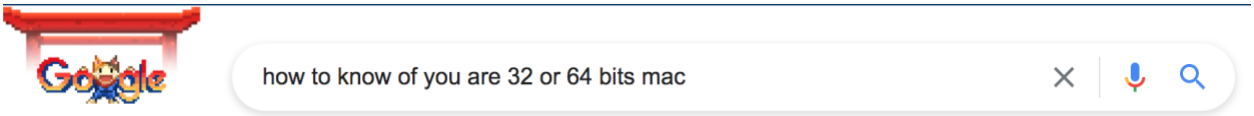
This documents have instructions to install Anaconda on your own personal laptop or desktop computer, then verify that IPython/Jupyter Notebook is working.

Anaconda

1. Download the Anaconda installer for Python 3.7 (if you do not have any installed) from https://www.anaconda.com/products/individual
2. download the correct installer for your operating system (Windows, Mac, Linux, etc) and architecture (32 or 64 bit). If you don't know if your operating system is 32 or 64 bit, Google for how to check it. And make sure you download the installer for Python 3.7

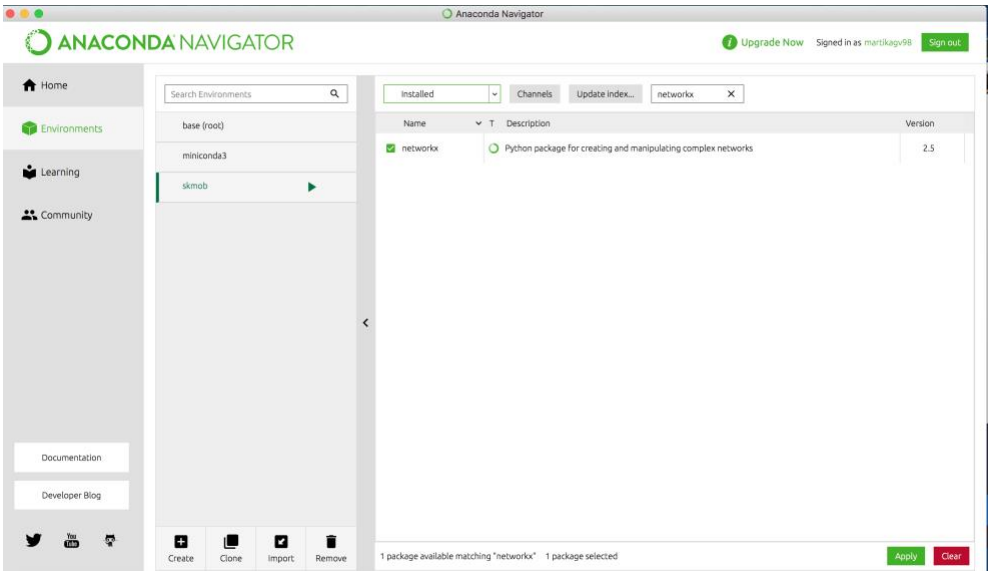


3. Run the Anaconda installer.

NetworkX: This is package to do network analysis. See here: https://networkx.github.io/, this

