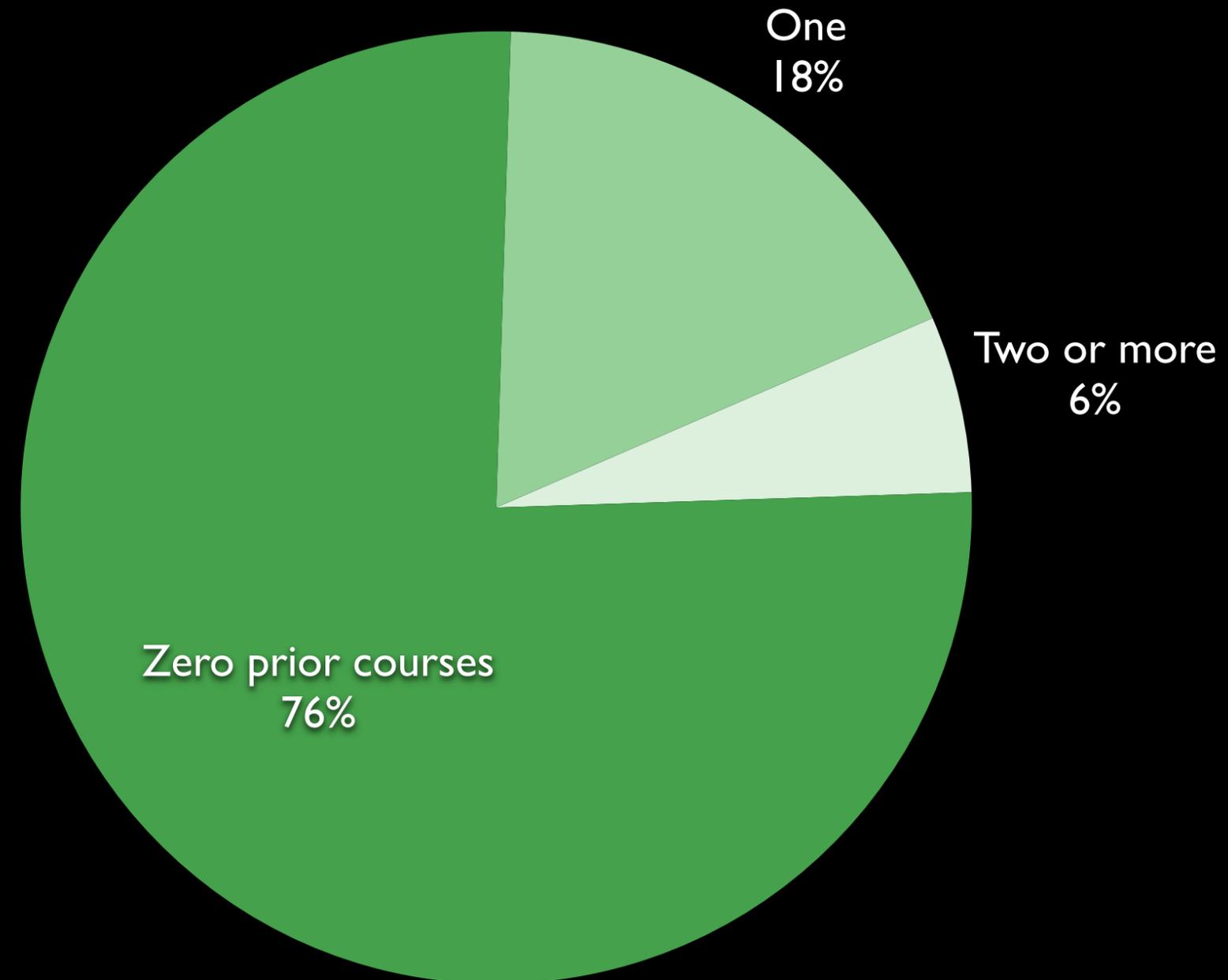
