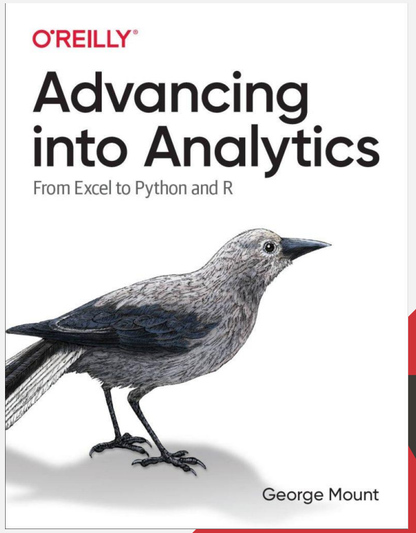
STRINGFEST ANALYTICS

# INTRO TO PYTHON FOR FINANCE


A unit of the Arizona State University Knowledge Enterprise

# HI, I'M GEORGE

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Intro to Python for Finance

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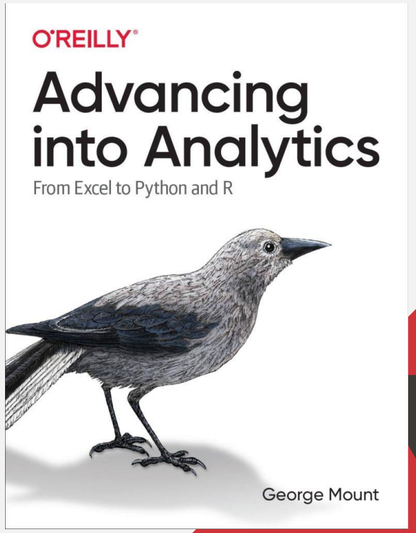


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Intro to Python for Finance

# COURSE OBJECTIVES (with a twist of finance)

- Load, view and write spreadsheet files from Python
- Perform common data wrangling tasks such as sorting, filtering, and aggregation
- Navigate and execute code in Jupyter notebooks
- Identify, install and implement useful packages for your needs
- Not panicking

# FOLLOWING ALONG

Course repo:
https://github.com/stringfestdata/thunderbird-intro-python-finance

- Each section is a sub-folder
- Demos = follow along with me
- Drills = try it yourself

