

Effective Programming Practices for Economists

Basic Python

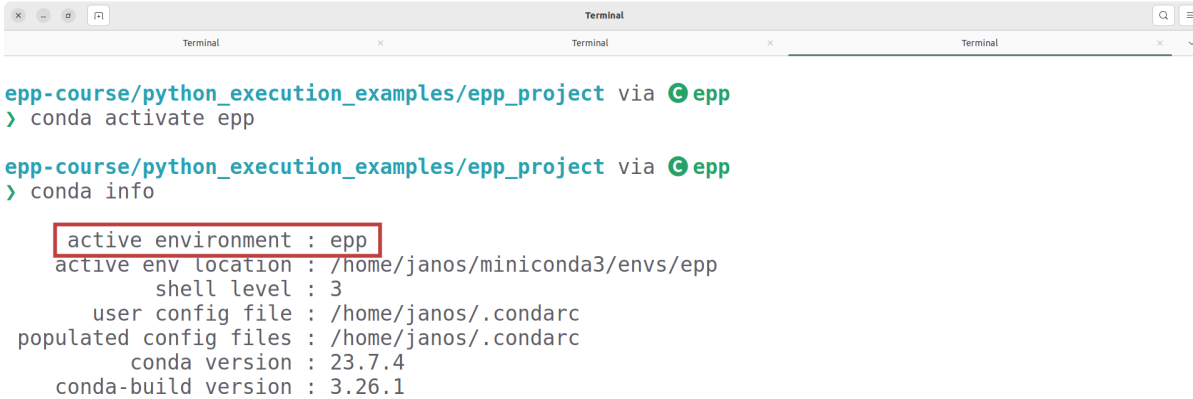
Executing notebooks in a browser

Janoš 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

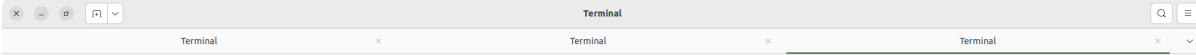
  base environment : /home/janos/miniconda3 (writable)
  conda av data dir : /home/janos/miniconda3/etc/conda
  conda av metadata url : None
  channel URLs : https://conda.anaconda.org/conda-forge/linux-64
                https://conda.anaconda.org/conda-forge/noarch
```

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



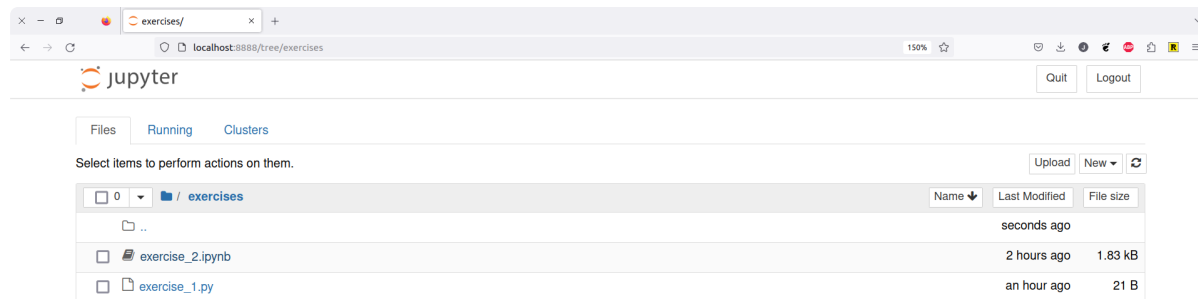
```
epp-course/python_execution_examples/epp_project via G epp
> jupyter notebook
[I 2023-09-21 17:11:11.198 LabApp] JupyterLab extension loaded from /home/janos/miniconda3/envs/
/epp/lib/python3.10/site-packages/jupyterlab
[I 2023-09-21 17:11:11.198 LabApp] JupyterLab application directory is /home/janos/miniconda3/e
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 a web browser window with the address bar at `localhost:8888/tree/exercises`. The JupyterLab interface has tabs for "Files", "Running", and "Clusters", with "Files" selected. Below the tabs, there's a prompt "Select items to perform actions on them." and buttons for "Upload", "New", and a refresh icon. A file browser table is displayed with the following content:

<input type="checkbox"/> 0	exercises	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

