



MAKE
SCHOOL

THE REVOLUTION HAS BEGUN

THERE WILL BE HATERS

DON'T BE A HATER

WHAT TO EXPECT

Oh boy...

HIGH LEVEL

Semester 1 (Sep 21 - Dec 18 2015)

CS Theory, iOS, Interview Prep, Design, Learning to Learn

Semester 2 (Jan 4 - May 27 2016)

Rails, Software Engineering, OSS, Entrepreneurship, Ethics

Semester 3 (Jan 2 - May 26 2017)

Computer Architecture, Hardware, Advanced Topics, Work,
Workplace Productivity

Capstone Project (June 12 - Aug 18 2017)

THIS SEMESTER

Projects CS Theory through several small Python projects, a couple big iOS projects.

Interview Prep Mock interviews, problem solving practice, personal website, resume

Warnings We will assume Summer Academy knowledge, shipping vs doing it right

PHILOSOPHY

Learn by making

Teachers push, not drag

Strong feedback loops

Rapid iteration

HIRING CYCLES

~November Big companies (Dropbox, Google, Facebook)

Dec/Jan Big + Mid companies (Tilt, Teespring, Hipmunk)

Spring Mid + Small companies

OFFERS 101

Never, ever accept an offer live or on the phone.

Never, ever accept an offer without checking with staff.

Be very wary of strangers or new acquaintances trying to make you their co-founder

IT WILL BE CRAZY

SHOW UP

**SAN FRANCISCO
IS STRESSFUL**

SLEEP!

**TALK TO US IF YOU ARE
STRESSED**

We will not tolerate harassment of others in any form regardless of gender, gender identity and expression, sexual orientation, disability, physical appearance, body size, race, age, religion or experience level.

Make School Code of Conduct

Don't be a jerk.

Code of Conduct in Summary

WE ARE UNITED
AS MAKERS

“that’s so gay”

“what a jew”

“we raped

that team”

“no homo”

“that’s retarded”

