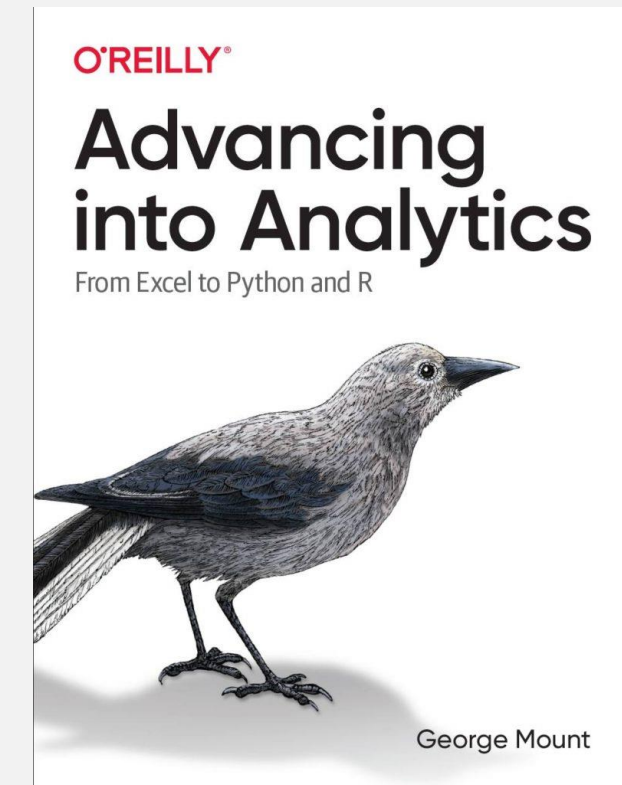


INTRO TO PYTHON FOR FINANCE



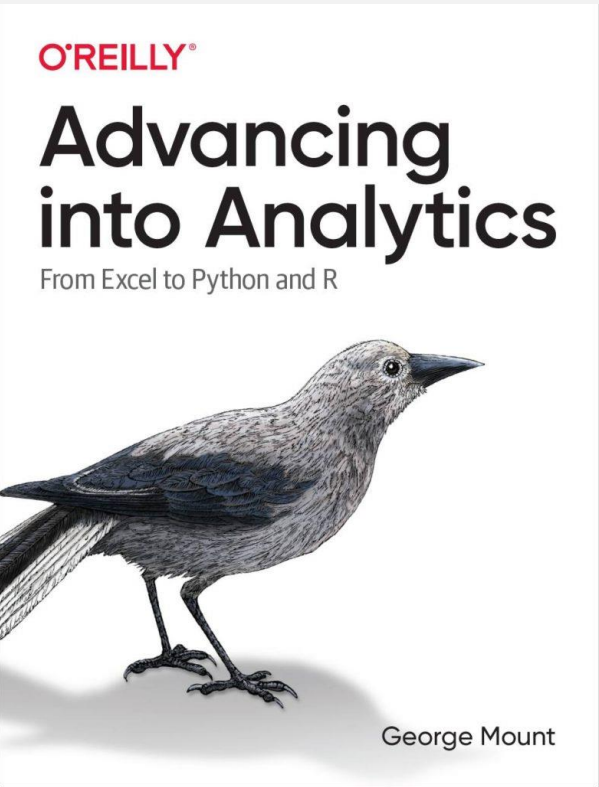
HI, I'M GEORGE



Intro to Python for
Finance



HI, I'M GEORGE



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/stringfestedata/thunderbird-intro-python-finance>

