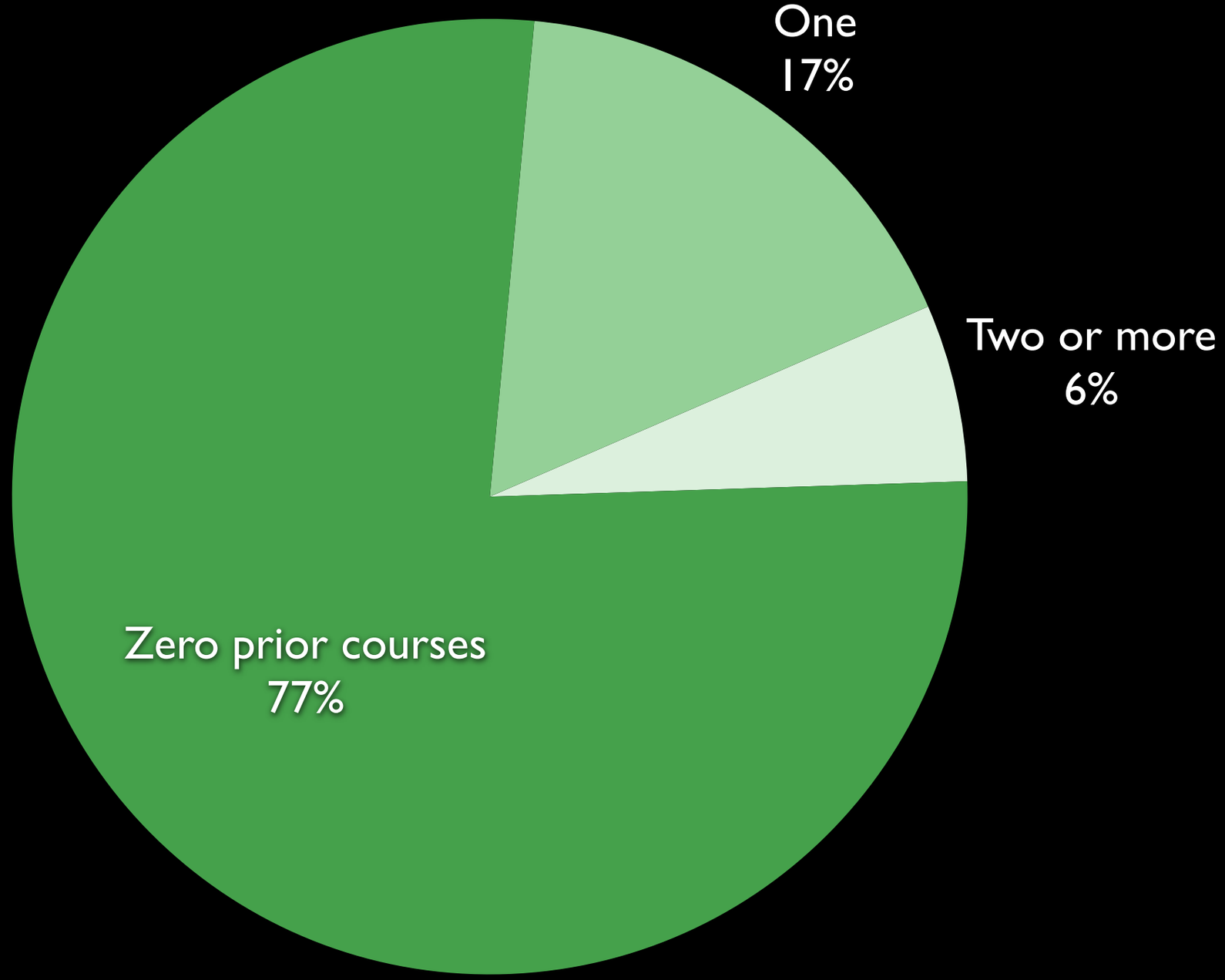
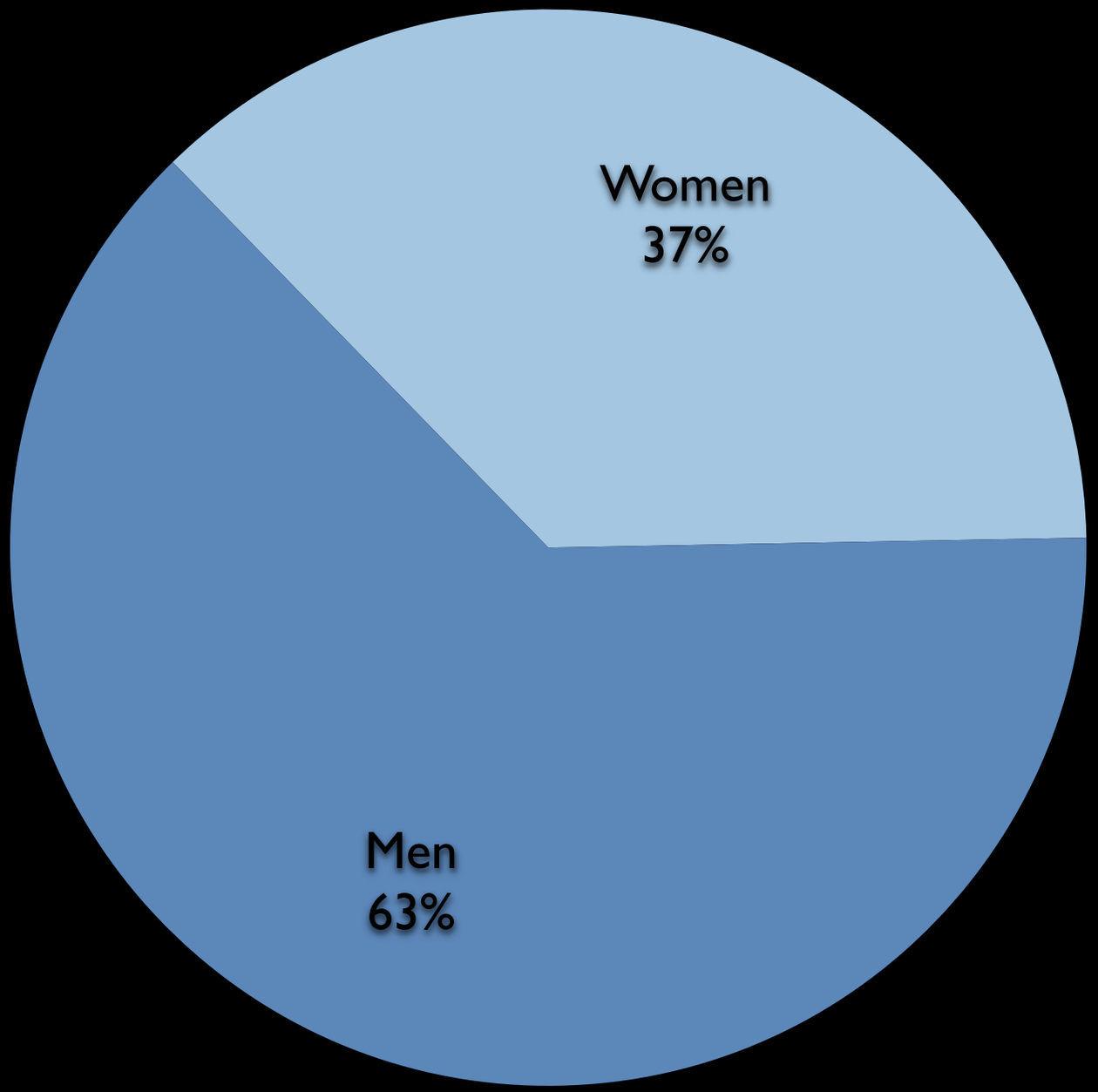
This is CS50

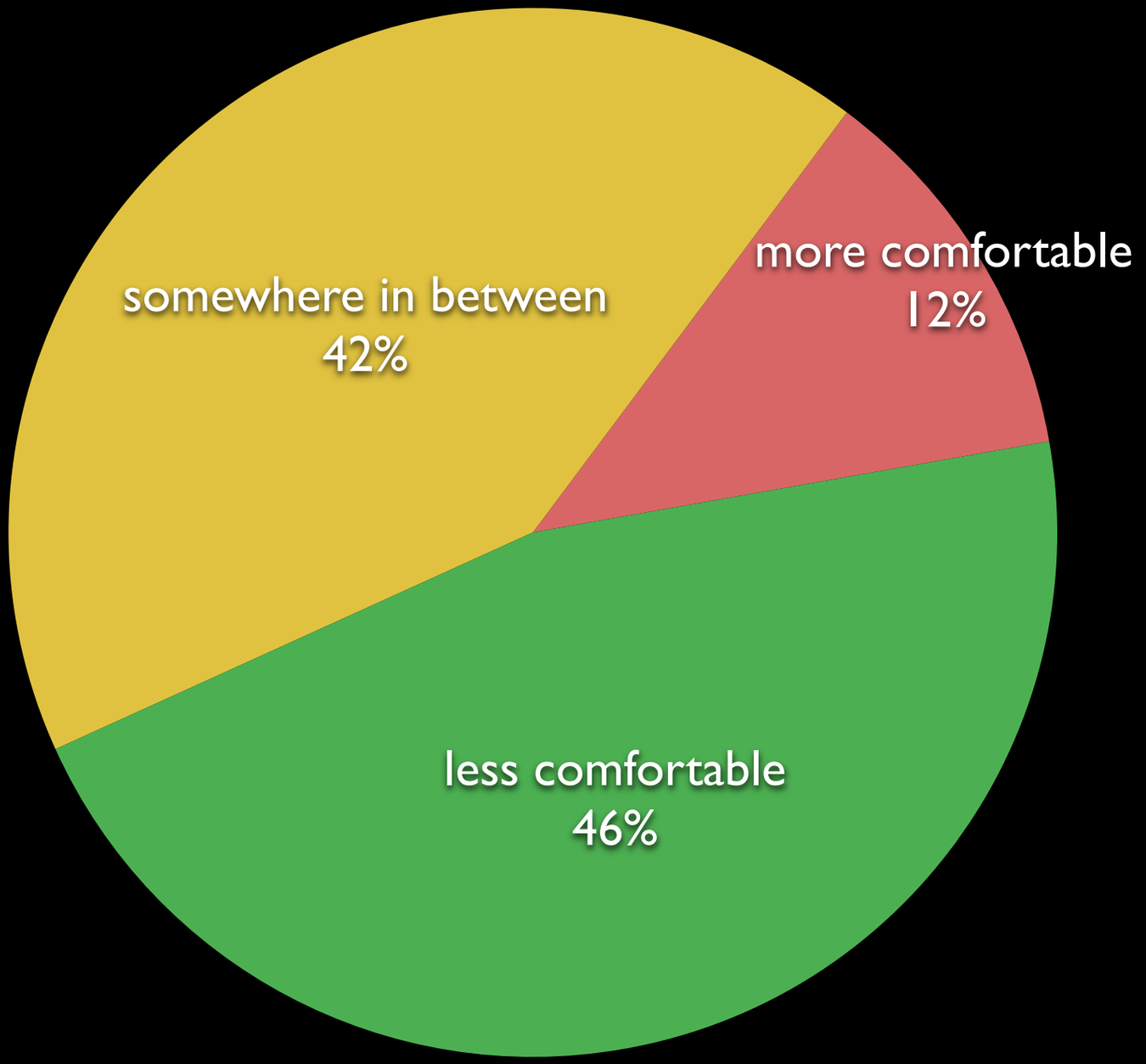
77% of the people around you have no prior experience