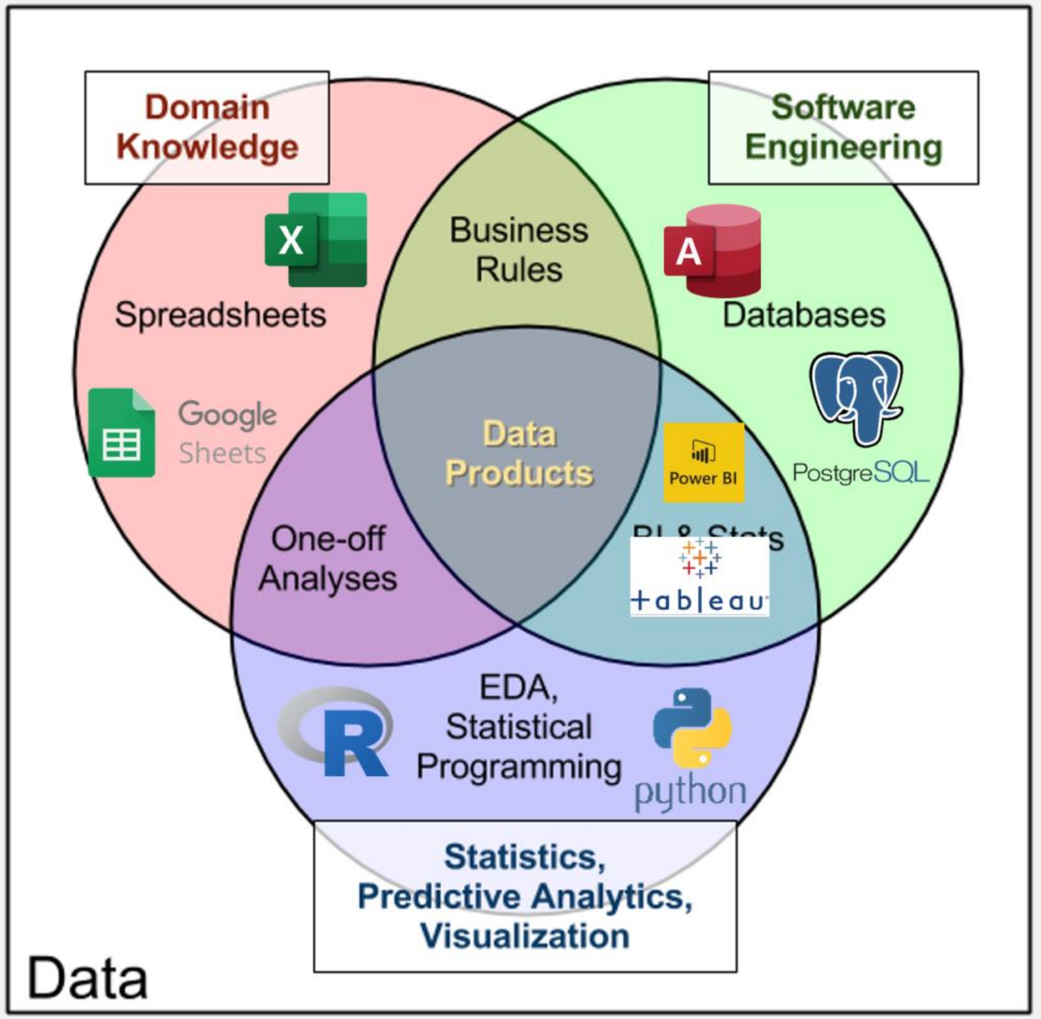
# LAUNCHING JUPYTER

- On Windows:
  - Window key > search “Jupyter Notebook” > Enter

- On Mac:
  - Terminal > type `jupyter notebook` > Enter