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



LAUNCHING JUPYTER

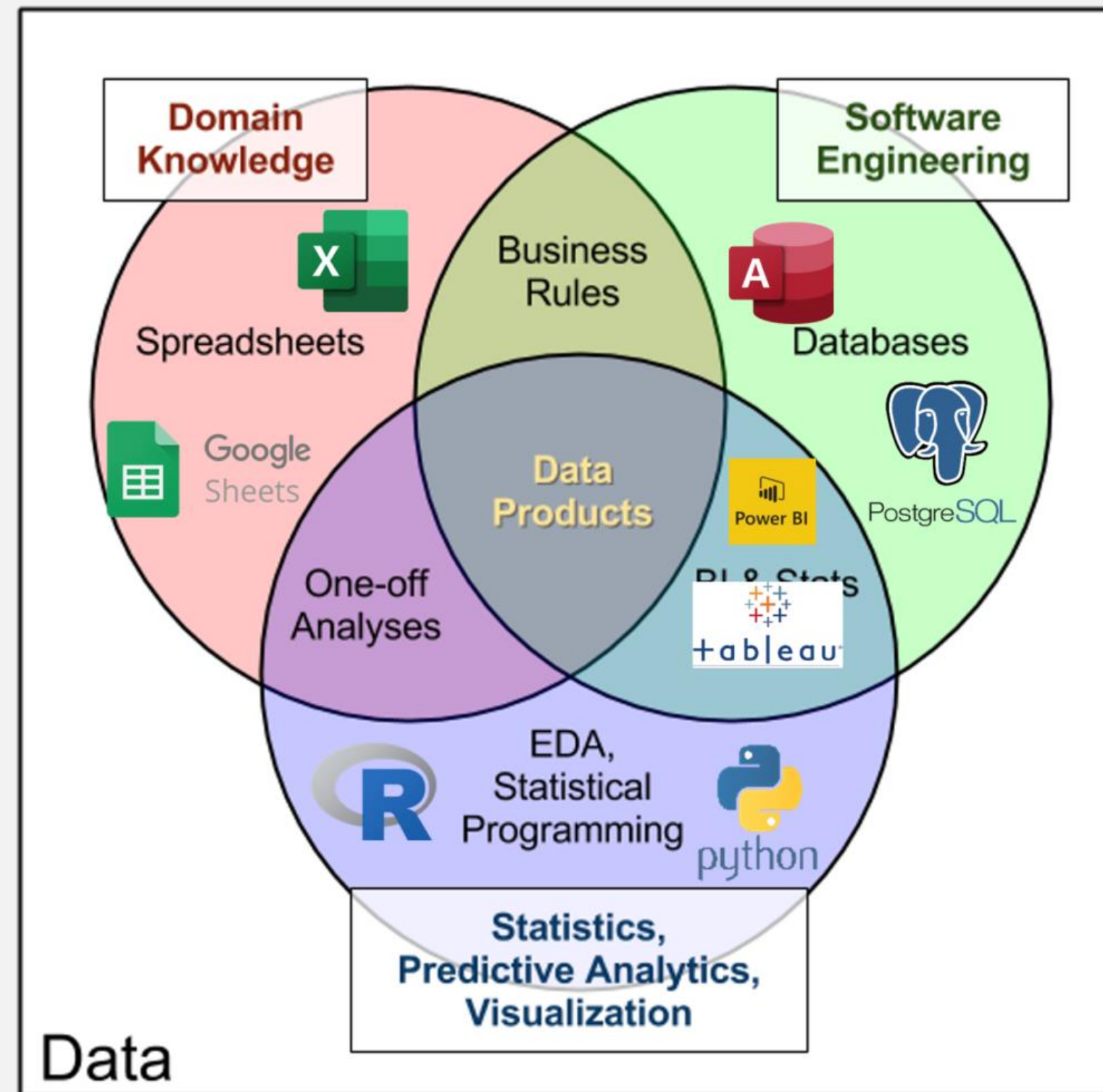
- On Windows:
 - Window key > search “Jupyter Notebook” > Enter
- On Mac:
 - Terminal > type `jupyter notebook` > Enter



