Installing Anaconda and PyCharm

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Outline

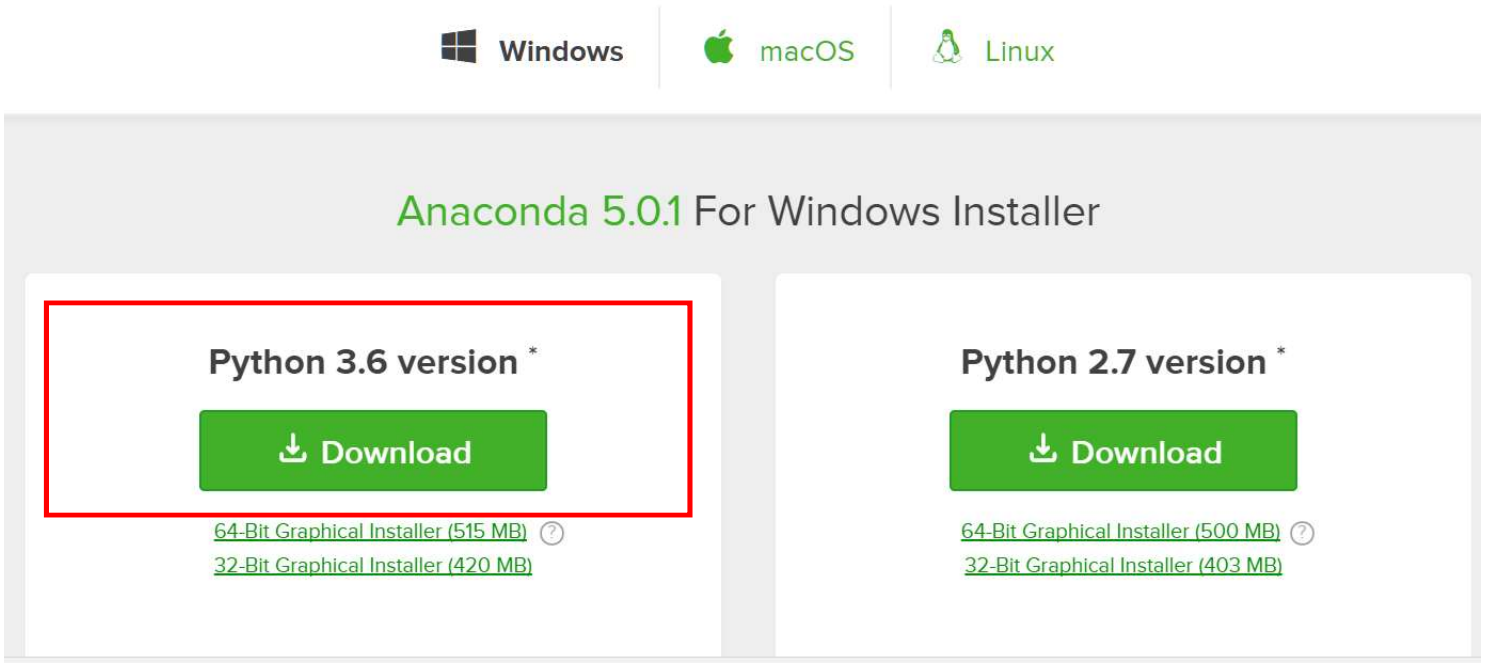
1. Download and Install Anaconda
2. Download and Install PyCharm
3. Linking Anaconda to PyCharm
4. Testing a Python Program