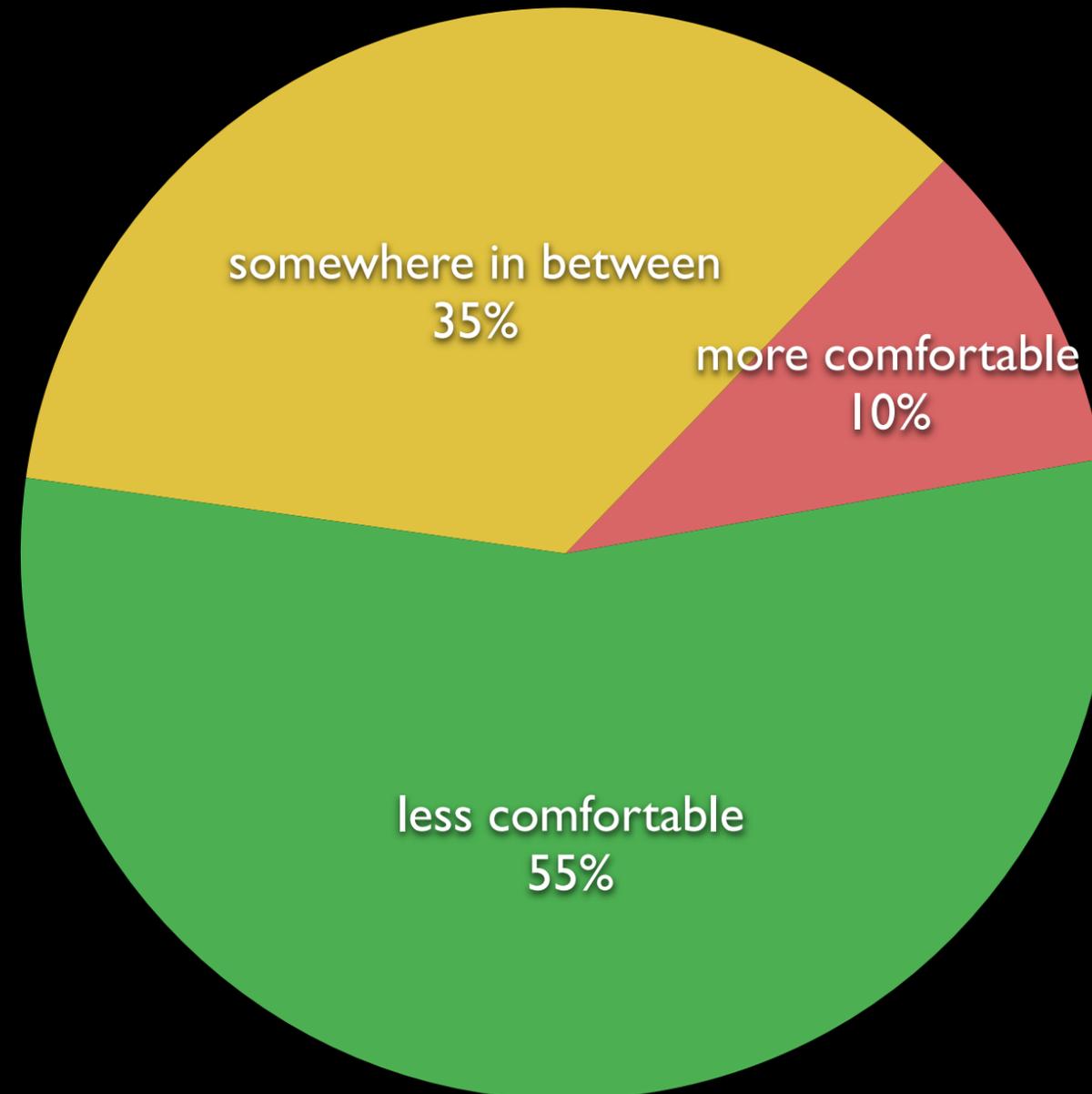


