

# SoCal High School Programming Contest

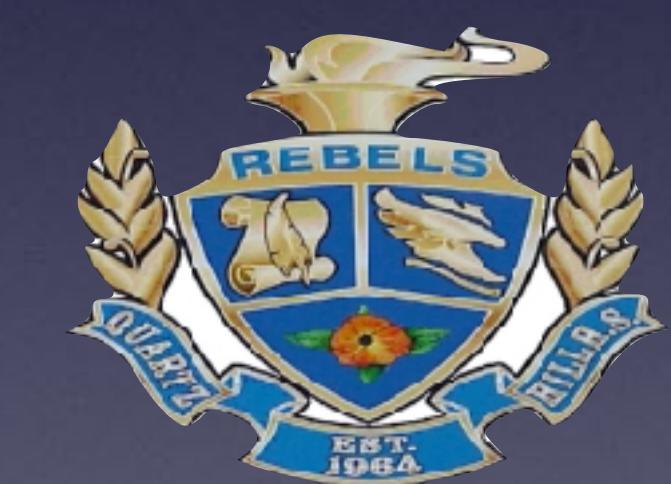
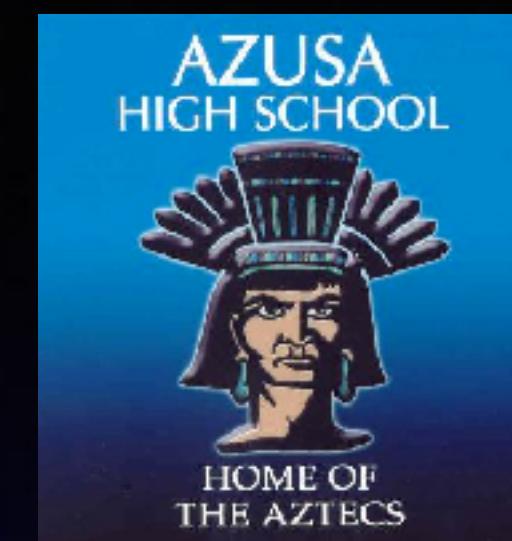
Computer Science Department  
College of Science  
Cal Poly Pomona

May 20th, 2017



**94** students

**23** schools





# Schedule

Time	Event	Location
12:00 - 3:00PM	Contest	8-51, 8-52, 3-2326
3:00 - 3:15PM	Break	Nearby
3:15 - 3:45PM	Award Ceremony	3-2137

# Programming Contest

- 3 Hours
- 8 Programming Questions
- HackerRank



# Award Rules

- Total Number of Questions Solved
- Total Amount of Time Used
- No Penalties on Failed Submissions
- 3 Categories: Individual, Team, and Female
- Award the Top 5 in Each Category