# 1. INTRO TO PYTHON LANGUAGE & ECOSYSTEM

# THE DATA ANALYTICS STACK




http://www.datacommunitydc.org/blog/2013/09/the-data-products-venn-diagram

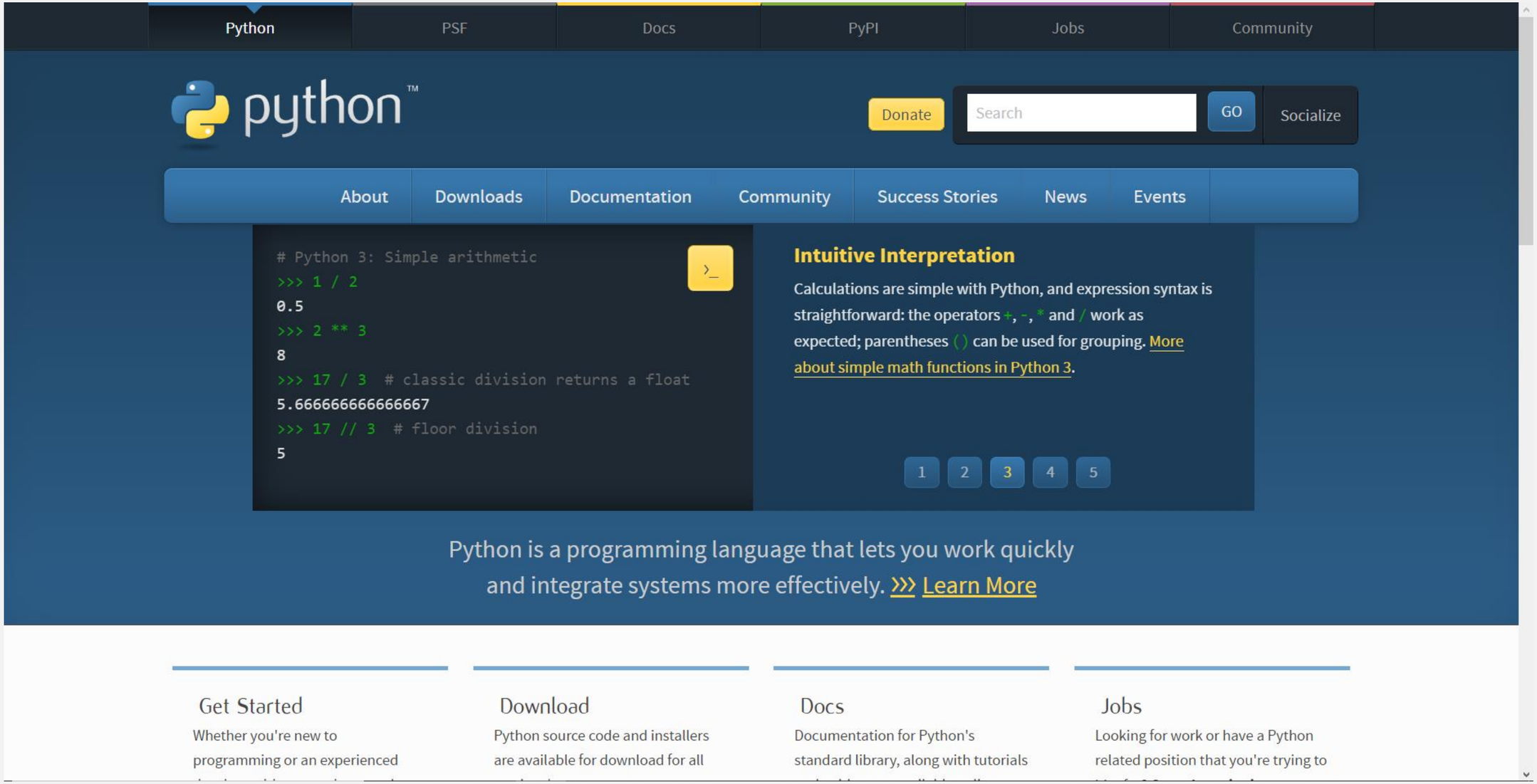
# PYTHON IS:

