

The background features a central, irregular watercolor shape in shades of blue and teal. Surrounding this are other watercolor shapes in light blue, green, and yellow. Scattered throughout are small, dark blue dots of varying sizes. At the bottom center, there are faint, stylized outlines of fingers.

Intro to python

Rohan Gautam

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

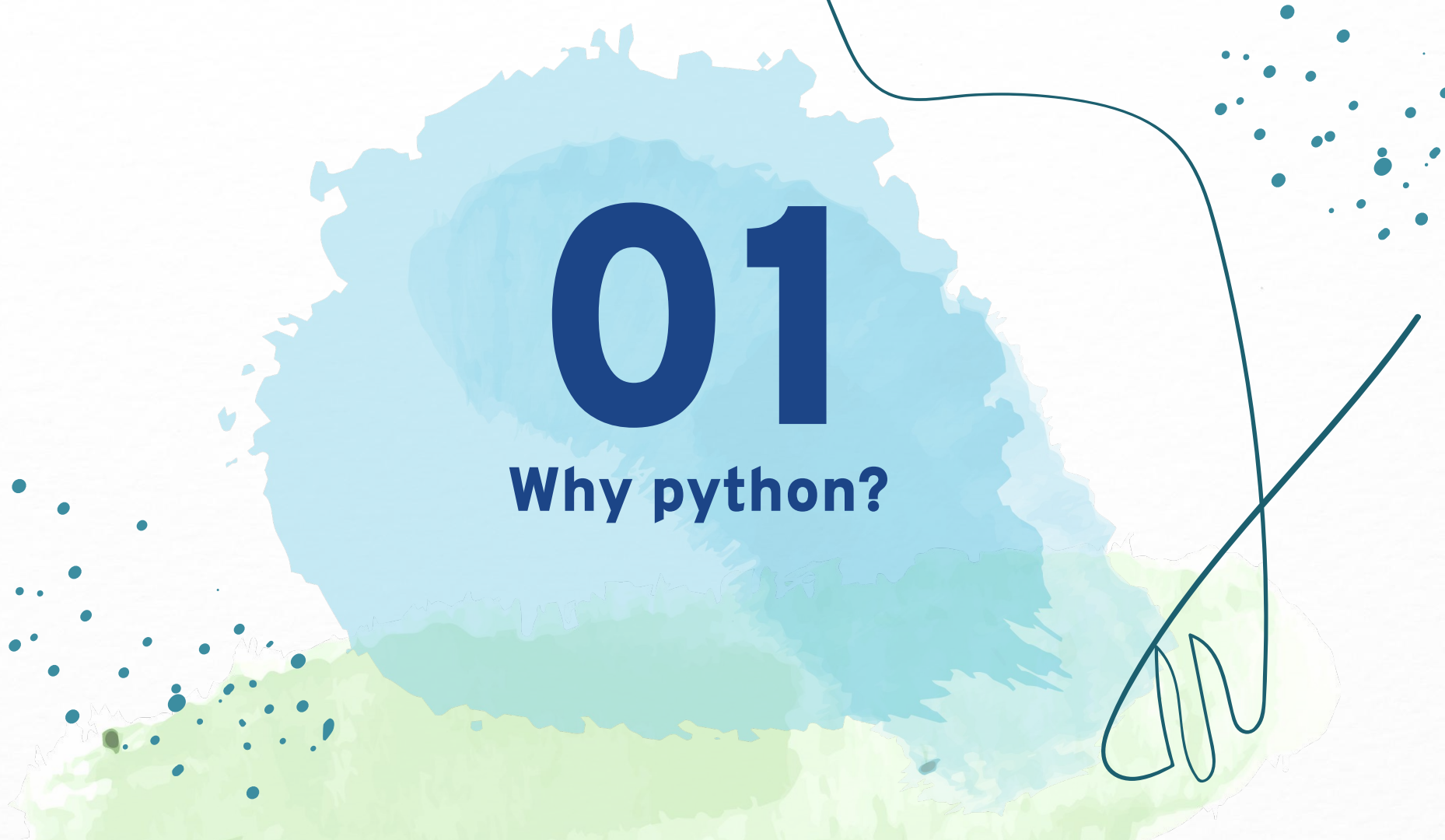
Socials



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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)

The background features a large, irregular watercolor shape in shades of light blue and green. The top portion is a darker blue, while the bottom portion is a lighter green. Scattered around this central shape are numerous small, dark blue dots. A thin, dark blue line curves from the top right, passing through the green area, and ends in a series of loops. Another thin, dark blue line curves from the top left, passing through the blue area, and ends in a series of loops.