gender

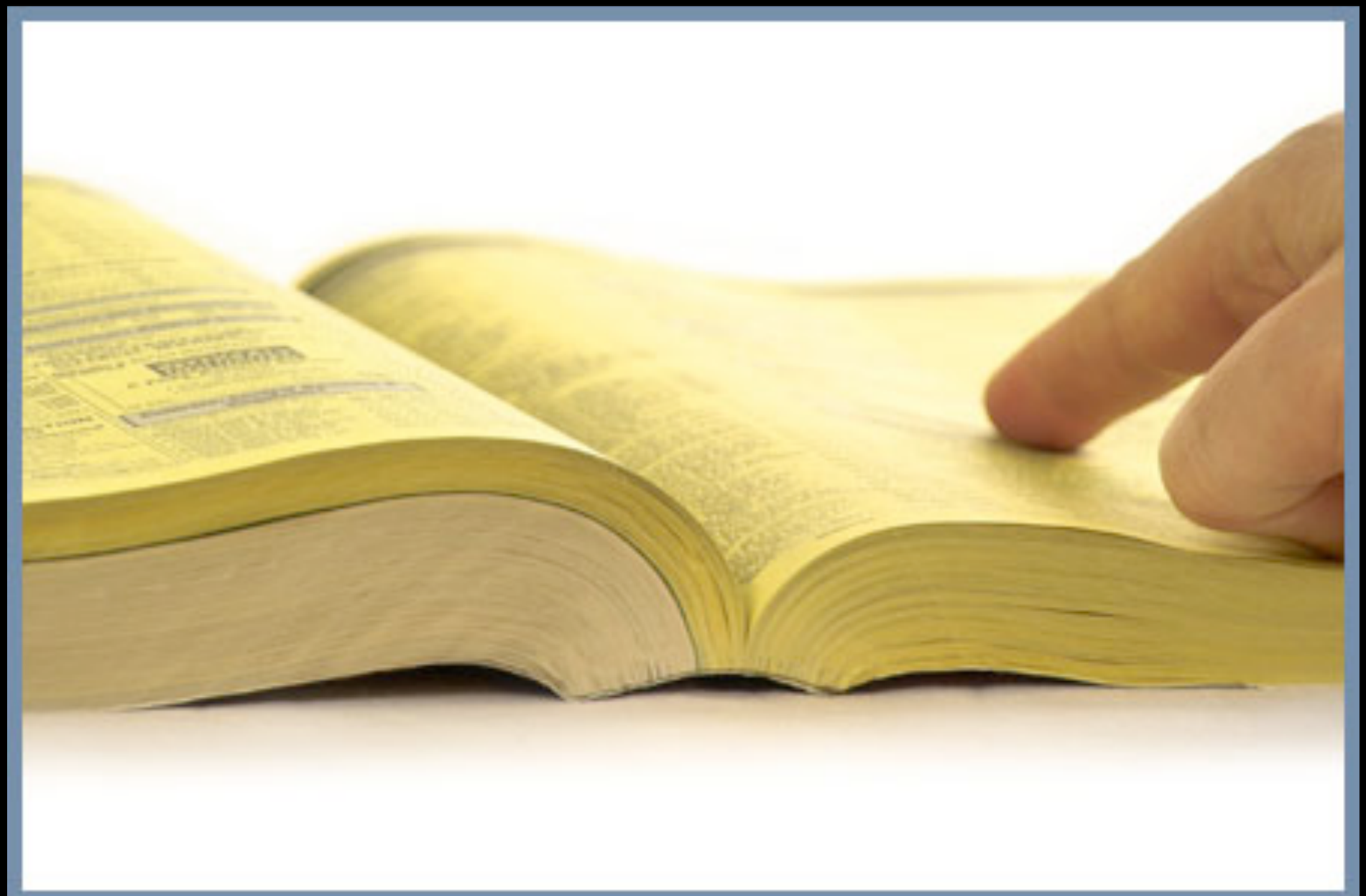


comfort


somewhere in between
42%
more comfortable
12%
less comfortable
46%

87

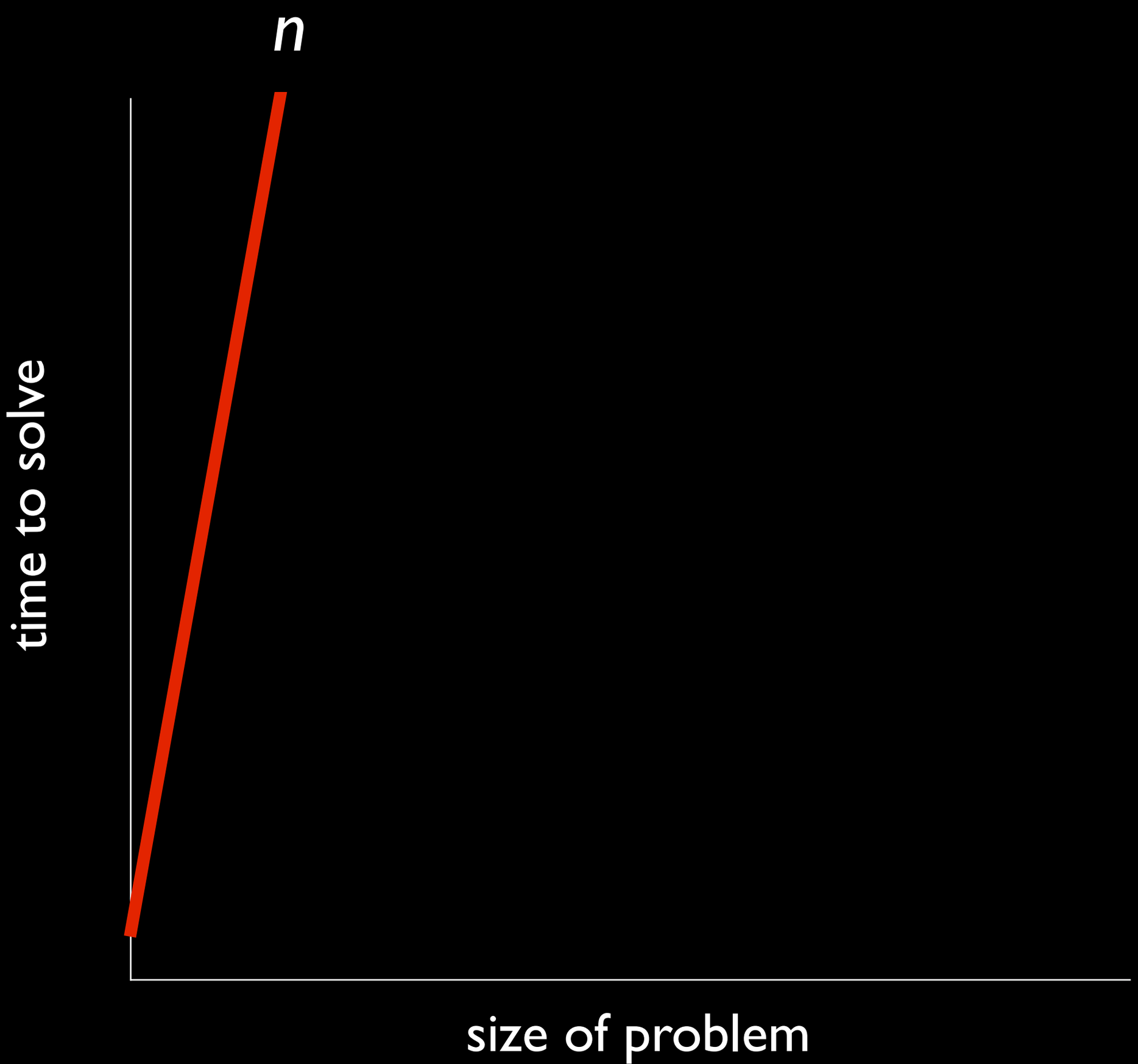
size of CS50's staff

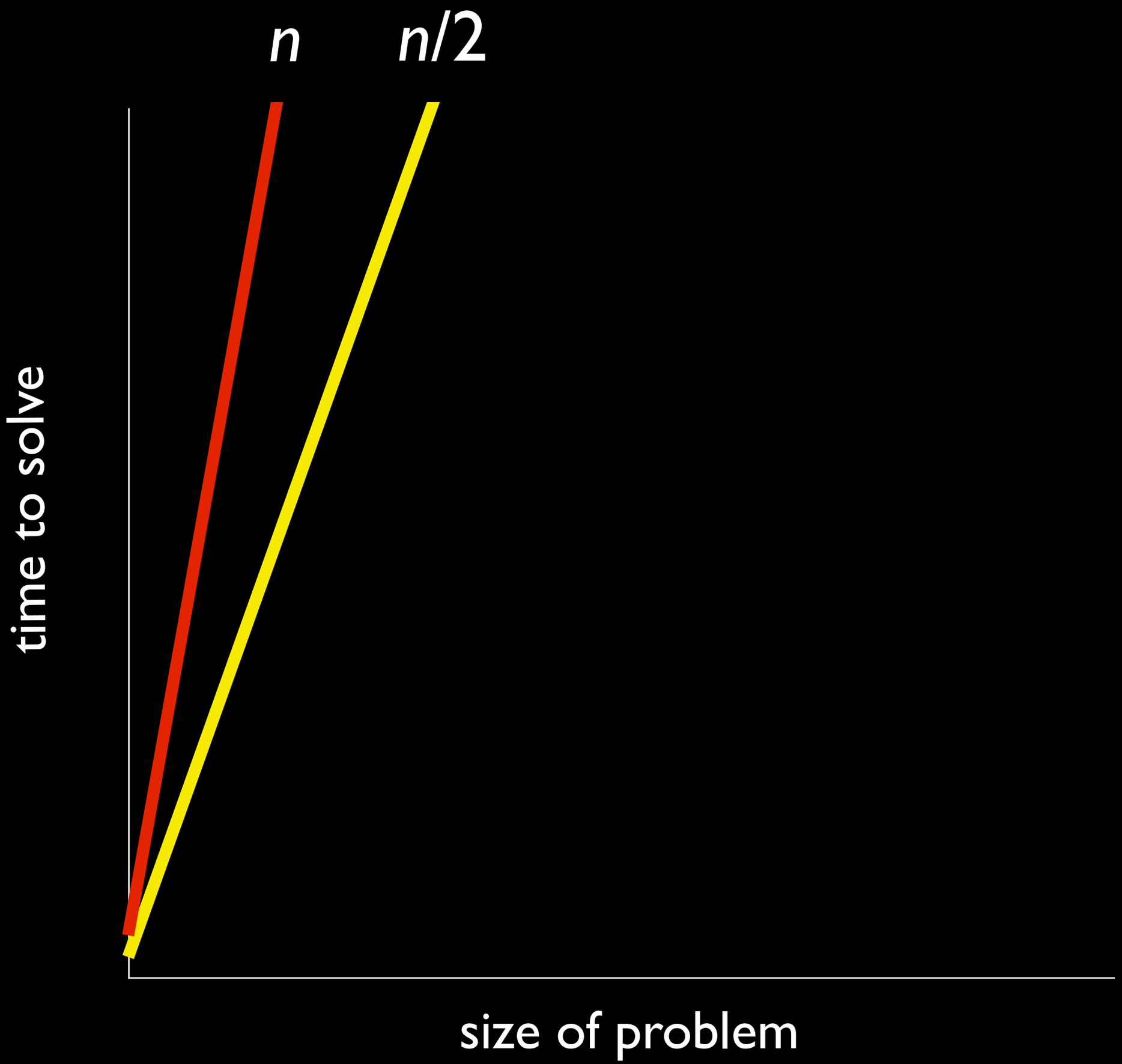


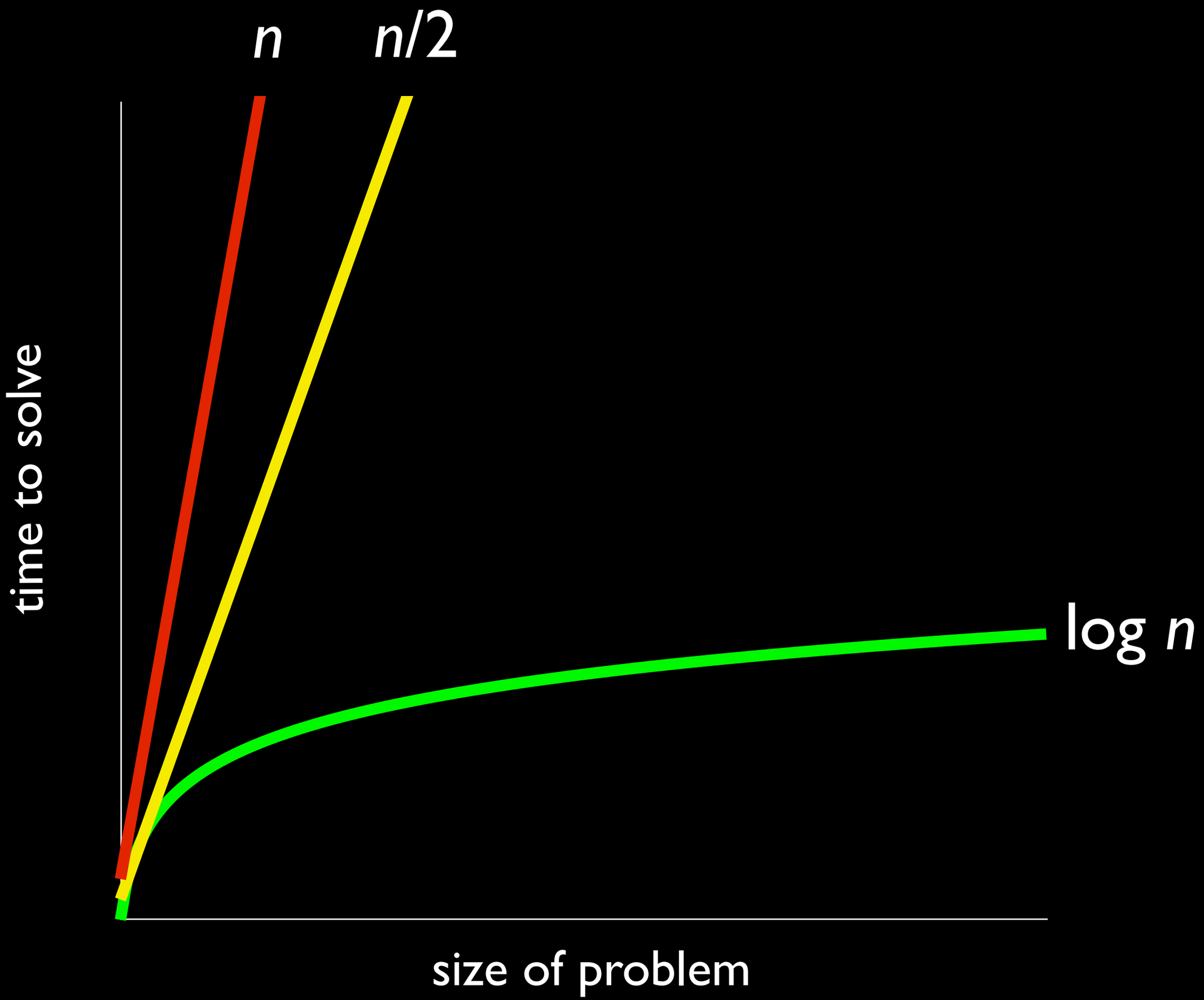
http://accidentalafterthought.wordpress.com/2011/02/03/the-phonebook-other-life-lessons/phonebook/

an algorithm

1. stand up and think of the number 1
2. pair off with someone standing, add your numbers together, and adopt the sum as your new number
3. one of you should sit down; the other should go back to step 3


n
time to solve
size of problem


n
n/2
time to solve
size of problem


n
n/2
time to solve
log n
size of problem

http://www.free-extras.com/images/tennis_ball-1019.htm

Omelette Recipe

1. Put egg in bowl.
2. ...

SCHEDULE A (Form 1040)

Department of the Treasury
Internal Revenue Service (99)

Itemized Deductions

▶ Attach to Form 1040. ▶ See Instructions for Schedule A (Form 1040).

