

Informal education in SE among the Sarajevo IT business community



Novica Nosović, ETF, Sarajevo

15th DAAD Workshop “Software Engineering Education and Reverse Engineering”

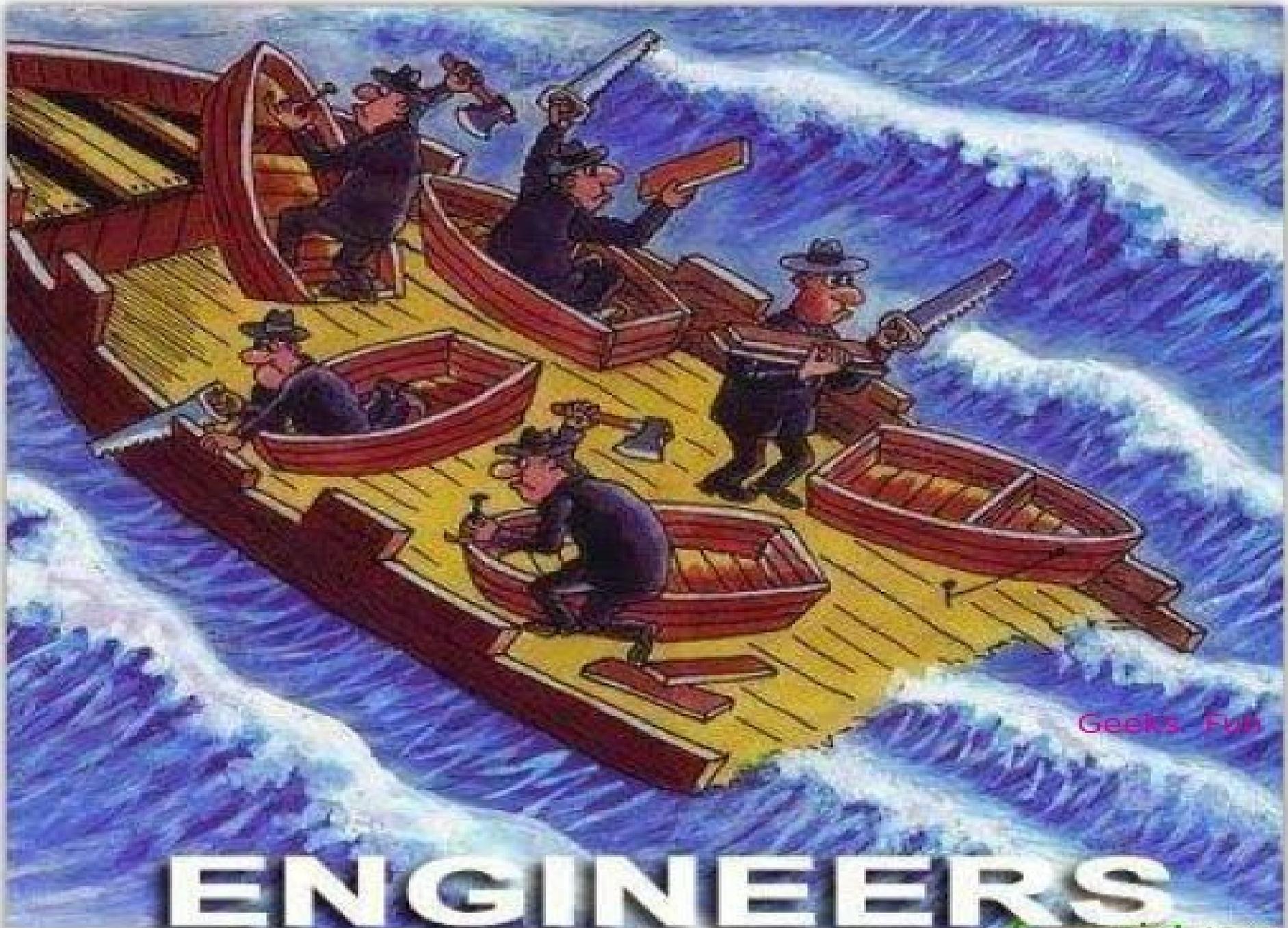
Bohinj, Slovenia, 23th – 30th August 2015

Problem statement

- Foreign IT businesses want to outsource
- Need for startup IT companies with 100+ software engineers (!!!)
- Traditional BH education system in IT can not produce enough SEs...