03

**Interactive notebook
time!**

The background features a large, irregular watercolor shape in shades of blue and green. The top portion is a darker blue, while the bottom portion is a lighter green. Scattered around this central shape are numerous small, dark blue dots of varying sizes. A thin, dark blue line curves across the right side of the image, starting from the top and ending near the bottom right. In the bottom right corner, there is a small, stylized drawing of a hand or a finger pointing upwards.

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.

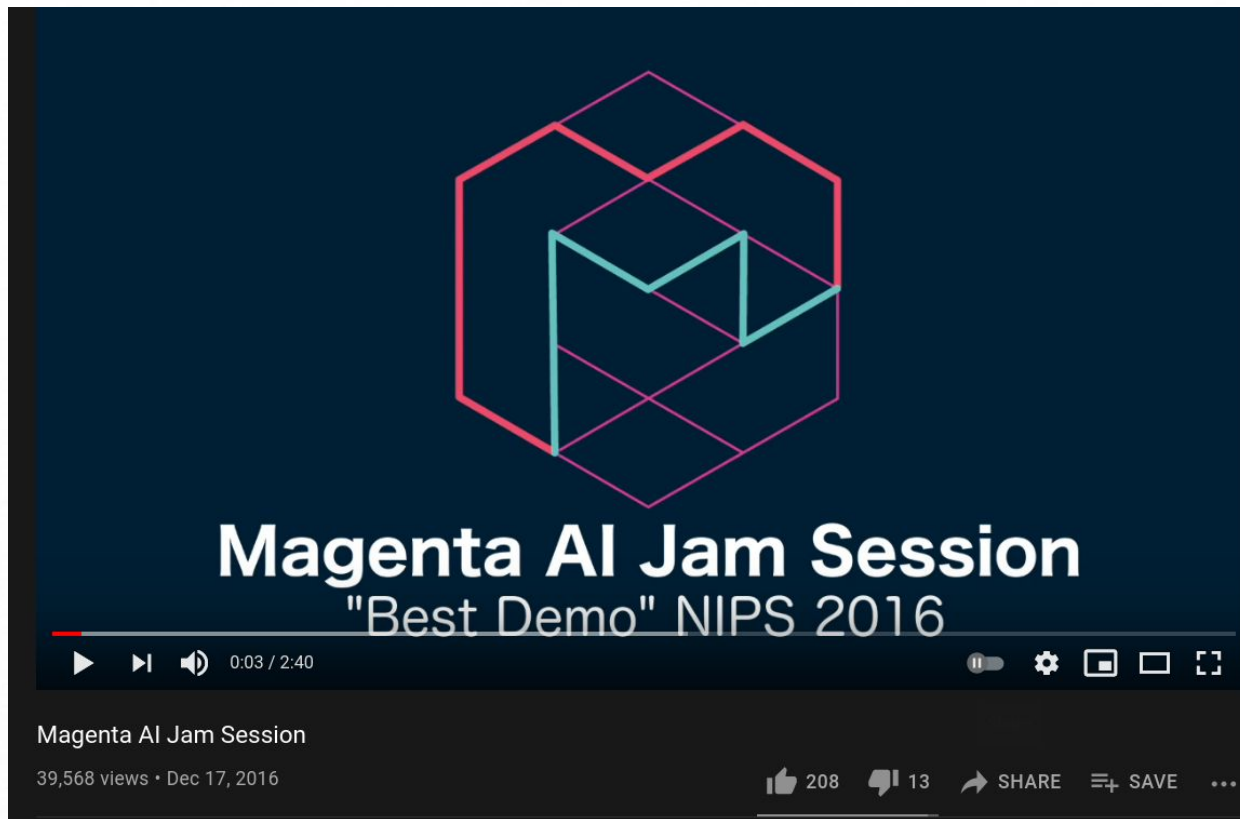
Inspired by [awesome-php](#).


- [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