- A programming language
- Open-source

# PYTHON IS NOT:

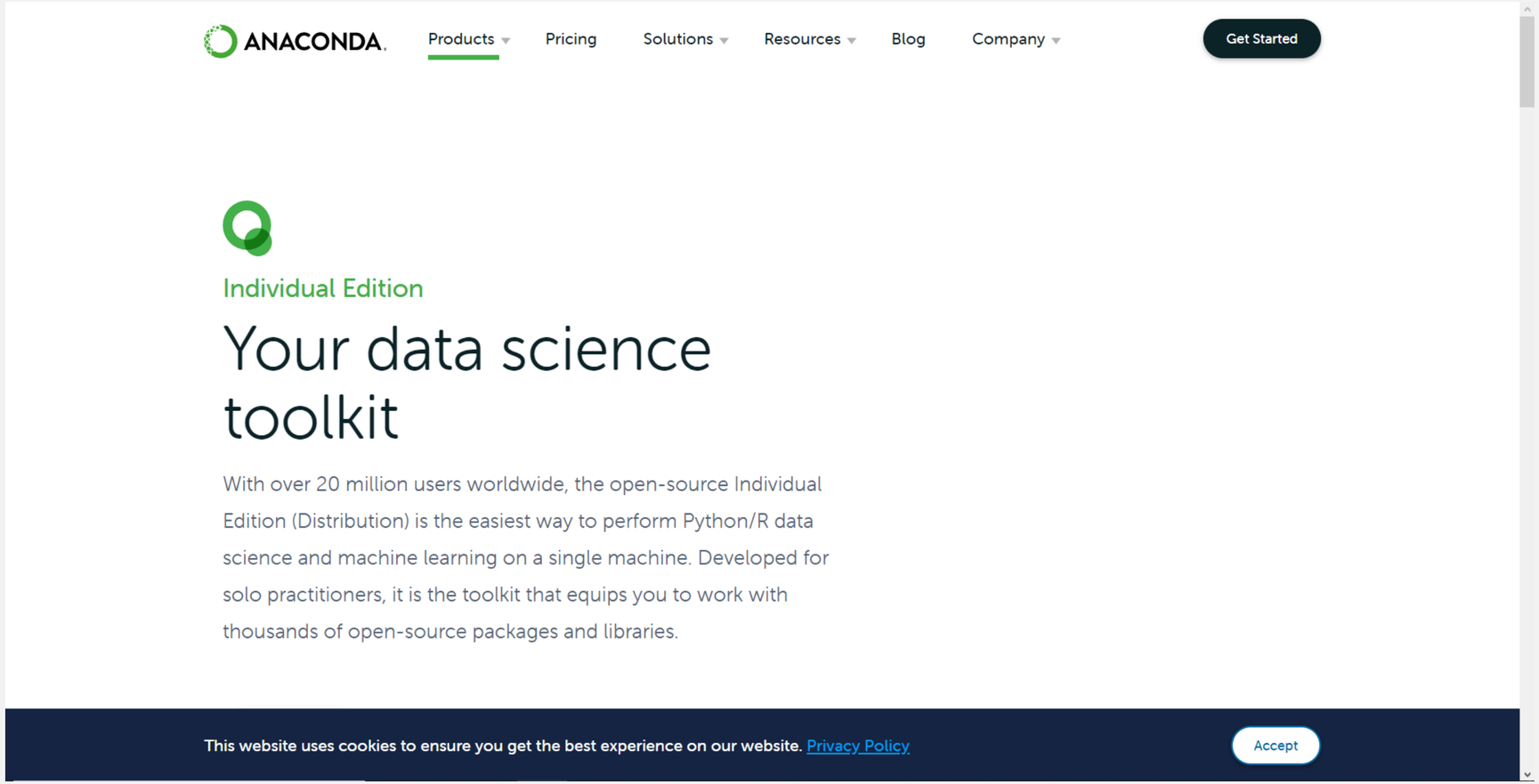
- A spreadsheet
- A database
- Commercially supported

