

# 1 – First Steps with JupyterLab

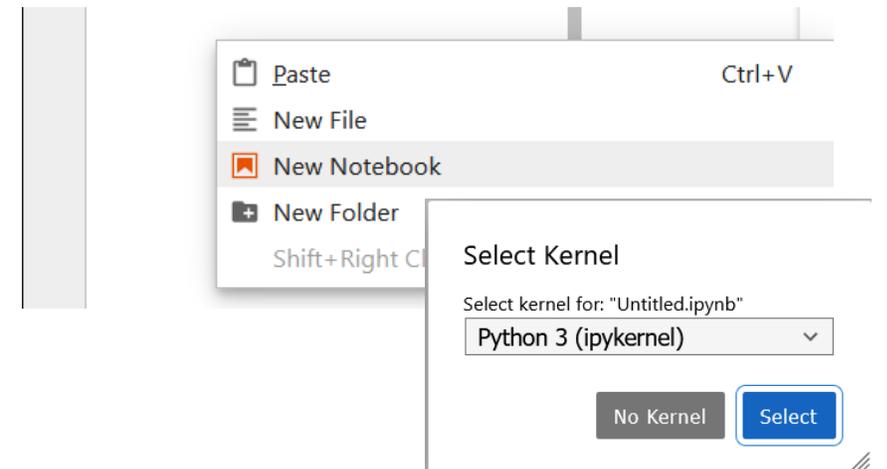
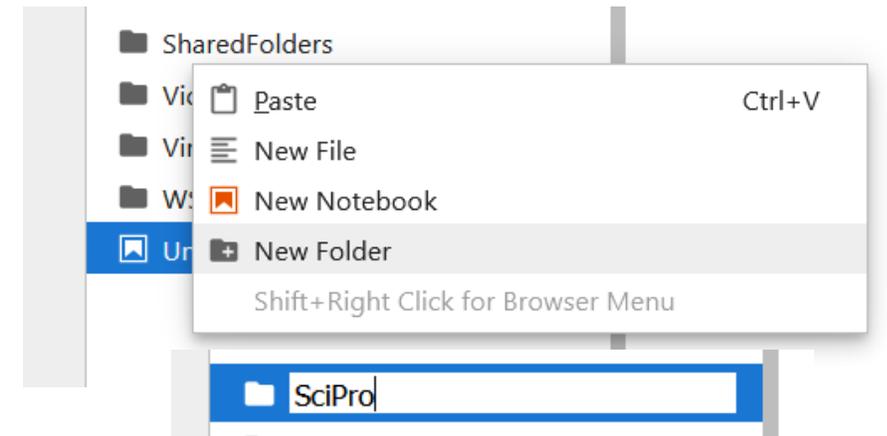
Bálint Aradi

**Scientific Programming / Wissenschaftliches Programmieren in Python (2025)**

<https://atticlectures.net/scipro/python-2025/>

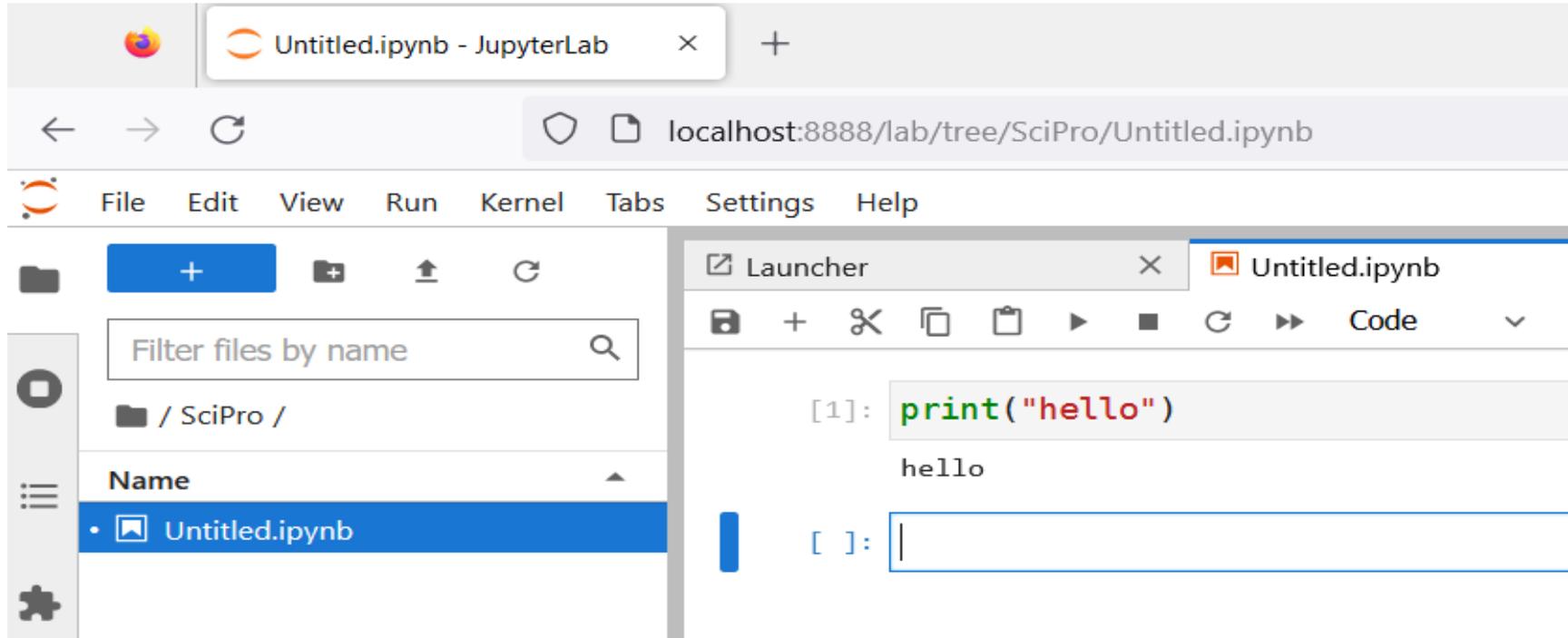
# Create a new notebook

- 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

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

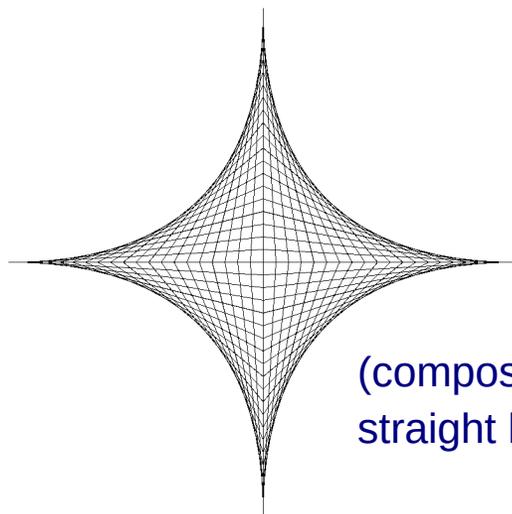
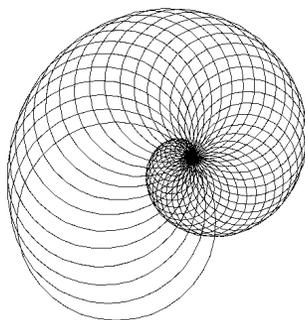
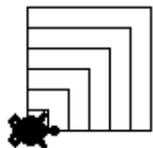
# Have fun!

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)

