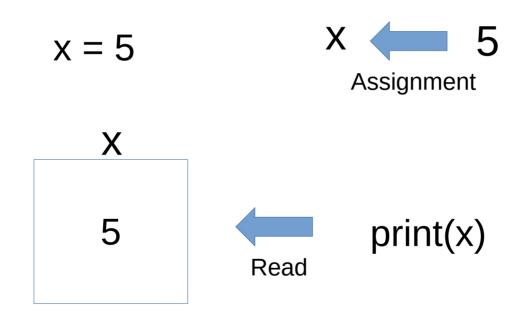
Day 1

Variables, Strings, Simple Python

Variables are just placeholders



Name your variables properly

- Lowercase
- Descriptive
- Underscore between words
- No conflict with inbuilt names

Numbers and Strings

"Hello world!"

" or ' Tells Python it's text

Text works very different from numbers!

What's the difference between 1 and 1.0?

Numbers!

- Integral type
- Float type
- Complex numbers

Pizza time!

- Build a Pizza calculator script
- Use variables for all numbers
- For a Pizza of Radius z and height a:
 V = Pi * z * z * a
- Pi = 22/7 (plenty close) or 3.14 (close enough)

Whitespace

- Use empty lines to section your script
- Avoid empty space where it doesn't belong
- Especially avoid it at the beginning of lines (more later)

Comments

- One-line comments are started with #, end with line
- Multi-line commands start and end with """
- Later you explain yourself the script
- Can also section things

Add some nice toppings

Properly comment and section your Pizza script

Strings!



String slicing

```
" Helloworld" 678910"
[0:5] [6:11]
```

Functions and methods

do(x): do is a function

x.do(): do is a method

You'll learn the difference later.

For now just remember which to use.

For your string needs

| .strip() | Remove whitespace at ends |
|--------------------|---------------------------|
| .replace(old, new) | Replaces "old" with "new" |
| .capitalize() | Like so |
| .lower() | like so |
| .title() | Like So |
| .upper() | LIKE SO |

and MANY MORE!!

World: "Hello you!"

- Write a nice greeter program to say hello to you.
- Use the input() and print() functions along with f-Strings.

What's my name?

- Slice and dice your name to make some funny creations.
- Be creative! ;)

Exercises

- 1. Replacing within a string:
- Create string with words separated by commas (,)
- Replace the commas with spaces
- Print out resulting string
- 2. Write a greeter program:
- Says hello, then asks for your name
- User inputs the name
- Prints a greeting with the name