## Discussion 07

### **Object Oriented Programming**

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#### Announcements 📢

- Homework 5 is due Thursday 3/9.
- No live lecture on Wednesday 3/8
  - $\circ$  Watch the 5 lecture videos before attending discussion section.

## Object Oriented Programming (OOP) 🤐



# Object Oriented Programming (OOP)

- What is OOP?
  - Use of classes to define our own data types
    - More abstraction
  - Reuse code with inheritance
    - MORE ABSTRACTION
- Those with prior experience in Java are familiar
- You have already used OOP!
  - list.append
  - o append is a method belonging to the list class

## Some Terminology

- Class
  - Template for creation of object
- Object
  - An instance of a class
- Variables
  - Instance Variables
    - property specific to an object
  - Class Variables
    - property shared between all instances of a class
- Method
  - Function that is bound to a class

### **Functions vs Methods**

- Methods need to take in self as an object
- self argument tells which object to call method on
- Two methods of writing method calls
  - Class.method(self, args)
  - object.method(args)
    - self is automatically set as object
- Demo

### Worksheet

## Thank you!

Anon Feedback -> https://tinyurl.com/adit-anon