Unacceptable phrases

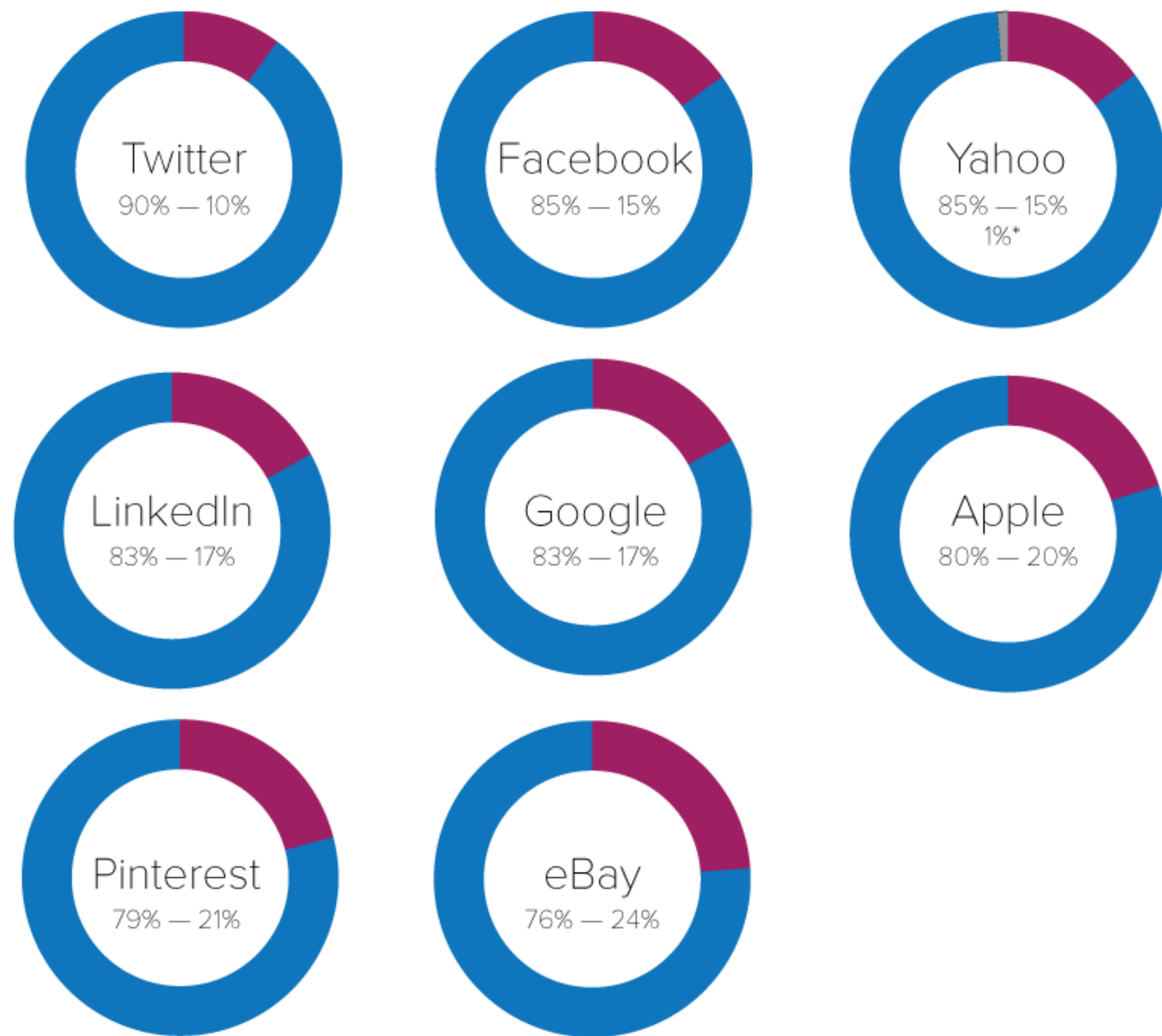
The N-word or
other racial slurs

“made that my bitch”

“you’re a bitch”