1. INTRO TO PYTHON LANGUAGE & ECOSYSTEM



THE DATA ANALYTICS STACK





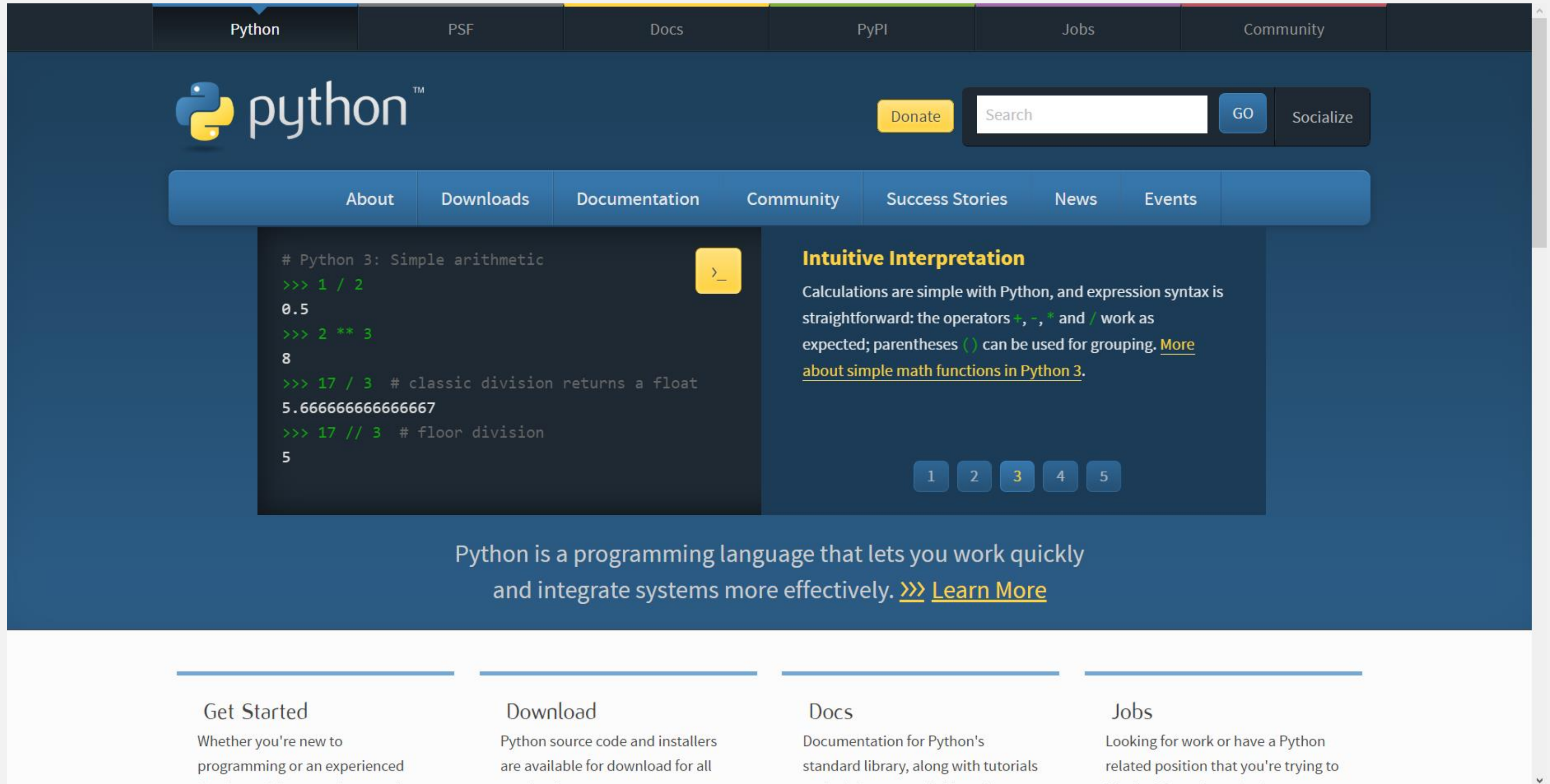
PYTHON IS:

- A programming language
- Open-source

PYTHON IS NOT:

- A spreadsheet
- A database
- Commercially supported

WHERE DOES PYTHON COME FROM?



The image is a screenshot of the Python.org homepage. At the top, there is a navigation bar with links for Python, PSF, Docs, PyPI, Jobs, and Community. Below this is a large blue banner featuring the Python logo, a search bar, and a 'Donate' button. A secondary navigation bar contains links for About, Downloads, Documentation, Community, Success Stories, News, and Events. The main content area is split into two columns. The left column displays a code snippet in a dark-themed terminal window showing simple arithmetic operations. The right column has a section titled 'Intuitive Interpretation' with text explaining Python's straightforward syntax and a link to 'More about simple math functions in Python 3'. Below this text are five numbered buttons (1-5). At the bottom of the banner, a message states: 'Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)'. The footer contains four columns with links and descriptions: 'Get Started' (Whether you're new to programming or an experienced...), 'Download' (Python source code and installers are available for download for all...), 'Docs' (Documentation for Python's standard library, along with tutorials...), and 'Jobs' (Looking for work or have a Python related position that you're trying to...).

