CSET-105
Intro to Web Applications

Welcome to CSET!

Find a seat, meet your fellow students, and fill out the **first page** in front of you.

Agenda

1. [ ] Complete Info Sheets
2. [ ] Daily Journal
3. [ ] Review Schedule
4. [ ] Review Syllabi
5. [ ] Programming Basics
6. [ ] Hand Out Laptops

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Quickest way to contact me is on Slack.

Find Someone Who...

Flip your info sheet over and see how many boxes you can fill out by meeting your classmates.

Daily Journal

- Short writing prompt every day to start class
- Write down the date
- Write down the prompt word for word
- Then write a few lines about it

Sometimes they're questions to make you think about life. Sometimes they'll be puzzles to get you warmed up for class.

2019-08-19

What do I want to build with the knowledge I'll have when I graduate?

Class Schedule

The easy stuff:

- Seventeen weeks until Winter Break
- Monday through Friday from 12:00 to 4:30 pm
- Wednesdays start at 12:30 pm
- Greenfield campus

Class Schedule

Slightly harder stuff:

- Monday & Tuesday:
  - CSET-105 first half of semester
  - CSET-115 second half of semester
- Wednesday & Thursday:
  - CSET-110
- Friday:
  - CSET-120

Course Websites

- CSET-105 Intro to Web Applications
- CSET-110 Web Development I
- CSET-115 Technical Requirements & Data Structures
- CSET-120 Software Project I

Programming Basics

Or, How To Think Like A Computer

Terms

- Computer Program
- Algorithm
- Binary
- Unicode
- Abstraction
- Pseudocode
- Boolean

Do you **know** any of these terms? What about **recognize**? Are any **new**?

The goal is to improve your knowledge and skills to develop programs that solve real-world problems.

What is a computer program?

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It's LeviOsa, not LeviosAR!

How do we represent our problem?

Count the number of people in this room.

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Count the number of people in this room.

- Tally marks on the whiteboard
- Counting on our fingers

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What if I only have one hand?

Binary

- Computers only understand electricity or not electricity
- Yes / No, True / False, 1 / 0
- We count in Decimal, there are 10 symbols
- Binary is counting with 2 symbols

123

One Hundred Twenty Three

Decimal

Hundreds	Tens	Ones
1	2	3

Binary

Fours	Twos	Ones
0	0	0
0	1	1

Binary Is More Than Numbers

- ASCII, common pattern to translate
- 65 means "A", 66 means "B"...
- Computer uses context to figure out what the binary means

Bit: One binary digit Byte: Eight bits

72 73 33

72 73 33

H I !

How many symbols are there?

Abstraction

- Lower levels are hidden
- We use easier higher levels

We don't need binary, we'll use a programming language

Pseudocode

- Not a real programming language, just an abstraction
- Looks like english

Program me to make a PB&J

The End!