If you have a mac, make sure to download the macOS installer for both programs

Installing Anaconda

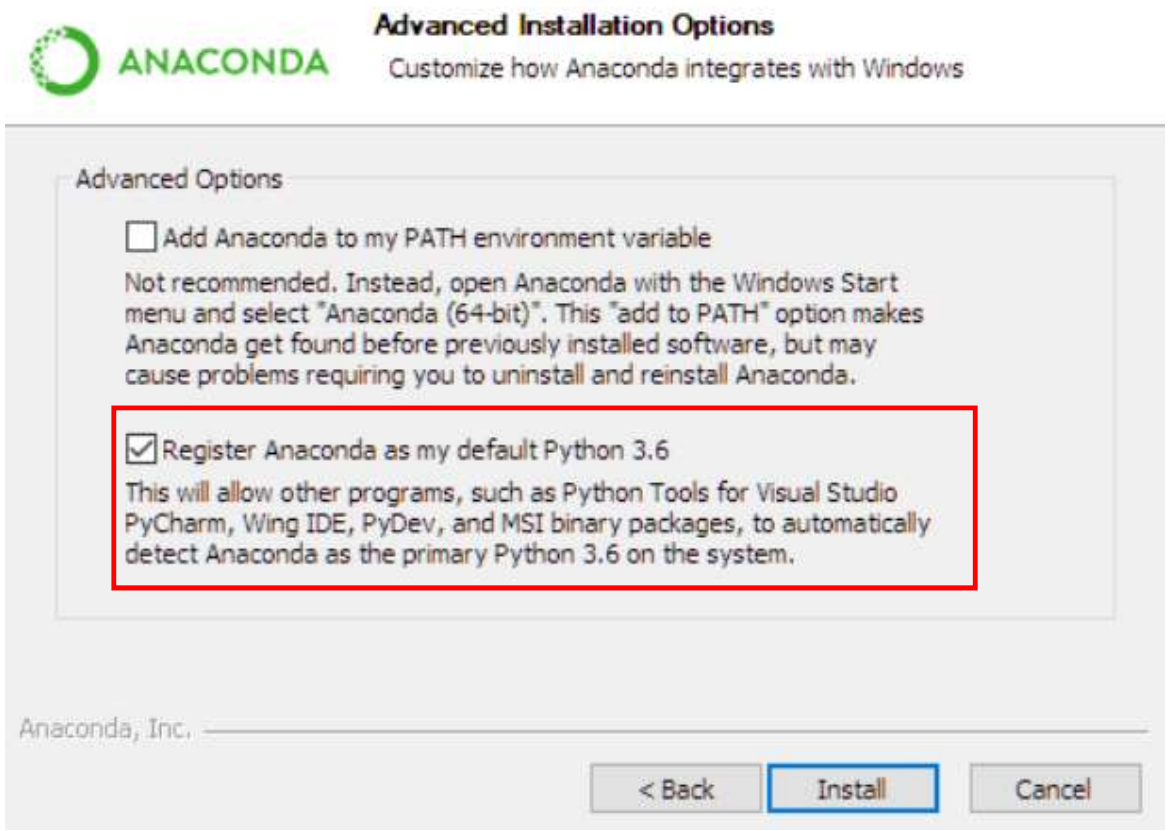
Downloading Anaconda [Windows]

- https://www.anaconda.com/download/
  - Make sure you download Python 3.X



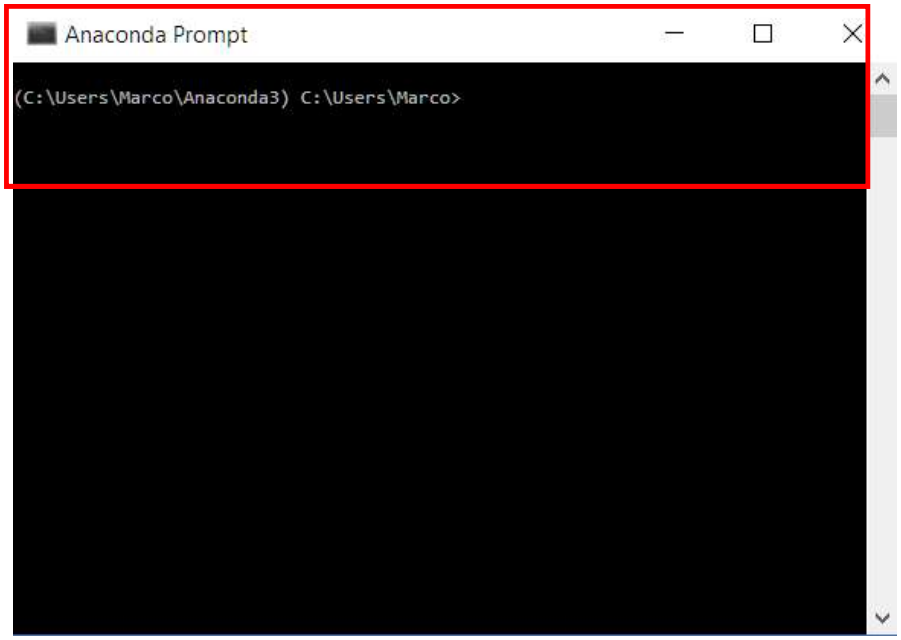
Installing Anaconda

Registering as the default Python will make it easier to link Anaconda and PyCharm