OMB No. 1545-0074

2010

Attachment Sequence No. **07**

Name(s) shown on Form 1040 | **Your social security number**

Medical and Dental Expenses		**Caution.** Do not include expenses reimbursed or paid by others.		
	1	Medical and dental expenses (see instructions)	1	
	2	Enter amount from Form 1040, line 38 | 2 |		
	3	Multiply line 2 by 7.5% (.075)	3	
	4	Subtract line 3 from line 1. If line 3 is more than line 1, enter -0-		4
Taxes You Paid	5	State and local **(check only one box):** **a** ☐ Income taxes, **or** **b** ☐ General sales taxes	5	
	6	Real estate taxes (see instructions)	6	
	7	New motor vehicle taxes from line 11 of the worksheet on back (for certain vehicles purchased in 2009). Skip this line if you checked box 5b	7	
	8	Other taxes. List type and amount ▶	8	
	9	Add lines 5 through 8		9
Interest You Paid	10	Home mortgage interest and points reported to you on Form 1098	10	
Note. Your mortgage interest deduction may be limited (see instructions).	11	Home mortgage interest not reported to you on Form 1098. If paid to the person from whom you bought the home, see instructions and show that person's name, identifying no., and address ▶	11	
	12	Points not reported to you on Form 1098. See instructions for special rules	12	
	13	Mortgage insurance premiums (see instructions)	13	
	14	Investment interest. Attach Form 4952 if required. (See instructions.)	14	
	15	Add lines 10 through 14		15
Gifts to Charity	16	Gifts by cash or check. If you made any gift of $250 or more, see instructions	16	
If you made a gift and got a benefit for it, see instructions.	17	Other than by cash or check. If any gift of $250 or more, see instructions. You **must** attach Form 8283 if over $500	17	
	18	Carryover from prior year	18	
	19	Add lines 16 through 18		19
Casualty and Theft Losses	20	Casualty or theft loss(es). Attach Form 4684. (See instructions.)		20
Job Expenses and Certain Miscellaneous Deductions	21	Unreimbursed employee expenses—job travel, union dues, job education, etc. Attach Form 2106 or 2106-EZ if required. (See instructions.) ▶	21	
	22	Tax preparation fees	22	
	23	Other expenses—investment, safe deposit box, etc. List type and amount ▶	23	
	24	Add lines 21 through 23	24	
	25	Enter amount from Form 1040, line 38 | 25 |		
	26	Multiply line 25 by 2% (.02)	26	
	27	Subtract line 26 from line 24. If line 26 is more than line 24, enter -0-		27
Other Miscellaneous Deductions	28	Other—from list in instructions. List type and amount ▶		28
Total Itemized Deductions	29	Add the amounts in the far right column for lines 4 through 28. Also, enter this amount on Form 1040, line 40		29
	30	If you elect to itemize deductions even though they are less than your standard deduction, check here ▶ ☐		

http://www.citizenofthemonth.com/2009/08/11/ozymandias-and-pbj/

http://lincolnpennies.net/

http://genemyers.wordpress.com/2011/07/07/kevin-bacon-on-how-his-acting-skills-payoff-when-writing-songs/

O T T F F ? S E N T

P ? M D A S

D ? M F S L T D

R O Y G B ? V

M V ? M J S U N

J F M A M J J A ? O N D

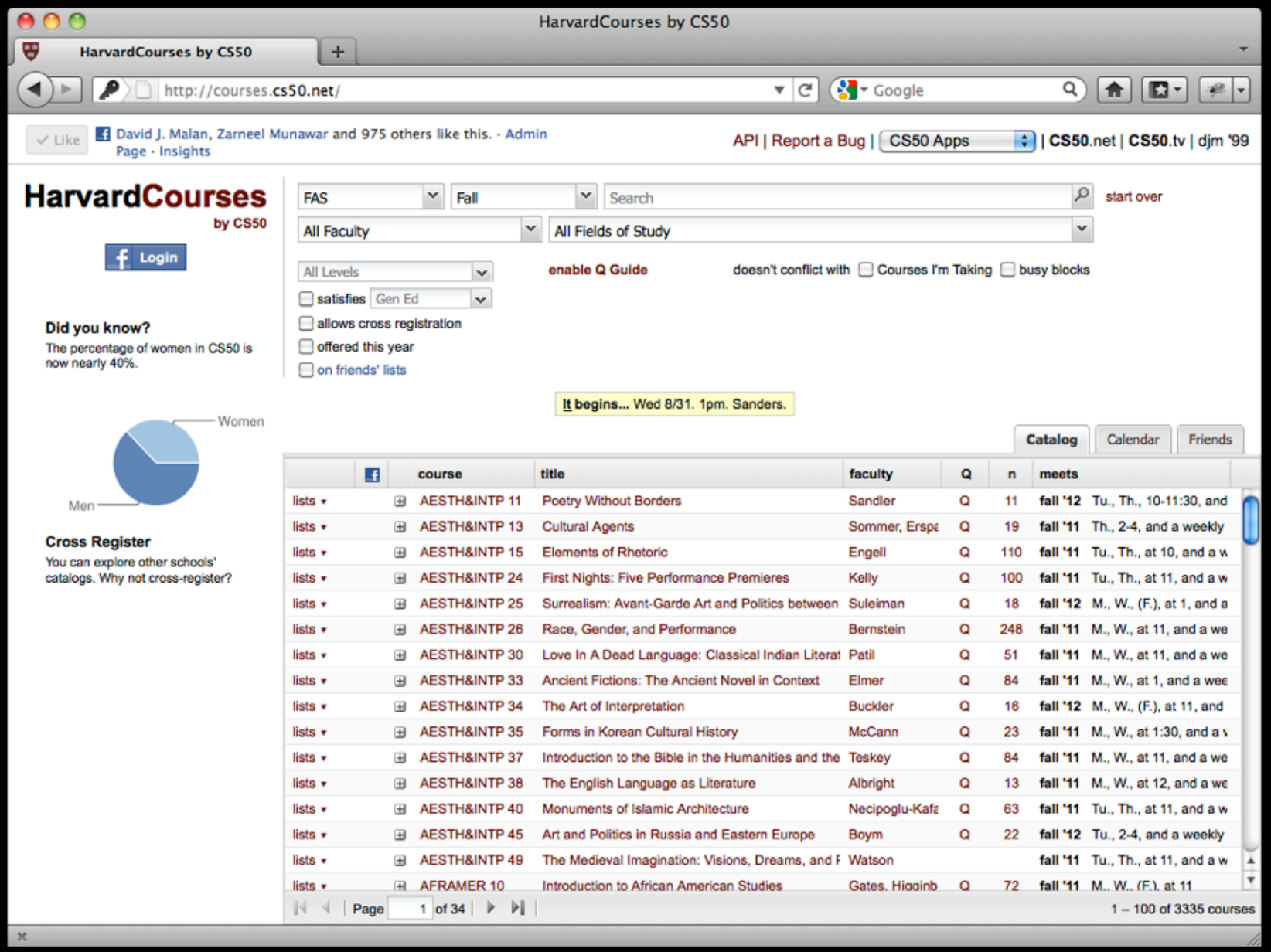
CS50 Puzzle Day, by Facebook

cs50.net/register

Dinner with CS50 and Facebook

cs50.net/rsvp

courses.cs50.net



2,567

Facebook users

25,223

courses on shopping lists

7

average number of courses on shopping lists

125

most courses on someone's shopping list

123

runner-up

3pm - 7pm

most popular time to be busy

7am - 10am

most popular time to be “busy”

Shuttleboy

Shuttleboy

http://shuttleboy.cs50.net/?a=Memorial+Hall&b=Quad

Google

Like David J. Malan, Seth Riddley and 104 others like this.

API | Report a Bug | CS50 Apps | **CS50**.net | **CS50**.tv | djm '99

Shuttleboy

Popular Trips

Card Mac SMS Voice

Shuttleboy has been updated for 2011 – 2012. Pre-order a new Shuttleboy Card.

Origin	Destination		Departs	Arrives	Duration	
114 Western Ave	114 Western Ave	5 min from now:	11:50	12:00	10 min	Quad Express
Boylston Gate	Boylston Gate	15 min from now:	12:00	12:10	10 min	Quad Express
Harvard Square	Harvard Square	35 min from now:	12:20	12:30	10 min	Quad Express
HBS Rotary	HBS Rotary	45 min from now:	12:30	12:40	10 min	Quad Stadium
HKS	HKS	55 min from now:	12:40	12:50	10 min	Quad Express
Lamont Library	Lamont Library	1.1 hrs from now:	12:50	13:10	20 min	Quad Stadium
Mass Ave Garden St	Mass Ave Garden St	1.4 hrs from now:	13:10	13:20	10 min	Quad Express
Mather House	Mather House	1.6 hrs from now:	13:20	13:30	10 min	Quad Stadium
Memorial Hall	Peabody Terrace	1.8 hrs from now:	13:30	13:40	10 min	Quad Express
Peabody Terrace	Pound Hall	2.1 hrs from now:	13:50	14:00	10 min	Quad Express
Pound Hall	Quad	2.2 hrs from now:	14:00	14:10	10 min	Quad Express
Quad	Soldiers Field Park	2.4 hrs from now:	14:10	14:20	10 min	Quad Express
Soldiers Field Park	Stadium	2.6 hrs from now:	14:20	14:30	10 min	Quad Express
Stadium	Winthrop House	2.8 hrs from now:	14:30	14:40	10 min	Quad Express
Winthrop House		2.9 hrs from now:	14:40	14:50	10 min	Quad Express
		3.1 hrs from now:	14:50	15:00	10 min	Quad Express
		3.2 hrs from now:	15:00	15:10	10 min	Quad Express
		3.4 hrs from now:	15:10	15:20	10 min	Quad Express
		3.6 hrs from now:	15:20	15:30	10 min	Quad Express
		3.8 hrs from now:	15:30	15:40	10 min	Quad Express
		3.9 hrs from now:	15:40	15:50	10 min	Quad Express
		4.2 hrs from now:	16:00	16:10	10 min	Quad Express
		4.6 hrs from now:	16:20	16:30	10 min	Quad Express
		6.4 hrs from now:	18:10	18:40	30 min	River Houses A-B-C
		7.1 hrs from now:	18:50	19:20	30 min	River Houses A-B-C
		7.8 hrs from now:	19:30	20:00	30 min	River Houses A-B-C
		8.4 hrs from now:	20:10	20:35	25 min	River Houses A-B-C
		10.4 hrs from now:	22:10	22:45	35 min	River Houses A-B-C

