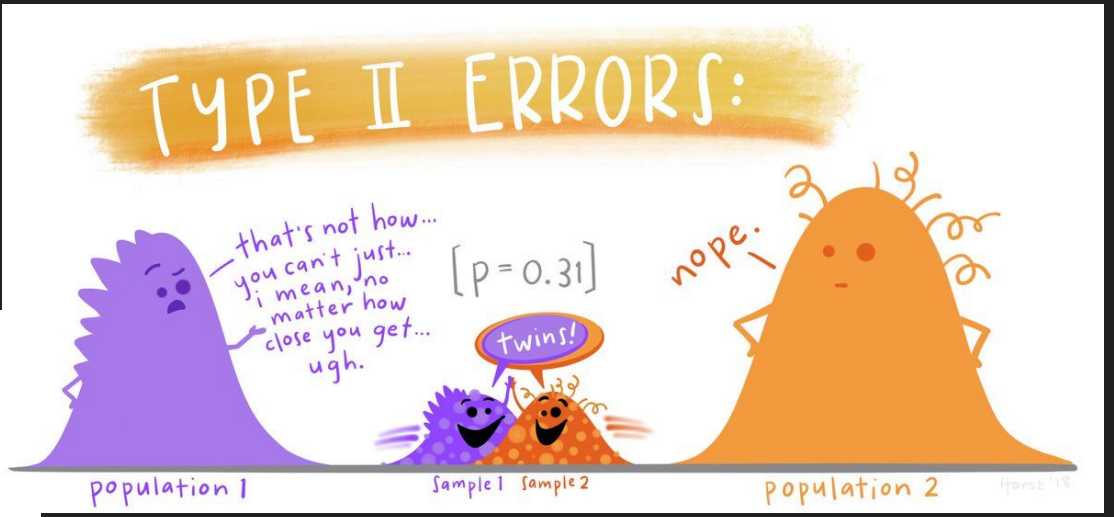
Course Overview

Chelsea Parlett-Pelleriti

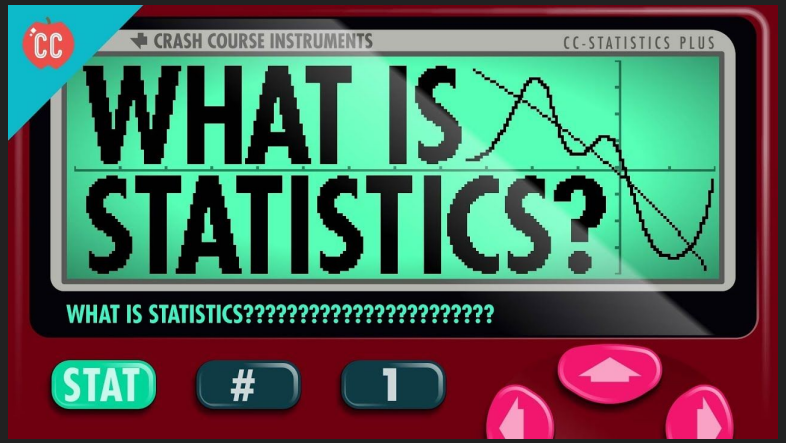
Who am I?

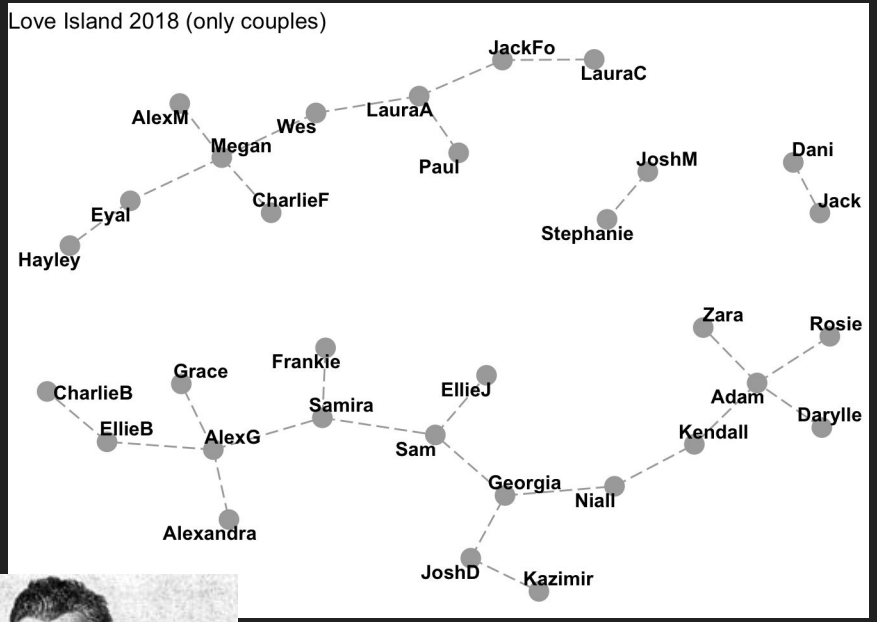
Dr. Chelsea Parlett-Pelleriti (she/her)

