

# Power BI and Python

Using Python Packages to take your Power BI  
Analytics to the Next Level

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# What will you learn today?

- What is Python?
- I'm completely new to Python: Where do I start?
- Getting the right tools: Modules, Packages and Libraries in Python
- Demo! Embedding Python Scripts to Power BI

# What is Python?

- A high-level, object oriented language.
- It is great for Rapid Application Development.
- Simple, easy to learn and encourages code modularity by supporting modules and packages.
- Easier debugging and code maintenance.



# Where to start?

- **Installing Python**

- Check if you already have python in command line.
- Nice instructions here: <https://github.com/BurntSushi/nfldb/wiki/Python-&-pip-Windows-installation>

- **Learning Python**

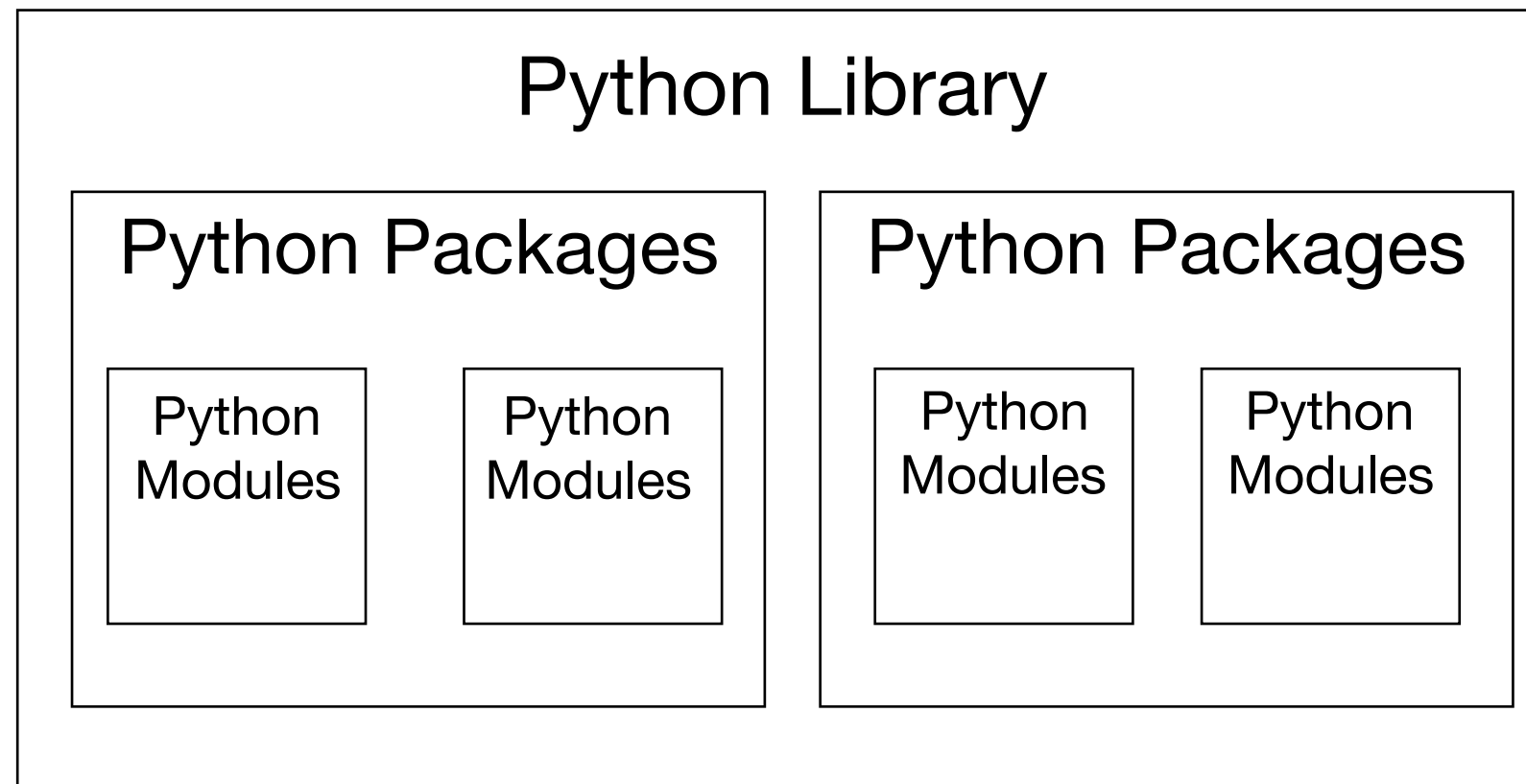
- If you are completely new to Python or want to enhance your skills, there are many free resources available!
- Python org: <https://wiki.python.org/moin/BeginnersGuide/Programmers>
- Datacamp: <https://www.datacamp.com/>
- CodeAcademy: <https://www.codecademy.com/learn/learn-python>
- And many more! (google it)

# Where to start?

- **Using Python**

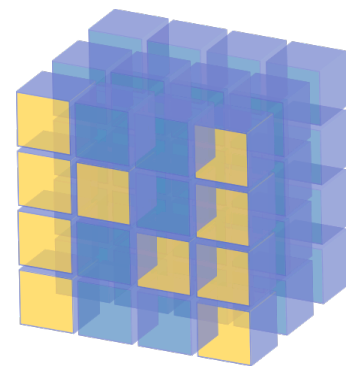
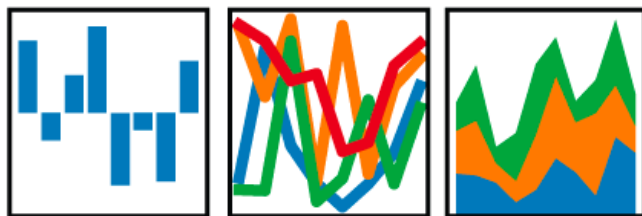
- Text Editors: <https://realpython.com/python-ides-code-editors-guide/>
- Jupyter Notebooks: <https://jupyter.org/>
- Jupyter Lab: <https://jupyterlab.readthedocs.io/en/stable/>

# Getting the Right Python Tools



pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



NumPy

matplotlib

<https://pandas.pydata.org/>

<http://www.numpy.org/>

<https://matplotlib.org/>

# From Python to Power BI: Advance Visualisations and Machine Learning Packages

- Seaborn: <https://seaborn.pydata.org/>
- Altair: <https://altair-viz.github.io/>
- PyFlux: <https://pyflux.readthedocs.io/en/latest/>
- Scikit-Learn: <https://scikit-learn.org/>

**POWER BI  
DEMO TIME**



# REMEMBER

- **To use Python in Power BI**
  - Install Python in your machine.
  - Turn on Python support in Power BI.
  - Choose the best package and function for what you want to do.
  - Be bold and look for the best possible insight you can get from your data!