EXP 57 Day 2

•••

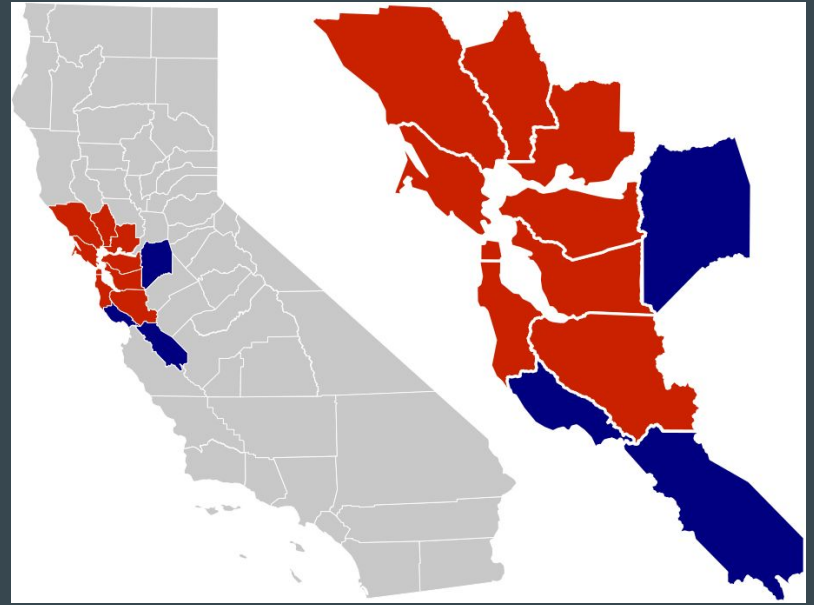what is this whole "tech" thing anyway?

News flash

- Ursula K Le Guin died (link)
- EU fined Qualcomm $1.2B for bribing Apple (link)
- Facebook open-sourced Detectron (link)
- U.S. drops out of top 10 from 2018 Bloomberg Innovation Index (link)
- Twitter's COO resigns, becomes chief executive at SoFi (link)

Bloomberg 2018 Innovation Index

2018 rank	2017 rank	YoY change	Economy	Total score	R&D intensity	Manufacturing value-added	Productivity	High-tech density	Tertiary efficiency	Researcher concentration	Patent activity
1	1	0	S. Korea	89.28	2	2	21	4	3	4	1
2	2	0	Sweden	84.70	4	11	5	7	18	5	8
3	6	+3	Singapore	83.05	15	5	12	21	1	7	12
4	3	-1	Germany	82.53	9	4	17	3	28	19	7
5	4	-1	Switzerland	82.34	7	7	8	9	11	17	17
6	7	+1	Japan	81.91	3	6	24	8	34	10	3
7	5	-2	Finland	81.46	8	16	10	13	19	6	4
8	8	0	Denmark	81.28	6	15	11	15	26	2	10
9	11	+2	France	80.75	12	35	14	2	10	21	9
10	10	0	Israel	80.64	1	27	9	5	41	1	19
11	9	-2	U.S.	80.42	10	23	6	1	42	20	2
12	12	0	Austria	79.12	5	8	15	26	12	12	5
13	16	+3	Ireland	77.87	22	1	1	18	20	14	33
14	13	-1	Belgium	77.12	11	22	13	10	37	13	21
15	14	-1	Norway	76.76	19	37	19	11	23	8	14
16	15	-1	Netherlands	75.09	17	26	20	6	47	15	18
17	17	0	U.K.	74.54	20	40	23	14	8	18	15
18	18	0	Australia	74.35	14	46	16	17	17	3	20

What is Silicon Valley?

- A small place in California
- Home of the mythical "10x programmer"
- Where most of these tech companies live
- Semiconductors
- Ever heard of Xerox PARC?
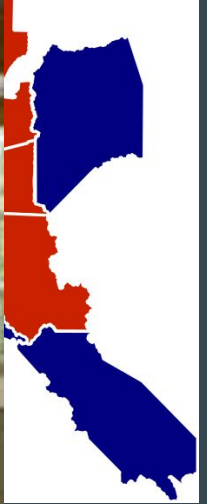- Not actually the entire Bay Area; originally just the Santa Clara Valley

ty, Wikipedia

What is Silicon Valley?