Python

PSF

Docs

PyPI

Jobs

Community

python™

Donate

Search

GO

Socialize

About

Downloads

Documentation

Community

Success Stories

News

Events

```
# Python 3: Simple arithmetic
>>> 1 / 2
0.5
>>> 2 ** 3
8
>>> 17 / 3 # classic division returns a float
5.666666666666667
>>> 17 // 3 # floor division
5
```

Intuitive Interpretation

Calculations are simple with Python, and expression syntax is straightforward: the operators `+`, `-`, `*` and `/` work as expected; parentheses `()` can be used for grouping. [More about simple math functions in Python 3.](#)

1 2 3 4 5

Python is a programming language that lets you work quickly and integrate systems more effectively. [>>> Learn More](#)

Get Started
Whether you're new to programming or an experienced

Download
Python source code and installers are available for download for all

Docs
Documentation for Python's standard library, along with tutorials

Jobs
Looking for work or have a Python related position that you're trying to

<https://www.python.org>



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



The screenshot shows the Anaconda website's product page for the Individual Edition. At the top, the Anaconda logo is on the left, and navigation links for Products, Pricing, Solutions, Resources, Blog, and Company are in the center. A 'Get Started' button is on the right. Below the navigation, a large green 'Q' logo is followed by the text 'Individual Edition' in green. The main heading reads 'Your data science toolkit'. A paragraph below states: 'With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for solo practitioners, it is the toolkit that equips you to work with thousands of open-source packages and libraries.' At the bottom, a dark blue footer contains a cookie notice: 'This website uses cookies to ensure you get the best experience on our website. [Privacy Policy](#)' and an 'Accept' button.



ACCESSING PYTHON FROM JUPYTER



[Install](#) [About Us](#) [Community](#) [Documentation](#) [NBViewer](#) [JupyterHub](#) [Widgets](#) [Blog](#)



Project Jupyter exists to develop open-source software, open-standards, and services for interactive computing across dozens of programming languages.