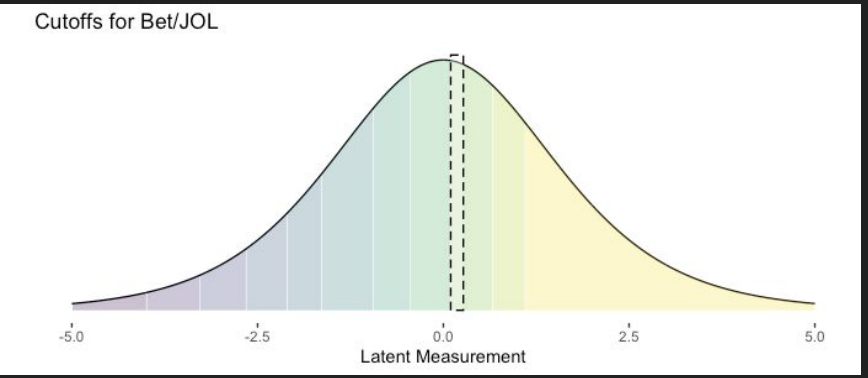


Who am I?

Who is this person?





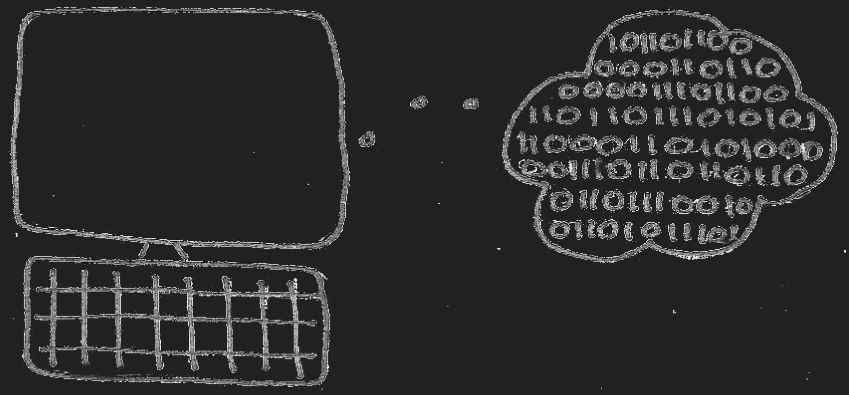


Using Python

```
from __future__ import division
from scipy import stats
import numpy as np
import pandas as pd
import random
import time


test = False
metaData = {"error": [], "Relationship?": [], "Dichot":[], "YES": []}
nExp = 1000
n = 20

error = range(5,250,5)
numTrial = range(0, nExp)

print "I'm Starting now :)"
start = time.time()
print start

for h in range(0,1):
    print h
    for i in error:
        if test:
            print i
```

What is this course?

- Introduction to Computer Science
- How to think like a Computer
- Programming in Python (Software Dev)
- Applications of Computer Programming



What is this course?

What is this course?

- Watch YT Lecture BEFORE class
- Read BEFORE class
- Review with me in class
- Work on Classwork, HW, Projects, Participation/Challenges, and Ask Questions in class
- Quizzes
  - Quizzes will ONLY cover material *up to* we did together in class the *previous* day.

README.md

CPSC230 Parlett-Pelleriti

Book

- Zybook Instructions on Canvas

Resources

- Lecture Playlist
- Late Days Google Form

Class Schedule may change

Week 1

Class 0

- Course Overview
  - Chapter 1 (1.1-1.5)

Class 1

- Intro to CS
  - Chapter 1 (1.6-1.11)
- Quiz

Friday

- Participation Activities Due (1.1-1.11)

