20-jupyter

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1 Jupyter

Jupyter Notebook is an app that runs on the browser for editing and running *notebook documents*. According to jupyter's website:

> Notebook documents (or "notebooks", all lower case) are documents produced by the Jupyter Notebook App, which contain both computer code (e.g. python) and rich text elements (paragraph, equations, figures, links, etc.). Notebook documents are both human-readable documents containing the analysis description and the results (figures, tables, etc.) as well as executable documents which can be run to perform data analysis,

Even though it runs on the browser, it is not on the internet!

Jupyter is part of the Anaconda package, so you probably have it already on your computer. Go to the Anacondau launcher, find jupyter, and click to open it [1]. This should open a new tab on your browser. (If this does not work, go to the course staff.)

The tab that just opened has the notebook's dashboard, and contains a list of files in a folder in your computer [2]. This folder is, most likley, your user folder. You can navigate your files from this folder down, by following other folders in the dashboard. On the upper left corner there is a "New" button with an arrow down. Clicking on it gives you some options:

- Python3: creates a new notebook
- Text file: creates a new text file (no formatting, only text, like a .txt or .csv file)
- Folder: creates a new folder
- Terminal: why don't you try clicking on it?

Note that notebooks, text files, and folders will be created on the directory that is on jupyter's dashboard. You can open that same directory on your file navigator (explorer on Windows and finder on MacOS) to see your new file or folder there.

You will need to have Jupyter installed for the final course project.

Check this notebook that explaing some of the basic elements of jupyter notebook.

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[1] If this opens a terminal (a window with a black screen), you might need to leave it open for jupyter to work.

[2] Your computer's files are organized in a tree-like structure, with one root folder (usually `C:` or `/`) and folders and files inside folders. When working with jupyter, python, and files, it is important to know how this works and where your files are exactly!