APIs

http://www.fun-with-pictures.com/house-stencil.html

hello, world

expectations

attend all lectures and sections

submit nine problem sets

take two quizzes

submit a final project

grades

Pass/Fail or letter grade

PASS

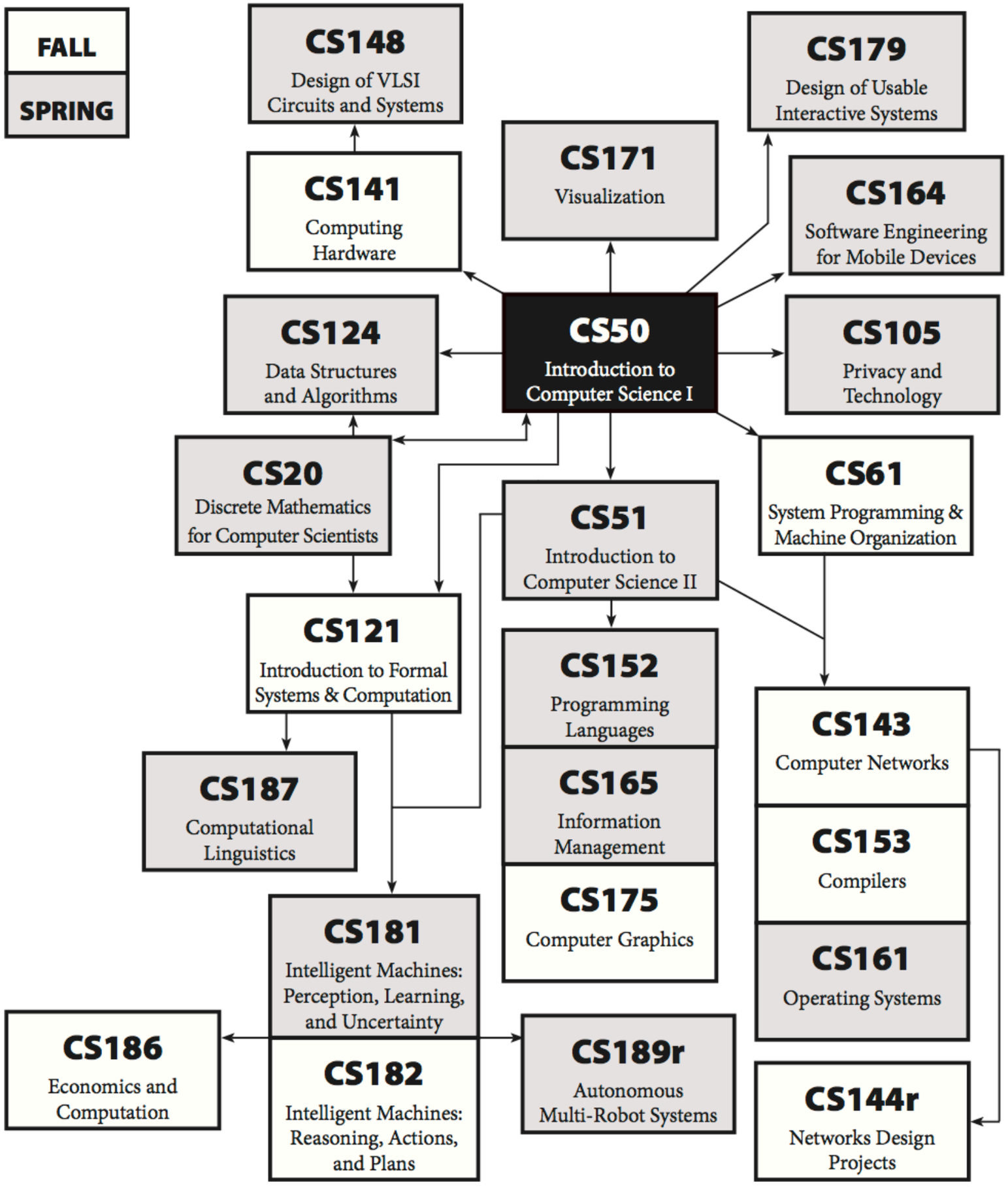
PASS

PASS

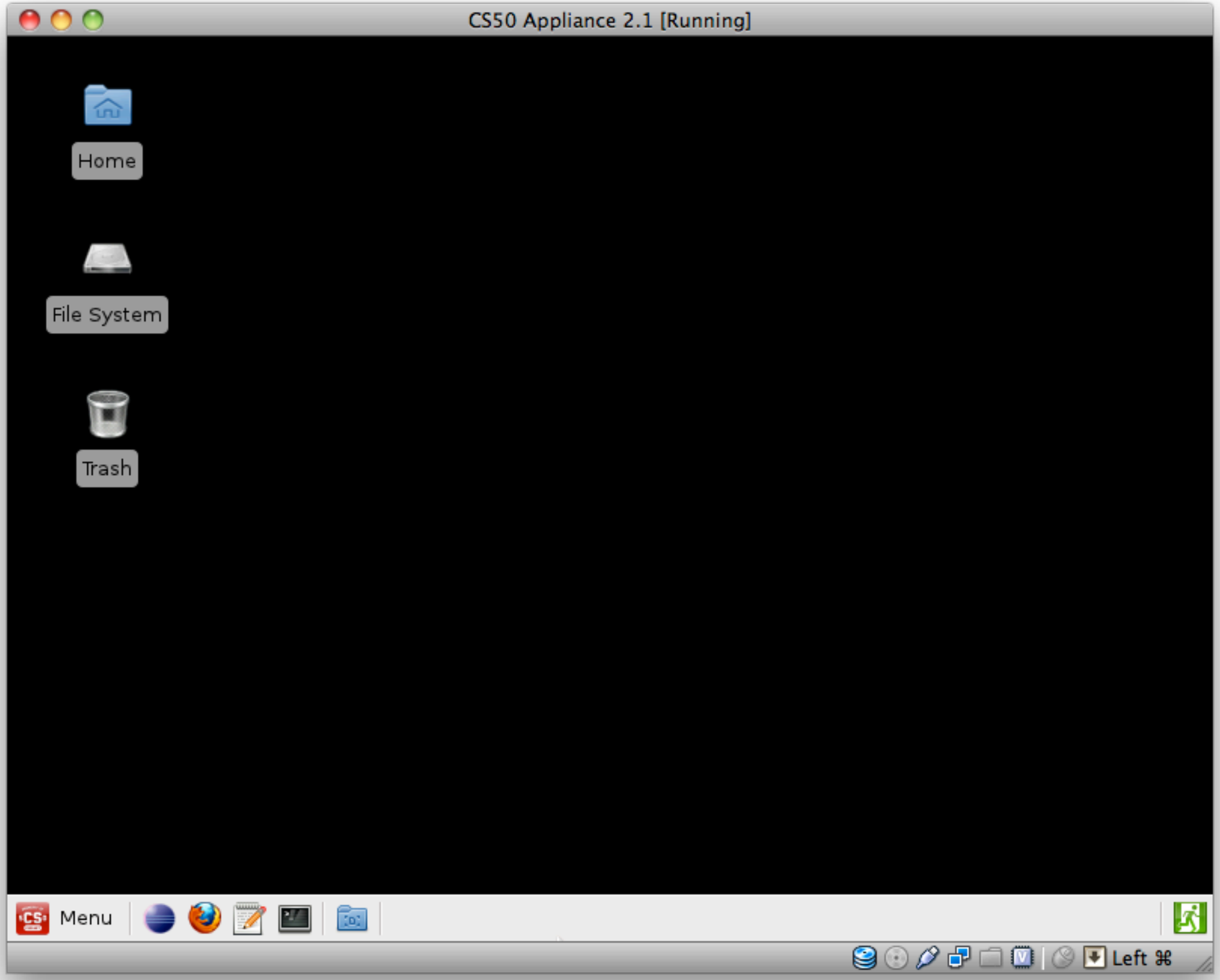
EAT

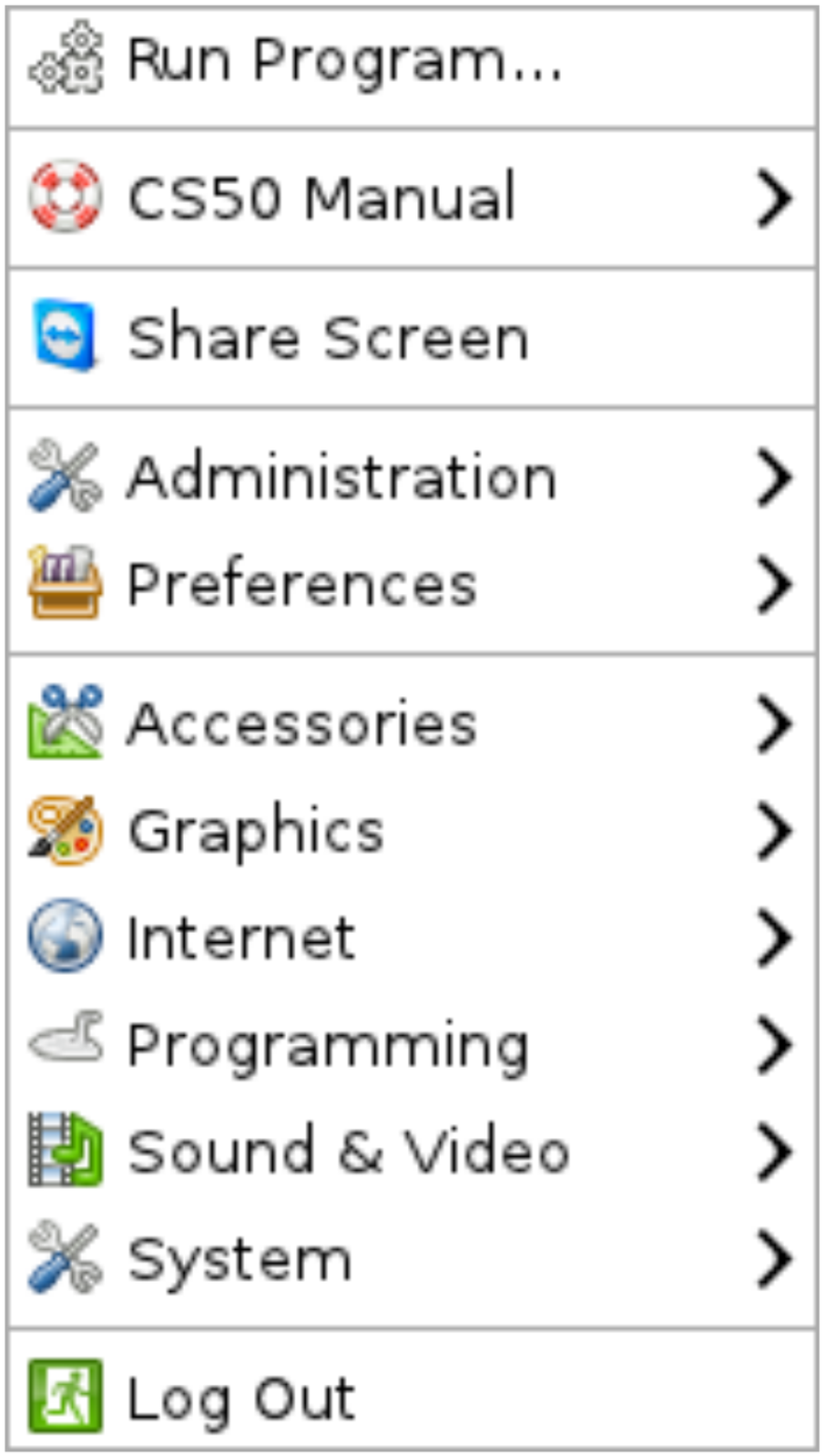
problem sets

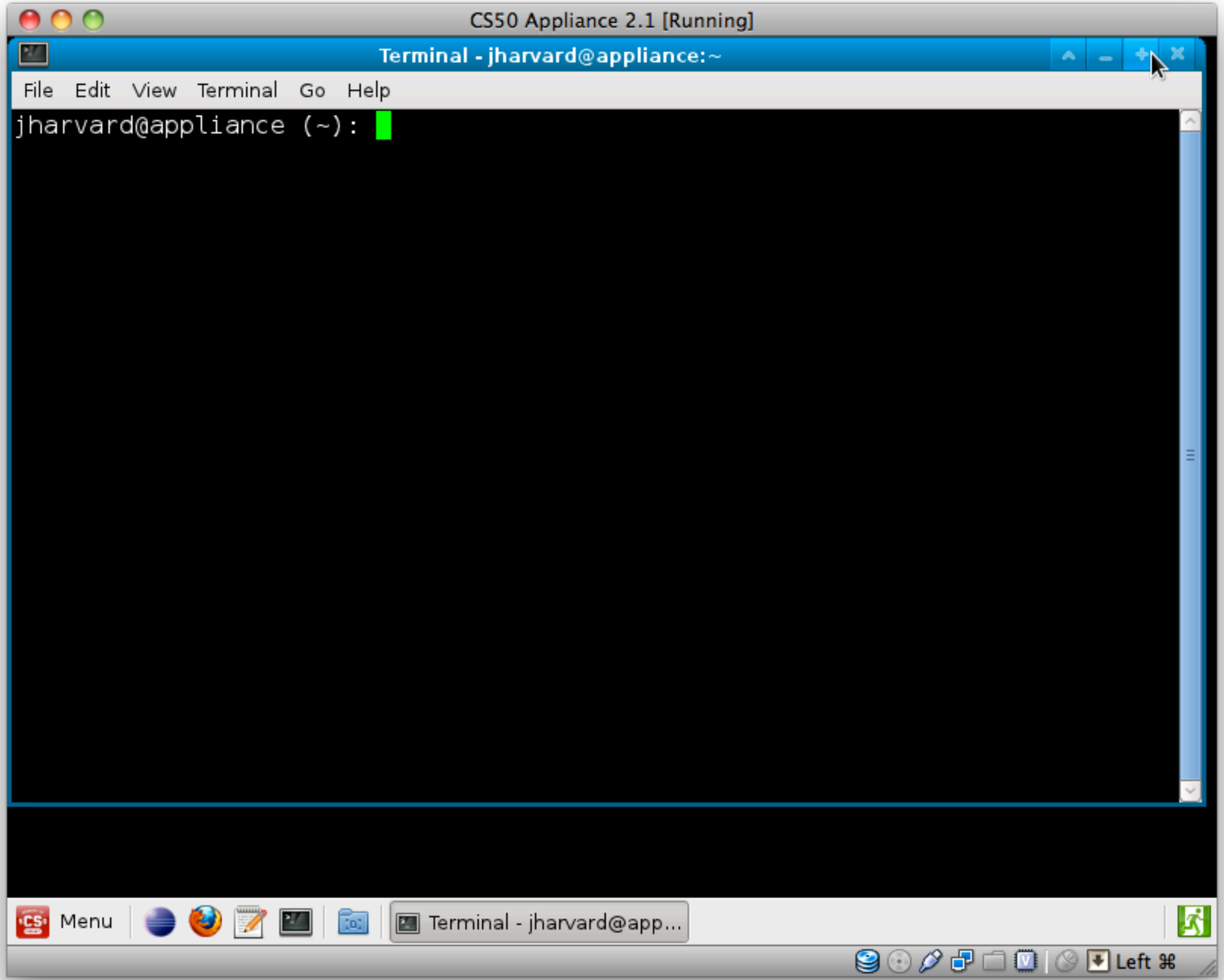
editions, late days, lowest dropped


FALL
SPRING
CS148
Design of VLSI Circuits and Systems
CS179
Design of Usable Interactive Systems
CS141
Computing Hardware
CS171
Visualization
CS164
Software Engineering for Mobile Devices
CS124
Data Structures and Algorithms
CS50
Introduction to Computer Science I
CS105
Privacy and Technology
CS20
Discrete Mathematics for Computer Scientists
CS51
Introduction to Computer Science II
CS61
System Programming & Machine Organization
CS121
Introduction to Formal Systems & Computation
CS152
Programming Languages
CS143
Computer Networks
CS187
Computational Linguistics
CS165
Information Management
CS153
Compilers
CS175
Computer Graphics
CS161
Operating Systems
CS181
Intelligent Machines: Perception, Learning, and Uncertainty
CS186
Economics and Computation
CS182
Intelligent Machines: Reasoning, Actions, and Plans
CS189r
Autonomous Multi-Robot Systems
CS144r
Networks Design Projects

CS50 Appliance


CS50 Appliance 2.1 [Running]
Home
File System
Trash
Menu
Left ⌘


Run Program...
CS50 Manual
Share Screen
Administration
Preferences
Accessories
Graphics
Internet
Programming
Sound & Video
System
Log Out


CS50 Appliance 2.1 [Running]
Terminal - jharvard@appliance:~
File Edit View Terminal Go Help
jharvard@appliance (~):
Menu
Terminal - jharvard@app...
Left ⌘

CS50 Appliance 2.1 [Running]

hello.c (~/Desktop) - gedit

File Edit View Search Documents Help

Source Code

Functions

main

hello.c

```
#include <stdio.h>

int
main(void)
{
    printf("hello, world!");
}
```

```
jharvard@appliance (~): 
