How to run Jupyter Notebooks in VSCode

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Prepare the environment

1. Using anaconda prompt create a new environment, for example:

   conda create -n gps

2. Activate the environment, for example:

   conda activate gps

3. Confirm the prompt now shows the name of your environment

4. Using the conda-forge channel, install the `ipykernel` package that is necessary to run notebooks

   conda install -c conda-forge ipykernel

5. Install any other packages listed on the `requirements.txt` file, also using the conda-forge channel

   conda install -c conda-forge

Load the project folder into VSCode

From anaconda prompt

Assuming that, during VS Code installation, you used the default option to add VSCode to the PATH variable, you can open the project doing the following steps:

1. if not done already, activate the environment:

   conda activate gps

2. Use the `cd` command to navigate to the project folder, for example, if you are in your user folder, and the contents downloaded from moodle are in a folder named GPS, you would need to do this:

   cd GPS [Enter] cd 02-introduction-to-python [Enter]

3. Launch Vscode from that environment and folder, opening that folder

   code .

You are done, you can open the ipynb file and run it

Opening from outside

1. Open VS Code using windows start menu
2. Go to File > Open Folder menu
3. Select the `02-introduction-to-python` folder and click `Open`
4. In the explorer tab select and a Python file, for example the `hello_world.py`
5. On the bottom-right corner, there should be a button asking you to choose you python version, make sure to select the one with your environemnt name, something like 3.11 (gps:conda)
6. Now, in the explorer, select the ipynb file.
7. In the top right corner of the screen it should show something like `gps (python 3.11)`

You are done, you can now run the ipynb file