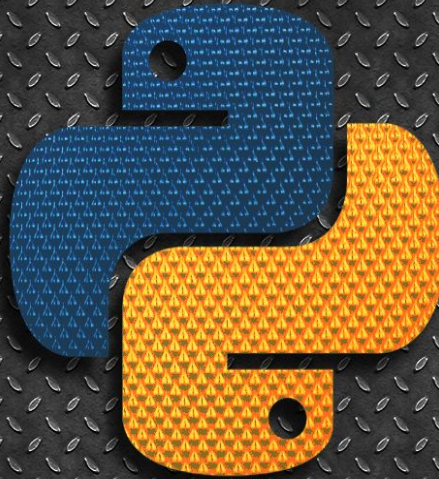


Introduction to Programming in Python





Outline

- What is Python? Why Python?
- Installing Python
- `print()` function
- Variables
- Control Flow: `if`, `else`, `elif` statements
- Exercise: Harry Potter Sorting Hat!
- Math! (Arithmetic Operators & `math` package)
- Functions
- Lists
- While loops
- For loops



What is a Program?

- Set of instructions

What is Python?

- "Python is an interpreted, object-oriented, high-level programming language with dynamic semantics" - python.org
- What?
- Basically, Python is an easy-to-use, powerful, general-purpose programming language



Why Python?

- Easy syntax
- General purpose
- Popular
- Many useful packages
- Free



Python 2 vs. 3

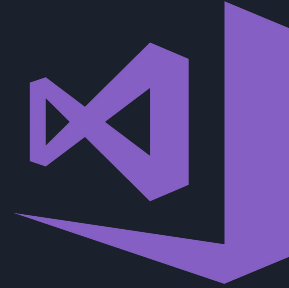
- Python 2 is older, support is ending, however, many companies still use it
- Python 3 is newer (and better!)
- There are some small, but notable, differences between them
 - division operator
 - print function
 - Unicode
 - etc.





Integrated Development Environment (IDE)

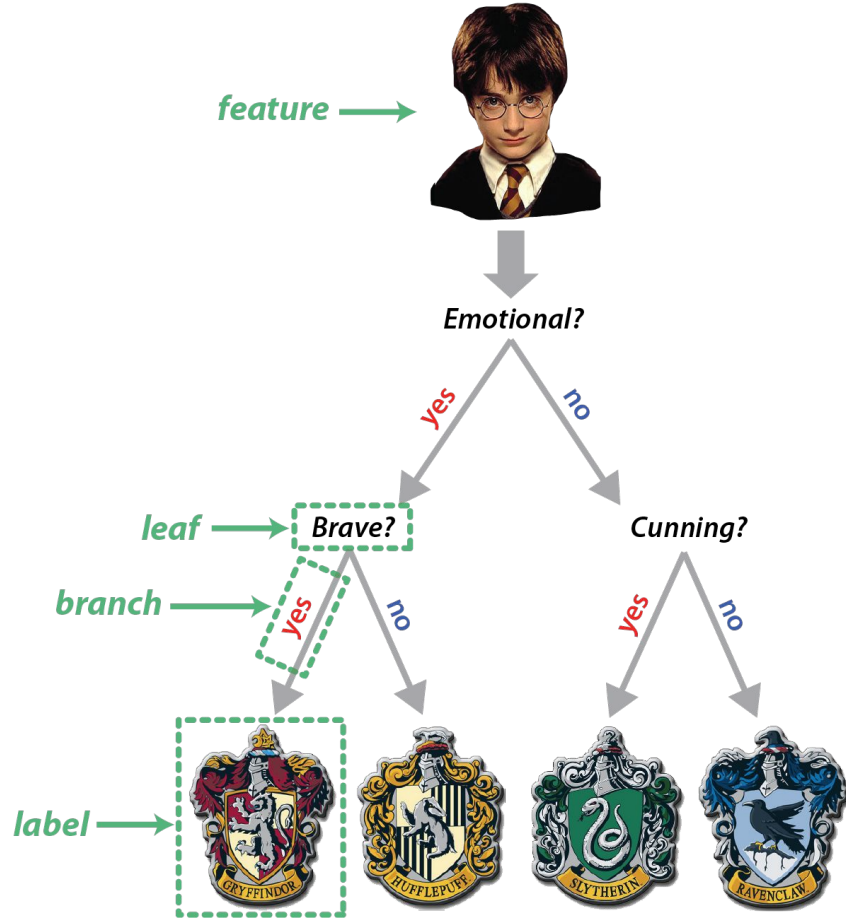
- Interface to write code





Installing Python & an IDE

- <https://www.anaconda.com/distribution/>





Further Resources

- Classes at OSU:
 - [CSE 4256](#)
- BDAA Workshops!
- Online Courses:
 - [Coursera: Python for Everybody](#)
- Books:
 - Beginner: *Python Crash Course: A Hands-On, Project-Based Introduction to Programming* - Eric Matthes
 - Beginner: *Head-First Python: A Brain-Friendly Guide* - Paul Barry
 - Intermediate: [Fluent Python - Luciano Ramalho](#)
- Internet
 - [Codecademy - Interactive Tutorials](#)
- People: BDAA Slack, Mentors, CSE Professors
- Projects
 - Kaggle

Questions?

- Any Questions?
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