

# CSc 110

## Course Intro

Benjamin Dicken



# Welcome to CSc 110

- This is CSc 110, Introduction to Computer Programming I
- Want to learn how to program? . . . You're in the right class!

# Who is this guy?

- Benjamin Dicken (Instructor of record)
  - Office: Gould-Simpson 850
  - Email: [bddicken@email.arizona.edu](mailto:bddicken@email.arizona.edu)
  - Office Hours
    - See the class website!
    - Or by appointment

# Get to know Each-other

- Introduce yourself!
- Share your
  - Name
  - Major, declared or Intended  
(and why you chose that major)
  - What are 3 things you enjoy?

# What is this class, anyways?

- In this class, you will learn how to program
- Specifically, programming in Python (version 3)
- Will cover many of the basic principles and concepts that are common to a number of programming languages, such as
  - input/output
  - conditionals
  - loops
  - functions
  - data-structures
  - graphics
  - Debugging
  - and more!

Below is a Python program - What does it do?

```
print("You miss 100% of the")  
print("shots you never take")  
print(" - Wayne Gretzky")
```

Below is a Python program - What does it display?

```
from graphics import graphics
c = [175, 280, 30, 100, 180, 30]
gui = graphics(400, 400, 'canvas')
wh = 40
for i in range(0, len(c), 2):
    color = 'green'
    if c[i] > 177:
        color = 'blue'
    gui.rectangle(c[i], c[i+1], wh, wh, color)
wh += 20
```

# General Info

- For some, this is your very first CS course!
  - Prerequisites: College Algebra or CSc 101



# The intro sequence

This is the intro course sequence for the CS department

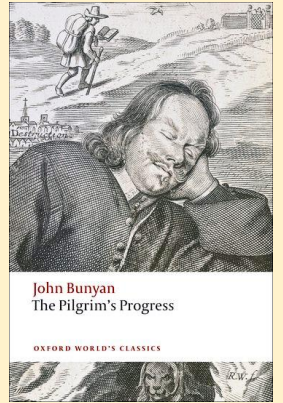
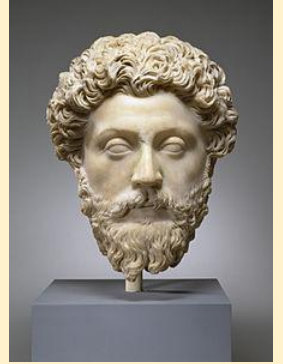
You are here



Close your computers, put away your phones

## Answer these questions

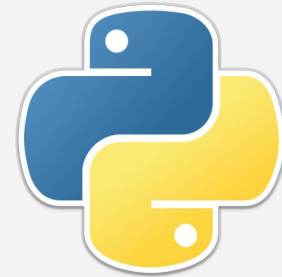
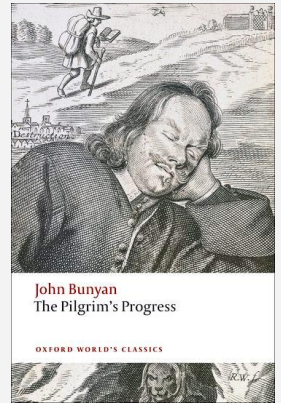
- As a group, try to answer these questions (no Googling)
  - What years did Marcus Aurelius rule Rome?
  - How many words in the novel “Pilgrim’s Progress”
  - Who created Python?



*Write your answers down on a whiteboard*

# Answer these questions

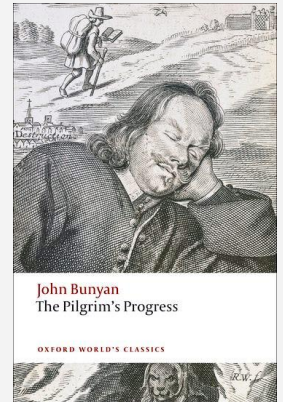
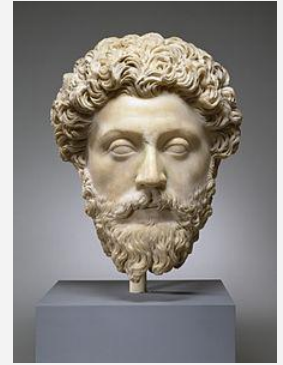
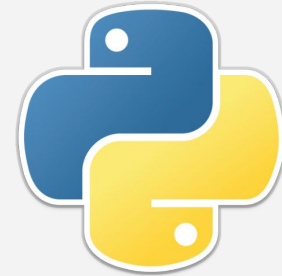
- As a group, try to answer these questions (no Googling)
  - What years did Marcus Aurelius rule Rome?  
**161 - 180 AD**
  - How many words in the novel “Pilgrim’s Progress”
  - Who created Python?



*Write your answers down on a whiteboard*

# Answer these questions

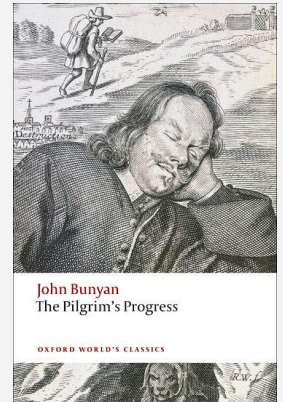
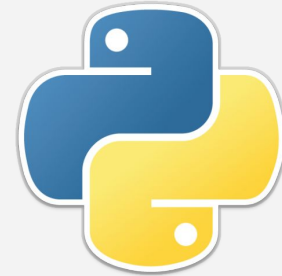
- As a group, try to answer these questions (no Googling)
  - What years did Marcus Aurelius rule Rome?  
**161 - 180 AD**
  - How many words in the novel “Pilgrim’s Progress”  
**108,260**
  - Who created Python?



