Exercise 1

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1 Basic setup

Several options are here proposed. I use the combination Miniconda + Py-Charm.

1.1 Python Installation

Recommended: Install python using Anaconda (or Miniconda if you want something lighter)

Alternatively: install Python from scratch. Make sure you also install pip, the package installer for Python.

1.2 IDE

Recommended: Download and Install PyCharm Professional after applied for a free licence. Note: If you have installed Anaconda you can use Py-Charm with Anaconda Navigator

An alternative: Install Spyder. Spyder is also pre-installed in Anaconda Navigator

An alternative: Propose your favorite IDE to me and/or the TAs: We will check if we have some recommendations.

1.3 Online tools

- Make sure you can use Google Colab with a Google Account. If you do not have a Google account, create it

- Create an account on Kaggle.

1.4 Packages installations

- Learn how to install packages using conda or pip

2 You first exercise in Python

After having a working setting install NumPy, Matplotlib and PyTorch (of-fline). Be sure to use the proper installation rules according to your setup. After that:

1. Download the notebook 01_ex.ipyn

2. Open it locally with your editor. Install some plug-ins if needed.

3. Learn how to upload a Notebook both in Colab and Kaggle. Then choose either one of the two editors or the IDE you have installed.

4. Learn about shortcuts for jupyter notebook

5. Solve all the requests of the notebook.