1. In the terminal run: conda install -c anaconda networkx

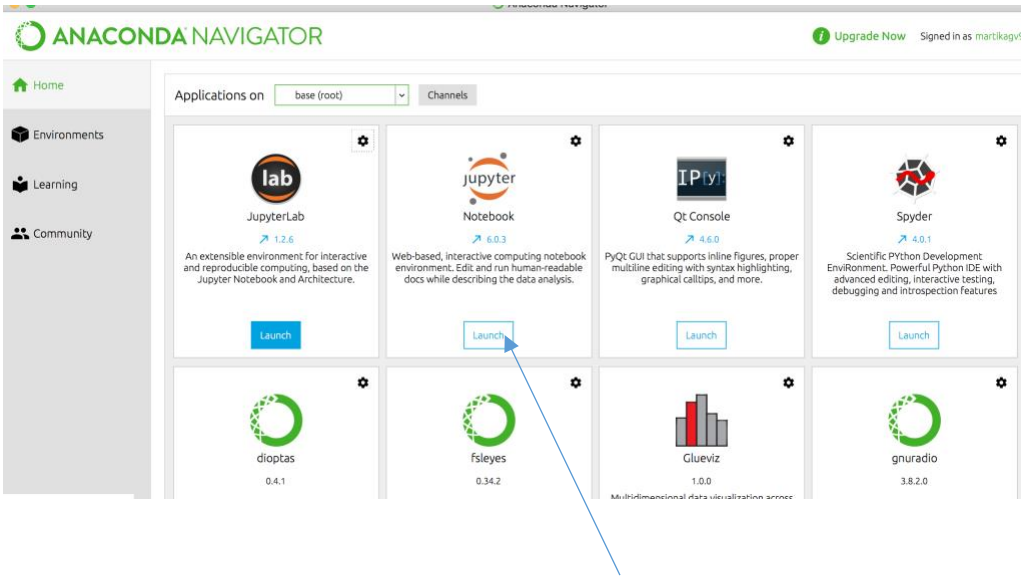
Or

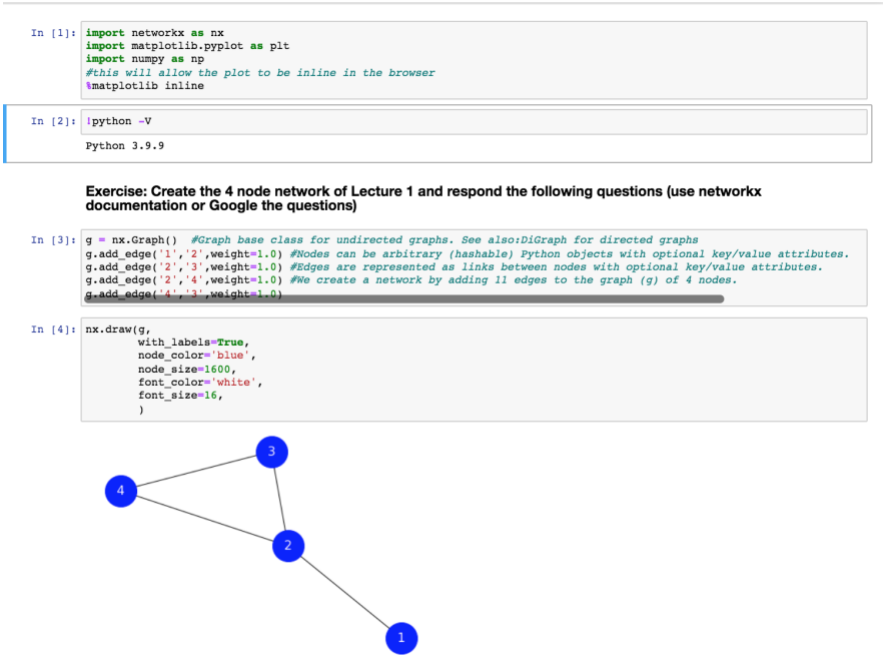


2. Run: jupyter notebook MyFirstNetwork_Exercise-woSoln.ipynb

```
(base) martagolezsmbp3:Lecture1 marta$ jupyter notebooks MyFirstNetwork_Exercise-woSoln.ipynb
```

Or





```
In [1]: import networkx as nx
        import matplotlib.pyplot as plt
        import numpy as np
        #this will allow the plot to be inline in the browser
        %matplotlib inline

In [2]: !python -V

        Python 3.9.9
```

Exercise: Create the 4 node network of Lecture 1 and respond the following questions (use networkx documentation or Google the questions)

```
In [3]: g = nx.Graph()  #Graph base class for undirected graphs. See also:DiGraph for directed graphs
        g.add_edge('1','2',weight=1.0) #Nodes can be arbitrary (hashable) Python objects with optional key/value attributes.
        g.add_edge('2','3',weight=1.0) #Edges are represented as links between nodes with optional key/value attributes.
        g.add_edge('2','4',weight=1.0) #We create a network by adding 11 edges to the graph (g) of 4 nodes.
        g.add_edge('4','3',weight=1.0)

In [4]: nx.draw(g,
                with_labels=True,
                node_color='blue',
                node_size=1600,
                font_color='white',
                font_size=16,
                )
```


In Windows:

Whenever you open a Windows Explorer folder, you'll see an address bar similar to that in a web browser. By default, it shows the path of the current folder. In this address bar, you can enter in text and navigate to other directories manually. Once you've entered your specific folder with Windows Explorer, you can simply press ALT + D, type in `cmd` and press Enter. You can then type `jupyter notebook` to launch Jupyter Notebook within that specific folder.

See here: https://towardsdatascience.com/how-to-launch-jupyter-notebook-quickly-26e500ad4560