# HackerRank Login

- Full Name(s)
- Email
- HSPC ID (e.g., T05, D11)
- HSPC Password



# Computers, Books, Phones and Internet





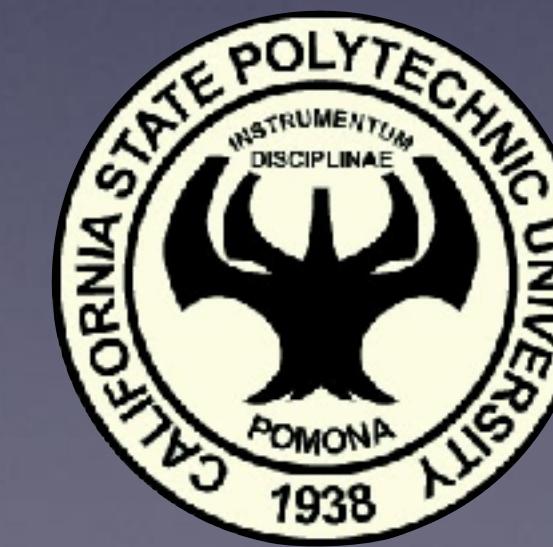
# Programs Allowed



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# Software is Everywhere



Google

x



<https://www.google.com>

Search

Images

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Play

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Gmail

Drive

Calendar

More

# Google



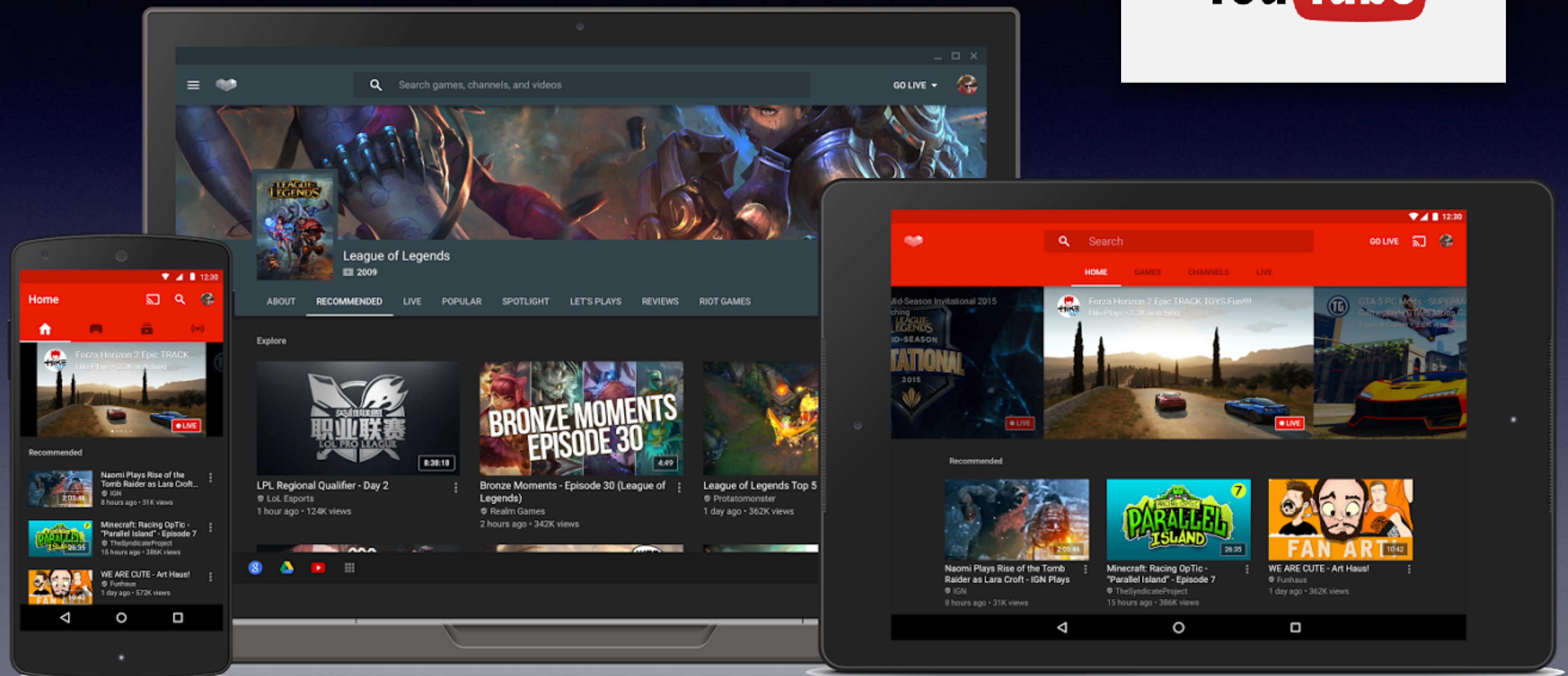
Google Search

I'm Feeling Lucky

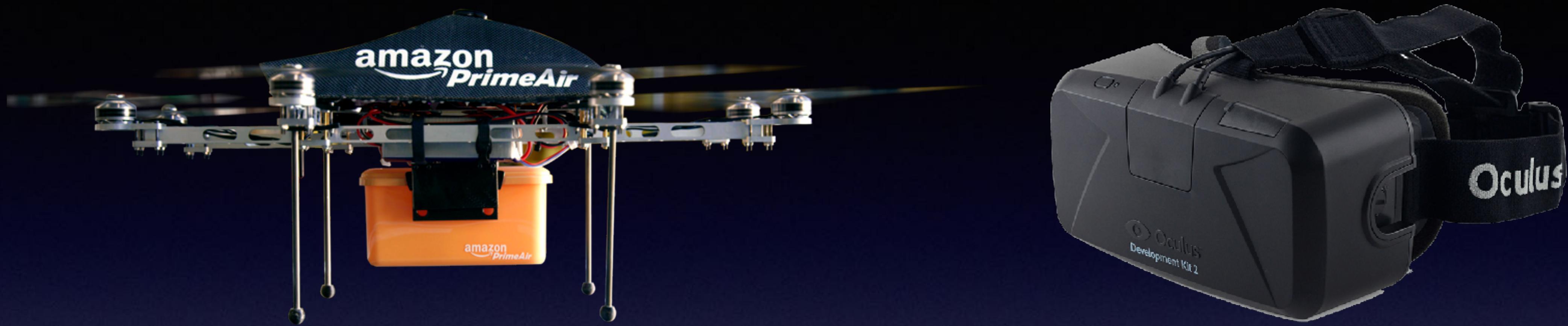














A white Google self-driving car is shown from a rear three-quarter perspective, parked on a road. The car features a distinctive rounded body, a black roof-mounted sensor array, and a small blue light bar on the side door. It is positioned in front of a blurred background of trees and a sunset sky.

Google



SPACEX

# The Demand for Computer Scientists



## Best jobs in fast-growth fields

If you're stalled or burned out, try one of these high-growth sectors where you can earn more, get ahead and put life back into your career.  
[More](#)

1. Software Developer
2. Physical Therapist
3. Financial Adviser
4. Civil Engineer
5. Marketing Specialist
6. Management Consultant
7. Information Technology Consultant
8. Database Administrator
9. Financial Analyst
10. Environmental Engineer



## U.S. News Best Jobs Of 2014

Software developer takes the number one spot.



