

The background features several overlapping watercolor-style shapes in shades of blue, teal, and light green. Scattered throughout are numerous small, dark blue dots of varying sizes. At the bottom center, there are faint, stylized line drawings of what appear to be fingers or abstract shapes.

# 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**

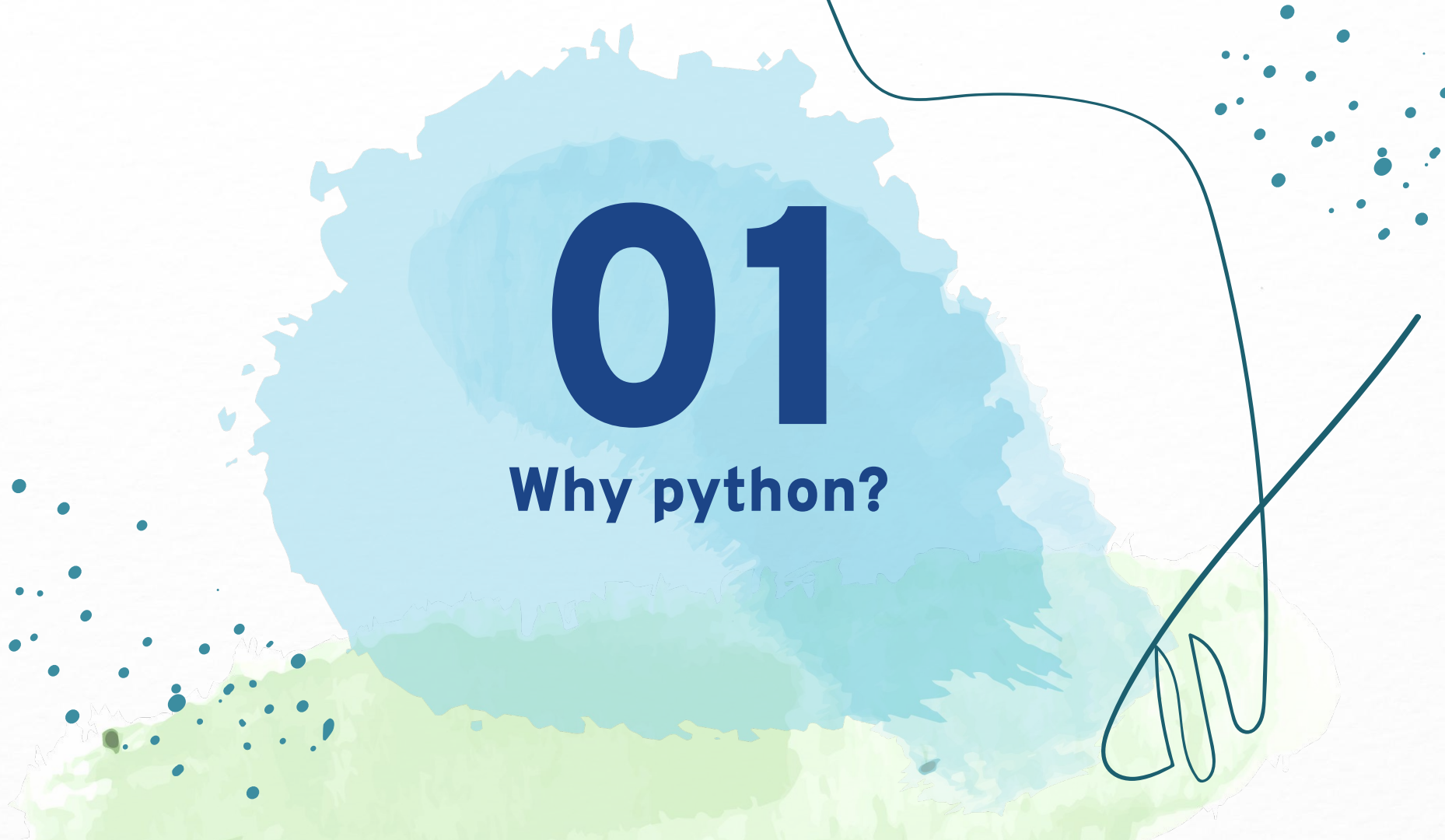
Self exploration,  
amazing projects,  
language agnostic  
skills

**06**

**Closing address and Q&A**

# 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 towards the bottom right, ending in a series of three loops. Another thin, dark blue line curves from the top left towards the bottom left, ending in a series of three loops.

**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