CSc 110
Course Intro

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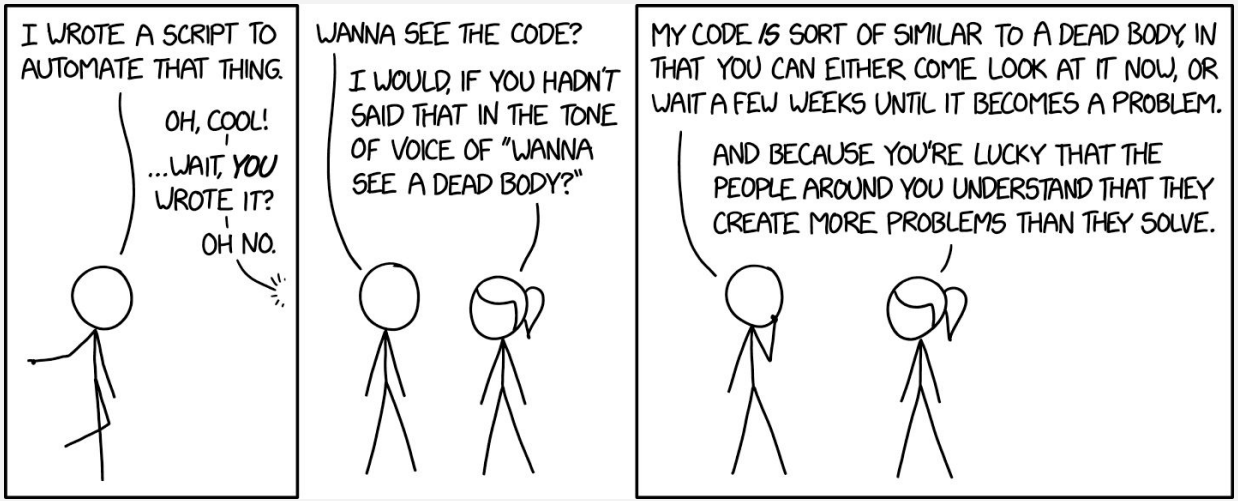


https://xkcd.com/2138/

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 am I?

- Adriana Picoral (Instructor of record)
  - Office: Gould-Simpson 829
  - Email: adrianaps@arizona.edu

Activity

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
  - 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?

