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@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)
  - Coolest thing you did this summer??

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
    - lists
    - dictionaries
    - sets
    - graphics
    - and more!

Below is a Python program - What does it do?

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

Below is a Python program - What does it display?

```python
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

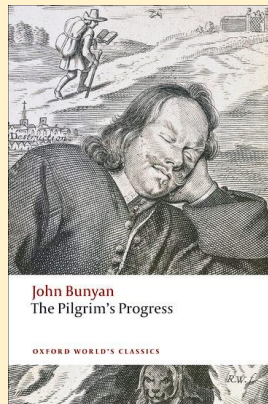This is the intro course sequence
for the CS department

You are here

CSc 120
Intro to Computer Programming II

CSc 110
Intro to Computer Programming I

CSc 101
Intro to Computer Science

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"
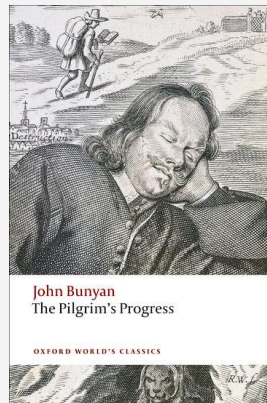
    ○ Who created Python?

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?

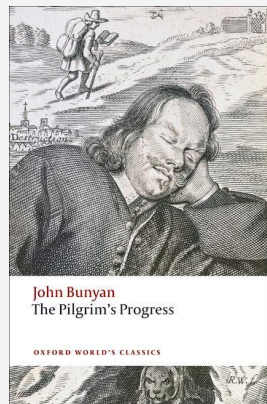*Write your answers down on a whiteboard*

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
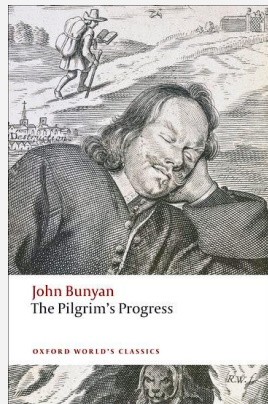   - Who created Python?

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

Class Website

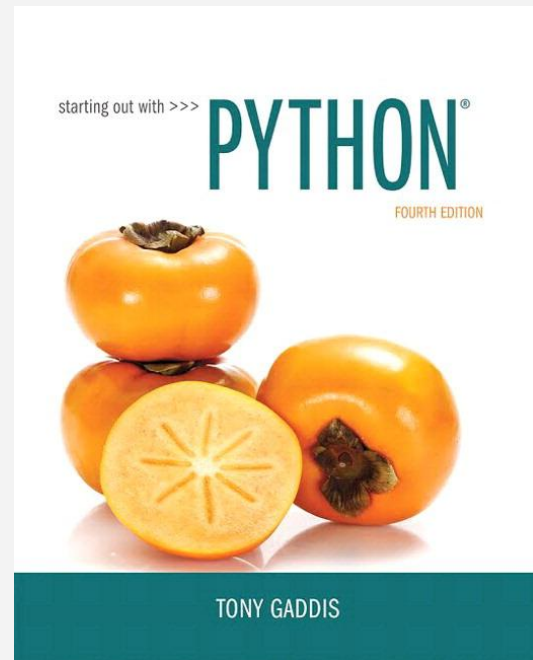https://bddicken.github.io/cs110fall2022website

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 (4th)
  - https://www.amazon.com/dp/0134444329/
- Via Inclusive Access, you can get access to this book for ~$30
  - You can access this via D2L
  - You do not need to pay until sometime in Sept
  - 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)
- Attendance
- Prep Problems

How much is each component worth?

Look it up in the syllabus

- Exams
- Programming Assignments (PAs)
- Attendance
- Prep Problems

How much is each component worth?

Look it up in the syllabus

- Exams   60%
- Programming Assignments (PAs)
- Attendance
- Prep Problems

How much is each component worth?

Look it up in the syllabus

- Exams   60%
- Programming Assignments (PAs)   25%
- Attendance
- Prep Problems

How much is each component worth?

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- Exams   60%
- Programming Assignments (PAs)   25%
- Attendance   10%
- Prep Problems

How much is each component worth?

Look it up in the syllabus

