Intro to python

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About me

- Majoring in Data Science and AI
- Programming and hackathon enthusiast

Workshop flow

01 **Why python?**

02 **Running Python code**

And setting up an environment we can play in

03 **Python syntax**

04 **Python Programming Basics**

Data structures, Control flow, Exercises

05 **Moving forward**

Self exploration, amazing projects, language agnostic skills

06 **Closing address and Q&A**

01

Why python?

The good

- Easy to read, write and learn
- Strong community and ecosystems around AI, ML, etc
- Very versatile
- Huge community, online support

The bad

- Not the fastest
- Not a strong type system
- Not the best in writing multithreaded applications

02

How is python code run

The three ways of running python code

- Using the interpreter directly in the terminal
- Writing your code in a python file
- Using python notebooks (local/hosted)

03

Interactive notebook time!

05

Moving forward

Language agnostic skills

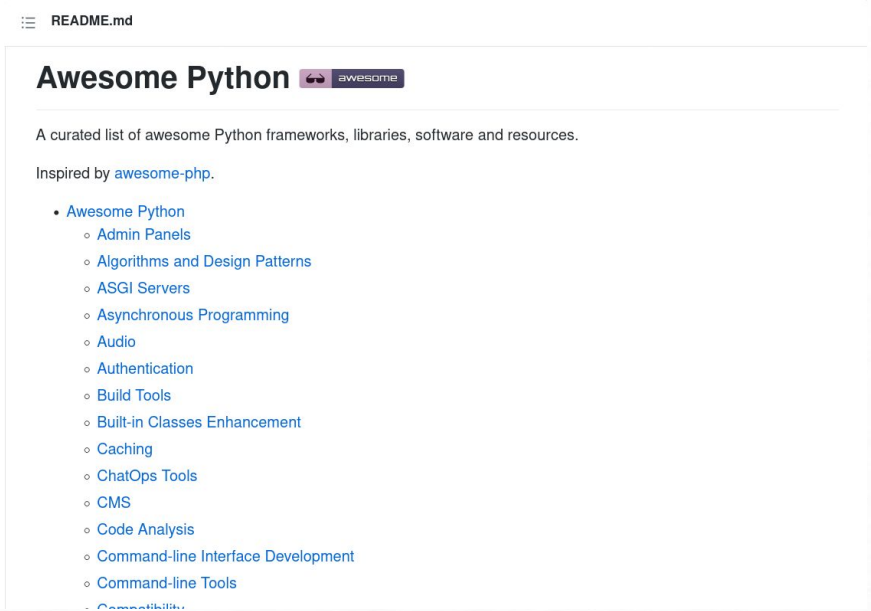
- Code is a tool for your train of thought and imagination
- Focus equally on both parts! Get creative with your projects
- A programming mindset

More things to explore

- Programming paradigms
  - Object Oriented Programming - Classes, Objects, Encapsulation, etc
  - Functional programming - Functions, lambdas, etc
- Web scraping and Automation!
  - https://github.com/RohanGautam/Scraping-and-automation-workshop
    - Stackoverflow answers, Filling out forms

Amazing projects

- https://github.com/vinta/awesome-python



README.md

Awesome Python awesome

A curated list of awesome Python frameworks, libraries, software and resources.

Inspired by awesome-php.

- Awesome Python
  - Admin Panels
  - Algorithms and Design Patterns
  - ASGI Servers
  - Asynchronous Programming
  - Audio
  - Authentication
  - Build Tools
  - Built-in Classes Enhancement
  - Caching
  - ChatOps Tools
  - CMS
  - Code Analysis
  - Command-line Interface Development
  - Command-line Tools
  - Compatibility

Amazing projects

- Google-images-download
- MapsModelsImporter
- Magenta

Amazing projects and tutorials

Closing address and Q&A