Python Class 8

Overview

- 1. Announcements
- 2. Review
- 3. Q&A
- 4. Basic assignment

Announcements

- Make assignments due March 20
- Python assignments due March 27

Review

- Python is a fairly intuitive language, I'll focus on quirks
- Mutability
- Real and floor division
- Comprehensions
- Keyword args
- Class definitions
- Dunder methods

Review Mutability

Review Real and floor division

- Real division: /
- Floor division: //

Review Comprehensions

```
List

[x.attr for x in l]

Set

{x.attr for x in l}

Dictionary

{k:v*2 for k, v in d.items()}

Can have conditions

[x.attr for x in l if x.cond()]
```

Review Keyword args

• somefunc(somearg=3, anotherarg=5)

Review Class definition

• __init__(self, ...) function as "constructor"

Review Dunder methods

- Special methods that start and end with ____
- Provide ability to implement underlying behavior of various operations
- Examples:
 - __add___
 - ∘ <u>__truediv_</u>
 - o __getitem__
- https://docs.python.org/3/reference/datamodel.html#special-method-names



Basic assignment