```

Terminal

C Tab Width: 4 Ln 6, Col 29 INS

Menu hello.c (~/Desktop) - gedit

Left ⌘

CS50 Appliance 2.1 [Running]
Home
File System
Trash
hello.c
eclipse
INDIGO
(c) Copyright Eclipse contributors and others, 2000, 2011. All rights reserved. Eclipse is a trademark of the Eclipse Foundation,Inc. Oracle and Java are registered trademarks of Oracle and/or itsaffiliates.Other names may be trademarks of their respective owners.
Menu
Eclipse
Left ⌘

office hours

SCIENCE CENTER

MTWTh

9pm - 12am

CS50 Help

ohs.cs50.net/cs50/questions/index

What's your question about?

So that we can send you to the right person, what's your question in a short sentence?

Raise your hand

Make me invisible to classmates

Queue

Position	Name	Question
1	Harry Potter	Dark Arts I cannot seem to get my Patronus to work...
2	Ron Weasley	Other How do you get to the Chamber of Secrets?
3	Hermione Granger	History of Magic I found several mistakes in our textbook and would like to discuss them.
4	Gilderoy Lockhart	Charms How do you cast spells?
5	Sirius Black	The Order How can I escape Azkaban?
6	Albus Dumbledore	Dark Arts Why are you not enrolled in CS50?

Chat with your classmates about...

Dark Arts | Other | History of Magic | Charms | The Order

facebook

Privacy Log Out

Discuss this event

Post to Facebook Share

Be the first to share your thoughts on this event

What's your question about?

So that we can send you to the right person, what's your question in a short sentence?

Raise your hand

Make me invisible to classmates

Queue

Position	Name	Question
1	Harry Potter	Dark Arts I cannot seem to get my Patronus to work...
2	Ron Weasley	Other How do you get to the Chamber of Secrets?
3	Hermione Granger	History of Magic I found several mistakes in our textbook and would like to discuss them.
4	Gilderoy Lockhart	Charms How do you cast spells?
5	Sirius Black	The Order How can I escape Azkaban?
6	Albus Dumbledore	Dark Arts Why are you not enrolled in CS50?

