

Unstructured Data Analysis

Setting up Anaconda Python, Jupyter, and spaCy

Spring 2025

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Preface

Anaconda Python can be installed on your local machine. You are expected to work on your local machine for homework, although HW3 will also use Google Colab. It is your responsibility to make sure your code runs in a Linux environment (on Windows, there are a few ways to do this such as using “Bash on Ubuntu on Windows”, cygwin, or running a Linux virtual machine within Windows).

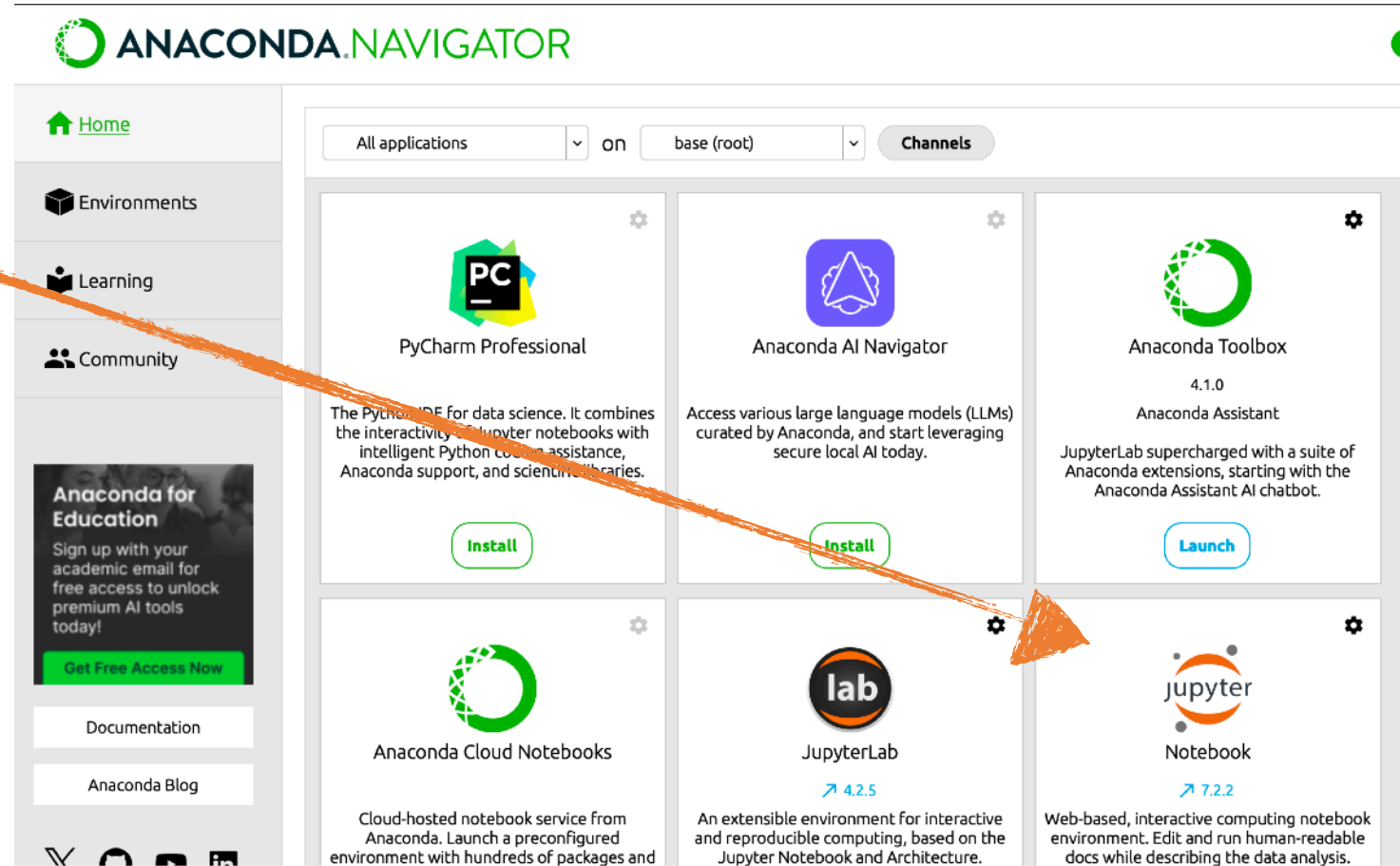
Set up your local machine

Download & install Anaconda for Python 3 for your OS

<https://www.anaconda.com/download>

Set up your local machine

- Open Anaconda Navigator
- Launch Jupyter notebook



Run Jupyter notebook

- If you see this... Jupyter setup completed!!