This is CS50.

# 76% of the people around you have no prior experience

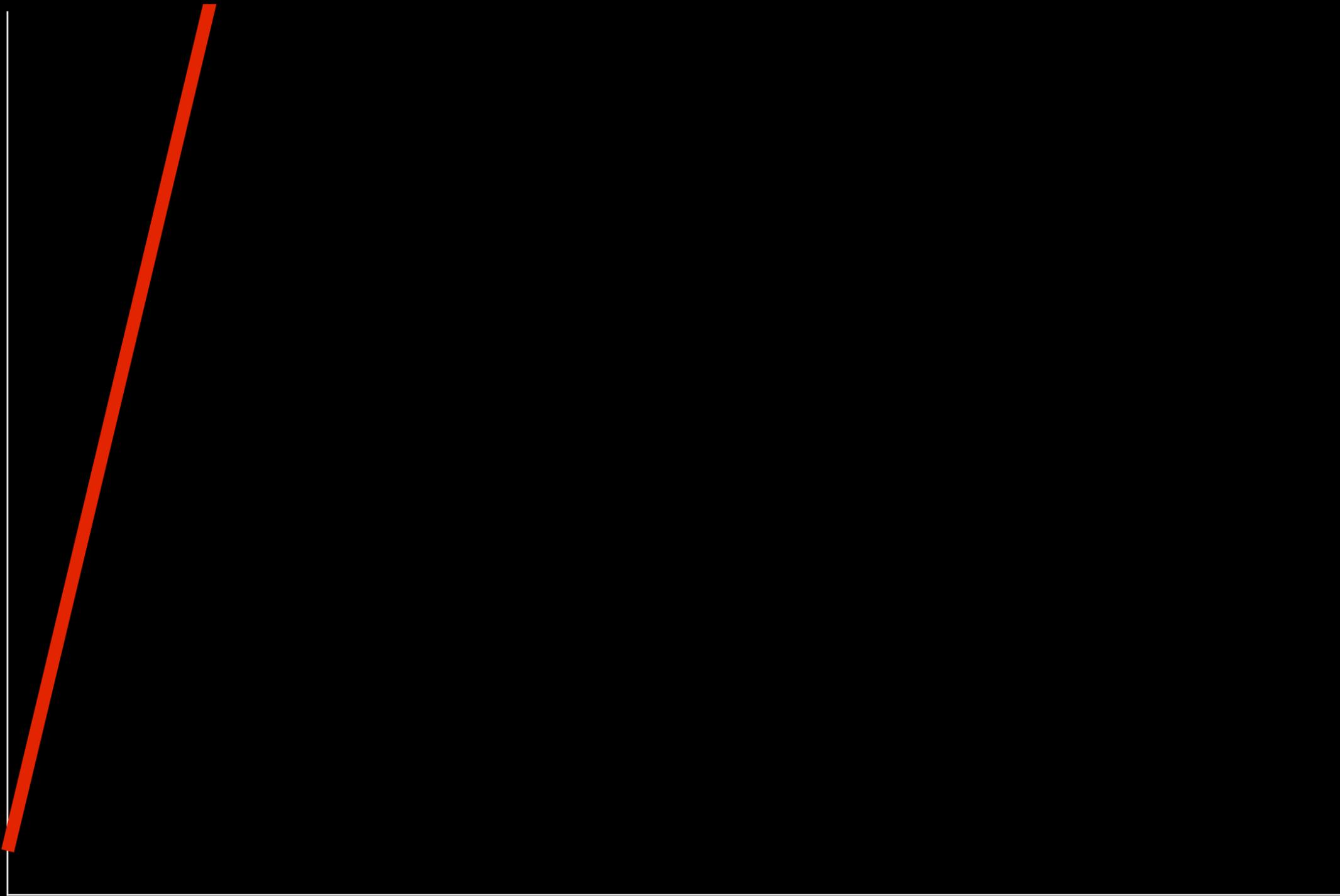


# comfort

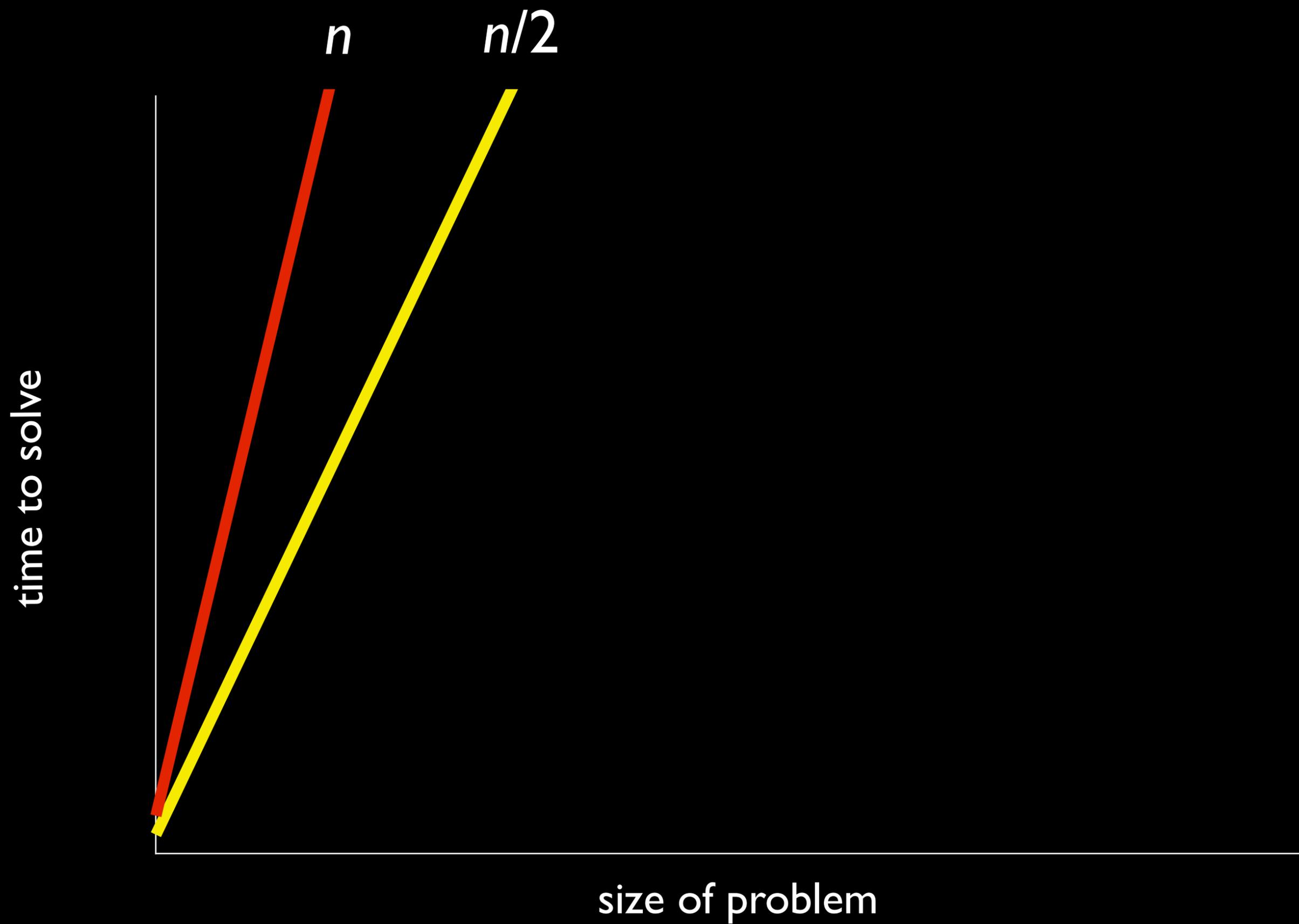


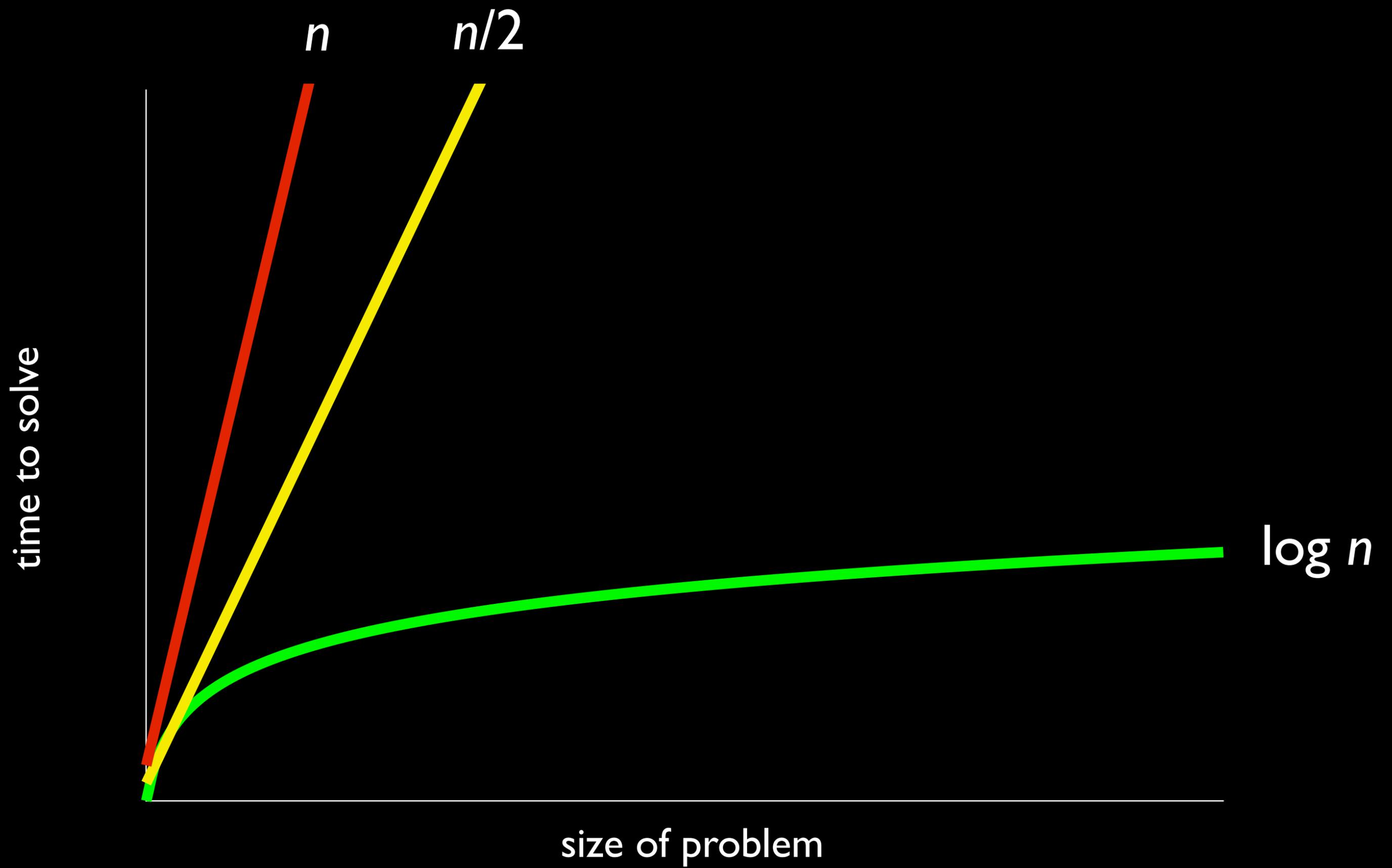


time to solve



size of problem





# 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 2

The image features a central orange puzzle piece with the text 'PUZZLE DAY 2012' in white. This piece is surrounded by a field of blue puzzle pieces, some of which are missing, creating a pattern of orange and blue. The text is arranged in two lines: 'PUZZLE' on top and 'DAY 2012' below it.