- A sm
- Hon
- Who
- Sem
- Ever
- Not
  orig

How did Silicon Valley come about?

- Stanford University
- Transistors, *Shockley Semiconductor Laboratory, Fairchild Semiconductor, Intel*
- ARPANET
- The Intel 8080
- Homebrew Computer Club
- Venture capital, Sand Hill Road, KPCB & Sequoia
- Apple, 1980
- Xerox PARC
- Dot-com bubble
- Some nonsense today

Some typical tourists... some even try and sneak into the office

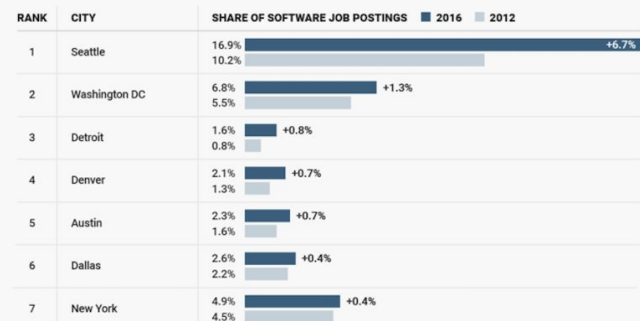ty, Wikipedia

Who's there now? (37 HQs of Fortune 1000)

- Adobe Systems
- Advanced Micro Devices (AMD)
- Agilent Technologies
- Alphabet Inc. (formerly Google Inc.)
- Apple Inc.
- Applied Materials
- Brocade Communications Systems
- Cisco Systems
- eBay
- Electronic Arts
- Facebook
- Hewlett Packard Enterprise
- HP Inc.
- Intel
- Intuit

- Juniper Networks
- KLA Tencor
- Lam Research
- LSI Logic
- Marvell Semiconductors
- Maxim Integrated Products
- National Semiconductor
- NetApp
- Netflix
- Nvidia
- Oracle Corporation
- Riverbed Technology
- Salesforce.com
- SanDisk
- Sanmina-SCI

- Symantec
- Tesla, Inc.
- Visa Inc.
- VMware
- Western Digital Corporation
- Xilinx
- Yahoo!

ty, Wikipedia

Neo-Silicon Valley

- Arises from several factors:
  - Establishment of major corporate offices
  - Start-up culture
  - Local efforts

Here are the cities outside of Silicon Valley that have seen the most growth in terms of tech job listings:

7 PLACES OUTSIDE OF SILICON VALLEY HIRING TECH TALENT

RANK	CITY	SHARE OF SOFTWARE JOB POSTINGS ■ 2016 ▪ 2012	
1	Seattle	16.9% / 10.2%	+6.7%
2	Washington DC	6.8% / 5.5%	+1.3%
3	Detroit	1.6% / 0.8%	+0.8%
4	Denver	2.1% / 1.3%	+0.7%
5	Austin	2.3% / 1.6%	+0.7%
6	Dallas	2.6% / 2.2%	+0.4%
7	New York	4.9% / 4.5%	+0.4%

SOURCE: Glassdoor

BUSINESS INSIDER

Social issues surrounding Silicon Valley

- Lack of diversity - in sex, race, opinions
- Influence on politics
- Workplace culture

Waking up to a nice cup of tech news

- Important to know the direction of your chosen field
- The comments on HN are educated, civil, interesting
  - Some famous people
- Meet people (?! off the internet??)
- Not always tech-related
- In other news, my TV is now (again!) spying on me

- news.ycombinator.com
- lobste.rs
- /r/programming

All the world's code in one place

- GitHub: Facebook for code (ugh)
- Personal, education, corporate
- Code, issues, pull requests, wiki, task management board
- Will be used for "personal project"

Homework 0

- Make an account on GitHub.com
- Make a post on Piazza introducing yourself
  - Preferred name, preferred pronouns
  - Best email address to contact you
  - UTLN (or CS username, if it's different)
  - GitHub username
  - CS courses you have taken & are taking right now
  - News sites, if any, you like to visit
  - Favorite species of tree
- By Friday, Jan 26 at 11:59pm

have a nice weekend!