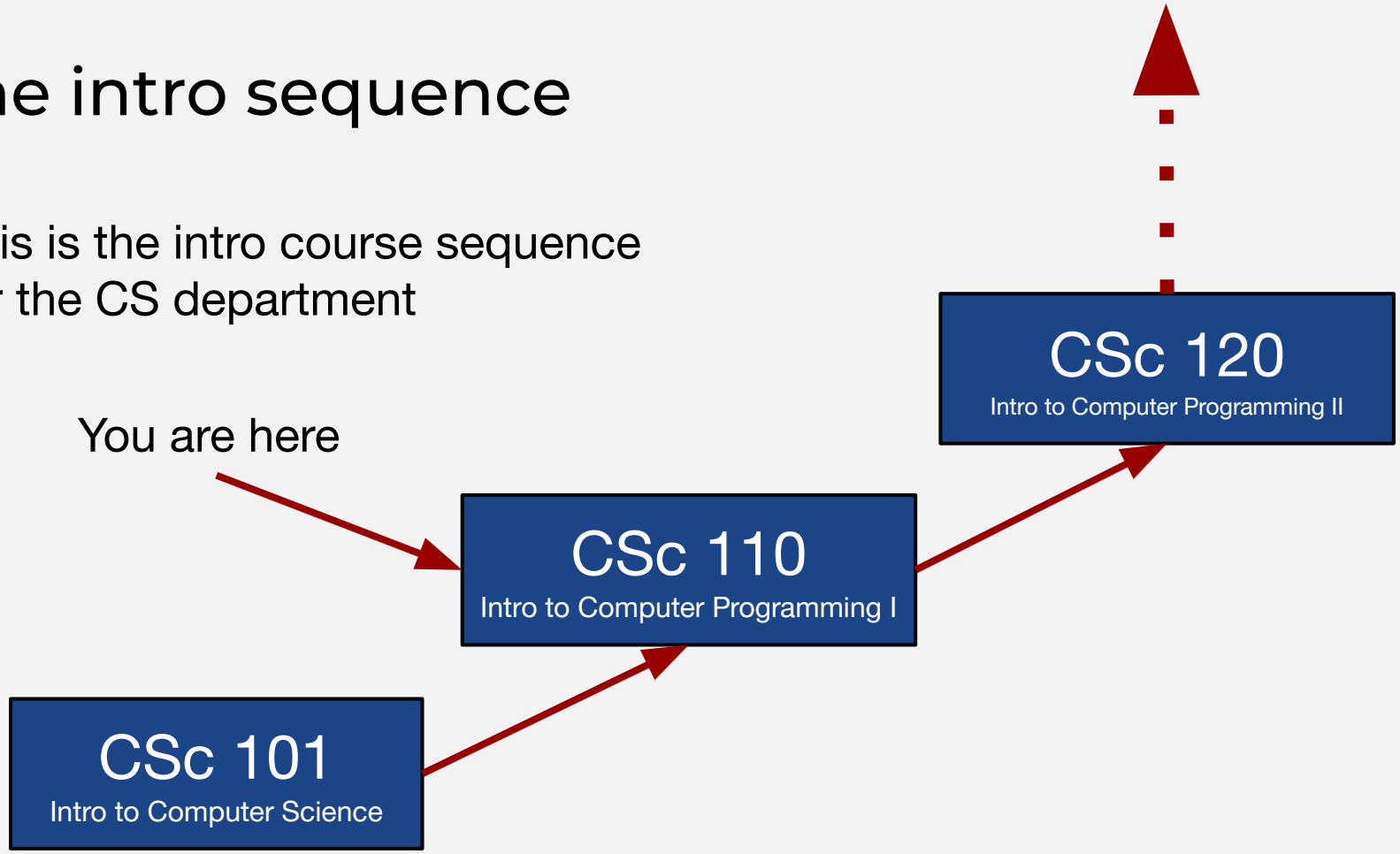
```
numbers = [1, 3, 5, 2, 9, 4, 7, 6, 8]
count_odd = 0
count_even = 0
for x in numbers:
  if x % 2:
    count_odd += 1
  else:
    count_even += 1
print("Number of even numbers:", count_even)
print("Number of odd numbers:", count_odd)
```

General Info

- For some, this is your very first CS course!
  - Prerequisites: College Algebra or CSc 101 or appropriate math placement score
- Last day for students to add themselves to a course using UAccess is August 29
- Last day CS staff can enroll students in courses is September 2

The intro sequence

This is the intro course sequence for the CS department



Answer these questions

- As a group, try to answer these questions
    - How many students are enrolled in this course?
    - What percentage of the class is freshmen?
    - What is the second most common major represented in this class?

Write your answers down on a whiteboard

Answer these questions

- As a group, try to answer these questions
    - How many students are enrolled in this course? **234**
    - What percentage of the class is freshmen? **55.6%**
    - What is the second most common major represented in this class? **Astronomy**

Class Website

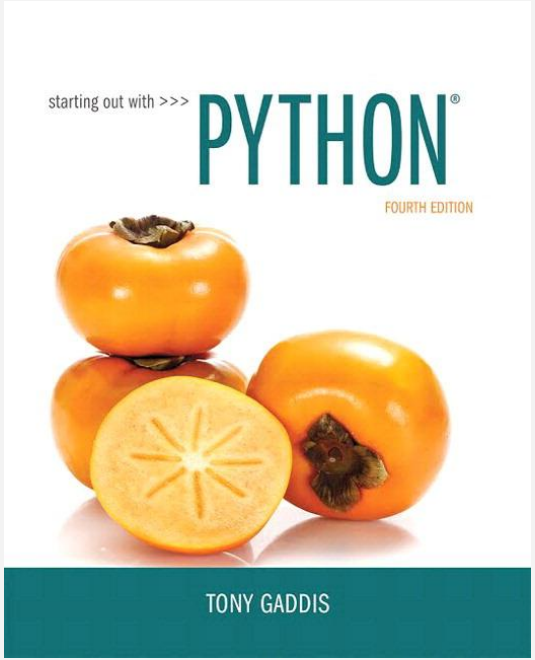
http://adrianapicoral.com/csc-110

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 and participation
- Prep Problems