# PUZZLE DAY 2012

sponsored by

**facebook**

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



HES

GSD, GSE, HBS, HKS, HLS

Belmont, Lexington, Newton, Watertown

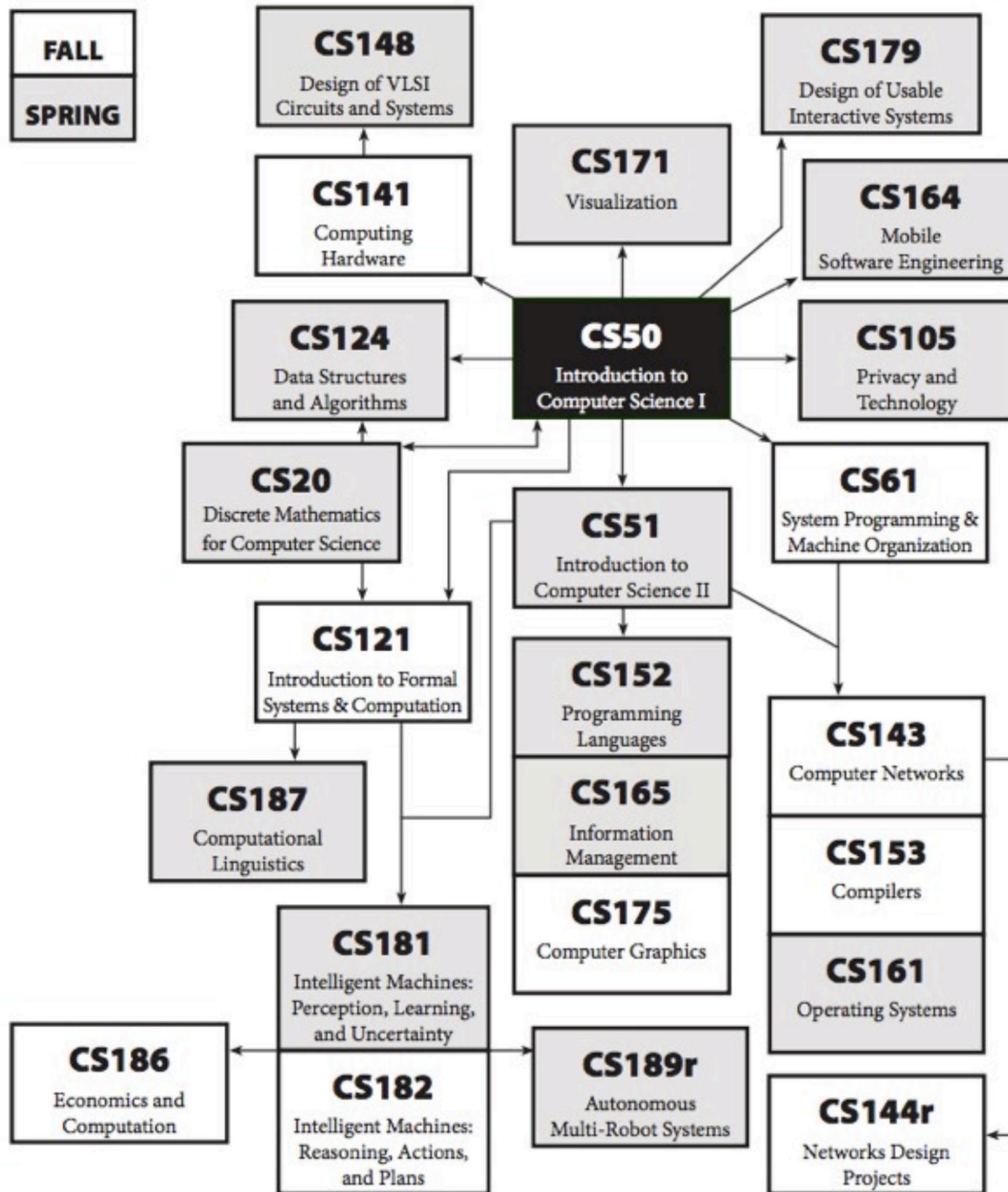
CS50x

53,019

binary

ASCII

INT	CHAR		INT	CHAR	INT	CHAR	INT	CHAR
0	NUL	(null)	32	SPACE	64	@	96	`
1	SOH	(start of heading)	33	!	65	A	97	a
2	STX	(start of text)	34	"	66	B	98	b
3	ETX	(end of text)	35	#	67	C	99	c
4	EOT	(end of transmission)	36	\$	68	D	100	d
5	ENQ	(enquiry)	37	%	69	E	101	e
6	ACK	(acknowledge)	38	&	70	F	102	f
7	BEL	(bell)	39	'	71	G	103	g
8	BS	(backspace)	40	(	72	H	104	h
9	HT	(horizontal tab)	41	)	73	I	105	i
10	LF	(line feed)	42	*	74	J	106	j
11	VT	(vertical tab)	43	+	75	K	107	k
12	FF	(form feed)	44	,	76	L	108	l
13	CR	(carriage return)	45	-	77	M	109	m
14	SO	(shift out)	46	.	78	N	110	n
15	SI	(shift in)	47	/	79	O	111	o
16	DLE	(data link escape)	48	0	80	P	112	p
17	DC1	(device control 1)	49	1	81	Q	113	q
18	DC2	(device control 2)	50	2	82	R	114	r
19	DC3	(device control 3)	51	3	83	S	115	s
20	DC4	(device control 4)	52	4	84	T	116	t
21	NAK	(negative acknowledge)	53	5	85	U	117	u
22	SYN	(synchronous idle)	54	6	86	V	118	v
23	ETB	(end of transmission block)	55	7	87	W	119	w
24	CAN	(cancel)	56	8	88	X	120	x
25	EM	(end of medium)	57	9	89	Y	121	y
26	SUB	(substitute)	58	:	90	Z	122	z
27	ESC	(escape)	59	;	91	[	123	{
28	FS	(file separator)	60	<	92	\	124	
29	GS	(group separator)	61	=	93	]	125	}
30	RS	(record separator)	62	>	94	^	126	~
31	US	(unit separator)	63	?	95	_	127	DEL



