

Programming

Variable

- Data representation that possess a location in memory
- Name and location are fixed, it stores data
- Data change

Examples

Variables

- Main building block of a program
- Its data might change
- They have different types

Primitive Data Types

- Int
- Char
- Bool

Complex Types

- String
- List/Map, etc.
- Class/functions
- None

Operators

- Base operations $+$, $-$, $*$, $/$, $\%$
- Examples

Concatenation

- Adding string together
- Str and int

Casting and built-in

- Variables can be “cast” to other types
 - `int()`, `char()`, `float()`, `str()`
- Python possess many built-in “functions”

Tips and Tricks

- Use comments to define logic (#)
- Start small
- Do not repeat yourself
- Keep it simple
- Test often

Installing packages

- In the terminal type:
 - `pip install <package name>`
 - Example: `pip install openai`