DEMO

- `hello-from-jupyter.ipynb`

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

4. CONCLUSION



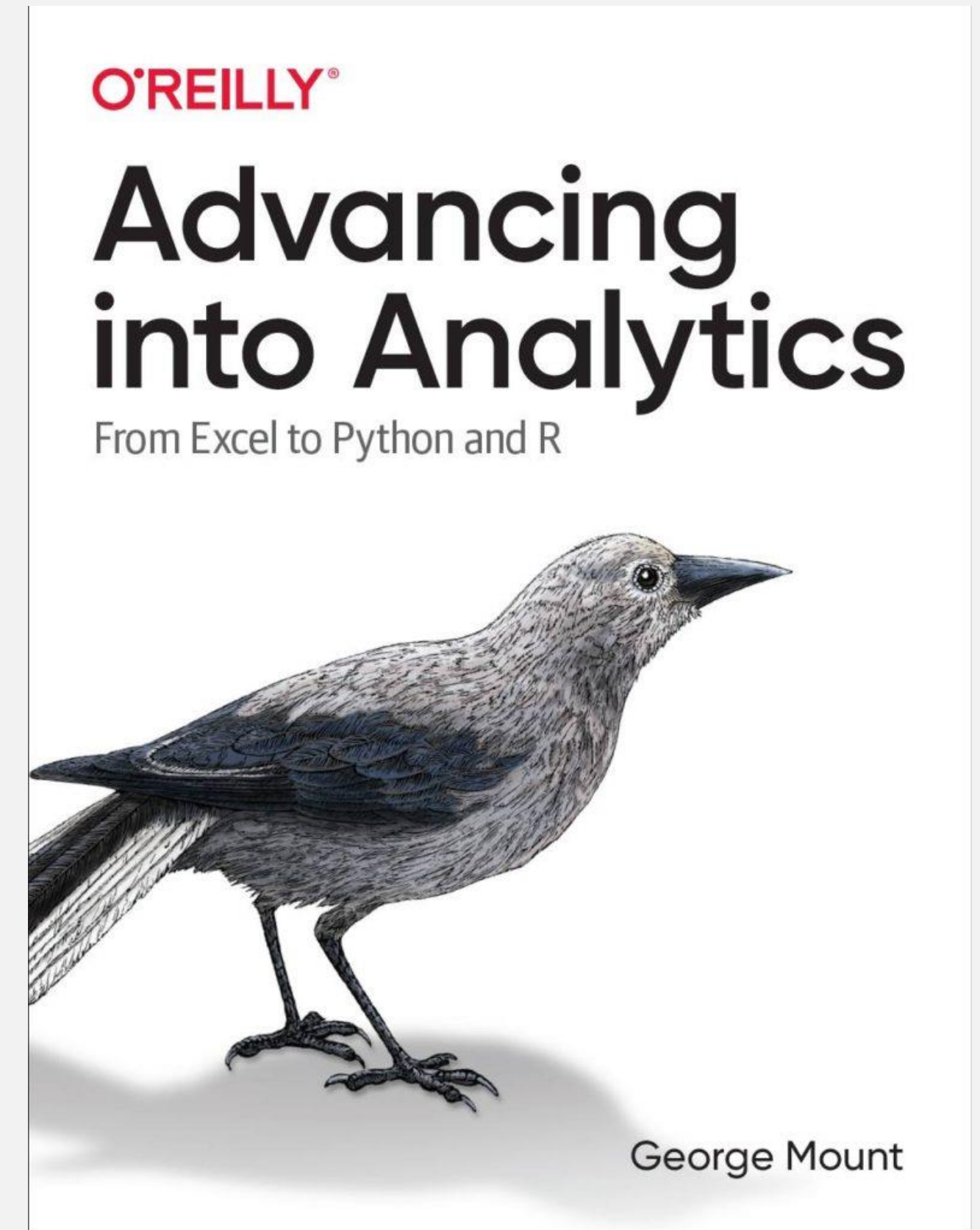
Future learning

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



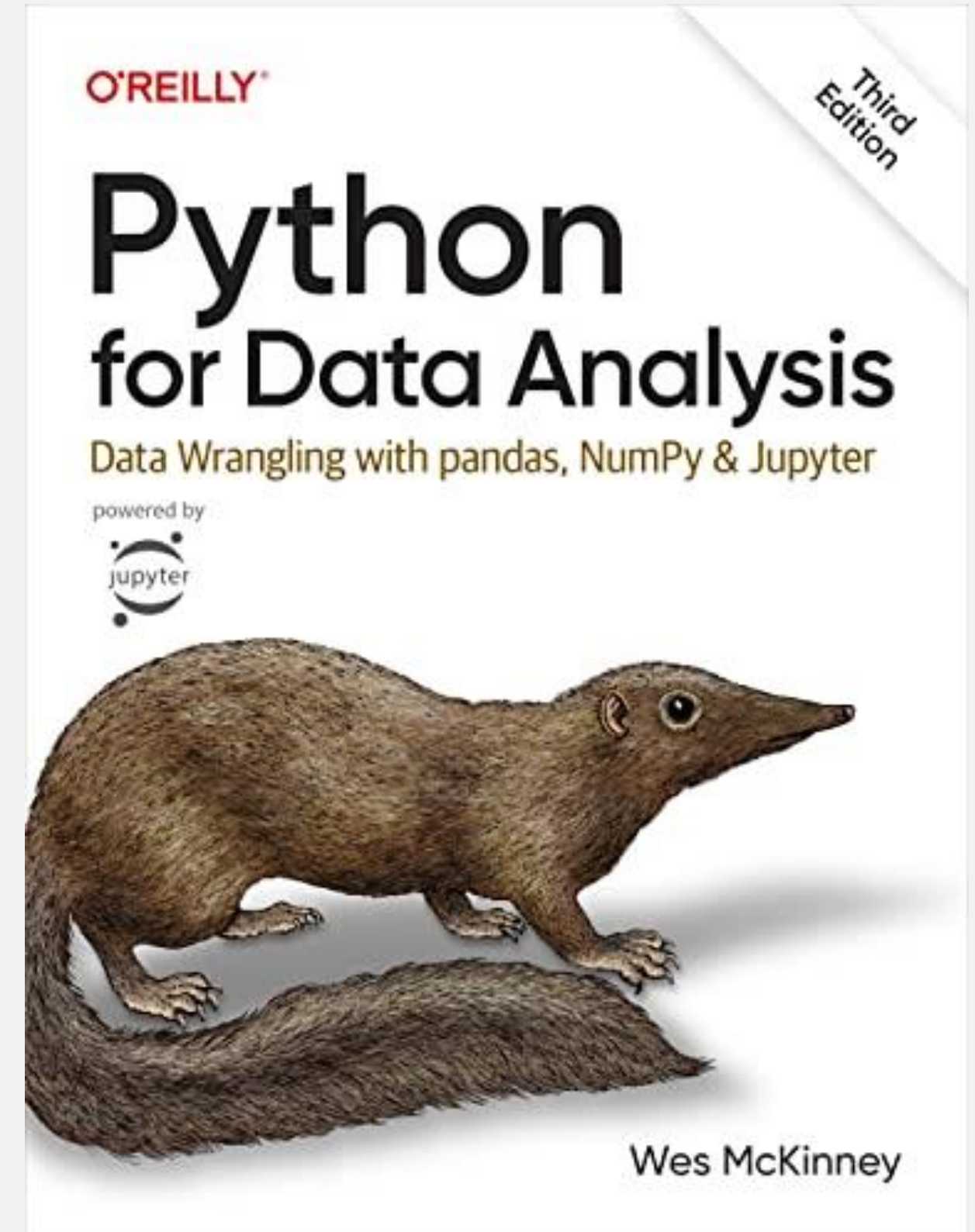
Advancing into Analytics, by George Mount

