

Effective Programming Practices for Economists

Basic Python

Executing notebooks in a browser

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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



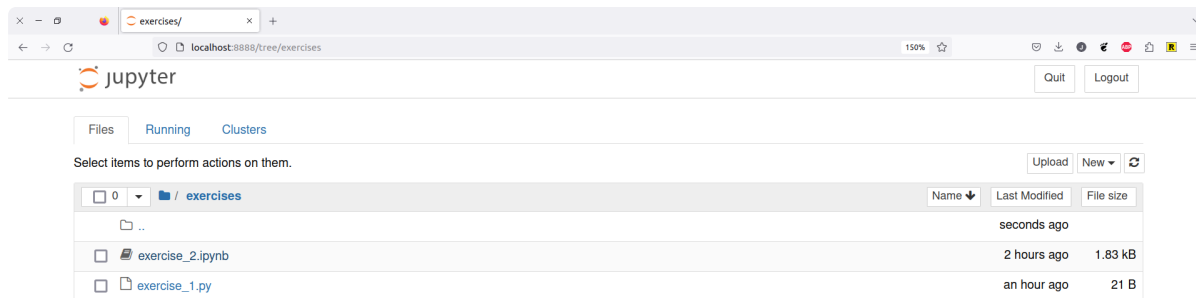
```
epp-course/python_execution_examples/epp_project via G epp
> jupyter notebook
[I 2023-09-21 17:11:11.198 LabApp] JupyterLab extension loaded from /home/janos/miniconda3/envs
/epp/lib/python3.10/site-packages/jupyterlab
[I 2023-09-21 17:11:11.198 LabApp] JupyterLab application directory is /home/janos/miniconda3/e
nvs/epp/share/jupyter/lab
[I 17:11:11.201 NotebookApp] Serving notebooks from local directory: /home/janos/Dropbox/epp-co
urse/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=b642c34975f4d2072b23122b0433054026129
27a46798691
[I 17:11:11.201 NotebookApp] or http://127.0.0.1:8888/?token=b642c34975f4d2072b23122b043305402
612927a46798691
[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



The screenshot shows the JupyterLab web interface in a browser window. The address bar indicates the URL is `localhost:8888/tree/exercises`. The JupyterLab logo is visible in the top left, and 'Quit' and 'Logout' buttons are in the top right. Below the header, there are tabs for 'Files', 'Running', and 'Clusters'. The 'Files' tab is active, displaying a message: 'Select items to perform actions on them.' To the right of this message are buttons for 'Upload', 'New', and a refresh icon. Below this is a table listing the contents of the 'exercises' folder.

	Name	Last Modified	File size
<input type="checkbox"/>	..	seconds ago	
<input type="checkbox"/>	exercise_2.ipynb	2 hours ago	1.83 kB
<input type="checkbox"/>	exercise_1.py	an hour ago	21 B

localhost:8888/notebooks/exercises/exercise_2.ipynb

4. Work in the Notebook

