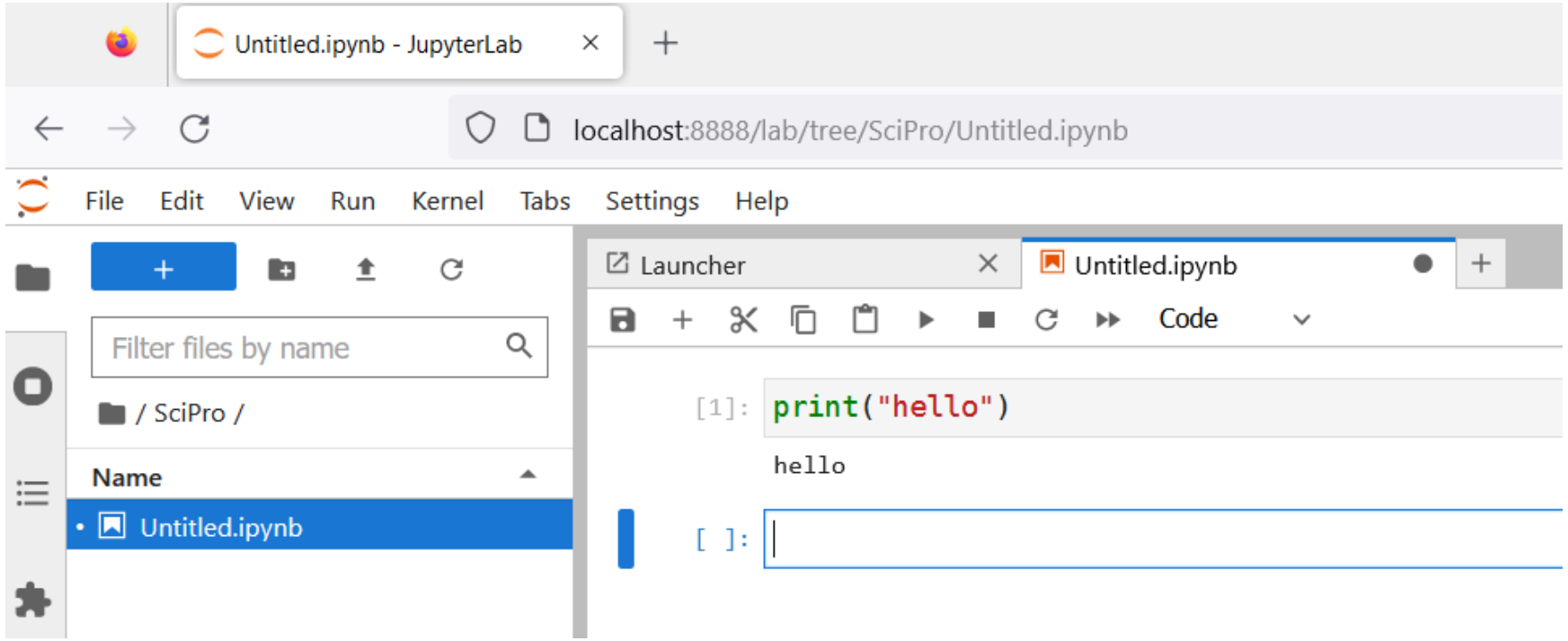


- Create a new notebook in the SciPro folder (right click in the file explorer bar and select **New Notebook**)
- Select **Python 3 (ipykernel)** kernel



Start programming python

- You are ready to enter your first Python commands



Navigaton in JupyterLab

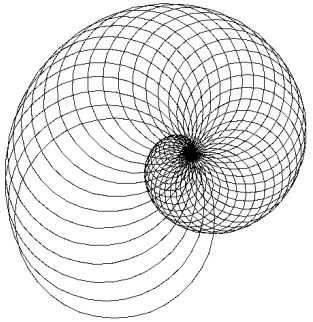
Esc	Change to command mode
Enter	Change to edit mode
Shift-Enter	Execute current cell and focus on next one
Ctrl-Enter	Execute current cell and stay there
Up/Down arrows	Move between cells (command mode)
	Move between lines in cell (edit mode)
A	Insert cell above (command mode)
B	Insert cell below (command 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)

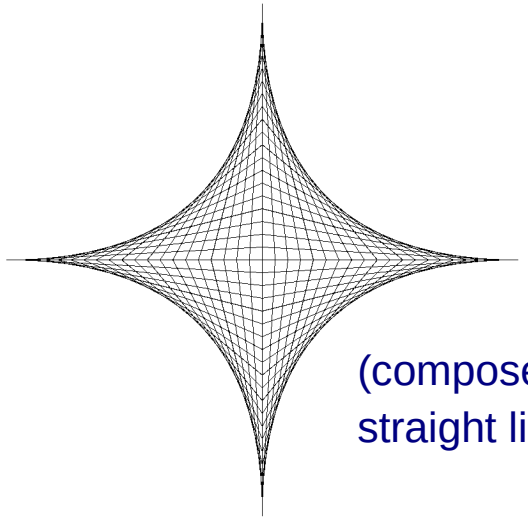
Have fun!

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)