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



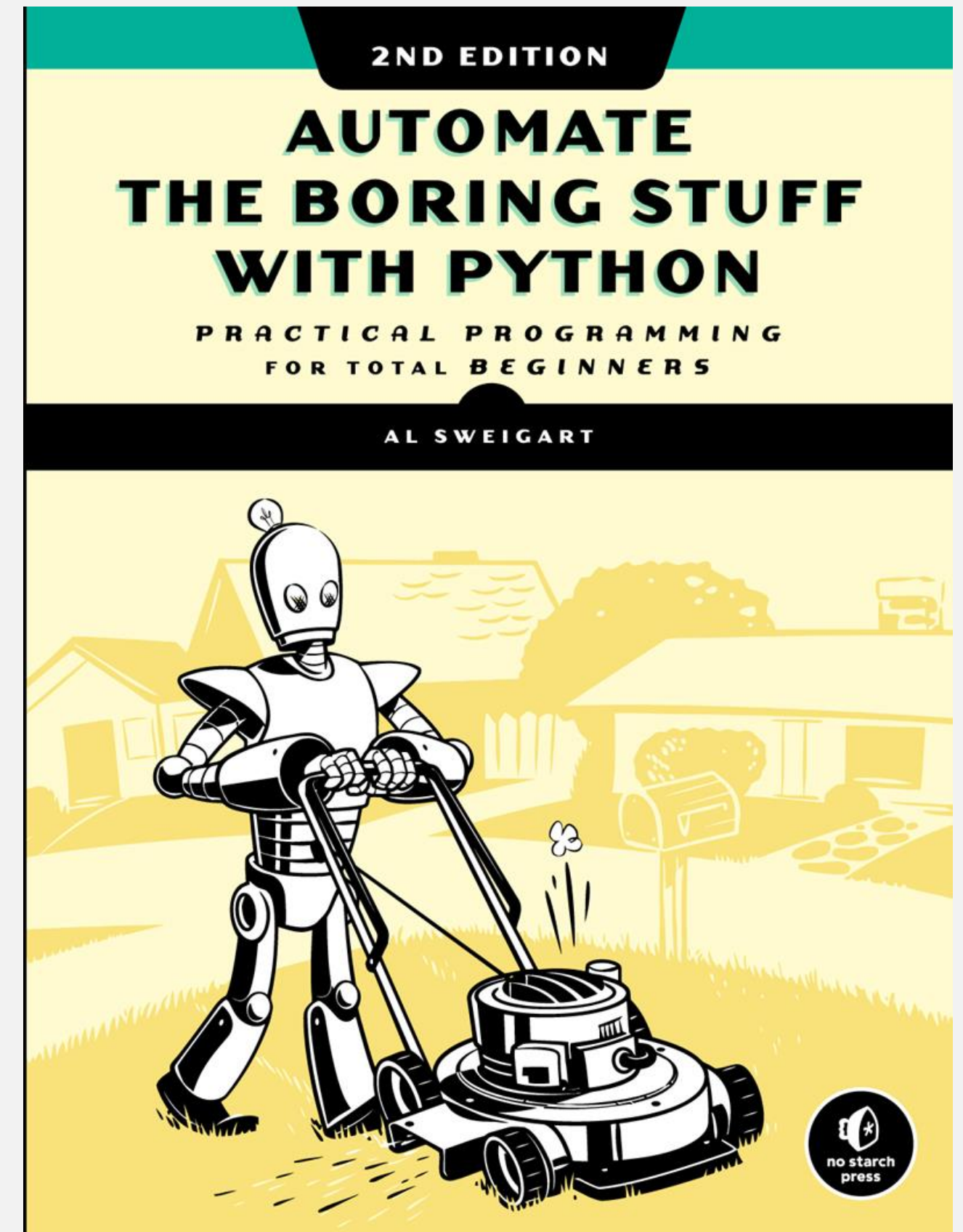
Python for Data Analysis, 3rd Edition by Wes McKinney