# WHERE DOES PYTHON COME FROM?



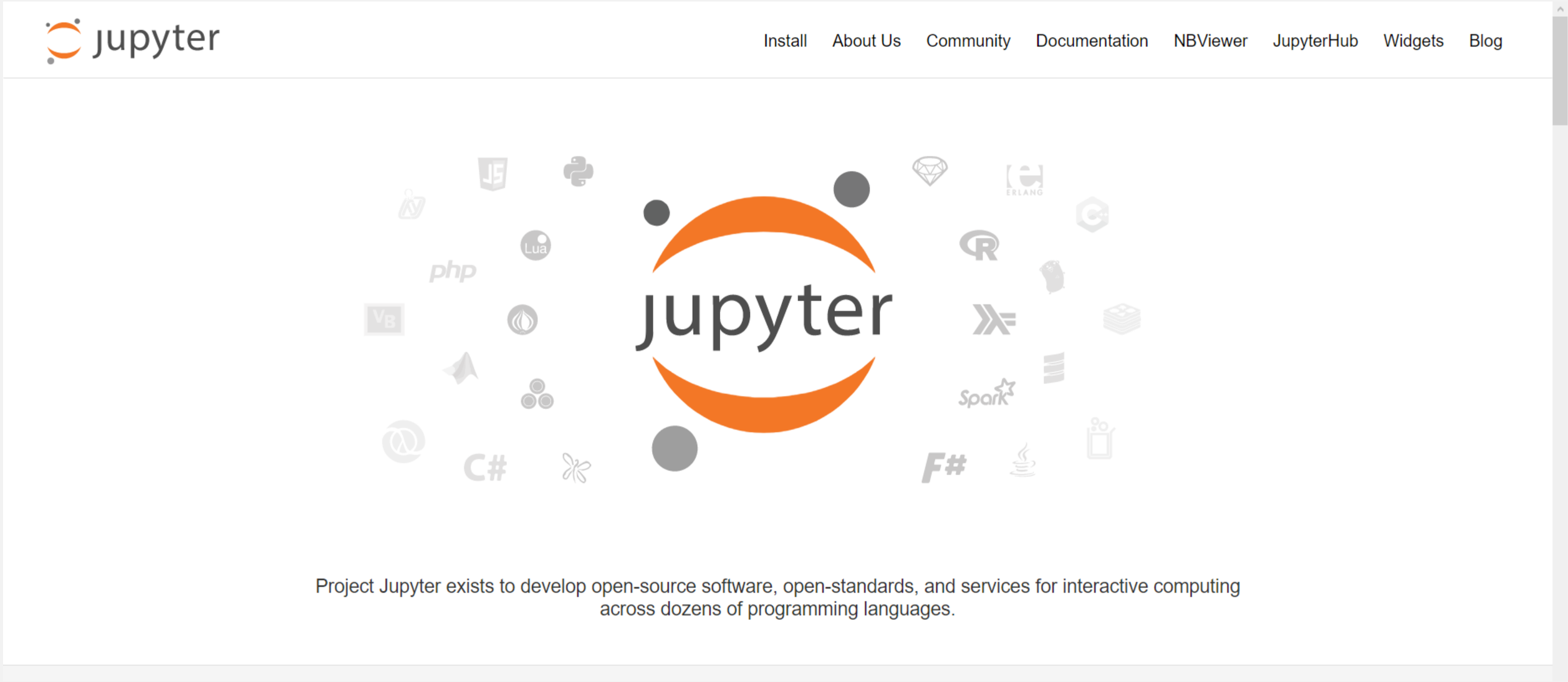

https://www.python.org

# ANACONDA: A PYTHON ~~HAND-ME-DOWN RE-PACKAGING~~ DISTRIBUTION




https://www.anaconda.com/products/individual

# ACCESSING PYTHON FROM JUPYTER




https://jupyter.org/index.html

# DEMO

- `hello-from-jupyter.ipynb`

*The rest of course will be in Jupyter, except for the Conclusion*