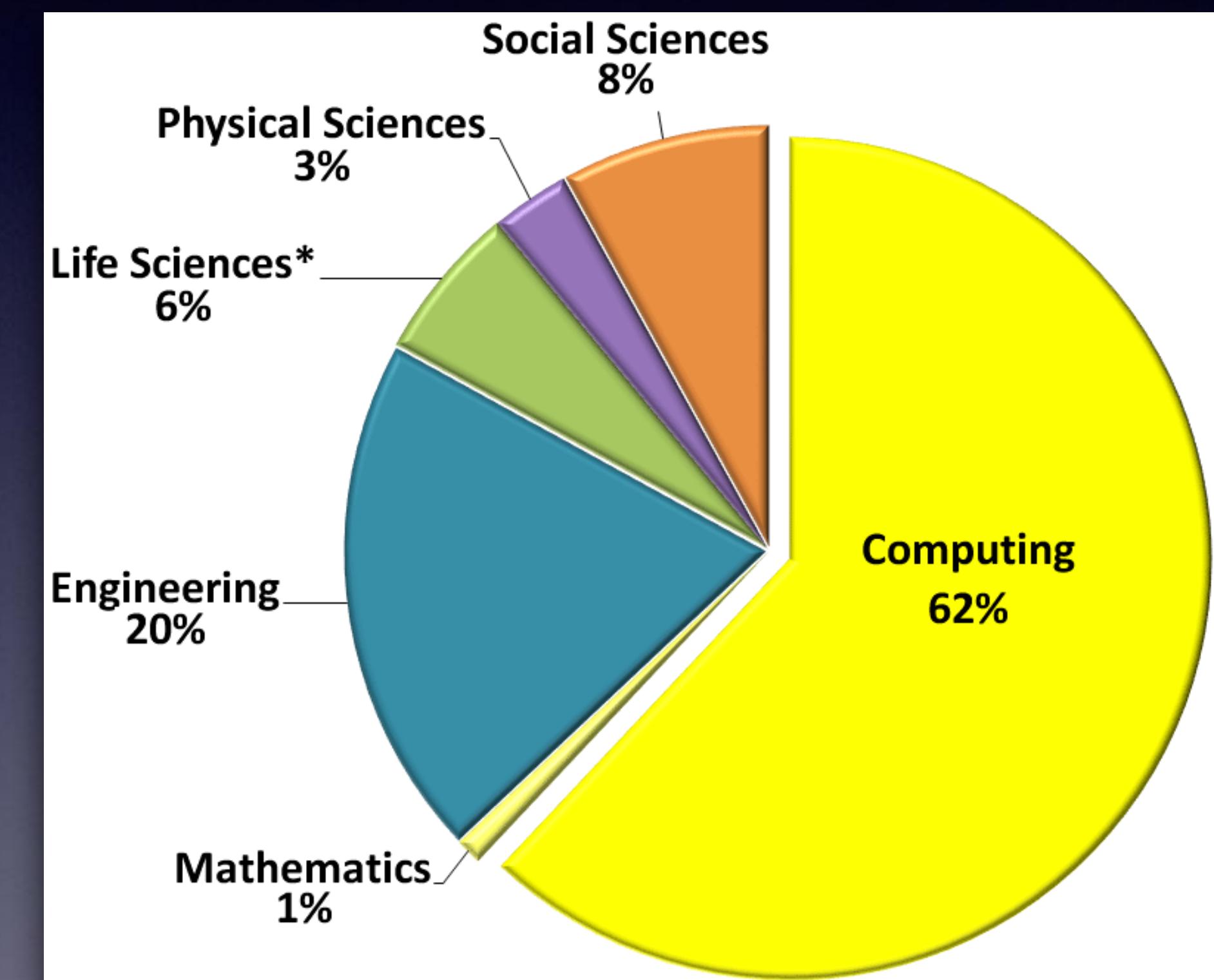
## IT jobs will grow 22% through 2020, says U.S.

Biennial update says offshoring will limit growth in some occupations, while healthcare IT provides a boost

# Where the STEM Jobs Will be

Projected Annual Growth of NEWLY CREATED STEM Job Openings 2010-2020

STEM	9.2 million
Architecture/Engineering	2.8 million
Computing	4.6 million
Mathematics	0.1 million
Life Sciences	0.6 million
Physical Sciences	0.4 million
Social Sciences	0.6 million



Source: Jobs data are calculated from the Bureau of Labor Statistics (BLS), Employment Projections 2010-2020, available at <http://www.bls.gov/emp/>.

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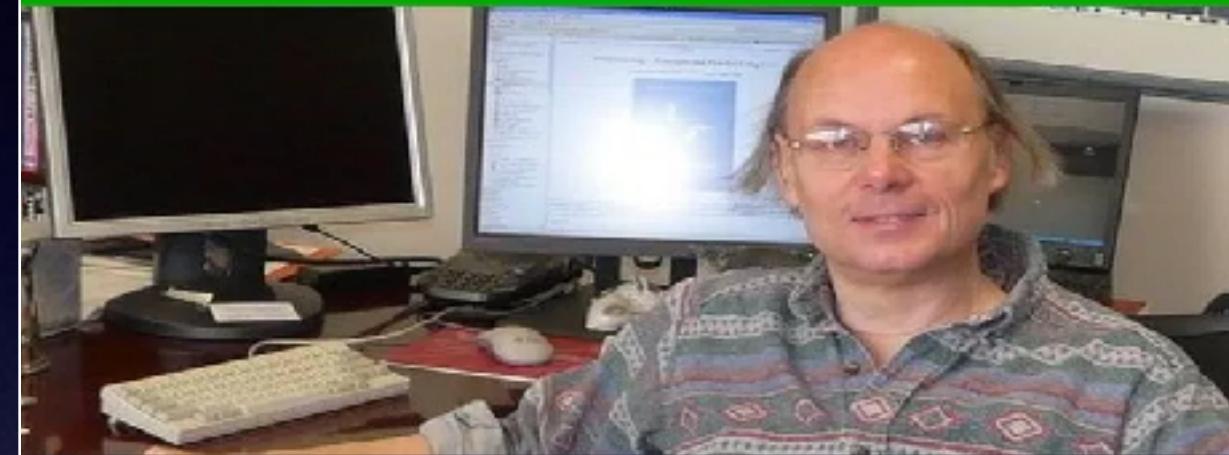
Evan Spiegel  
Founder of SnapChat

