

# Announcements

## Welcome – You've found CSE120

- Announcements are usually listed here and displayed before the start of class
- ... they are also given at the top of the class Web page; they are not usually archived here
- Class Web Page:
  - [courses.cs.washington.edu/courses/cse120/15wi/](http://courses.cs.washington.edu/courses/cse120/15wi/)

CSE120

# Computer Science Principles

*Lawrence Snyder*  
*University of Washington, Seattle*

# Computer Science Principles

- CSE120 is a science class teaching fundamental ideas of Computer Science
  - We don't use test tubes – CS is not 'physical'
  - We do teach the laws of nature concerning data, information, algorithms, abstraction, logic, etc.
- This class is for general audiences
  - It is not a “majors” class
  - It could prepare you to take “majors” classes

# This Course Covers 2 Kinds of Info

- I see the task of this course as teaching
  - **Computational Principles** – “bits can represent all information” – that everyone should know
  - **Computational Thinking** – ways you can use computers to solve (your) problems

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  - **Computational Principles** – “bits can represent all information” – that everyone should know
  - **Computational Thinking** – ways you can use computers to solve (your) problems
- If you were thinking this class will be ...
  - **Trivial**, forget it: I teach stuff you haven't had before
  - **Difficult**, forget it: The class was designed to be a high school AP class
  - **Fun and interesting**: Perfect ... that's what it is

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- Programming's a career; it takes years to learn; it pays really well; "normal people" do it, too
- I teach some programming in this class as part of teaching computational thinking
  - You won't be a programmer at the end
  - You will still be however "normal" as you are today
  - You will, I hope, also think differently as a result

# Class Structure

- 3 lectures – I will talk, demo and we'll all discuss various topics
- 2 labs – practice with the TAs present
- Homework – exercises that help push the material further ... **one hour a day, as needed**
  
- “Team project,” Midterm, Final
- Fridays “After Image Survey” ... worth a few points, takes less than 5 minutes, gives me feedback on how things are going



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A goal of this class is to teach you to think computationally ...

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That's important enough to repeat ...

This class can actually *make you smarter!*

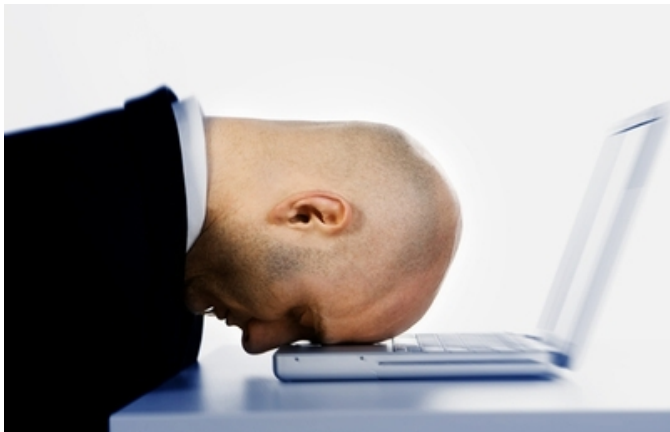
All you need to do is ...

# Learn CS Principles By ...

- Plan A



- Plan B



# Learn CS Principles By ...

## ■ Plan A



## Plan B

Make a  
good-faith  
effort to try  
everything  
and think  
about what  
you do

# Tips for Doing Well in CSE120

- Attend classes and labs ... duh!
- Keep up with the assignments – 1 hr/day
- If you will miss ANY deadline, don't ignore it – tell me the problem & get an extension **before**
- Be persistent ... many things will seem confusing at first, but you CAN figure them out ... stay with it
- If you don't “get” something, ask a TA or me

# Expectations ... yours for me

- Academically, you can expect me to ...
  - Select most important topics for the curriculum
  - Present the material in the clearest possible way
  - Select exercises and lab assignments that
    - Further your education in this class
    - Are interesting and enjoyable
    - Appreciate that you have other things in your life

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- Personally, you can expect me to be ...
  - Respectful, cooperative, understanding, ...
  - Encouraging, accepting of your contributions, ...
  - Provide help, both online and 1-on-1

# Expectations ... mine for you

- Academically, I expect you ...
  - **To come to class & labs** ready to learn CS Principles
  - To make a sincere effort to understand the material
  - Go online to work on this class each day ...
    - Submit work that **you** alone created, except team asmts
    - Make constructive comments about improving this class



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    - Make constructive comments about improving this class
- Personally, I expect you to
  - Be respectful of me and the other students
  - Contribute to helping others on discussion board
  - Meet deadlines; ask for extensions in extreme need