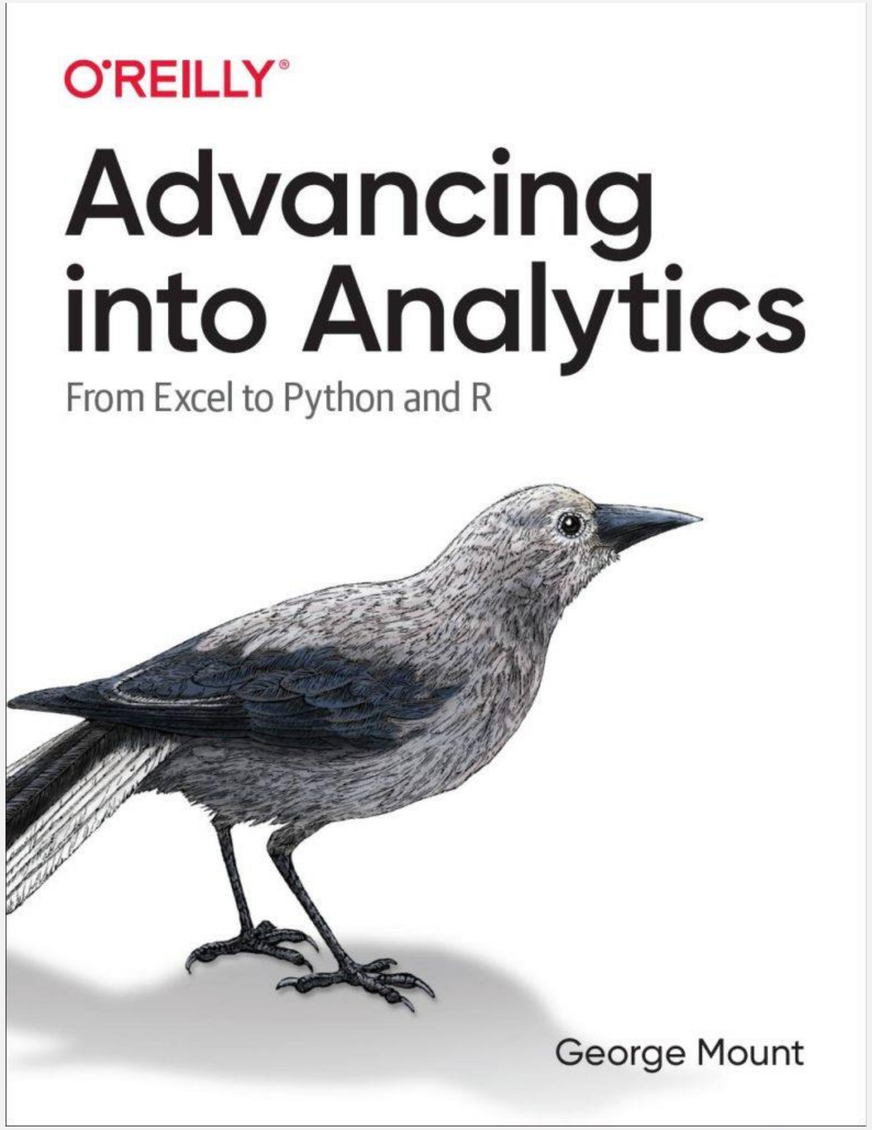
# 4. CONCLUSION

# Future learning

- Programming
  - Conditional statements
  - User-defined functions
  - Loops
- Remote data sources
  - Relational databases
  - APIs
- `pandas`, `matplotlib`/`seaborn` … oh my!

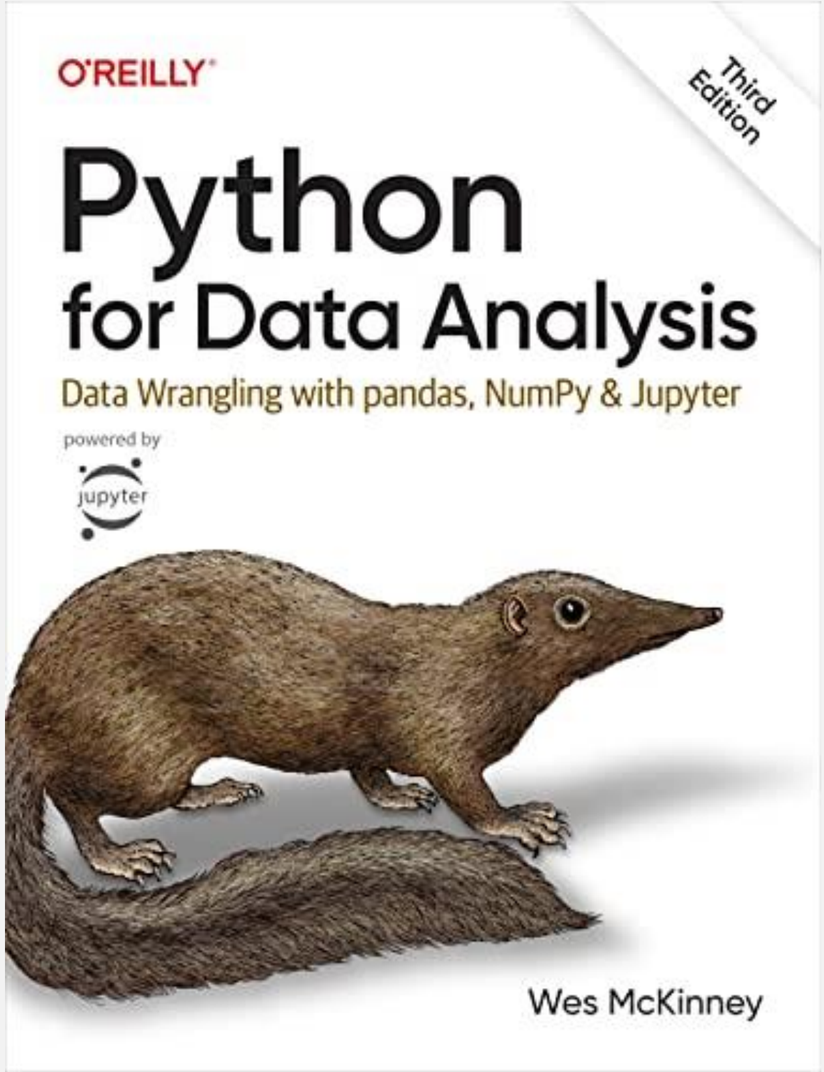
# *Advancing into Analytics*, by George Mount