Carrier 2:58 AM 100%

Filter **Students**

Search

1 Dark Arts **Harry Potter**
I cannot seem to get my Patronus to work...

2 Other **Ron Weasley**
How do you get to the Chamber of Secrets?

3 History of Magic **Hermione Granger**
I found several mistakes in our textbook and would like to discuss them.

4 Charms **Gilderoy Lockhart**
How do you cast spells?

5 The Order **Sirius Black**
How can I escape Azkaban?

6 Dark Arts **Albus Dumbledore**
Why are you not enrolled in CS50?

On Duty | All **Staff** Logout

Search

Minerva McGonagall

Pomona Sprout

Filius Flitwick

Severus Snape

lectures

Welcome

HES, HBS, Belmont High, Watertown High, OCW

week 0

Introduction. Bits. Binary. ASCII. Programming.
Algorithms. Scratch. Statements. Boolean expressions.

week 1

C. Source code. Compilers. Object code. SSH. SFTP. GCC. Functions. Comments. Standard output. Arithmetic operators. Precedence. Associativity. Local variables. Types. Casting. Standard input. Libraries. Boolean expressions, continued. Conditions, continued. Loops, continued.

week 2

Functions, continued. Global variables. Parameters.
Return values. Stack. Frames. Scope. Arrays. Strings.
Command-line arguments. Cryptography.

week 3

Linear search. Binary search. Asymptotic notation. Recursion. Pseudorandomness. Bubble sort. Selection sort. Insertion sort. Merge sort. Debugging.

week 4

Structures. Dynamic memory allocation. Stack and heap. Pointers. Debugging, continued.

week 5

File I/O. Forensics. Linked lists. Stacks. Queues.

week 7

Valgrind. Bitwise operators. Hash tables. Trees. Binary search trees. Tries. Huffman coding.

week 8

HTTP. HTML. PHP. SQL.

week 9

CSS. Inheritance. JavaScript. Events, continued. Ajax.

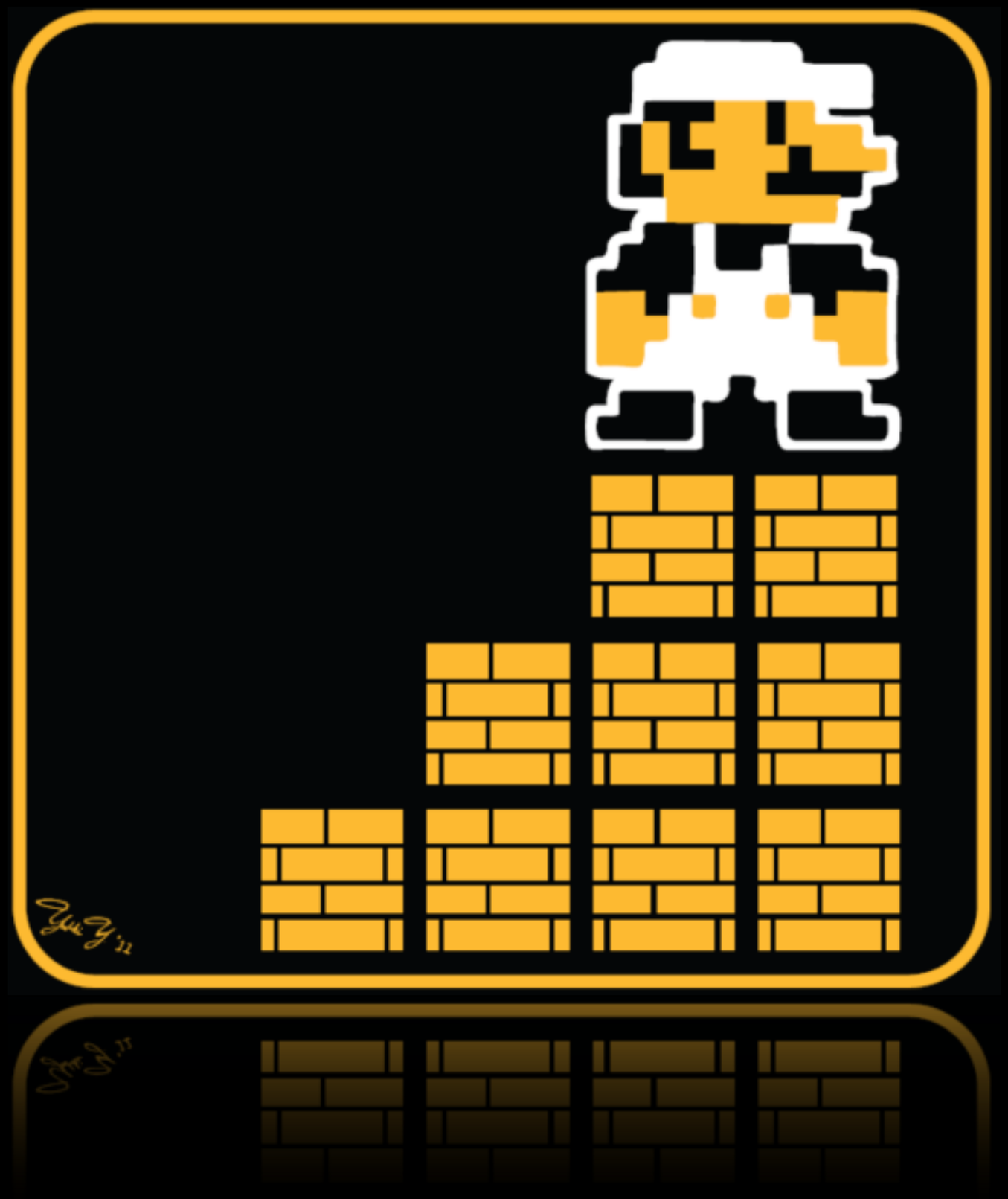
week 10

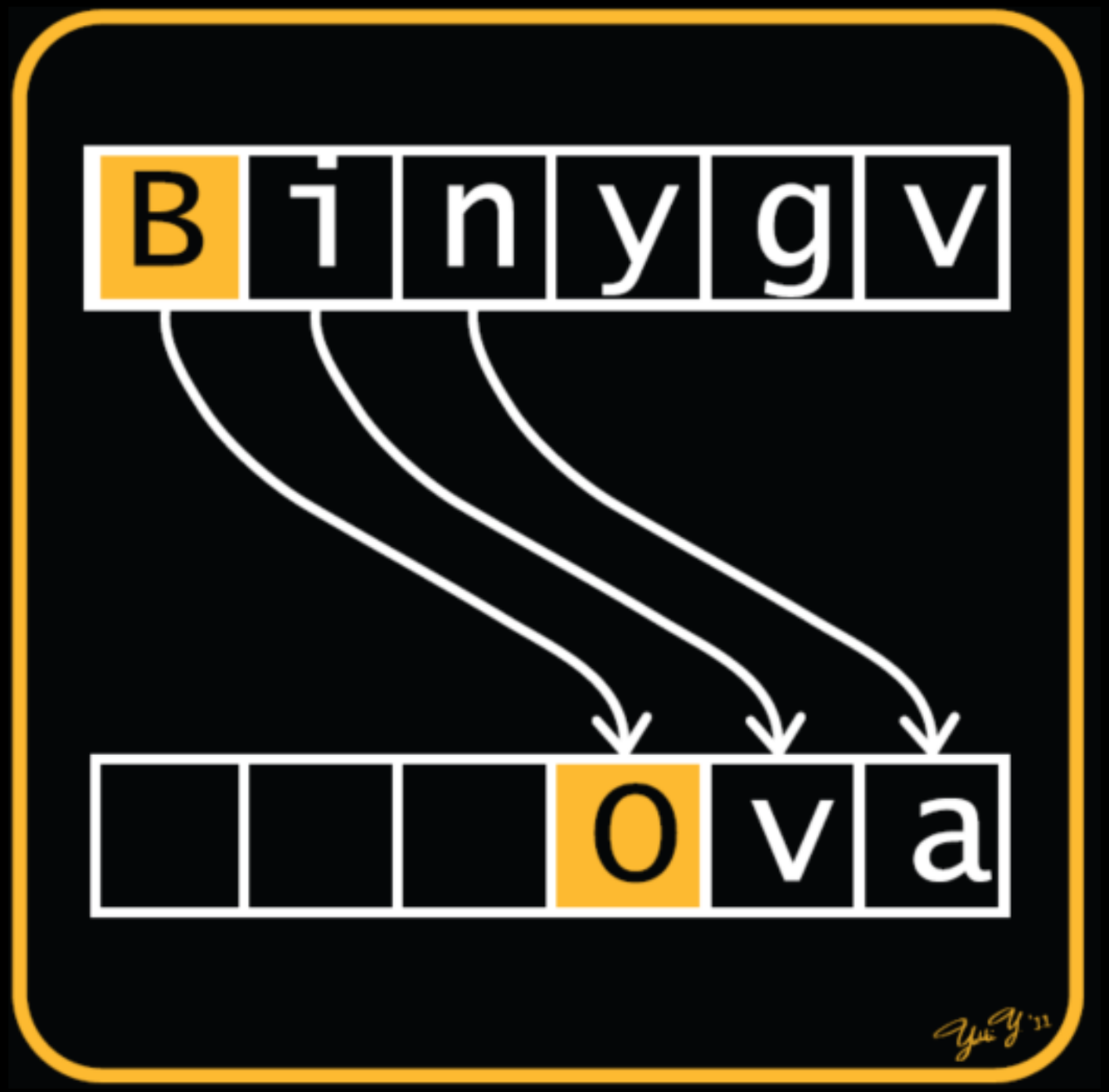
JavaScript, Continued.

sections

psets

O, hai!




B i n y g v
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1 2 3 4
6 8
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12
9 10 7
13 14 11 15

数独

8			4		6			7
						4		
	1					6	5	
5		9		3		7	8	
				7				
	4	8		2		1		3
	5	2					9	
		1						
3			9		2			5

im in ur crime scenz

Teh Computer Science 50 learnz you about intertubes in teh cloudz. David J. Malan will pwn u ftw so watch out!