[courses.cs50.net](http://courses.cs50.net)

## HarvardCourses

Looking to manage course lists, see what your friends are taking, or search over Q data?

Login via HUID

Term  Year

All Faculty  All Departments

Course Level  doesn't conflict with  Time Constraints

General Education Requirements

List Calendar Compare Hide Search

Number	Title	Instructors	Q	n	Meeting Time
COMPSCI 50	Introduction to Computer Science I	Malan		604	Fall '12 M., W., 1-2:30, and a weekly section.

1 - 1 of 1 courses Previous Next

RANDOM SUGGESTIONS Refresh

- NEUROBIO 384**  
Neuroscience of human emotions and emotional disorders
- NEUROBIO 399**  
Neurocircuits Thought to Regulate Metabolism and Behavior
- APPHY 396**  
Topics in Materials Science
- BIOPHYS 336**  
Mass Spectrometric and Proteomic Studies of the Cell Cycle
- HIST 1345**  
The Human Sciences in the Modern West

COMPSCI 50 Friends' Lists Q-Guide Textbooks Dismiss

### Introduction to Computer Science I

Introduction to the intellectual enterprises of computer science and the art of programming. This course teaches students how to think algorithmically and solve problems efficiently. Topics include abstraction, algorithms, encapsulation, data structures, databases, memory management, security, software development, virtualization, and websites. Languages include C, PHP, and JavaScript plus SQL, CSS, and HTML. Problem sets inspired by real-world domains of biology, cryptography, finance, forensics, and gaming. Designed for concentrators and non-concentrators alike, with or without prior programming experience.

Notes: This course may be taken pass/fail or for a letter grade. When taken for a letter grade, this course meets the General Education requirement for Empirical and Mathematical Reasoning. This course will also meet F., 1-2:30 on September 7, 2012 only. Students with conflicts should watch that lecture online.

Catalog Number: 4949  
Satisfies: Quantitative Reasoning, Empirical and Mathematical Reasoning  
Website: [present](#), [past](#)

# 7.6

average number of courses on shopping lists

201

most courses on someone's shopping list

[youtube.com/MrHahvahd](https://youtube.com/MrHahvahd)

# expectations

attend or watch all lectures and sections

submit eight problem sets

take two quizzes

submit a final project

# grades

Pass/Fail or letter grade

lectures

abstraction, algorithms, data structures,  
encapsulation, resource management, security,  
software engineering, web development

C, PHP, JavaScript

SQL, CSS, HTML

# CS50 Appliance

# problem sets

2 editions, 5 late days, lowest dropped

# office hours

MTWTh, 8pm - 11pm

New Post

Inbox

Watched

Unread

Charms

Potions

History of Magic

Dark Arts

Mark As... View All

Search Posts Search

- Dark Arts** avada something? What does avada kedavra do again?
- Potions** love potion????? I need a love potion and I need it now.
- Charms** diffindo Is it possible to undo a diffindo?
- History of Magic** A Few Corrections. I have a lot of minor points that I'd like to discuss and clarify. In fact, I've found numerous inaccuracies in all the t...
- Dark Arts** patronus I'm still having trouble with my patronus, I feel like I need to know this one...

Filter Students

Search

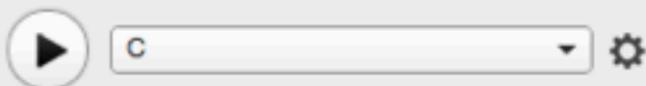
- 1 **Dark Arts Harry Potter**  
I cannot seem to get my Patronus to work...
- 2 **Other Ron Weasley**  
How do you get to the Chamber of Secrets?
- 3 **History of Magic Hermione Granger**  
I found several mistakes in our textbook and would like to discuss them.
- 4 **Charms Gilderoy Lockhart**  
How 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**

