

# PYTHON- POWERED EXCEL

A portrait of George Mount, a man with dark, curly hair, smiling. He is wearing a light blue button-down shirt under a dark grey textured blazer. The background is a solid light grey. In the bottom-left corner, there is a decorative graphic consisting of overlapping dark grey and red geometric shapes.

# George Mount

Data Analyst & Educator at Stringfest Analytics

George works as an independent analyst and data analytics educator with the goal to help clients manage their data so they think more creatively. He serves as a technical expert and lead curriculum developer for Thinkful's data analytics program and is the instructor of the DataCamp course "Survey and Measure Development in R."

George blogs about data, innovation, and career development at [georgemount.com](http://georgemount.com). He holds a master's degree in information systems with a certificate of achievement in quantitative methods from Case Western Reserve University

# COURSE OBJECTIVES

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- Load, view and write workbooks to and from Python
- Add custom formats, protections and metadata to workbooks from Python
- Navigate and execute code in Jupyter notebooks



# FOLLOWING ALONG

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- Each section is a sub-folder
- Demos = follow along with me
- Drills = try it yourself
  - Refresh your memory with the demo notes



# 1. UP AND RUNNING WITH PYTHON IN EXCEL





# PYTHON IS:

- A programming language
- Open source

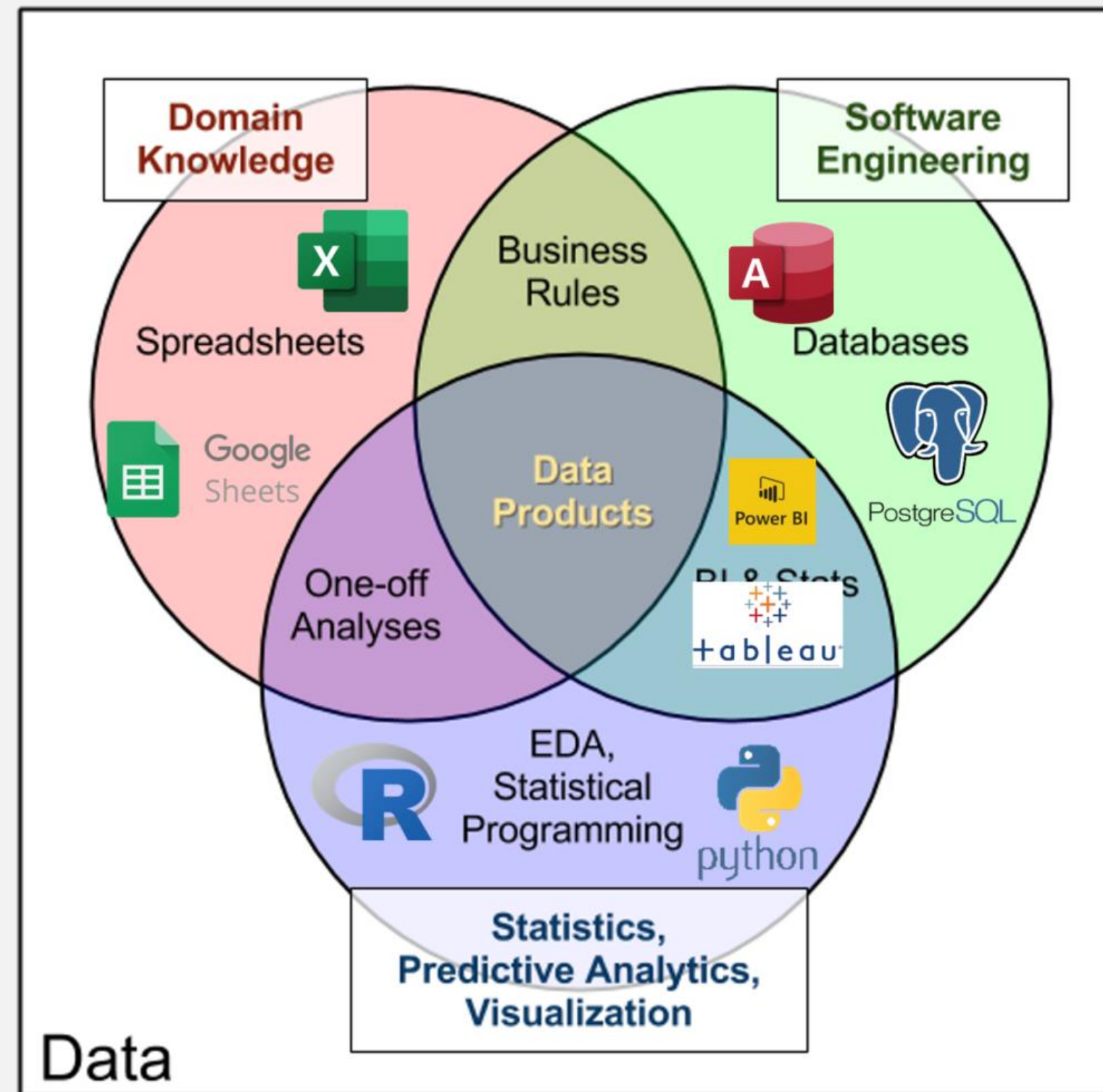
# PYTHON IS NOT:

- Commercially supported
- A spreadsheet or database





# THE DATA ANALYTICS STACK





# **PYTHON & EXCEL: “YES, AND” DATA ANALYSIS**





**SEE YOU ON  
JUPYTER**





**HOUSE RULES ON**

**JUPYTER:**

**DON'T PANIC**



# QUESTIONS?

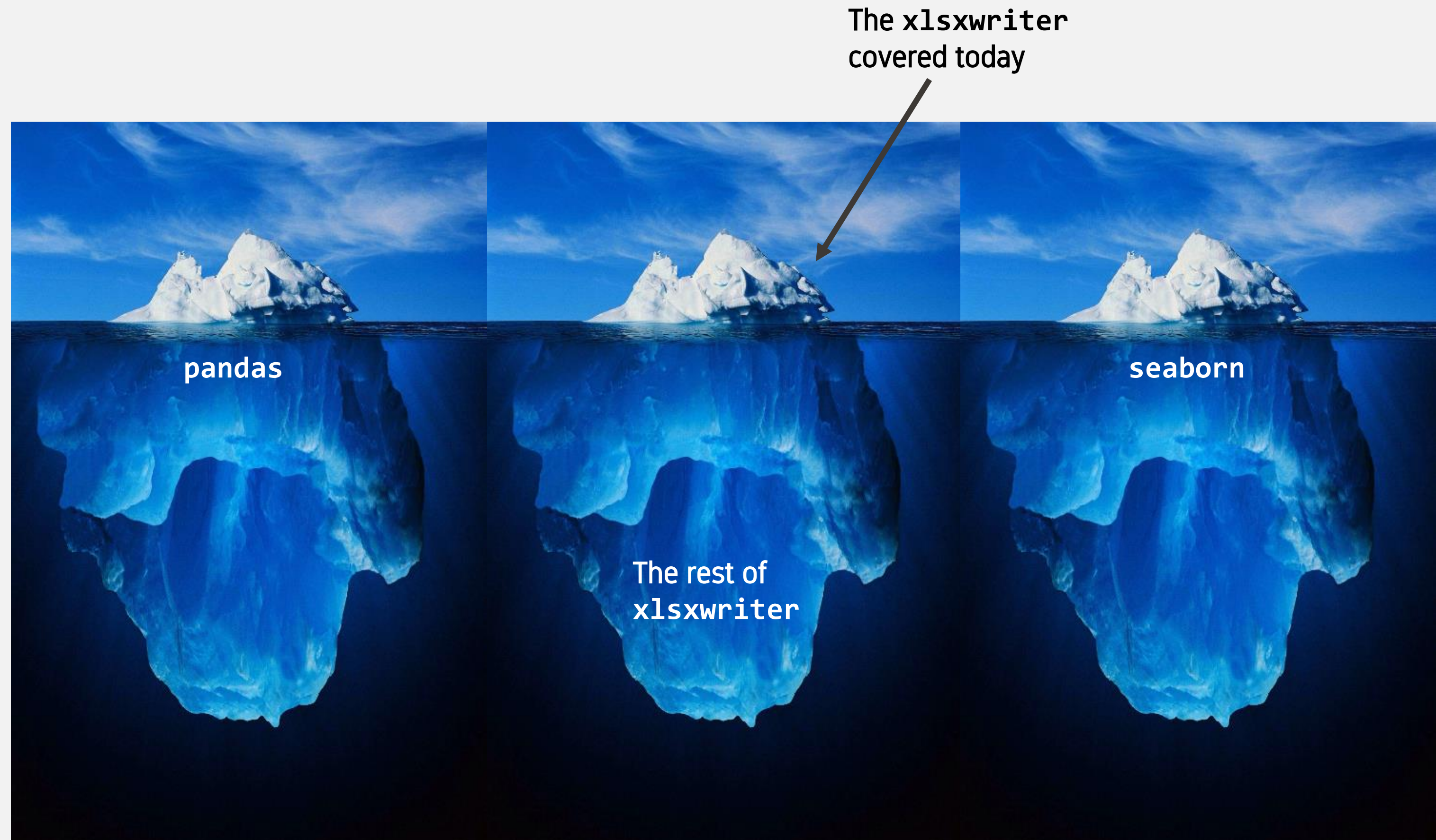


