



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)

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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



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