*Write your answers down on a whiteboard*

# Answer these questions

- As a group, try to answer these questions (no Googling)
  - What years did Marcus Aurelius rule Rome?  
**161 - 180 AD**
  - How many words in the novel “Pilgrim’s Progress”  
**108,260**
  - Who created Python?  
**Guido van Rossum**



*Write your answers down on a whiteboard*

# Online Class

- Online class - no official meeting time
- There will be videos due on Fridays to be watched via D2L
  - Videos to have embedded questions
- Thus, some schedule flexibility!

# Class Website

<https://benjdd.com/courses/cs110/summer-2023/>

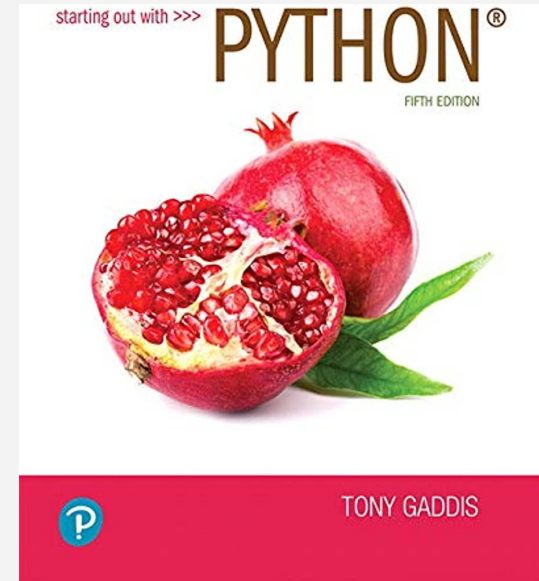


# Teaching Assistants (TAs)

- See the class website!
- The TAs are responsible for
  - Helping *you*, the students, succeed
  - Grading PAs and Exams
  - Helping students on office hours
- . . . So get to know them!

# Textbook

- Starting Out with Python (5th)
  - <https://www.amazon.com/dp/0134444329/>
- Via Inclusive Access, you can get access to this book for ~\$30
  - You can access this via D2L
  - Charged to your bursar's account
  - Can opt-out
  - Check D2L, make sure you can access!
    - <http://d2l.arizona.edu>



# What contributes to your grade?

- Exams
- Programming Assignments (PAs)
- Video Quizzes
- Prep Problems

# How much is each component worth?

*Look it up in the syllabus*

- Exams
- Programming Assignments (PAs)
- Video Quizzes
- Prep Problems
- Meetings

# How much is each component worth?

*Look it up in the syllabus*

- Exams 45%
- Programming Assignments (PAs) 30%
- Video Quizzes 10%
- Prep Problems 10%
- Meetings 5%

# Exams

- **3 Total**
- Each worth 15% of the grade
- See course schedule for the exam days

# Programming Assignments (PAs)

- There will be about 9 Programming Assignments
- <https://benjdd.com/courses/cs110/summer-2023/pas>
- Turn in via gradescope



# Video Quizzes

- Answer questions via playposit in the videos
- **Ensure that you can access the content tab on D2L**



# Required Office hour visit

- See the Syllabus

# Prep Problems

- Prep problems, due most days per week for first 9 weeks, except exam days, holidays, first day of class
- Gradescope

# Grading Policy

- ***Our commitment to you . . .***
  - We will do our best to return grades to you within 10 days of the late due date (so long as you turn it in on time)
- ***If you don't like your grade . . .***
  - You have ??? days from the time your grade is returned to you on Gradescope/D2L/etc to request a regrade. After that, your grade is ***final***

# How many days to request a regrade?

- Go to the class website, and try to find it in the syllabus!

# How many days to request a regrade?

- Go to the class website, and try to find it in the syllabus!

***7 days!***

# How to get help?

- ***Ask on Discord***
  - Can post to the group chat channels for general questions and guidance.
- ***Direct Email***
  - You're welcome to email Ben and TAs directly
- **Office hours (via Discord)**
  - Office hours will be via discord too
  - Visit these for more specific / direct help with homework

# Academic Integrity

- When you are working on a PA, you **can . . .**
  - Talk about ideas and techniques for solving the problem
  - Discuss the spec
  - Talk about the programming at a high-level
- But you may **not . . .**
  - Share code with each-other
  - Look at each-others code
  - Work on the project together, submit same code
- See syllabus, and [this](#)

# Exams

- Everything on an exam must be your own, original work
- No copy/pasting, no googling, etc, etc



# Readings

- There will be prep work (typically reading from the textbook) due throughout the week
- Can help with the prep problems too!
- You should do the readings \*before\* the prep problems and the videos for a day

# Reading

Go to the class website, and figure out what readings are due for both **Tuesday** and **Wednesday**

# Sites and Tools

- Sites:
  - [Course website](#) - Schedule, Syllabus, Office hour info, PAs
  - [Gradescope](#) - PA and Exam grading
  - [D2L](#) - Gradebook, textbook access
  - Discord - Office hours
- Tools/software/hardware:
  - Python 3
  - IDE



# How can you do well?

“Serious learning is inherently hard work that involves prolonged strenuous mental effort. The motivation to engage in that effort plays a large part in the learning outcomes.”

- Carl Edwin Wieman

# The first PA!

- See class website