# 4. CONCLUSION





# FUTURE LEARNING



# Future learning

- Explore the [xlsxwriter documentation](#) (617 pages!)
- Creating and manipulating Python data structures: lists, dictionaries
- pandas for data analysis



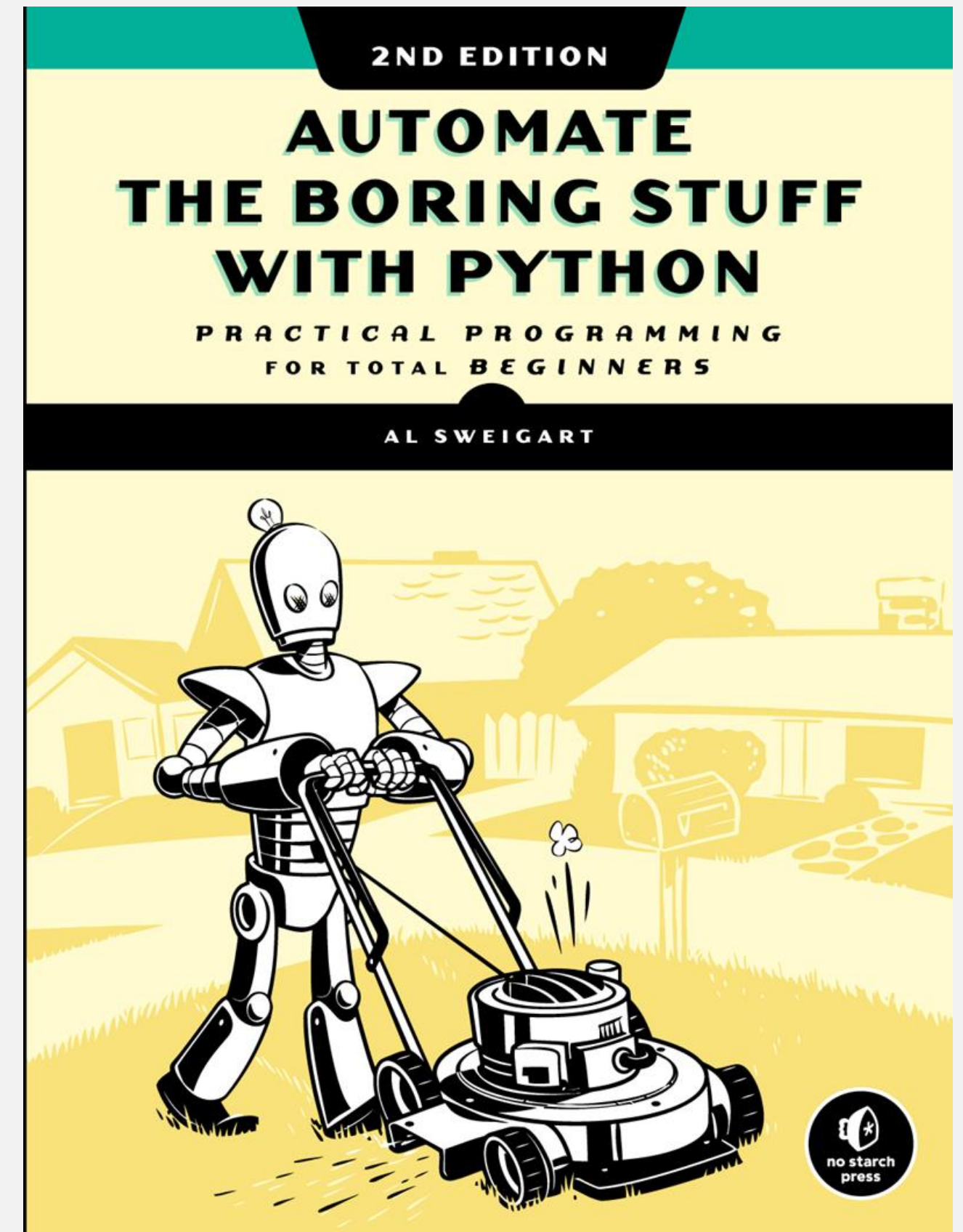
# Download a local Anaconda distribution of Python