Installing Packages in Anaconda

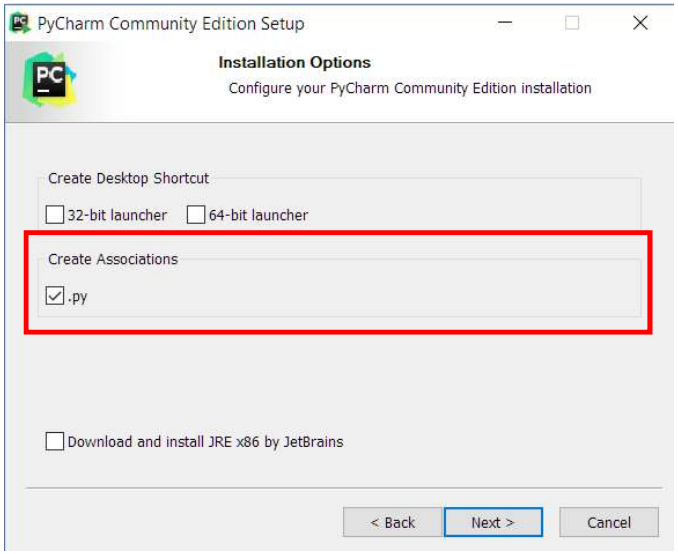
- Go to the “Anaconda Prompt”
  - On Mac it is “Terminal”
- pip install [your package name]
  - Anaconda comes with most useful packages already installed
  - As a test, you can try “pip install pandas”



Installing PyCharm

Downloading/Installing PyCharm

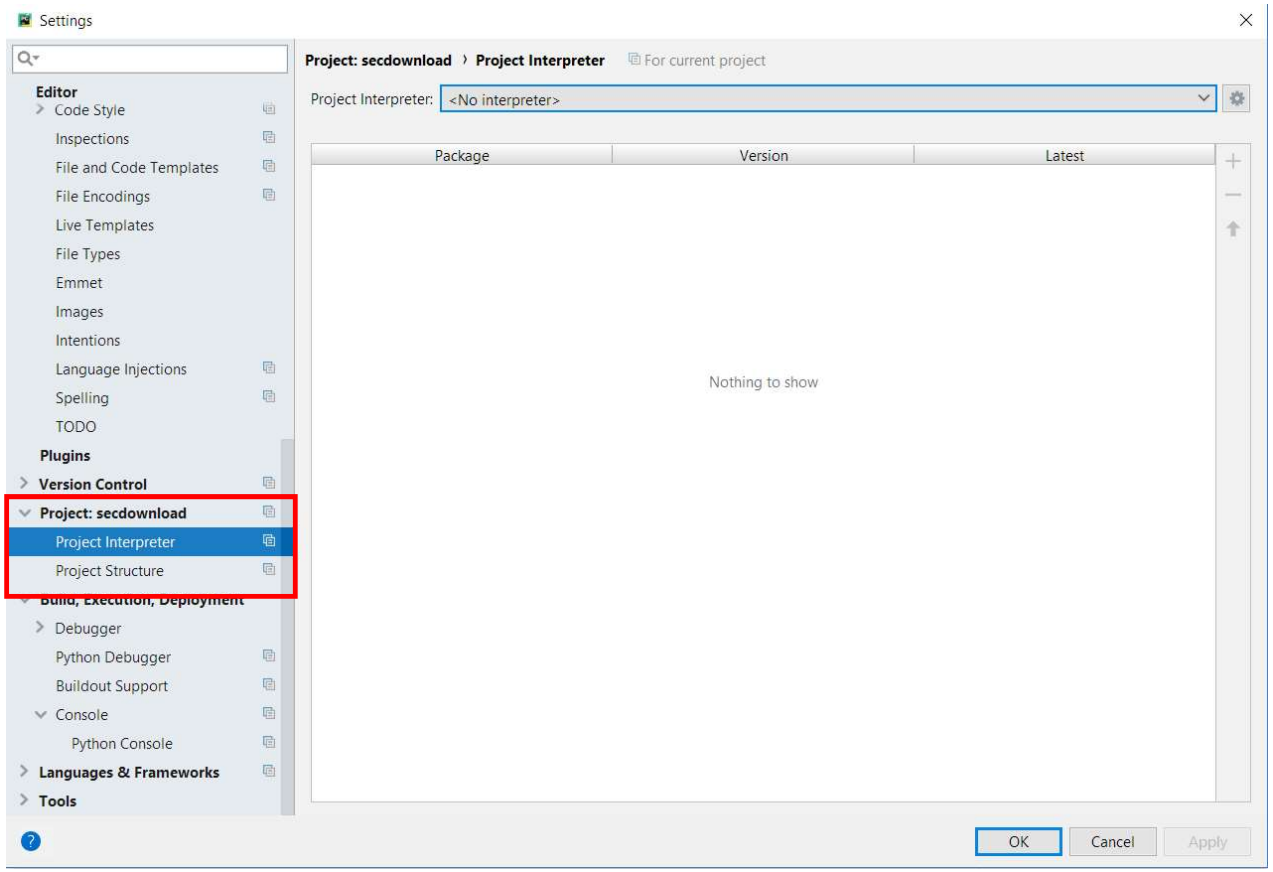
- https://www.jetbrains.com/pycharm/download/#section=windows
- Download the community edition, and associate it with .py files