sections



## People in this Space

Harry Potter  
Ron Weasley  
Hermione Granger

## Chat

**Hermione Granger** 1:49 AM  
no harry, that's wrong

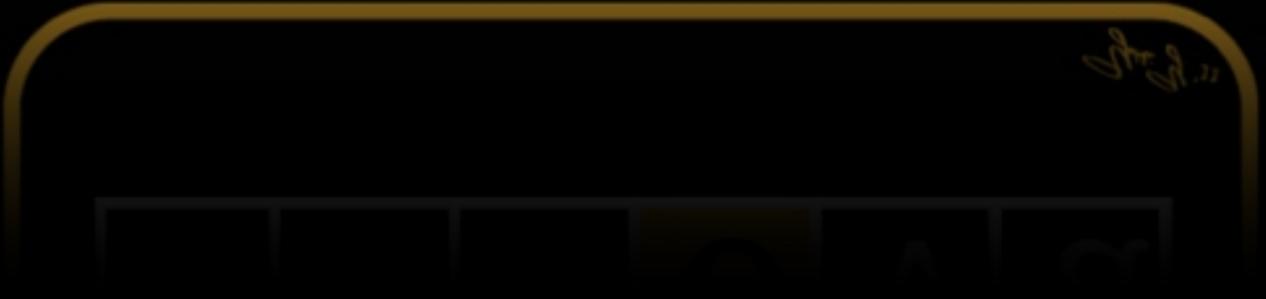
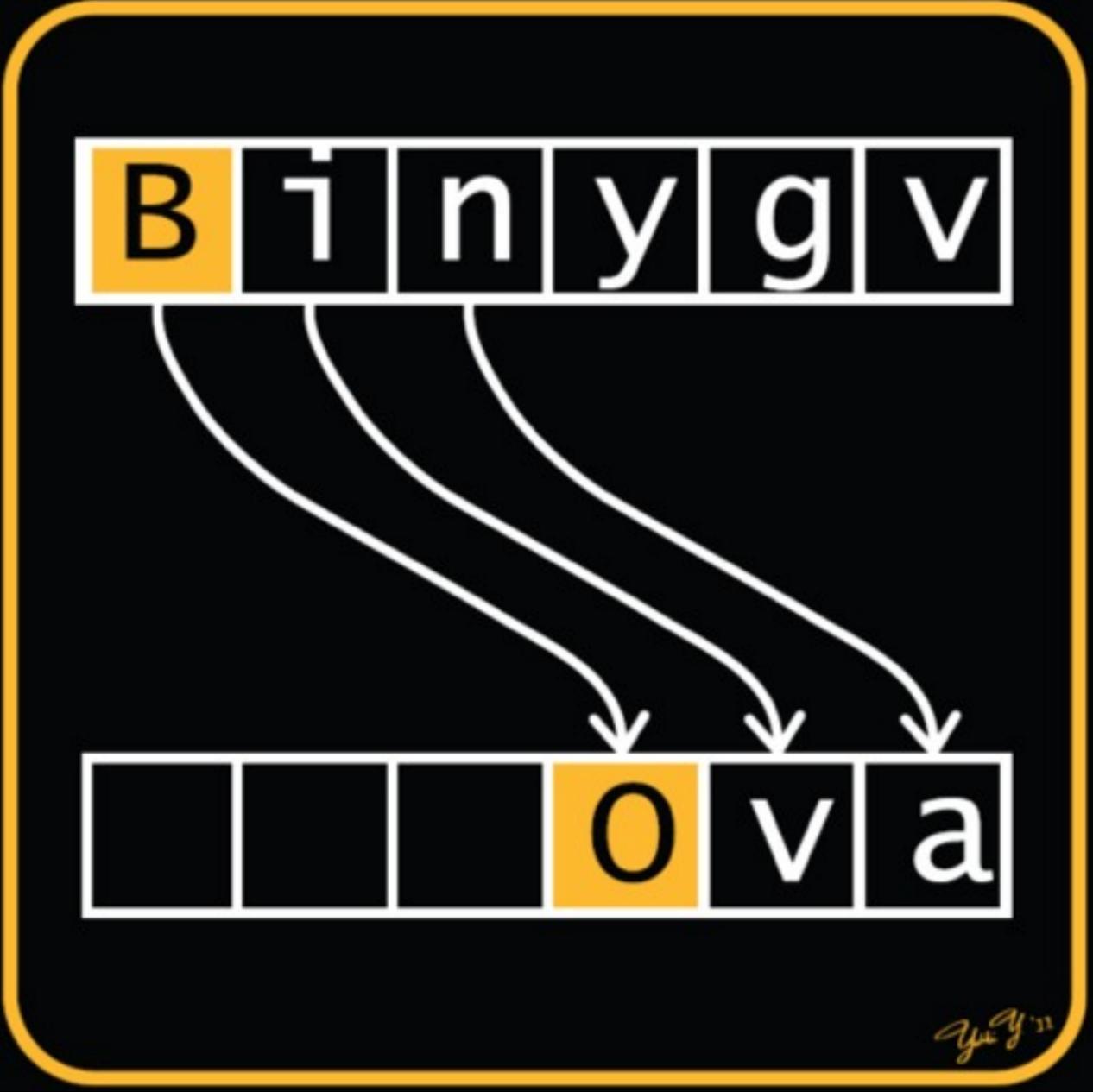
```
1 #include <cs50.h>
2 #include <stdio.h>
3
4 int main(int argc, char* argv[])
5 {
6     string horcruxes[] = {
7         "Marvolo Gaunt's Ring",
8         "Tom Riddle's Diary",
9         "Helga Hufflepuff's Cup",
10        "Salazar Slytherin's Locket",
11        "Rowena Ravenclaw's Diadem",
12        "Harry Potter",
13        "Nagini"
14    };
15
16    for (int i = 0; i < 7; i++)
17        destroy(horcruxes[i]);
18
19    return 0;
20 }
21
```