# The Top Coders

**Dennis Ritchie - #1**



**Bjarne Stroustrup - #2**



**Linus Torvalds - #3**



**Bill Gates - #4**



**Mark Zuckerberg - #5**



**Donald Knuth - #6**



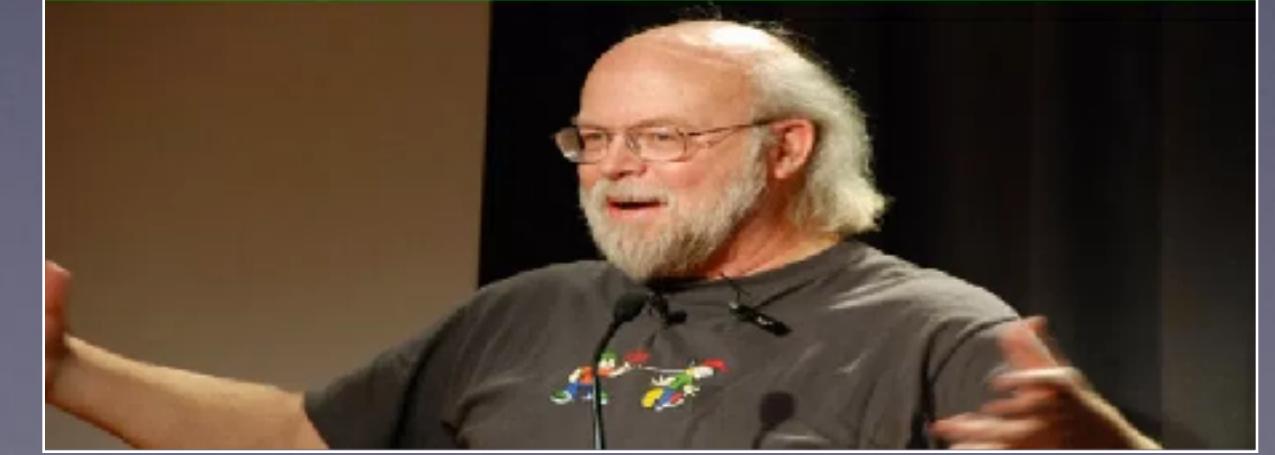
**Guido van Rossum - #7**



**Niklaus Wirth - #8**



**James Gosling - #9**



# Top 5 Top Coder Award



# Top Coder Award

## 5th Place

Grant Leech

Glendora High School

7 Questions | 111 Minutes

# Top Coder Award

## 4th Place

Saralynn Chick

Westlake High School

7 Questions | 101 Minutes

# Top Coder Award

## 3rd Place

Regina Wang

Troy High School

8 Questions | **148** Minutes

# Top Coder Award

## 2nd Place

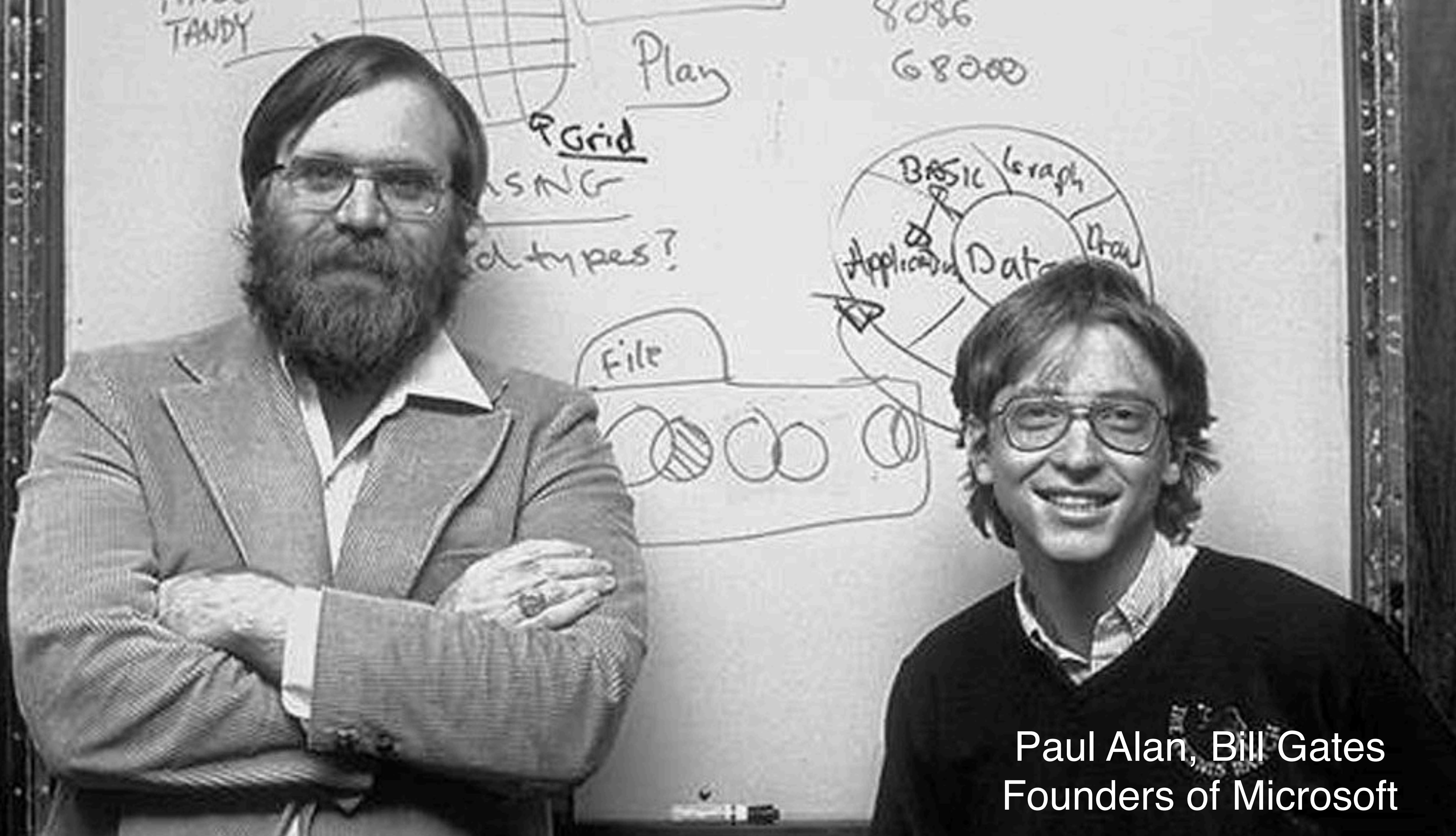
Sabrina Tseng

Diamond Bar High School  
8 Questions | 128 Minutes

# Top Coder Award

## 1st Place

Harry Jaeyoung Cha  
Palos Verdes High School  
8 Questions | 88 Minutes



Paul Alan, Bill Gates  
Founders of Microsoft



Larry Page, Sergey Brin  
Founders of Google



Company name	Founders	Total
Microsoft	Bill Gates, Paul Allen	2
Google	Sergey Brin, Larry Page	2
Youtube	Chad Hurley, Steve Chen, Jawed Karim	3
Yahoo!	Jerry Yang, David Filo	2
Overture (formerly Goto.com)	Bill Gross	1
eBay	Pierre Omidyar	1
PayPal	Peter Thiel, Max Levchin	2
Skype	Niklas Zennström, Janus Friis	2
Kazaa	Niklas Zennström, Janus Friis	2
Hotmail	Sabeer Bhatia, Jack Smith	2
Ask.com	Garrett Gruener, David Warthen	2