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



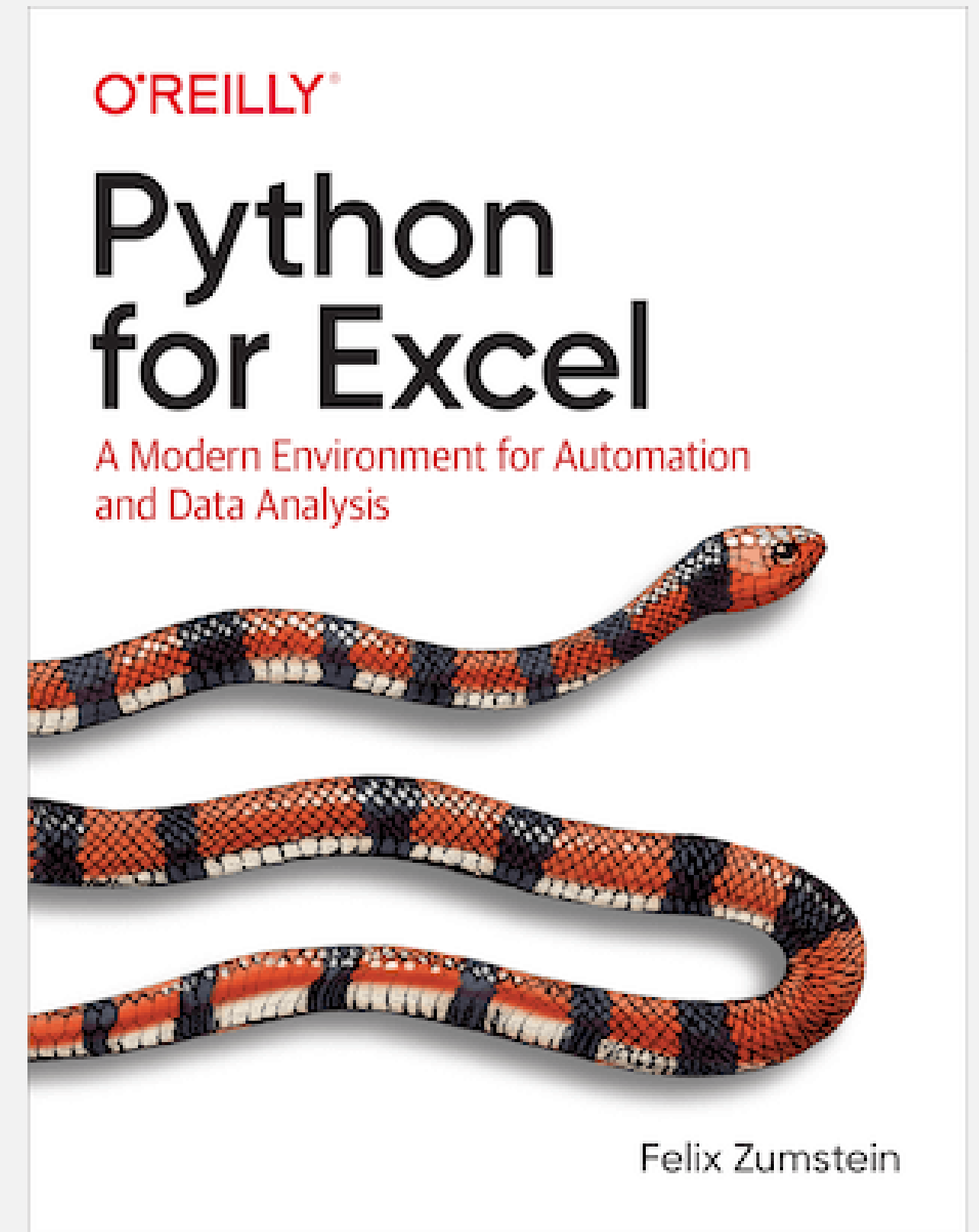
Automate the Boring Stuff with Python, 2nd Edition **by Al Sweigart**

- 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/>



LET'S TALK

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QUESTIONS?

