CS50 Beyond

Python

Agenda

- Python
 - Sequences and Data Structures
 - Decorators
 - Exception Handling
- Flask
 - Routing
 - Templates
 - Form Handling

Hello

```
print("Hello, world!")
```

Variables

```
a = 28
b = 2.8
c = True
d = None
```

Sequences

```
name = "Alice"
coordinates = (10.0, 20.0)
names = ["Alice", "Bob", "Charlie"]
```

Functions

```
def square(x):
    return x * x
```

Decorators

```
def announce(f):
  def wrapper():
    print("About to run function...")
    f()
    print("Done running function.")
  return wrapper
```

Exception Handling

```
try:
    print(a / b)
except ZeroDivisionError
    print("Cannot divide by 0")
```

Flask

First Flask App

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def index():
    return "Hello, world!"
```

Routing

```
@app.route("/")
@app.route("/foo/bar")
@app.route("/<string:name>")
@app.route("/posts/<int:post_id>")
```

Morning Project

Tic-Tac-Toe

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