Week 2

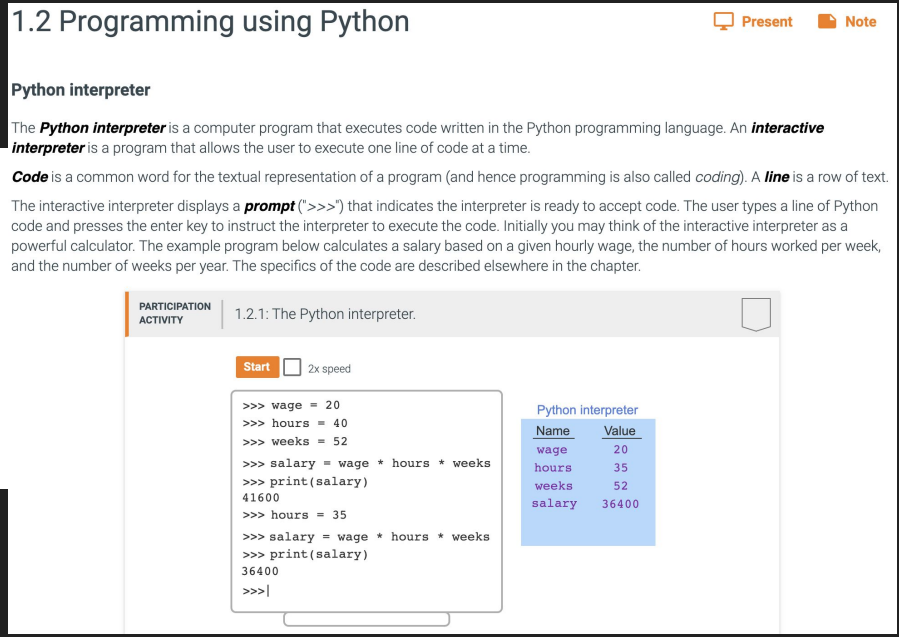
Class 2

- Intro to Programming & Python
  - Chapter 2 (2.1-2.6)

What is this course?

How to Get Your Textbook:

1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code: CHAPMANCPSC230Fall2021
3. Subscribe



1.2 Programming using Python

Present Note

Python interpreter

The ***Python interpreter*** is a computer program that executes code written in the Python programming language. An ***interactive interpreter*** is a program that allows the user to execute one line of code at a time.

Code is a common word for the textual representation of a program (and hence programming is also called *coding*). A ***line*** is a row of text.

The interactive interpreter displays a ***prompt*** (">>>") that indicates the interpreter is ready to accept code. The user types a line of Python code and presses the enter key to instruct the interpreter to execute the code. Initially you may think of the interactive interpreter as a powerful calculator. The example program below calculates a salary based on a given hourly wage, the number of hours worked per week, and the number of weeks per year. The specifics of the code are described elsewhere in the chapter.

PARTICIPATION ACTIVITY | 1.2.1: The Python interpreter.

Start 2x speed

```
>>> wage = 20
>>> hours = 40
>>> weeks = 52
>>> salary = wage * hours * weeks
>>> print(salary)
41600
>>> hours = 35
>>> salary = wage * hours * weeks
>>> print(salary)
36400
>>>
```

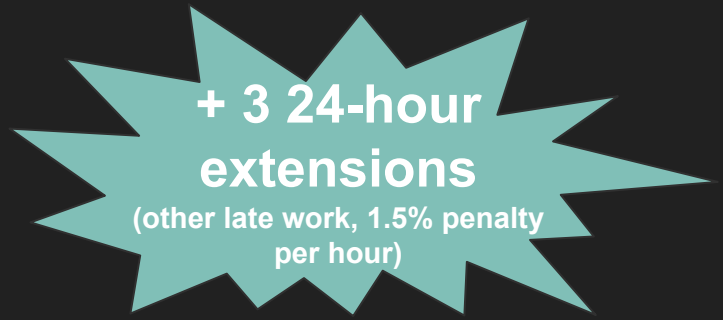
Python interpreter

Name	Value
wage	20
hours	35
weeks	52
salary	36400


How ~~is your research going?~~
are you?
HORST 2019

Your Grade

- Weekly Quizzes (15%; drop lowest 2)
- Programming Assignments (40%)
- Exam 1 (10%)
  - In Class + Project
- Exam 2 (10%)
  - In Class + Project
- Final (20%)
  - In Class + Project
- Extra Credit: YES, but only on Reviews + projects



Academic Integrity

- Cite your sources (e.g. StackOverflow)
  - When in doubt, cite it!
- Asking peers questions is okay, sharing code is not

Office Hours

- Zoom/Slack
- FOR NOW:
  - MW 10am-11am, TTh 11:30am-1pm, W 6-7pm

General

You’re adults, if you need to leave class, miss class, step out for a drink, I trust you to be responsible for what you missed.

I don’t believe in coming to class sick, just let me know BEFOREHAND if you’ll miss an exam or quiz due to illness and we’ll work something out.

You have other things going on besides 230, I trust you to prioritize things in a way that works for you.

You?