Excite	Graham Spencer, Joe Kraus, Mark Van Haren, Ryan McIntyre, Ben Lutch, Martin Reinfried	6
Napster	Shawn Fanning	1
Lycos	Dr. Michael Mauldin	1
Amazon	Jeff Bezos	1
Apple	Steve Jobs, Steve Wozniak, Ronald Wayne	3
MySpace	Tom Anderson, Chris DeWolfe	2
FaceBook	Mark Zuckerberg, Dustin Moskovitz, Chris Hughes	3
Netscape	Marc Andreessen, Jim Clark	2
AOL	William von Meister	1
Mirabilis (which engineered ICQ)	Yair Goldfinger, Arik Vardi, Sefi Vigiser, Amnon Amir	4
Digg.com	Kevin Rose	1
Average		2.09

The Optimal Number  
for Co-Founders:

**2.09**



# Top 5 Best Team Collaboration



# Best Team Collaboration

## 5th Place

Sharleen Loh & Angela Wang

Troy High School  
7 Questions | 160 Minutes

Tynesha Pham & Angela Gadon

Woodbridge High School  
7 Questions | 85 Minutes

# Best Team Collaboration

## 4th Place

Tynesha Pham & Angela Gadon

Woodbridge High School  
7 Questions | 85 Minutes

# Best Team Collaboration

## 4th Place

Hoang Luu & Tri Truong

La Quinta High School  
7 Questions | 66 Minutes

# Best Team Collaboration

## 3rd Place

Anh Ngo & Alvin Nguyen

La Quinta High School  
8 Questions | 147 Minutes

# Best Team Collaboration

## 2nd Place

Peter Thompson & William He

Diamond Bar High School  
8 Questions | 126 Minutes

# Best Team Collaboration

## 1st Place

Jefferson Lee & Aleksander Nelson  
Woodbridge High School  
8 Questions | 103 Minutes

# Marissa Mayer

Employee #20 at Google  
Current President and CEO of Yahoo!  
