

Effective Programming Practices for Economists

Basic Python

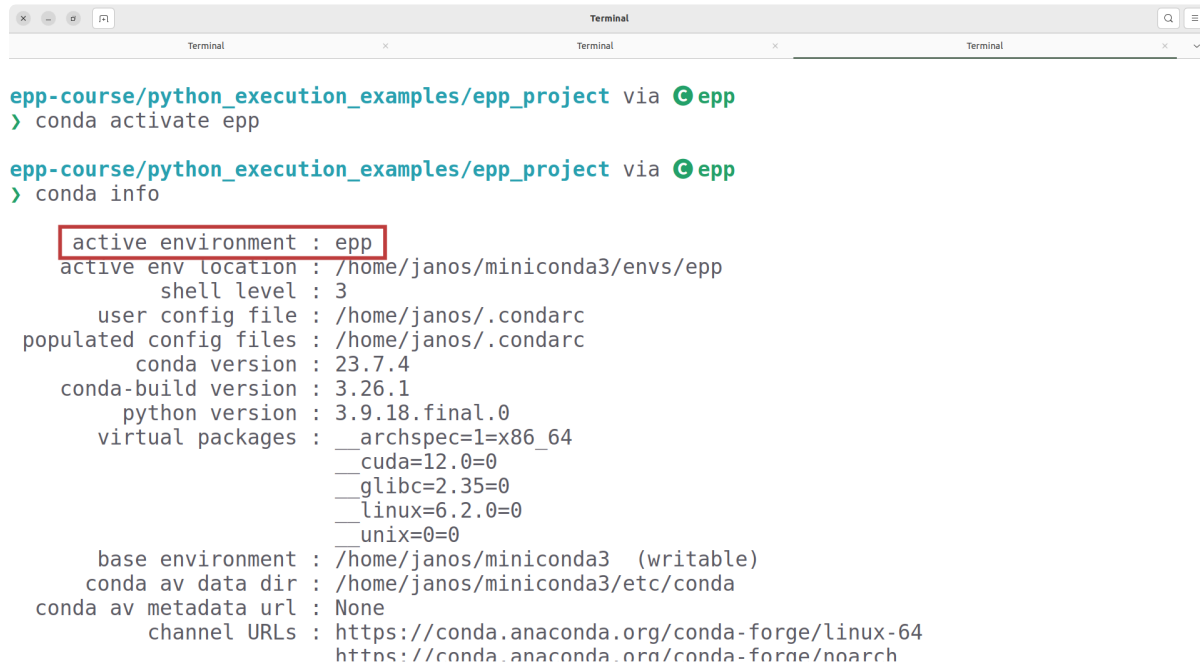
Executing notebooks in a browser


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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  epp
> conda activate epp

epp-course/python_execution_examples/epp_project via  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

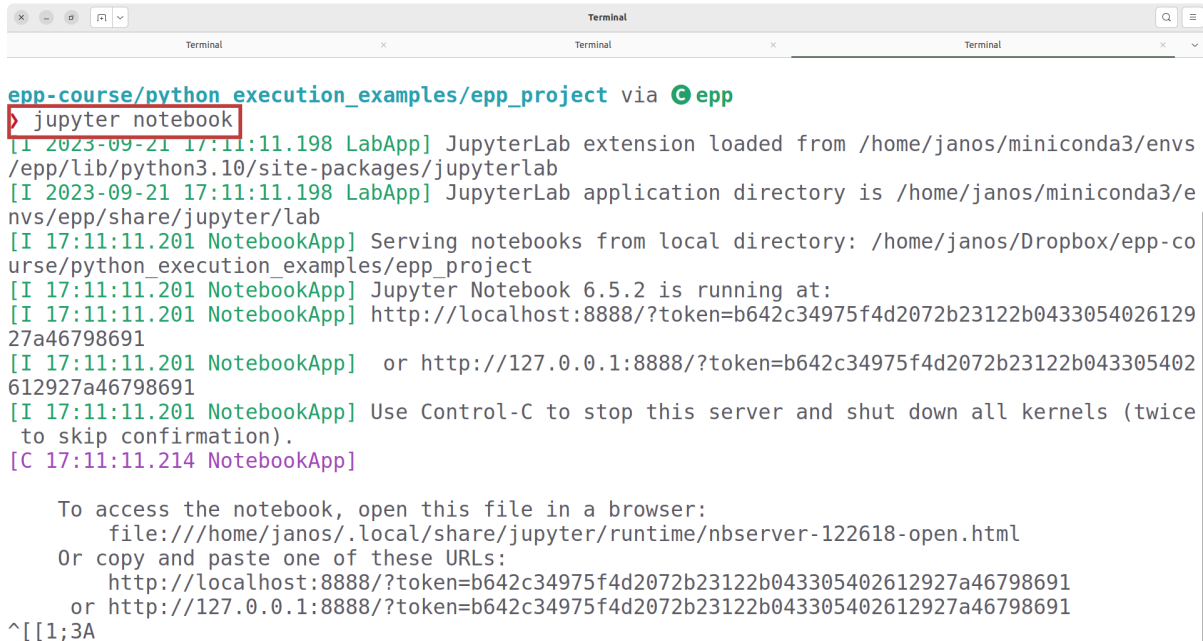
  base environment  : /home/janos/miniconda3 (writable)
  conda av data dir  : /home/janos/miniconda3/etc/conda
  conda av metadata url : None
  channel URLs       : https://conda.anaconda.org/conda-forge/linux-64
                     https://conda.anaconda.org/conda-forge/noarch
```

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 @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 JupyterLab interface. The address bar shows the URL `localhost:8888/tree/exercises`. The JupyterLab header includes the Jupyter logo, the text "jupyter", and buttons for "Quit" and "Logout". 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." and buttons for "Upload", "New", and a refresh icon. A file browser table is shown with the following data:

	Name	Last Modified	File size
<input type="checkbox"/> 0	exercises		
<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

