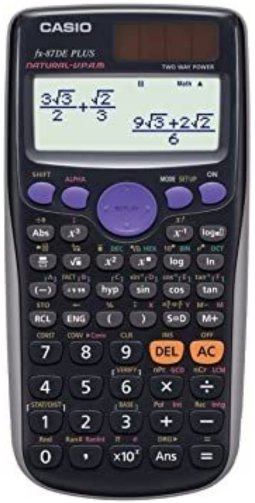
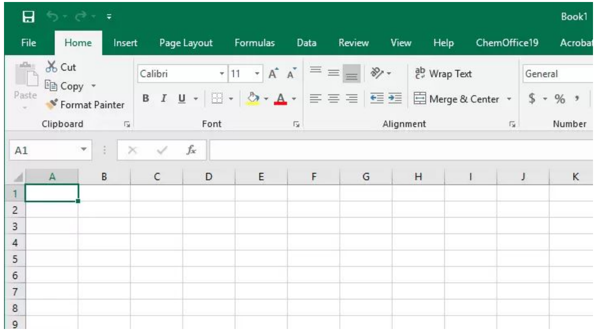
Learning Python

Motivation

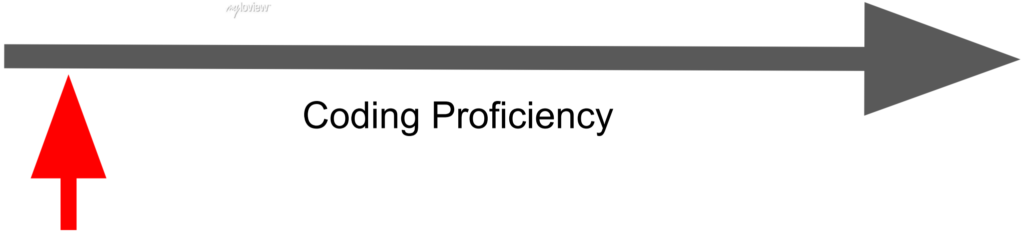




python™

Efficiency working with computer

Motivation



Coding Proficiency

Things I wish someone told me when I started

- Google like there is loads of tomorrows; you’ve got time
- Do not worry about performance/efficiency/best practices
- Run code line by line
    - Jupyter Notebook
    - Debugger - DEMO
- Git provides comfort
- The command line is not as dark as it appears (Little more advanced)
- Choose an editor and stick to it

DEBUGGER DEMO

Resources in the Beginning

1. Automate the Boring Stuff with Python (Book)
    a. Great for learning useful basics to make everyday (work)-life more enjoyable/efficient
    b. Nothing for aspiring software engineers
2. Python Land (Blog)
    a. Number one reference on the python.org website as learning resource
    b. Nicely written, gives all the basics of python and how python works with the “rest of your computer”
    c. Interactive coding challenges built into blog
3. 100 Days of Code: The Complete Python Pro Bootcamp 2022 (Video Course)
    a. Has all the buzzwords
    b. 60h of video material with exercises
    c. For those of you who liked going to school/university and want to get a full picture

Resources

1. Git Branching
    a. Understanding how git works
    b. Interactive
2. Missing Semester
    a. All the things around the actual code
3. MIT Computational Thinking - (with 3Blue1Brown)
    a. Applications of coding in foreground
    b. Coding introduced as vehicle to solve challenges like
        i. Climate modeling
        ii. epidemic modelling
        iii. Etc.