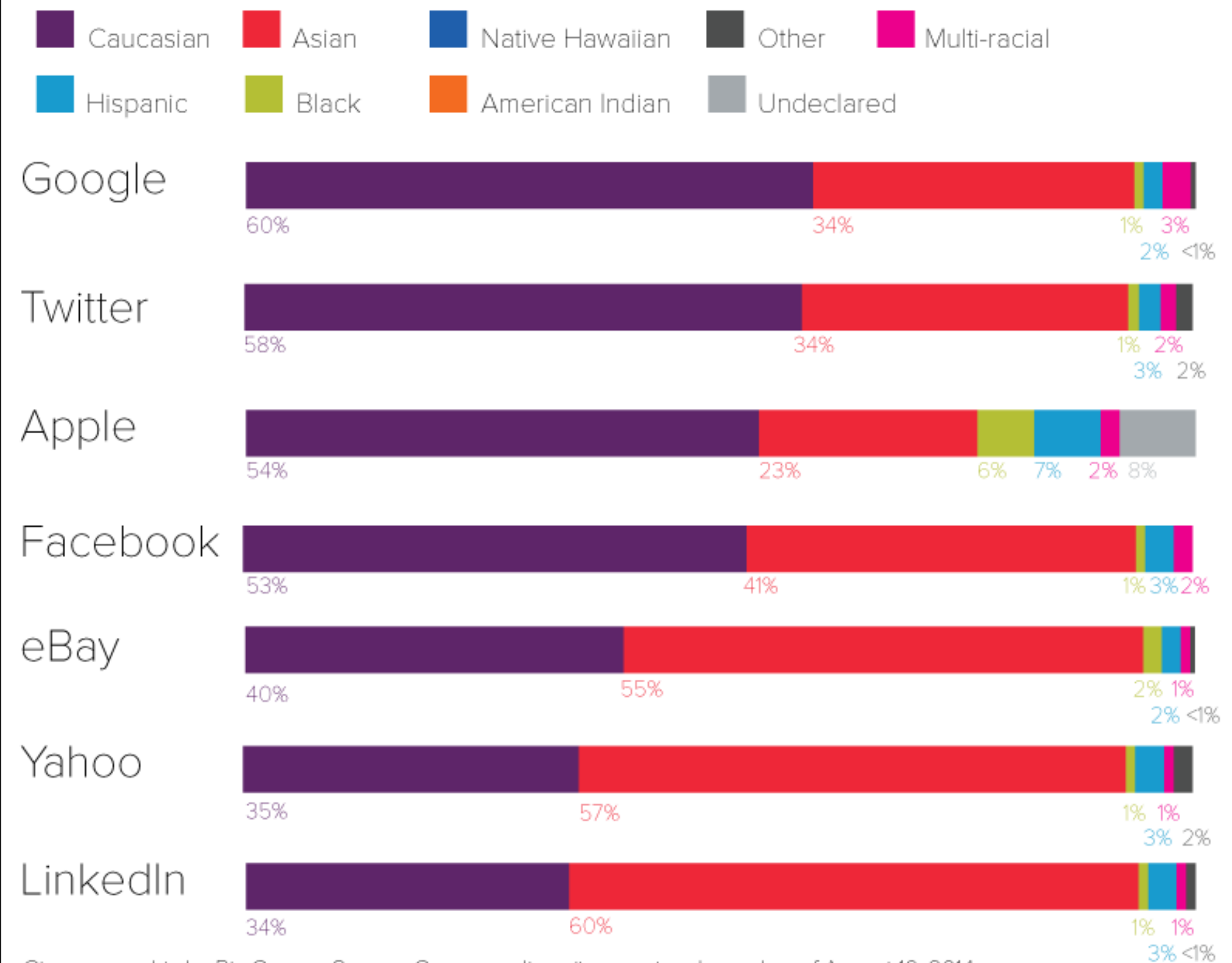
INDUSTRY PROBLEMS

GENDER: TECH



Gigaom graphic by Biz Carson. Source: Company diversity reports released as of August 19, 2014.
 *Yahoo reported 1% other/undisclosed. Cisco, Intel, HP and Microsoft did not report tech breakdowns.

DIVERSITY: TECH



Gigaom graphic by Biz Carson. Source: Company diversity reports released as of August 19, 2014.
 Cisco, Pinterest, Microsoft, HP and Intel did not release tech breakdowns.

Say “you all”
instead of “you guys”

Help peers who are
falling behind

Ask for feedback
on your app

Be inclusive

Meet a new person
every day

Extend invites
whenever possible

Host and attend low
cost social outings

THINGS TO AVOID

Sarcasm

Put downs

Feigning surprise

Correcting with "well actually"

BUILDING RULES

Ring bell if arriving before 10AM

Leave bikes inside, read parking signs!

Leave the space better than you found it

Go to lunch in groups - not alone

Have to leave with last staff

MAKE SCHOOL PAYMENT

Don't forget to file taxes!

100% of internship earnings

25% of pre-tax income for 2 years

In California, \$110k/year -> ~\$70k take home

After Make School payment -> \$42.5k take home

\$42.5k take home feels like a ~\$67k salary

WE'RE GETTING INSPECTED!

DORMS DORMS DORMS...

TECHNICAL



3. Analyze Word Frequency in Text

The next step towards our sentence generation program is to perform some basic textual analysis. In this case, we're going to analyze the frequency of words in a body of text.

For example, if the source text were the sentence "one fish two fish red fish blue fish", then the word frequency would be "one" -> 1, "fish" -> 4, "two" -> 1, "red" -> 1, "blue" -> 1.

In this tutorial, we'll be writing a program which, given a source body of text, can perform operations to answer questions such as:

- What is the least/most frequent word(s)?
- How many different words are used?
- What is the average (mean/median/mode) frequency of words in the text?