Linking Anaconda to PyCharm

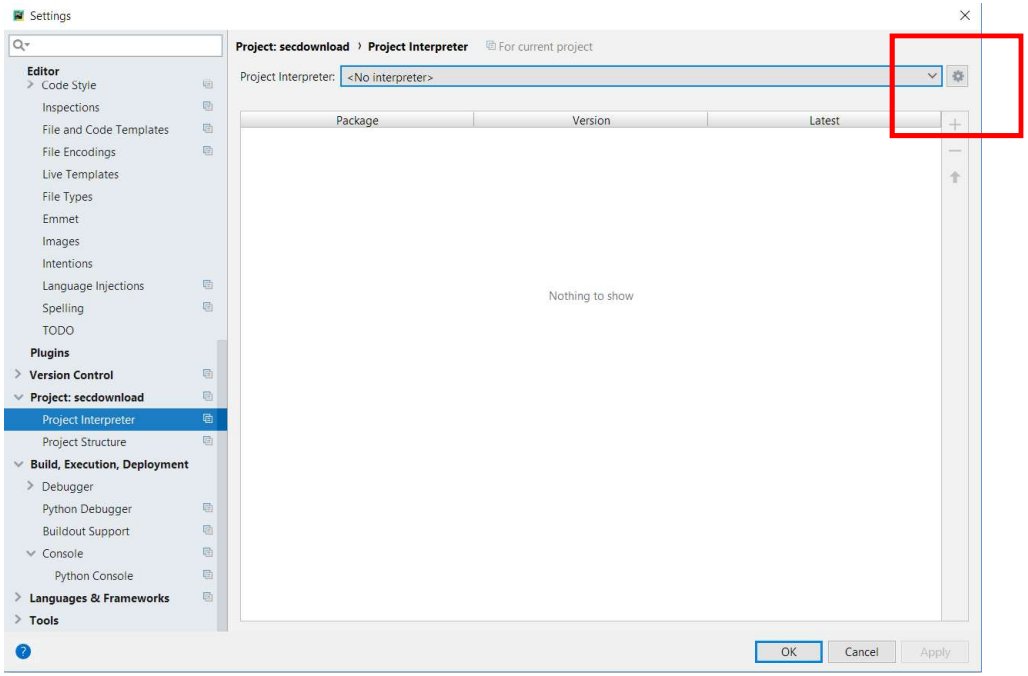
Configuring Interpreter

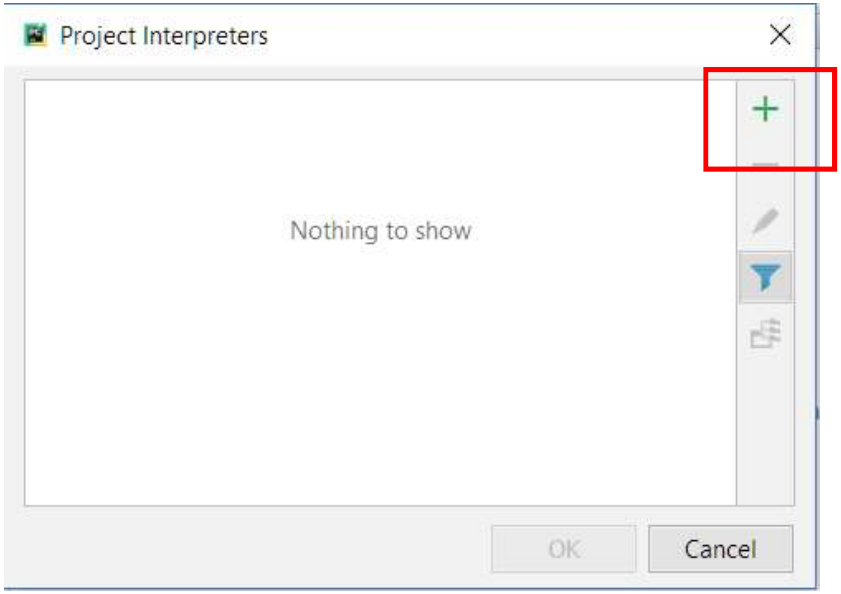
- If you try to run a python file for the first time, PyCharm may throw an error
- This is likely because the Python interpreter is not configured
- Go to:
  - Settings
    - Project Interpreter