How much is each component worth?

Look it up in the syllabus (adrianapicoral.com/csc-110)

- 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?

Look it up in the syllabus

- 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 PAs
- https://bddicken.github.io/cs110fall2022website/pas/
- Turn in via gradescope

Attendance

- Attendance will be tracked via 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

- ***Our commitment to you . . .***
  - 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***

Activity

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*** ***https://discord.gg/3UYA9YrQ***
  - You are responsible for all info, announcements, etc communicated there
  - Public and Private posts
- **Visit office hours!**
  - Ben, Adriana and the TAs will have office hours (see course site)
  - For TAs start TOMORROW
- **Required TA meeting**
  - Required to meet with your TA twice throughout semester

How to ask questions

1. Read the error message
2. Check for typos
3. Google the error
4. If you are still stuck, you an always try **rubber duck debugging**. Describe the problem aloud, explaining it line-by-line, to a rubber duck or another person. Good preparation step to asking other people for help (next step).

How to ask questions

Be **precise** and **informative**. The more context you can provide about what you're trying to do and what errors you're getting, the better. Also describe the **steps you took to try to solve the problem yourself**.

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

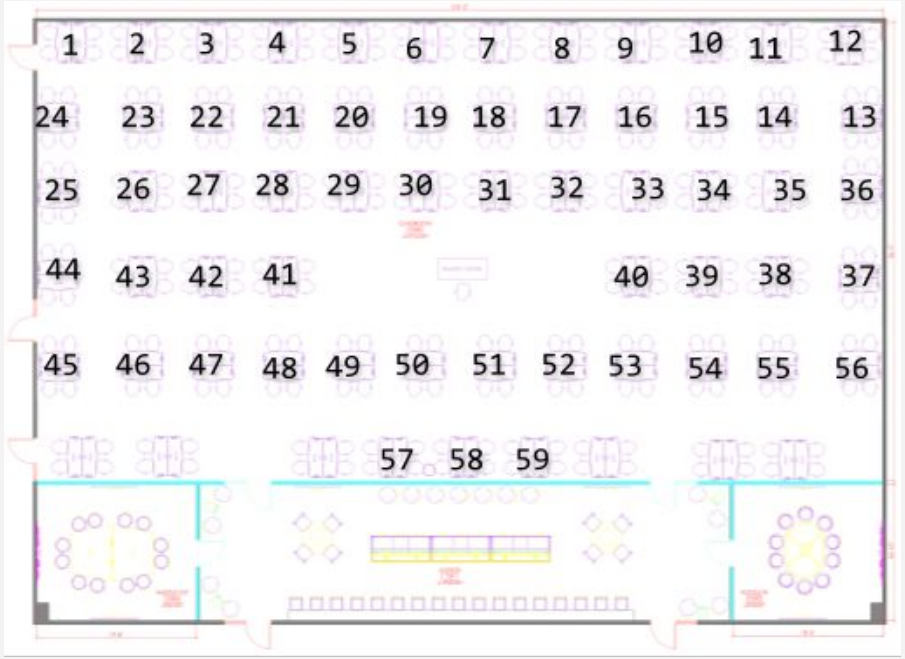
Go to the class website, and figure out what readings are due for both **Wednesday** and **Friday**

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 - I use VS Code

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

“When we give ourselves permission to fail, we, at the same time, give ourselves permission to excel.”

- Eloise Ristad

The first PA!

- See class website