

Python Everywhere

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Programming

Questions

- What is a programming language?
- Why are there so many programming languages?
- What are the types of programming languages?
- Does the world need new programming Language?

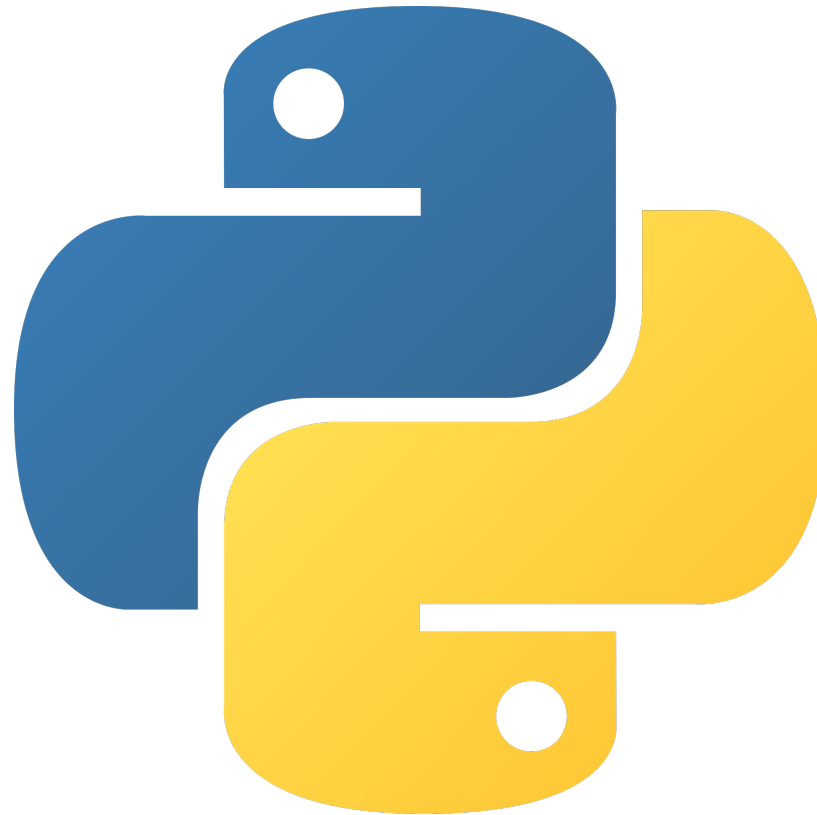
“A Programming Language is a set of rules that provides a way of telling a computer what operations to perform”



COBOL



Python Programming Language



Why Python ?

- Easy to use, powerful, versatile.
- Dynamically Interpreted Language.
- Python is great for backend web development, data analysis, artificial intelligence, and scientific computing.
- Open Source.

How is it useful to you?

- Web Technologies
- Computer Networks
- Compiler Construction
- DBMS - Connections
- Data Science
- Machine Learning

Basics of Python

- Python Shell
- Python Script
- Numbers and Variables
- Strings and Formatting
- Lists, Tuples, Dictionaries
- Conditionals

- Control Flow
- Object Orientation
- Errors and Exceptions
- Modules
- Packages

Python for WEB



“Python Web Frameworks”

**What exactly is a
framework?**

“A web framework is a code library that makes a developer's life easier when building reliable, scalable and maintainable web applications.”

**How to choose
between frameworks?**

Pros and Cons



Django The web framework for perfectionists with deadlines.



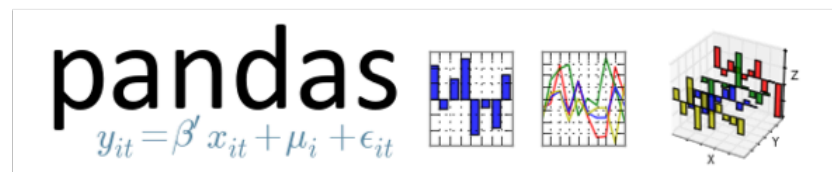
How everything works?

- Models
- Views
- URLs/Routes
- Templates
- Database
- Hosting

Python for Data Science



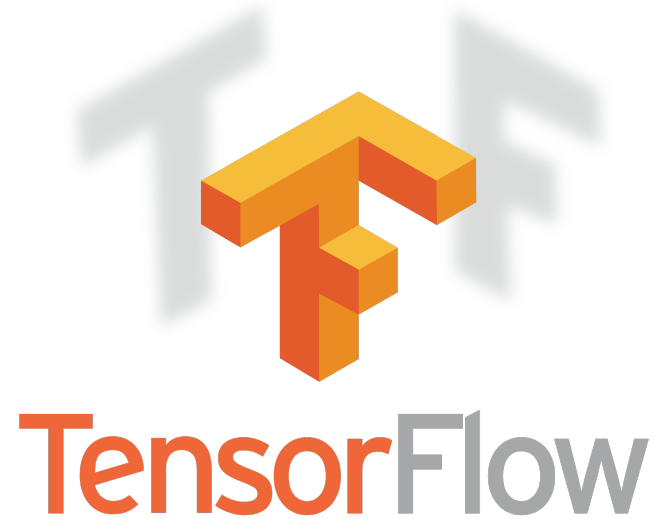
IP[y]: IPython
Interactive Computing



Data Science

- Finding patterns in data, the up's and down's.
- Cleaning
- Processing
- Analysis
- Statistics
- Visualisation