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- Jupyter notebook lets you share your code and its result
- You can also use markdown language

Upload notebook

- Click Upload and select *.ipynb file



 jupyter

File View Settings Help

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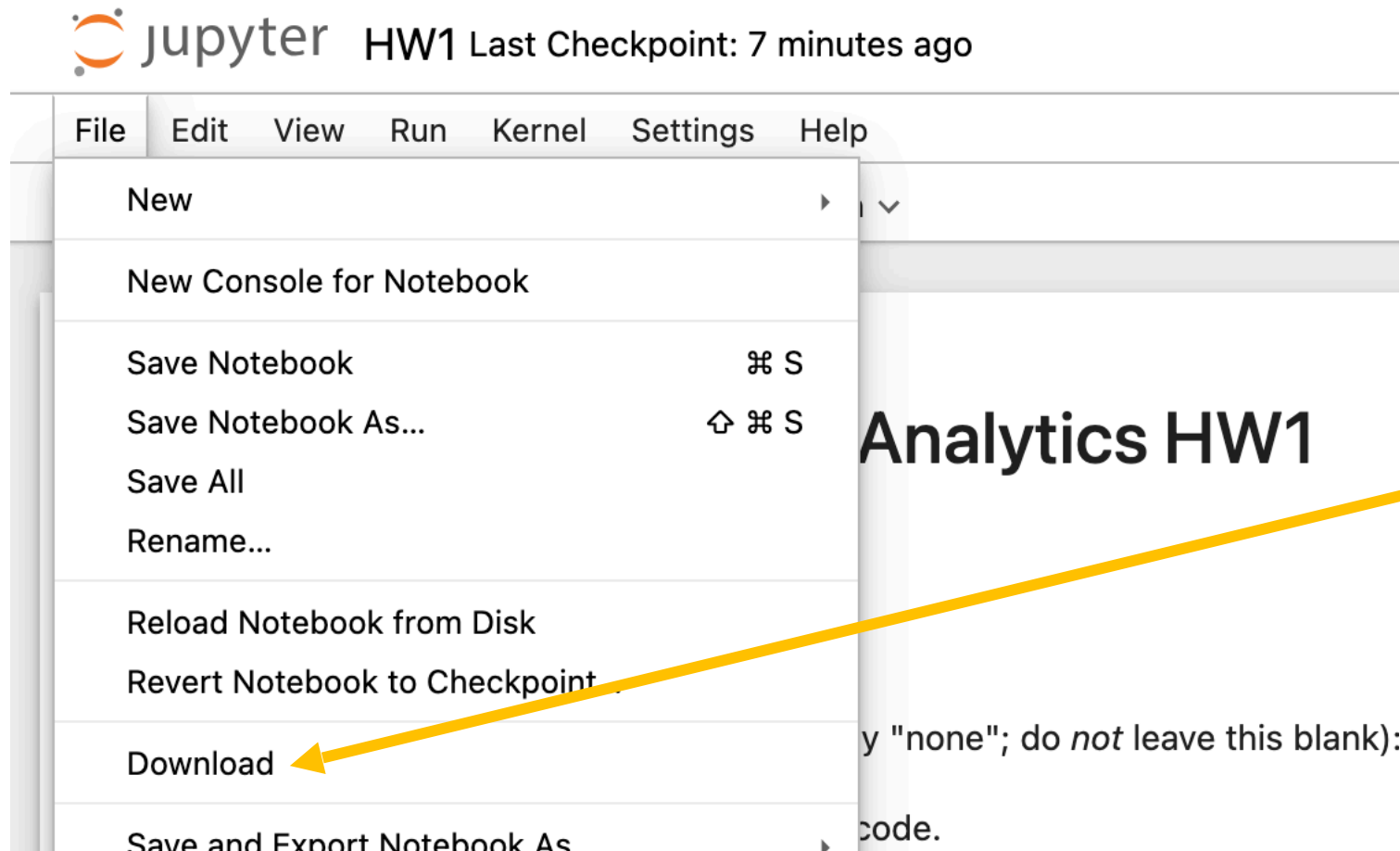
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- Uploaded file will appear on the list below
- Click the file to open