- Download for free at <https://www.anaconda.com/products/individual>



# ***Automate the Boring Stuff with Python, 2<sup>nd</sup> Edition*** **by Al Sweigart**

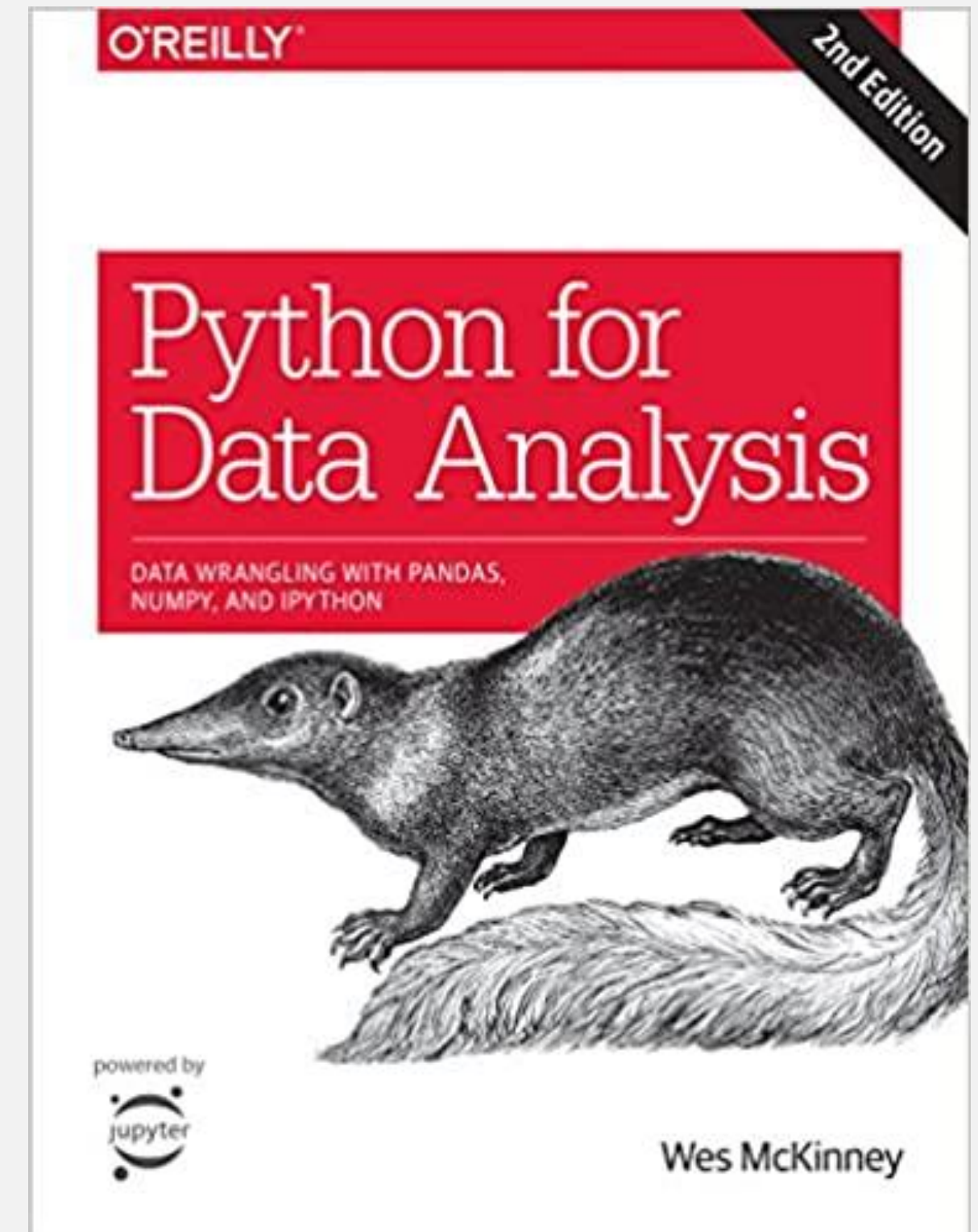
- On O'Reilly Learning at <https://learning.oreilly.com/library/view/automate-the-boring/9781098122584/>





# *Python for Data Analysis,* 2<sup>nd</sup> Edition by Wes McKinney

- On O'Reilly Learning at <https://learning.oreilly.com/library/view/python-for-data/9781491957653/>



# LET'S TALK

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# QUESTIONS?