Python for AI



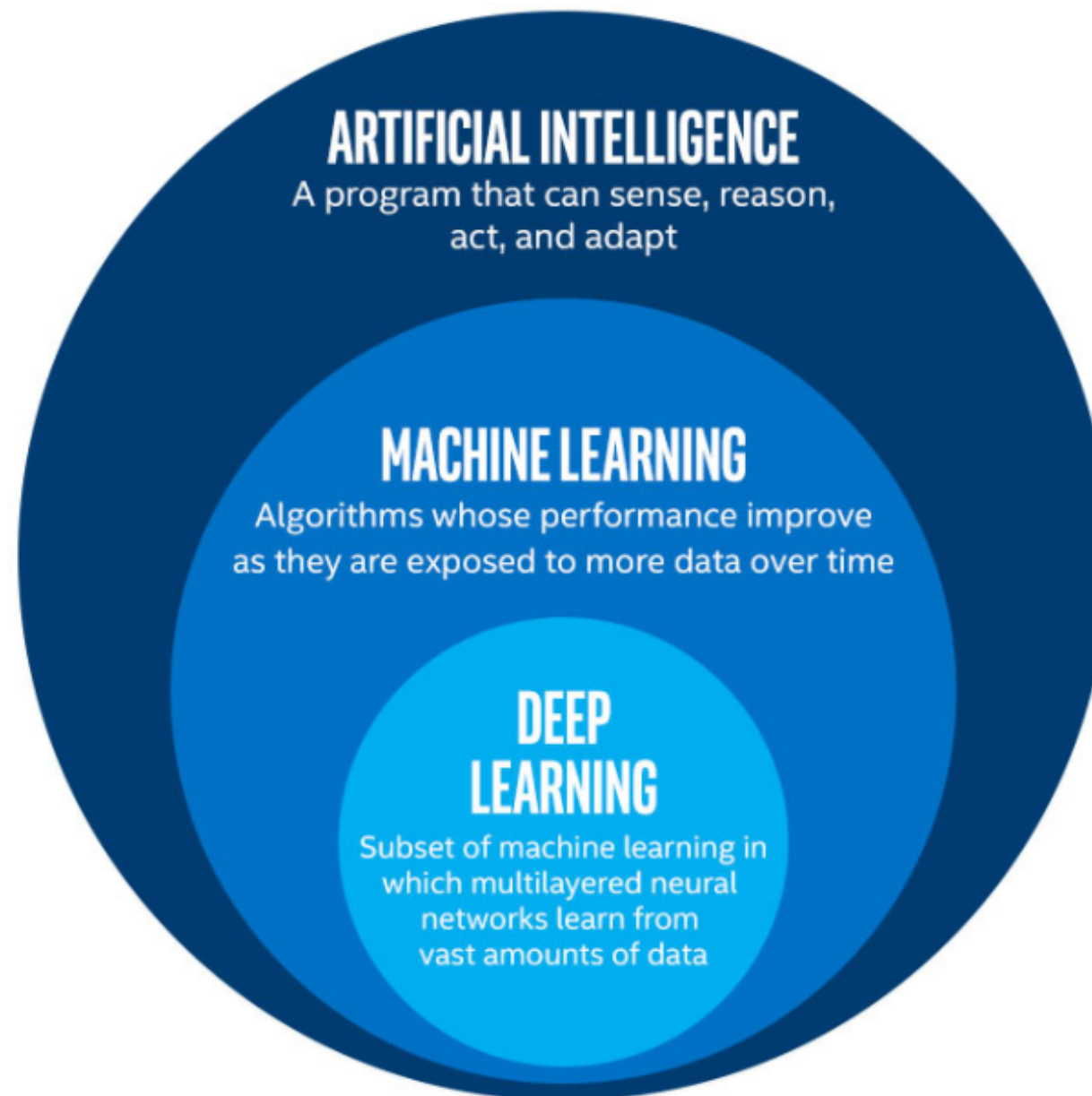
P Y T  R C H



“Artificial Intelligence is the New Electricity”

–Andrew Ng

The Intuition



Questions?

Let's get started with the real
part!