The structure to represent this kind of data is called a histogram, which really just means a count of things by category. In Python, you can represent a histogram in a variety of ways using the different data structures available. Part of the challenge of this tutorial is how to design and use these data structures to create a histogram.

We've already seen how to read files in and break them up into words, but for this exercise we will want to use a more interesting file than `/usr/share/dict/words` because, of course, that file only includes one instance of each word. Not very interesting for frequency analysis.

So, the first thing you'll need to do is to find yourself a good body of source text. You can use any text you want, so long as you're not breaking any copyright laws and you can store it as plain text. A good source is [Project Gutenberg](#), where you can easily download plain-text and copyright-free versions of classic books.

1. Let's Build a Twitter Bot
2. Random Dictionary Words
3. Analyze Word Frequency in Text
4. Stochastic Sampling
5. Data Structure Comparisons and Performance An...
6. Hash Table from Scratch
7. Picking a Corpus
8. Parsing Text and Clean Up
9. Tokenization
10. Counting Tokens
11. A Word about Application Architecture
12. Generating Sentences
13. Flask Web App
14. Time to Tweet

GET HELP

OPEN SOURCE EDUCATION

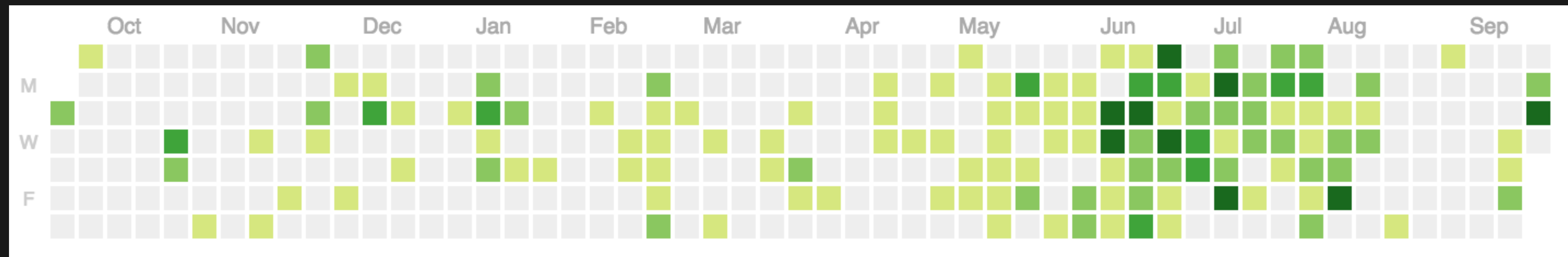
The tutorials that you'll do are all open source.

We like pull requests.

We *really* like pull requests.

By submitting pull requests, you get to color some boxes green.

Companies like green boxes.



github.com/makeschool-tutorials

There are no grades. There's no tests.

But there are *evaluations*.

Craftsmanship

Tool Utilization

Learning Progress

Self-Reliance

Communication

Teamwork

Product

Design and Usability

- 5 Greatly exceeds expectations
- 4 Slightly exceeds expectations
- 3 Meets expectations
- 2 Slightly misses expectations
- 1 Greatly misses expectations

NON-TECH

Semester 1 learning how to learn, interview & job prep

Semester 2 entrepreneurship, problems in society

Internship

Semester 3 workplace productivity

Capstone business functions, lifestyle design

CORPORATE PARTNERS

WHY DO WE HAVE PARTNERS?