# Introductions ...

- Instructor: Larry Snyder, Prof. Emeritus
  - I like travel; I've lived in > 1/2 dozen other countries
  - A favorite food is anchovies + potato chips
- TAs: Dun-Yu Hsiao, Sona Grigoryan, Bran Hagger, Geoff Liu

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- ... and you?
  - A Favorite Food



# Announcements

- What you need to do today
  - “**Sign up**” for this class – that’s tech lingo for committing yourself to succeed in this class
  - Familiarize yourself with the class Web page at [courses.cs.washington.edu/courses/cse120/15wi/](http://courses.cs.washington.edu/courses/cse120/15wi/) including ...
    - The location of announcements, assignments, etc.
    - The Academic Conduct guidelines
- Take the Pre-survey, linked from the Web page

# Calendar ...

CSE120 Computer Science Principles

## Calendar

2015

All of the scheduling information -- days off, assignments, due dates, reading links, etc. -- are presented on this page. Notice that some links are present, but not populated with a file yet.

## Calendar

All Assignments are due before class on the day shown.

Date	Topic	Assignment	Due Today
Jan 5	Lec: Introduction, Expectations, The Plan <a href="#">Slides</a>	<a href="#">Assignment 1</a>	<a href="#">Precourse Survey</a>
Jan 6	Lab: "What I value" writing exercise; FTP	<a href="#">Lab 1</a>	<a href="#">Essay Collect</a>
Jan 7	Lec: Lightbot 2.0 - A Game or Programming? <a href="#">Slides</a>	<a href="#">Assignment 2</a>	<a href="#">Assignment 1</a>
Jan 8	Lab: Informal Algorithms	<a href="#">Lab 2</a>	<a href="#">Bauby Blinks Collect</a>
Jan 9	Lec: Functions -- the Punchline <a href="#">Slides</a>	<a href="#">Assignment 3</a>	<a href="#">Assignment 2 Collect</a> <a href="#">After Image Survey by 5:00</a>

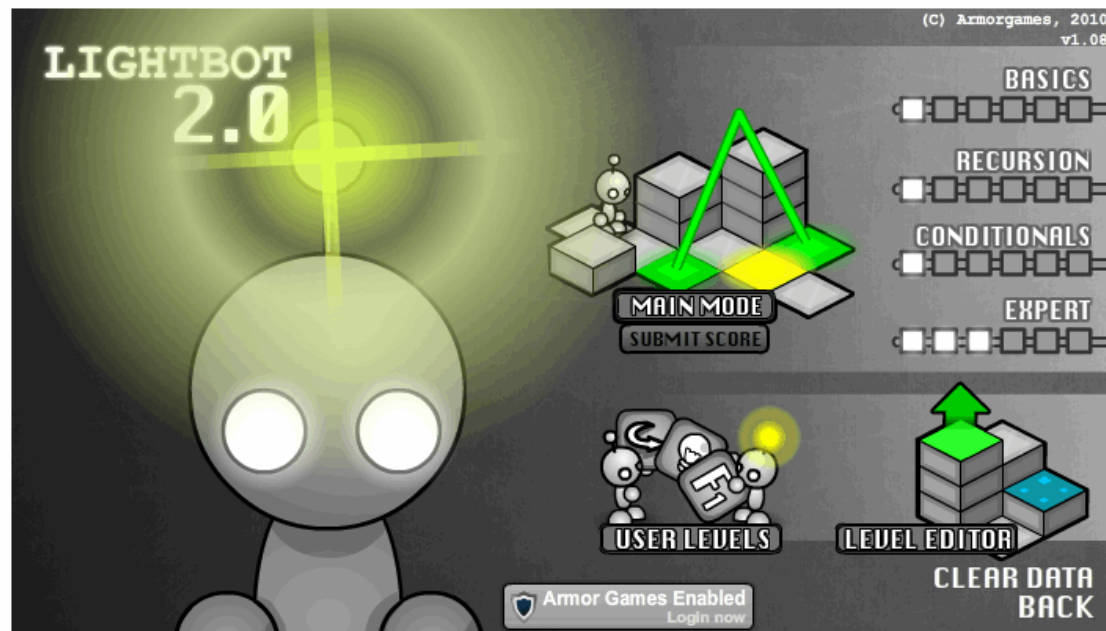
Weekend

[Panic Button](#)  
[Anonymous Email To Instructors](#)

[Home](#)  
[Contact](#)  
[Class Overview](#)  
[Calendar](#)  
[THIS Week](#)

# Assignment 1: Lightbot 2.0

- Lightbot shows up on many gaming sites, but whether or not it's a “game” is a topic for Wednesday
  - You direct a robot around a “blocks world”
  - It's pretty easy, and I hope it's fun ... there is a purpose to doing it



# Questions?