

Project 2 - Jupyter notebooks

Choose at least 2 ways to run a Jupyter notebook

In the class we discussed three different ways to run a Jupyter notebook:

- Choice 1: Run it in Visual Studio Code.
- Choice 2: Run it from the command line, with the jupyter program.
- Choice 3: Run it in Google Colab

For choices 1 and 2 you will also need to install Python on your computer, as well as learn how to install Python libraries.

State which are the 2 choices you chose.

Run the “Using notebooks” notebook in the two choices

- Make sure that all the cells of the notebook run correctly.
- Note that this requires you to set up and debug your environment
- For the local choices (1 and 2) you need to have a correctly set up Python environment, as well as the necessary libraries (for instance matplotlib)
- For the remote choice (3) you need to learn how to upload files (for instance, the picture of the bunny).

Modify the notebooks

Modify the notebooks in the following way:

- Change the statement about printing whether “a” is bigger than two to check whether it is smaller than seven.
- Change the display of the pictures to display the picture of a cat.
- Change the values for the line plot to look some values that have the shape of a letter “U”

How to use chatbots

For this assignment, you can use chatbots to help you in the computer configuration and debugging. For instance, you might ask you chatbot:

Why I am getting an error XXX in vscode?

How do I install Python on a Windows 11 machine and connect it to vscode?

How do I print to pdf in Google Colab?

Alternatively, you can just search for answers on the internet.

What to submit

Submit the following values:

- A markdown file called Submission.md (edit it with vscode), in which you explain:
 - Which choices you choose
 - How did you use chatbots if any (and which chatbots you used)
- The results of the run for your first choice, printed to a pdf file called “Choice-A.pdf”
- The results of the run of your second choice, printed to a pdf file called “Choice-B.pdf”

Bonus: for 3 or 6 points

- For extra 3 points, repeat the running on the third choice as well.
- For an additional 3 points, repeat the running of the notebook on an additional cloud service, which was not covered in class (you can search on the internet or ask a chatbot about cloud services that support jupyter notebooks).