**WHAT DOES IT MEAN TO BE
A PARTNER?**

Send team members to our Demo Nights

Host the entire class for an office visit

Allow us to use their name in promotional materials

Give us feedback on our curriculum

Will consider you for hire as interns, for contract work, and full time when you graduate

Give guest lectures to the class

Send mentors to work with you

Will let you be beta testers for new products

CURRENT PARTNERS

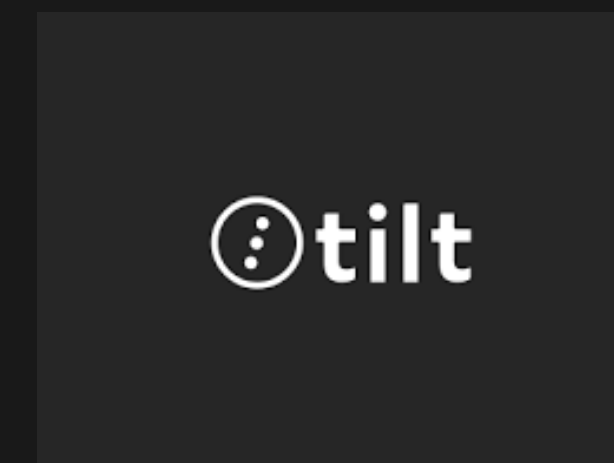
19 Signed Partners

8 YC Backed

1 Coworking Space

14 SF Based

Full list at makeschool.com/partners



HOW CAN YOU BE INVOLVED?

What companies are you interested in?

How else can they work with you?

INTERVIEW PREPARATION & CAREER PLACEMENT

**OUR INCENTIVES AND YOUR
INCENTIVES ARE ALIGNED**

TECHNICAL INTERVIEWS

Phone screens and behavioral interviews

Programming challenges and puzzles

On-site pair programming with engineers

Offer negotiation games

MOCK INTERVIEWS

3 rounds of practice interviews

1st round – communication skills

2nd and 3rd round – technical skills

Programming challenges on HackerRank

REAL INTERVIEWS

Partner companies will come in to interview

You can apply to and work for any company

Share any offer with us *before* accepting!

Alan will track your progress with AppLion

APPLION

NEW

IMPORT

EXPORT

ARCHIVED

Applied to

0

places

this week,

with

45

total

in progress.

Active Applications

% ⬆️⬆️	★ ⬆️⬆️	COMPANY ⬆️⬆️	POSITION ⬆️⬆️	NEXT STEP ⬆️⬆️	DUE ⬆️⬆️
▼	☆	Treehouse		<input type="checkbox"/> Research ↻	Overdue
▼	★	Teespring		<input type="checkbox"/> Research ↻	Overdue
		<div>Location ??? Full Time Salary ???</div>	<div>These notes sure are useful...</div>		<div>ARCHIVE</div> <div>DETAILS</div>
▼	☆	Slack		<input type="checkbox"/> Research ↻	Overdue
▼	★	Quora		<input type="checkbox"/> Research ↻	Overdue
▼	☆	Quip		<input type="checkbox"/> Research ↻	Overdue

STUDENT LIFE

GOALS

Build community

Create professional networking opportunities

Expose us to as to what San Francisco has
to offer

Happiness!

HOPES

We're a community of inclusion

We're friends outside of the class

Empower each other

Our sum is greater than our individual parts

HOPES

Accept and understand differences

Everyone is here to learn different things

We can all teach each other something

See each other as equals, and help each other
when we need it

HOPES

Be active in the community

Empower each other

Be selfless, become givers

Everyone has their own way of thinking

HOPES

We should push each other positively, even after we graduate

Maintain a competitive mindset, but not internally

Let our legacy power the education revolution

Our network is forever

Don't let work distract us from all our hopes

INTERESTS AND ACTIVITIES

Sports

Music Production

NPO Club

Adventure Club

Snow Club

Gaming

Game Design

Philosophy

Think Tank Club

Politics

Book Club

Speech and Debate

STUDENT GROUPS

Social calendar

Student leadership

Facebook events and groups

Need funding?

HAVE AN ISSUE?

Dorms:

Talk to Luke
(518) 390-6521

Emergencies: Always
CC Evan and Sara

Otherwise:

Talk to Evan
(510) 225-8129

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@MakeSchool
#MakeSchool