Session_2

October 5, 2022

1 Practical Python

I really recommend Automate The Boring StuffwithPython, it is an excellent book and a lot of things will be borrowed from it to pad out this session. It's free to read online!

2 Example 1 - Number guessing game

A straight-forward game where you are asked for a number 0-10 and have to guess, the computer tells you if you need to guess higher or lower

3 Example 2 - Reading / Editing data - large excel sheets?

- Could use some kaggle dataset
  - For example https://www.kaggle.com/datasets/die9origephit/amazon-data-science-books
- Read some data, do some basic stats like mean, mode, max
- maybe make one plot depending on data

4 Example 3 - Ciphers with Python

Could get really complex with this, but let's keep simple and focus on a Caesar cipher

two steps to this example: 1. translate input text to the scrambled text 2. translate scrambled text back to original message

5 Example 4 - Web scrapping with beautiful soup

Need to think and test this idea - Maybe scrape the TFL table for status - https://tfl.gov.uk/tube-dlr-overground/status/