Download IPython notebook

- File > Download (this should download your notebook as a “.ipynb” file)



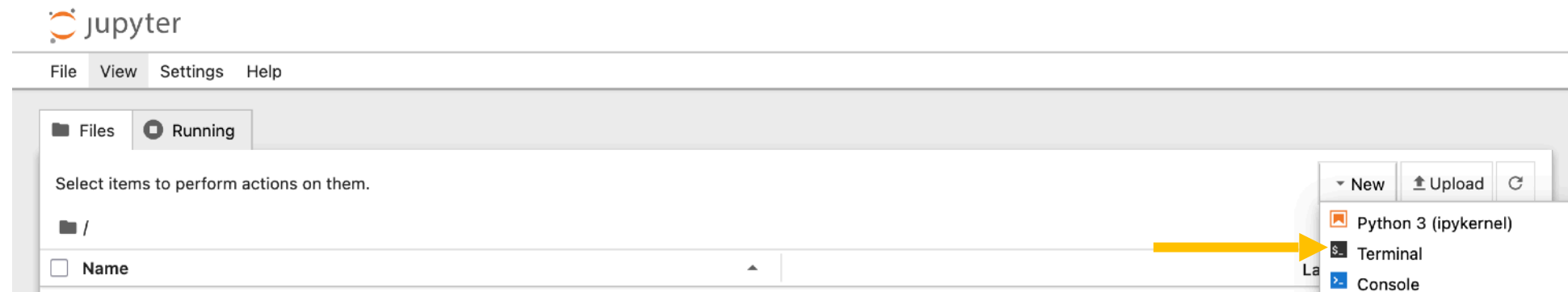
Python package installation

Use **pip** or **conda**

- Using **pip** or **conda** makes installation (and uninstallation) straightforward (and if the installation fails, it will typically do so gracefully without screwing up any other packages)
- Note that many basic packages such as **numpy**, **scipy**, **scikit-learn** (**sklearn**), and **nltk** are already included with Anaconda, so you do not have to try to separately install them
- Before installing a package, refer to the official documentation

Install spaCy (if you are NOT using Apple Silicon i.e., Apple M1/M2/M3/M4/etc)

- Open Jupyter notebook
- Click New > Terminal

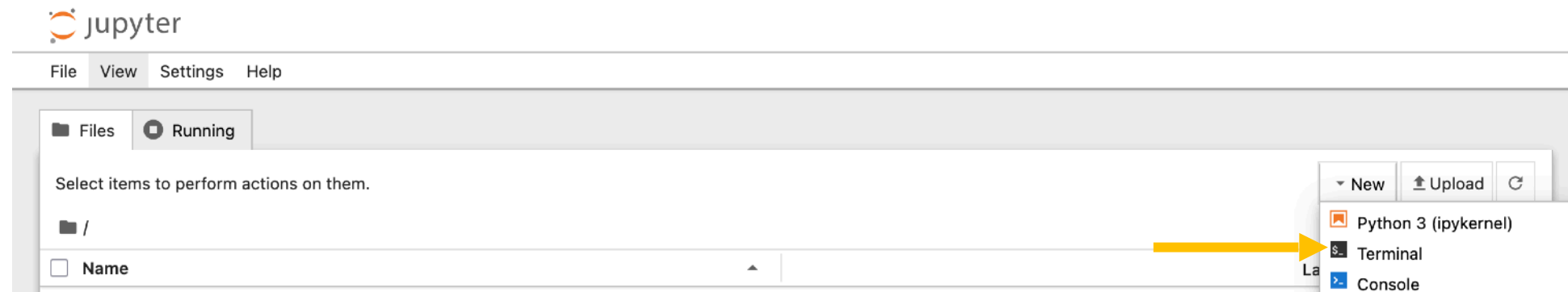


- Type the following lines of code if you are **not** using Apple Silicon

```
pip install -U pip setuptools wheel
pip install -U spacy
pip install numpy==1.26.4 pyyaml
python -m spacy download en_core_web_sm
```

Install spaCy (if you are using Apple Silicon i.e., Apple M1/M2/M3/M4/etc)

- Open Jupyter notebook
- Click New > Terminal



- Type the following lines of code if you are using Apple Silicon

```
pip install -U pip setuptools wheel
pip install -U 'spacy[apple]'
pip install numpy==1.26.4 pyyaml
python -m spacy download en_core_web_sm
```