- https://learning.oreilly.com/library/view/advancing-into-analytics/9781492094333/



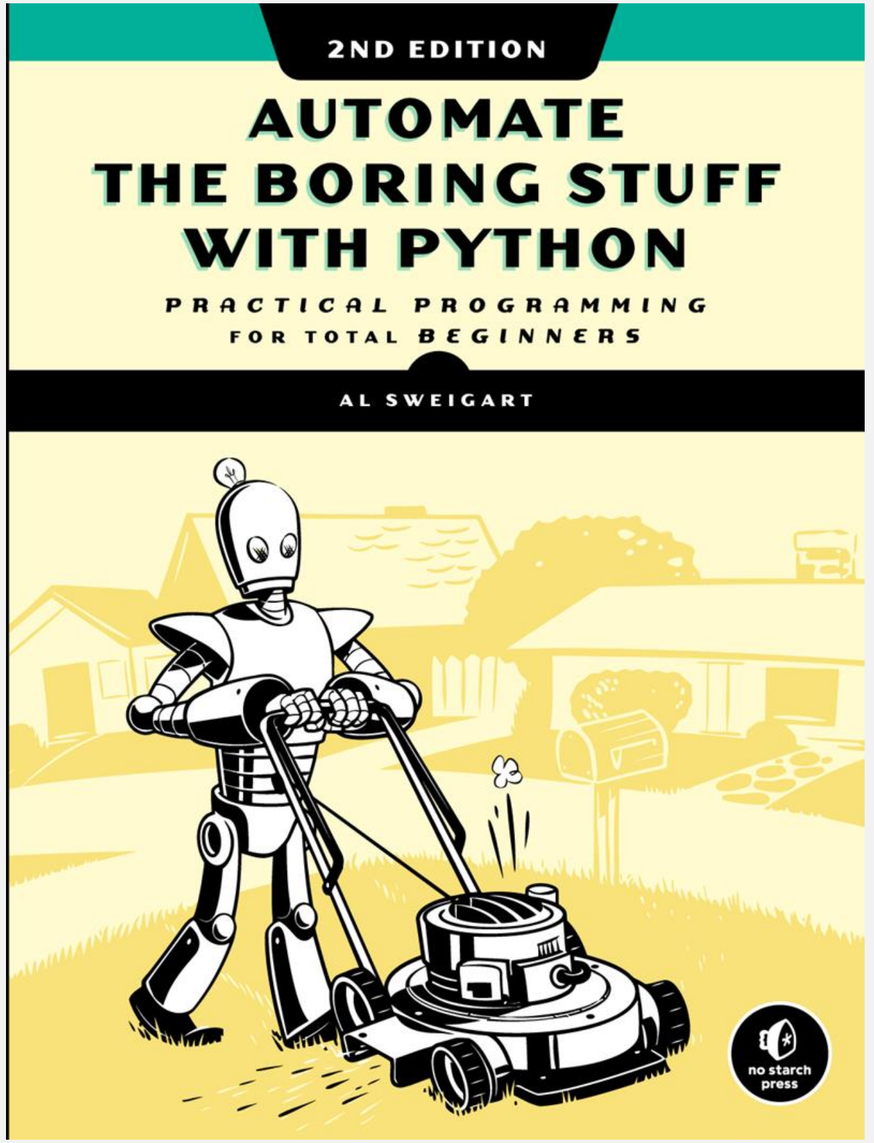
# *Python for Data Analysis*, 3rd Edition by Wes McKinney