Net worth: Over \$300M  
Top-15 in Forbes' Most Powerful Women



# Sheryl Sandberg

Current COO of Facebook

Founder of leanin.org

Net worth: Over \$1B

Board of Directors, Walt Disney

Top-5 Forbes' Most Powerful Women



“A ship in port is safe, but that's  
not what ships are built for.

Grace Hopper  
1906 - 1992



# Top 5 Grace Hopper Award



# Grace Hopper Award

## 5th Place

Kelly Chou

Ruben S. Ayala High School  
6 Questions | 160 Minutes

# Grace Hopper Award

## 4th Place

Felianne Teng

Troy High School  
6 Questions | 133 Minutes

# Grace Hopper Award

## 3rd Place

Saralynn Chick

Westlake High School  
7 Questions | 101 Minutes

# Grace Hopper Award 2nd Place

Regina Wang

Troy High School  
8 Questions | **148** Minutes

# Grace Hopper Award 1st Place

Sabrina Tseng

Diamond Bar High School  
**8 Questions | 128 Minutes**



COMPUTER SCIENCE



Computing  
Accreditation  
Commission

# More Google Ignite CS Activities @ Cal Poly Pomona CS



<http://www.cpp.edu/~cs>



# Computer Programming Summer Camp @ Cal Poly Pomona CS



<http://cppsummercamp.com>



Cal Poly Pomona

## Computer Programming Summer Camp

Weekly JUNE 26 - AUG 4  
MONDAY - FRIDAY 8am - 5pm



GRADES 7th - 12th



### Exciting Camp Topics:

- ✓ Java Programming for AP CS
- ✓ Cyber Security
- ✓ Mobile App Development
- ✓ Robotics Programming
- ✓ Web Design and Development
- ✓ and a Lot More...