CS50
120
$

Address:
1 Oxford St
Cambridge, MA 02138
Get directions: To here - From here
Search nearby - Save to My Maps
Edit New!
Oxford St.
Kirkland St.
A
Harvard
University

walkthroughs

CS50 Lounge

lounge.cs50.net

Karpl
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8/8
PLACE
LAPS
2/2
2
noob

facebook
CARROM

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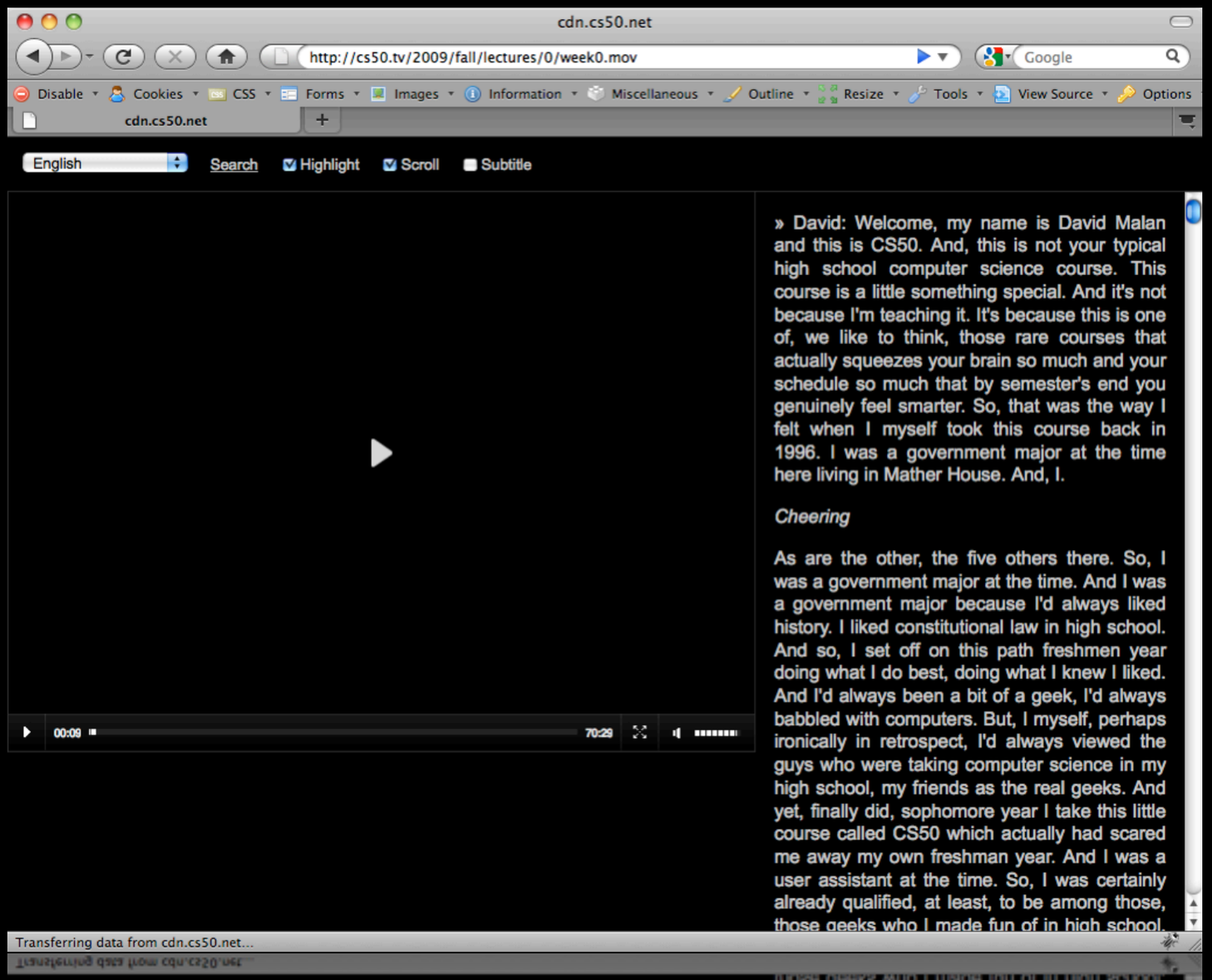
cs50.net

cs50.tv


cdn.cs50.net
http://cs50.tv/2009/fall/lectures/0/week0.mov
Google
Disable
Cookies
CSS
Forms
Images
Information
Miscellaneous
Outline
Resize
Tools
View Source
Options
cdn.cs50.net
English
Search
Highlight
Scroll
Subtitle
00:09
70:29
» David: Welcome, my name is David Malan and this is CS50. And, this is not your typical high school computer science course. This course is a little something special. And it's not because I'm teaching it. It's because this is one of, we like to think, those rare courses that actually squeezes your brain so much and your schedule so much that by semester's end you genuinely feel smarter. So, that was the way I felt when I myself took this course back in 1996. I was a government major at the time here living in Mather House. And, I.
Cheering
As are the other, the five others there. So, I was a government major at the time. And I was a government major because I'd always liked history. I liked constitutional law in high school. And so, I set off on this path freshmen year doing what I do best, doing what I knew I liked. And I'd always been a bit of a geek, I'd always babbled with computers. But, I myself, perhaps ironically in retrospect, I'd always viewed the guys who were taking computer science in my high school, my friends as the real geeks. And yet, finally did, sophomore year I take this little course called CS50 which actually had scared me away my own freshman year. And I was a user assistant at the time. So, I was certainly already qualified, at least, to be among those, those geeks who I made fun of in high school.
Transferring data from cdn.cs50.net...

CS50 Fair

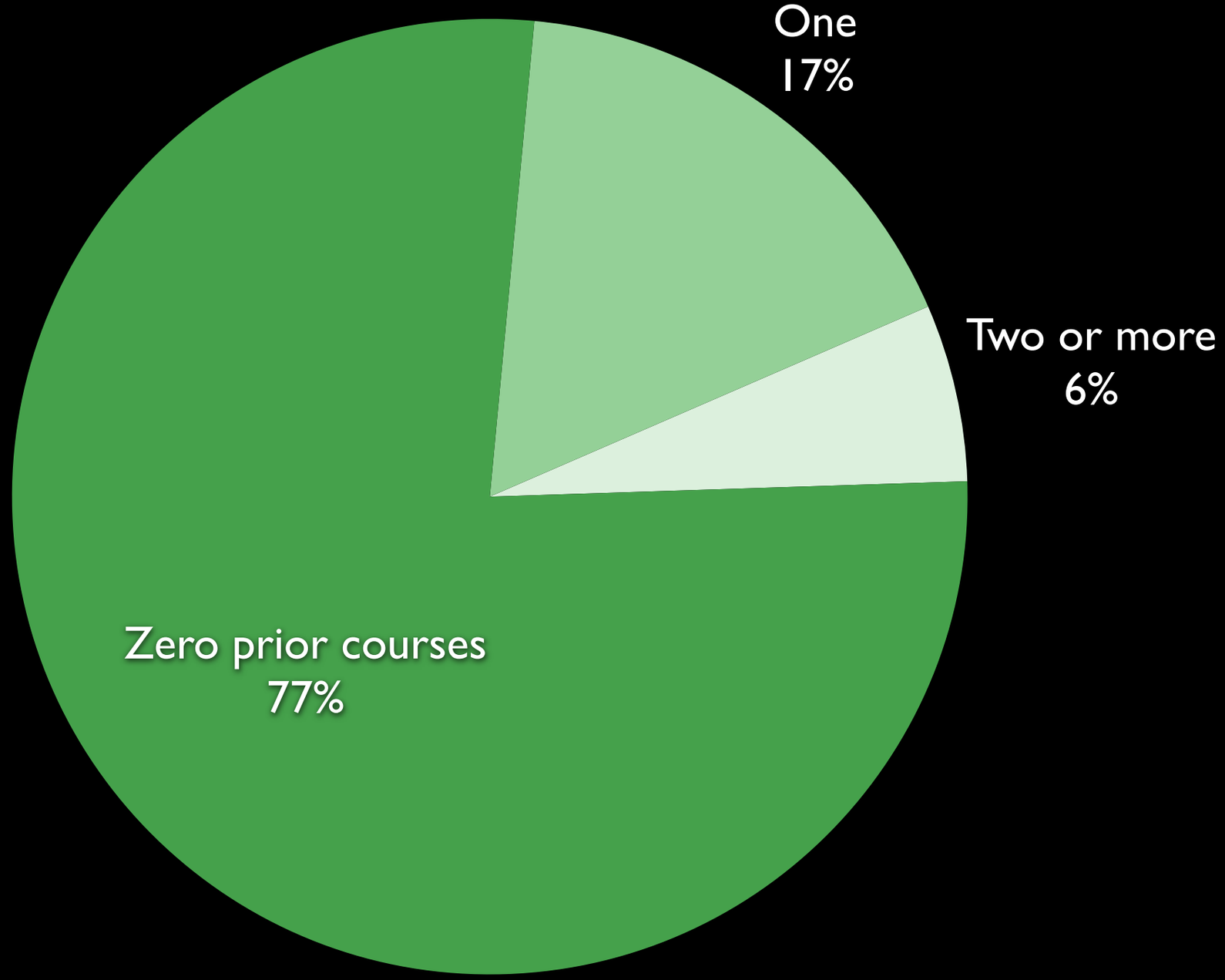
THE
CS 50
FAIR
This is CS 50.

CS50 Hackathon

8:00pm - 7:00am

Coke
Sprite

77% of the people around you have no prior experience



This is CS 50.
This is CS 50.
Blorums

This is CS 50.
Lauren Carvalho '11
Julia Ransbrough '13

to be continued...