- On O'Reilly Learning at https://learning.oreilly.com/library/view/python-for-data/9781098104023/



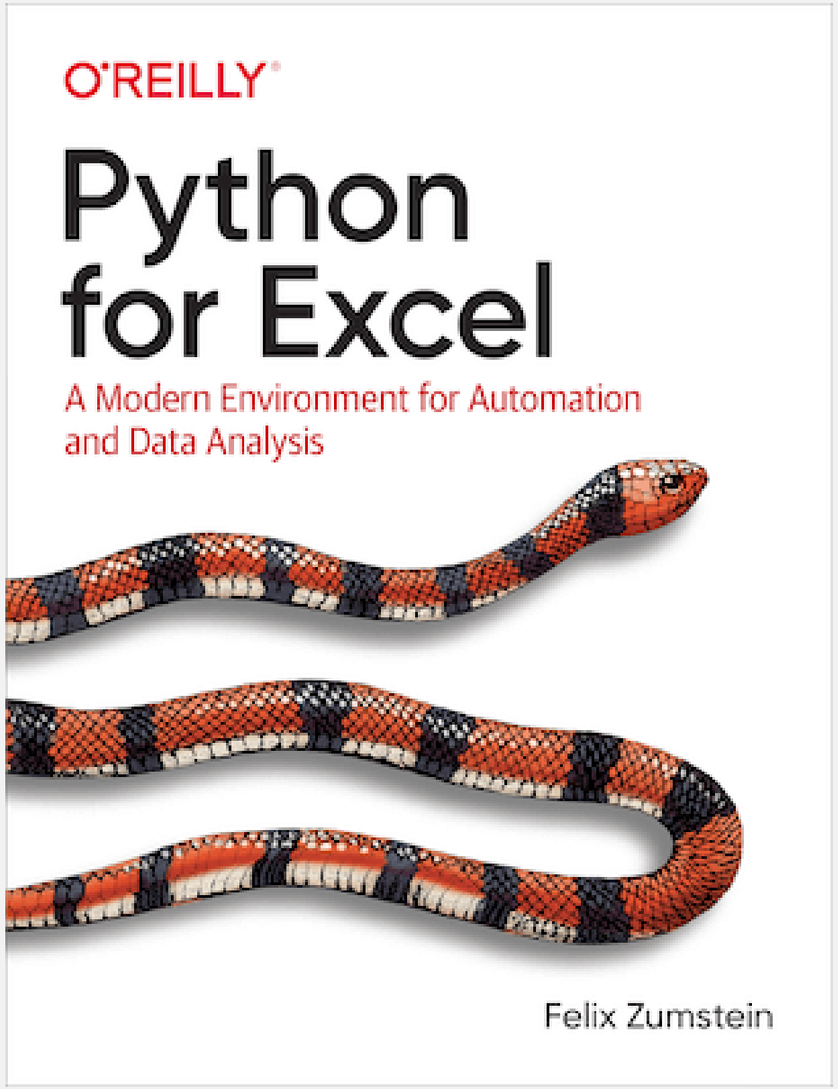
# *Automate the Boring Stuff with Python*, 2nd Editition by Al Sweigart

- On O'Reilly Learning at https://learning.oreilly.com/library/view/automate-the-boring/9781098122584/



# *Python for Excel* by Felix Zumstein

- On O'Reilly Learning at https://learning.oreilly.com/library/view/python-for-excel/9781492080992/



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# LET'S TALK


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# QUESTIONS?