Offered by Computer Science Department

\$298

1/3 of a regular  
camp price  
Space is  
Limited

CALL FOR MORE INFO  
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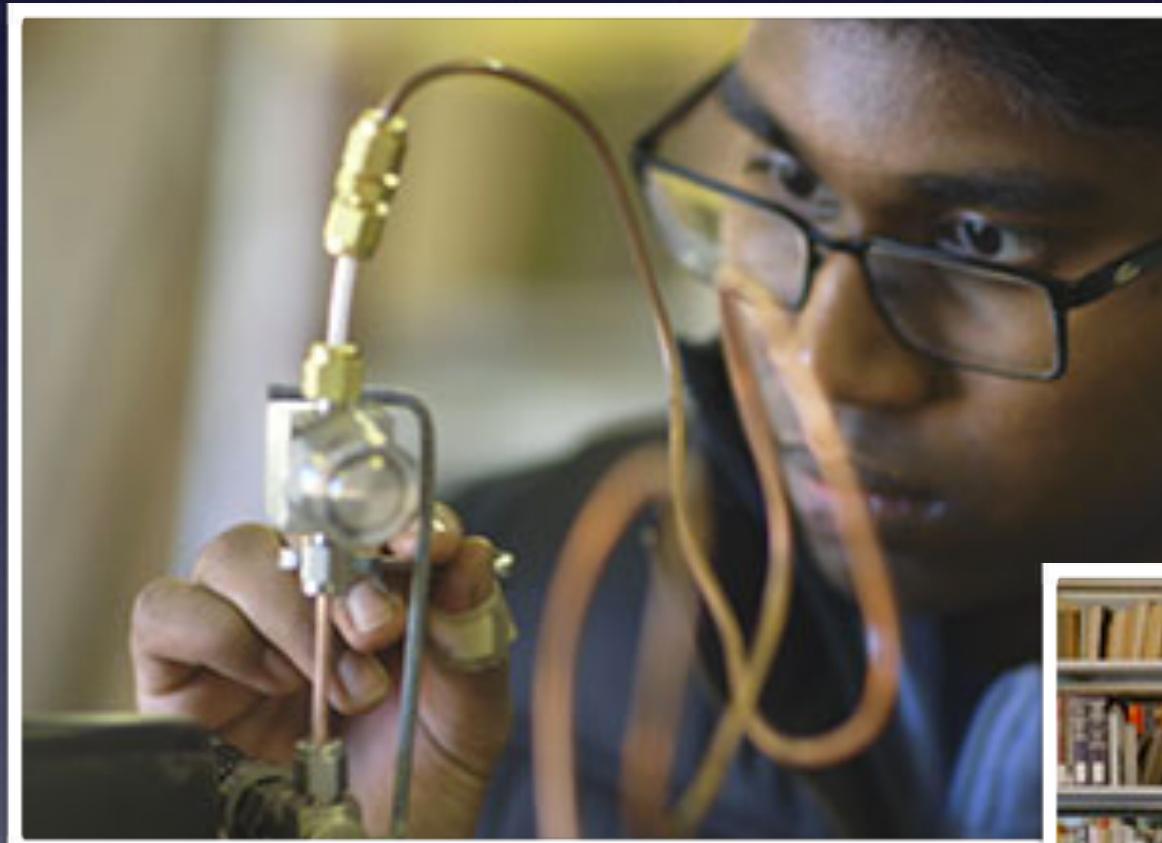


OR VISIT OUR WEBSITE  
[cppsummercamp.com](http://cppsummercamp.com)

# Mentoring for Science Fair Competitions @ Cal Poly Pomona CS



yusun@cpp.edu



**SEE YOU  
NEXT YEAR!**

## SoCal HSPC



May, 2018



Computer Science Department  
College of Science  
<http://cpp.edu/~hspc>

# Thank You!

**See You Next Year!  
HSPC 2018**

# Thank You!

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