

# **Effective Programming Practices for Economists**

## **Basic Python**

### **Executing notebooks in a browser**

Janoś Gabler and Hans-Martin von Gaudecker

# Preparation

- We assume you have installed anaconda and created the course environment
- Open a shell in the root directory of your project
  - On Windows, use the anaconda prompt or the powershell
  - If conda is not recognized in the powershell, check out this [stackoverflow post](#)
- Activate the environment using `conda activate epp`
- Confirm the activation worked using `conda info`

# 0. Activate and Info



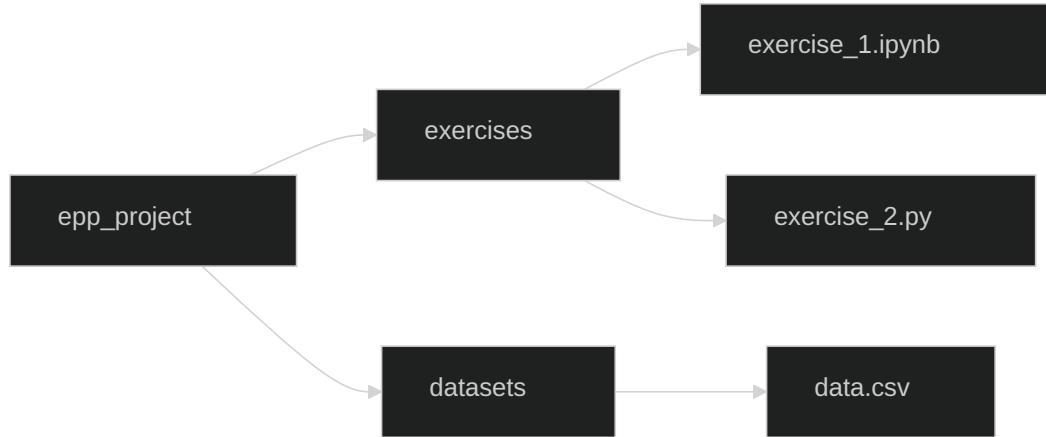
```
epp-course/python_execution_examples/epp_project via G epp
> conda activate epp

epp-course/python_execution_examples/epp_project via G epp
> conda info

  active environment : epp
    active env location : /home/janos/miniconda3/envs/epp
      shell level : 3
    user config file : /home/janos/.condarc
  populated config files : /home/janos/.condarc
    conda version : 23.7.4
  conda-build version : 3.26.1
    python version : 3.9.18.final.0
  virtual packages : __archspec=1=x86_64
                    __cuda=12.0=0
                    __glibc=2.35=0
                    __linux=6.2.0=0
                    __unix=0=0

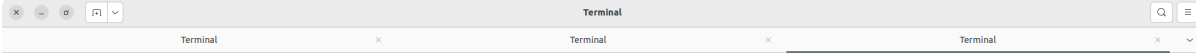
  base environment : /home/janos/miniconda3 (writable)
    conda av data dir : /home/janos/miniconda3/etc/conda
  conda av metadata url : None
    channel URLs : https://conda.anaconda.org/conda-forge/linux-64
                  https://conda.anaconda.org/conda-forge/noarch
```

# Example project structure



- Our shell is in the `epp_project` directory
- We want to run `exercise_2.ipynb` in the browser
- Command is `jupyter notebook`

# 1. Start Notebook



```
epp-course/python_execution_examples/epp_project via G epp
> jupyter notebook
[I 2023-09-21 17:11:11.198 LabApp] JupyterLab extension loaded from /home/janos/miniconda3/envs/epp/lib/python3.10/site-packages/jupyterlab
[I 2023-09-21 17:11:11.198 LabApp] JupyterLab application directory is /home/janos/miniconda3/envs/epp/share/jupyter/lab
[I 17:11:11.201 NotebookApp] Serving notebooks from local directory: /home/janos/Dropbox/epp-course/python_execution_examples/epp_project
[I 17:11:11.201 NotebookApp] Jupyter Notebook 6.5.2 is running at:
[I 17:11:11.201 NotebookApp] http://localhost:8888/?token=b642c34975f4d2072b23122b043305402612927a46798691
[I 17:11:11.201 NotebookApp] or http://127.0.0.1:8888/?token=b642c34975f4d2072b23122b043305402612927a46798691
[I 17:11:11.201 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 17:11:11.214 NotebookApp]

To access the notebook, open this file in a browser:
    file:///home/janos/.local/share/jupyter/runtime/nbserver-122618-open.html
Or copy and paste one of these URLs:
    http://localhost:8888/?token=b642c34975f4d2072b23122b043305402612927a46798691
    or http://127.0.0.1:8888/?token=b642c34975f4d2072b23122b043305402612927a46798691
^[[1;3A
```

## 2. Landing Page



# 3. Click on Folder



localhost:8888/notebooks/exercises/exercise\_2.ipynb

# 4. Work in the Notebook

