

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

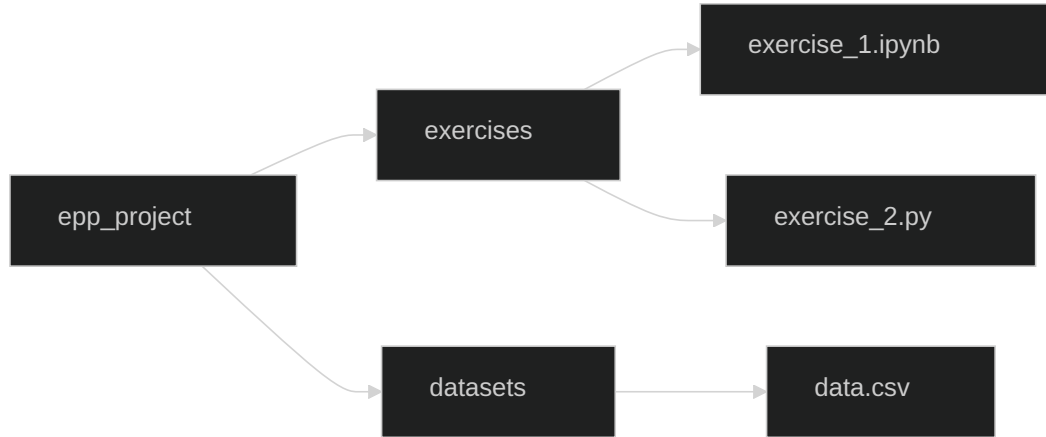


```
epp-course/python_execution_examples/epp_project via G epp
> conda activate epp

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

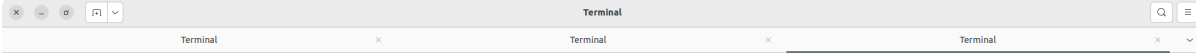
active environment : epp
active env location : /home/janos/miniconda3/envs/epp
shell level : 3
user config file : /home/janos/.condarc
populated config files : /home/janos/.condarc
conda version : 23.7.4
conda-build version : 3.26.1
python version : 3.9.18.final.0
virtual packages : __archspec=1=x86_64
                  __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/exercices/exercise_2.ipynb

4. Work in the Notebook