- Exams   60%
- Programming Assignments (PAs)   25%
- Attendance   10%
- Prep Problems   5%

Exams

- **4 Total**
- First three worth 15% each (both parts combined)
  - The lowest individual one is dropped
  - NO MAKE UPS, unless you have a dean's excuse and follow the correct procedures
- Final exam worth 15%
- See course schedule for dates

Programming Assignments (PAs)

- There will be about 12 regular PAs
- There will also be a short PA most weeks
- Turn in via gradescope

Attendance

- Attendance will be tracked vis attendance questions
- You should plan to attend every class
- If you need to miss class for an extended period of time to to required travel or severe illness, please contact either myself, the DRC, or the UA CS advising staff

Prep Problems

- There will be one or more online "prep problems", due *several days per week*
- These will be be based on either the prep material, or something covered in class
- Gradescope

Grading Policy

- ***Grading Goal . . .***
  - We will do our best to return grades to you within 1 week of the LATE deadline (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!

5 days!

How to get help?

- ***Ask a question via Discord***
  - You are responsible to keep up with announcements and info communicated there, so check regularly
- **Visit office hours!**
  - Ben, Adriana, and the TAs are going to have office hours, see course site
  - For TAs start TOMORROW

Academic Integrity

- When you are working on a solo 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 eachothers code
  - Work on the project together, submit same code
- See syllabus, and this

Readings

- There will be prep work (typically reading from the textbook) due before each class
- Can help with the prep problems too!

Reading

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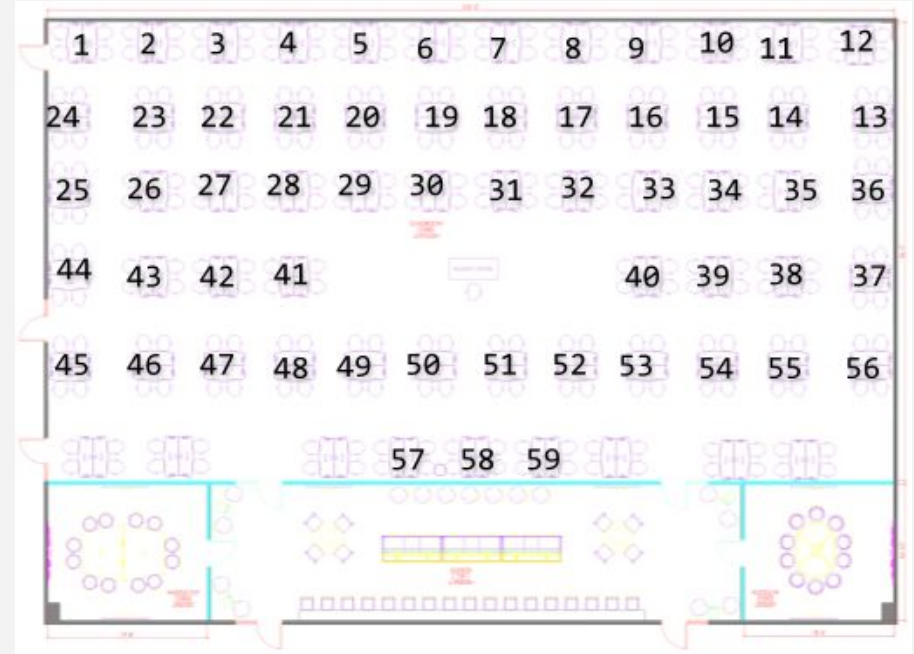
Sites and Tools

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

Groups

- Will assign every student to a group
- Will determine where you sit, who you sit with, who you take group exams with

Online Course COmponent

- 4 unit course, one unit of "online"
- Might have occasional videos for you to watch for this

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