Configuring Interpreter

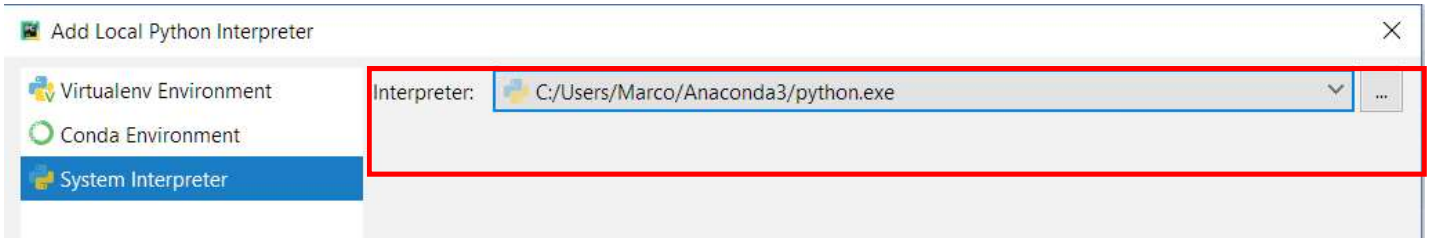
- Once you are at the Project Interpreter screen, click the gear icon in the top right corner to bring up the interpreters window
  - Then hit the plus sign to add a new interpreter



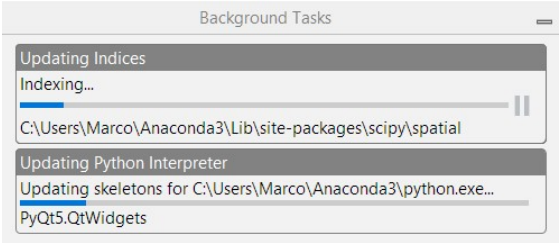


Add System Interpreter from Anaconda

- Go to the System Interpreter tab, and select Anaconda3 as the base interpreter – *this will make it easier to install packages than using the virtual environment*



- Wait for the Background Tasks to Complete before running a program



Testing a Python Program testriskfactors.py

1) Check packages
2) Run program

Packages/Dependencies

- Packages not yet installed will be underlined in red by PyCharm

```
from bs4 import BeautifulSoup
```

- For any package underlined in red, go to the Anaconda prompt and type:
  - "*pip install [your package name]*"
  - In the example above, you would type "*pip install bs4*"

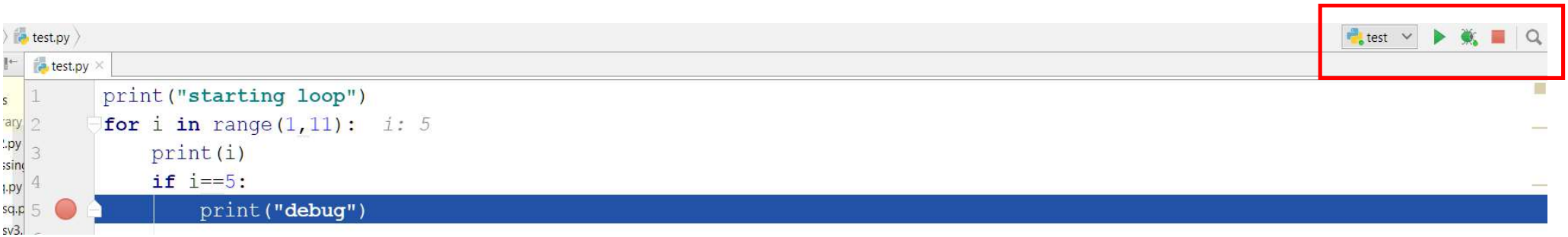
Trouble Shooting Dependencies

- After installing all the packages, the top of the test program should have no red underlines:

```
#Import Python Packages
from bs4 import BeautifulSoup
import re
import codecs
```

You are now ready to run a test program

- The options for running a program are in the top right of the PyCharm



- Here is a description of each feature

Running the test program: testriskfactors.py

- The test program reads Apple's 2009 10-K, extracts the risk factors section, and counts the number of words containing "regulat"
- It also creates a text file with the risk factors section
- Try running the program -- the output should be:

```
Unique Words Containing "regulat"
{'regulations', 'regulation'}
Number of Words Containing "regulat":  12
Total Number of Words:  7460
```