walkthroughs

staff

108





# 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

2024.11.11

3			9		2			5

2024.11.11



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

*David J. Malan*

ftw so watch out!

*David J. Malan*

**CS50**

↑ 120



CS50 Fair







This is CS 50.

Lauren Carvalho '11

Julia Handbrough '11

# CS50 Hackathon

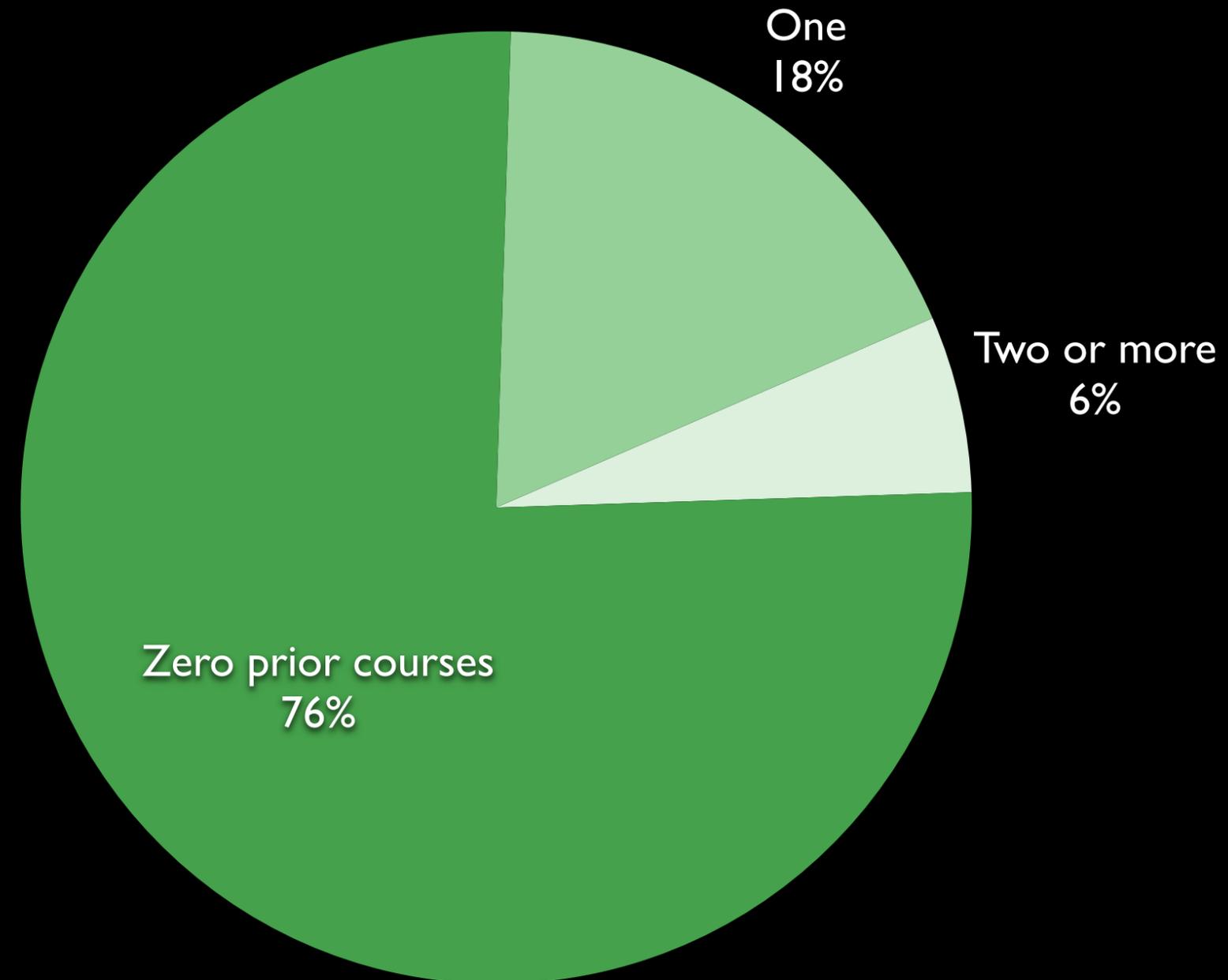
8:00pm - 7:00am







**76%** of the people around you  
have no prior experience



what ultimately matters in this course is not so much where you end up relative to your classmates but where you, in Week 11, end up relative to yourself in Week 0

This is CS50.