IT Experts at Work





Geeks Full

ENGINEERS

BIT Camp

BIT Alliance

- Atlantbh,
- Authority Partners,
- DevLogic,
- GreenRiverMedia,
- PING
- ZIRA



BIT Camp Sponsors

- EBRD
- Swiss government
- IUS
- MarketMakers



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



Summer 2014

- 800 candidates applied
- On-line evaluation (IQ-test) => 100
- CV/Motivation/Interview (Oct.) => final 25
- One group - 6 month of intensive education:
 - Focus on SW engineering
 - Specially Java/Android programming skills

Occupation of candidates

From all walks of life:

- Former painter
- Economist
- Polithologist
- Mathematician
- Receptionist
- Mechanical engineer
- ...

The cache coherence problem

- Intuitive behavior for memory system: reading value at address X should return the last value written at address X by any processor.
- Coherence problem exists because there is both global storage (main memory) and per-processor local storage (processor caches) implementing the abstraction of a single shared address space.





- Euphoric
- Melancholic
- Depressed



- Classical
- Modern



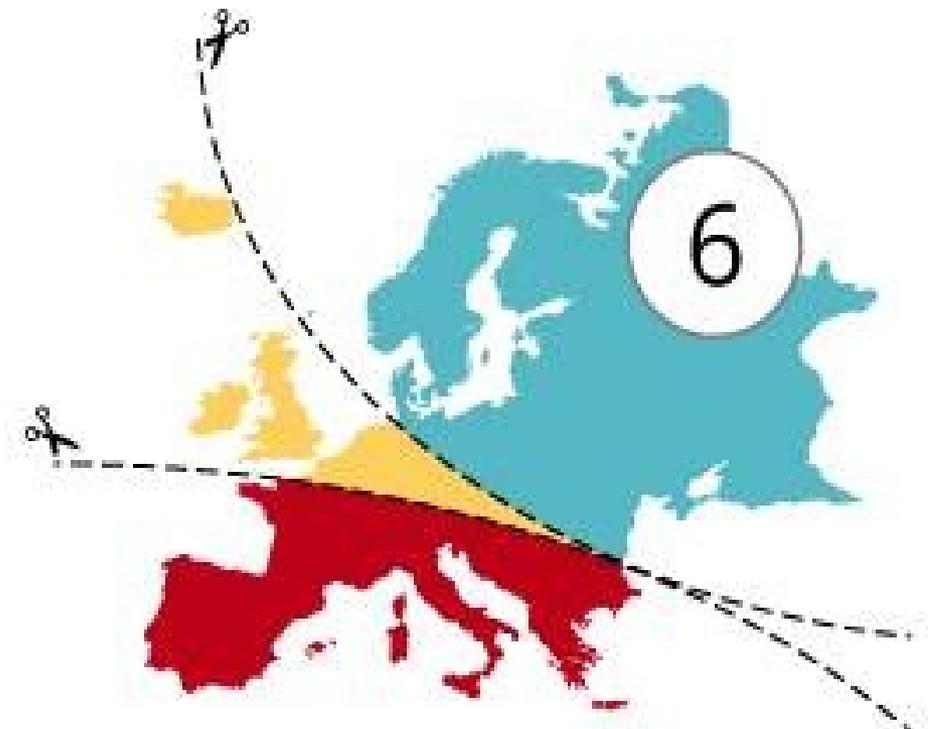
- Revolutionary
- Traditional



- Sunny
- Cloudy



- Tomato Europe
- Potato Europe



- Wine Europe
- Beer Europe
- Vodka Europe



- Olive Oil Europe
- Butter Europe



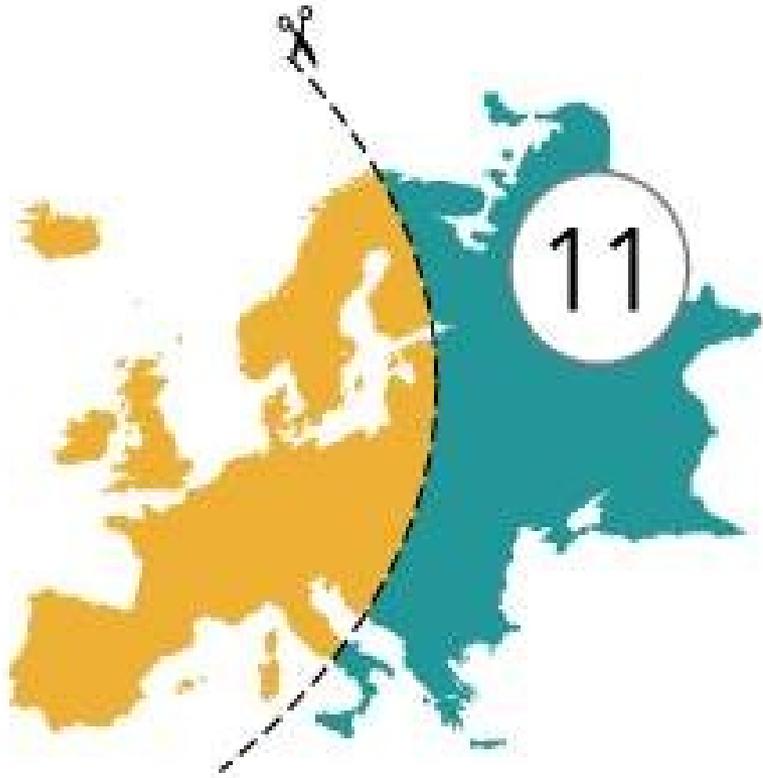
- Tea Europe
- Coffee Europe



- Sexually Repressed
- Emotionally Repressed



- Catholic
- Protestant
- Orthodox



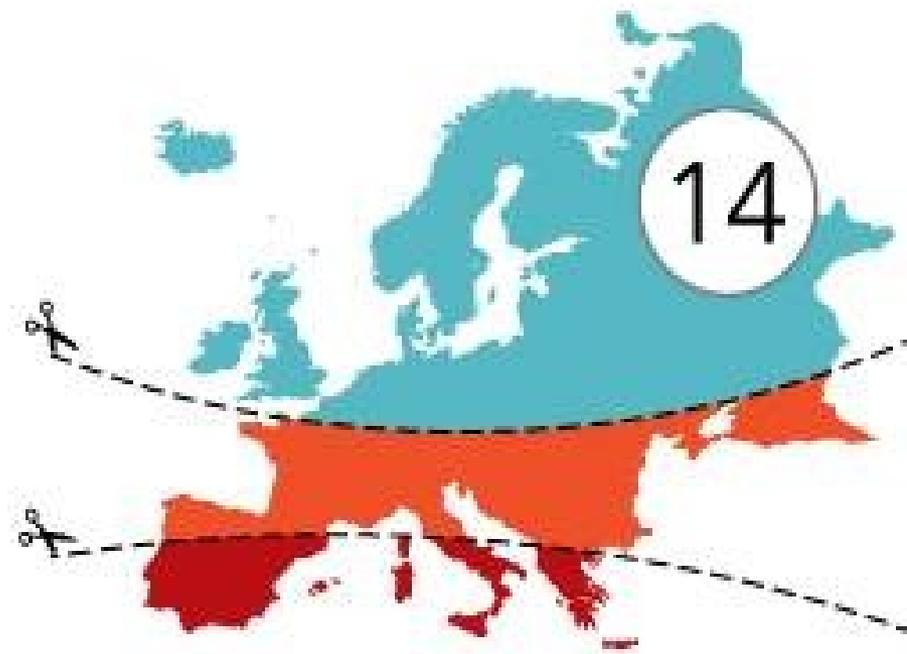
Rich
Poor



Lazy
Hard-working



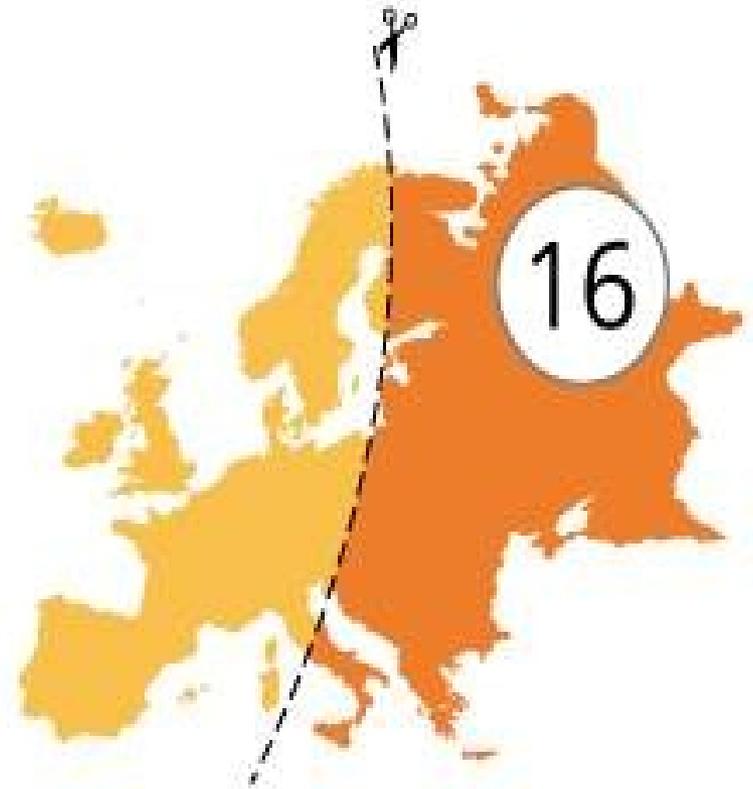
- Good Cuisine
- Bad Cuisine



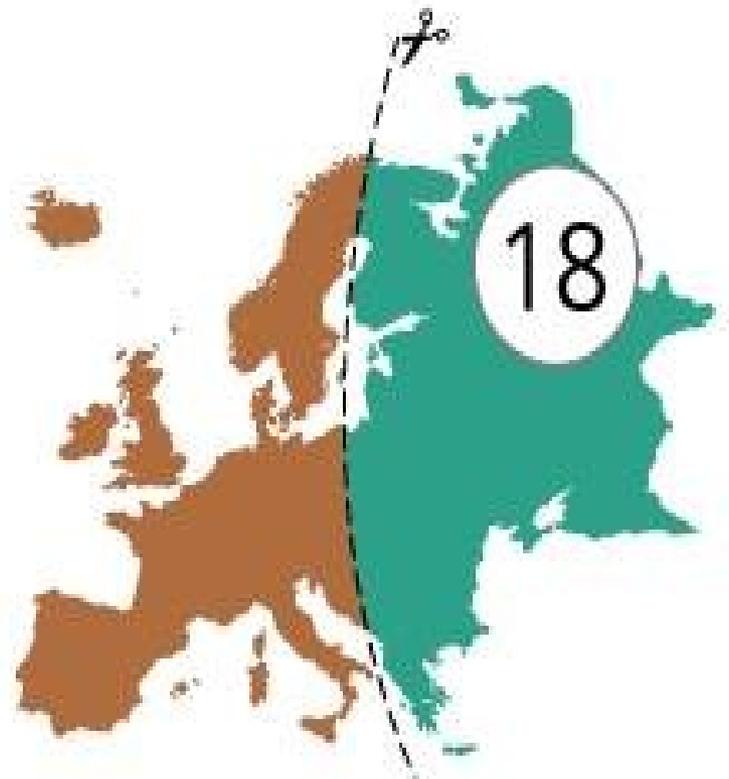
- Deafening
- Loud
- Quiet



- Fag Hags
- Homophobic



- Old Europe
- New Europe



- People who work 21 days per year
- People who live 21 days per year

- People who need a plumber
- People who can fix their own sink



- People who eat walking
- People who eat sitting



- Religious Europe
- Atheist Europe

Spring 2015

- Another 1400 candidates applied
- On-line evaluation (IQ-test) => 200
- CV/Motivation/Interview => final 50
- Two groups focusing on
 - Microsoft .NET and
 - Java/Android



2015 Coding Bootcamp Survey

Coding Bootcamps Expected to Graduate 16,056 Students and Grow by 138% in 2015, Based on Responses from 94% of US & Canadian Schools

By Liz Eggleston
June 8, 2015

Key Findings

Coding bootcamps continue to flourish as an industry that will graduate over 16,000 students in 2015. Course Report found:

- In 2015, the bootcamp market will grow by 2.4x, to an estimated 16,056 graduates in 2015, up from 6,740 in 2014.
- As a point of comparison, we estimate that there were 48,700 undergraduate computer science graduates from accredited US universities in 2014.¹
- Our [2014 Market Sizing Study](#) projected the 2014 market size to be 5,987 graduates. Our 2015 study finds that the actual market size in 2014 was 6,740 graduates. Thus our 2014 report underestimated year-over-year growth by 11%.
- Average tuition price of qualifying courses is \$11,063, with an average program length of 10.8 weeks.
- We estimate that tuition revenue from qualifying US schools will be \$172M in 2015 (up from \$52M in 2014), excluding scholarships.
- Ruby is the most common teaching language, used in 35% of courses. Bootcamps will graduate 9,748 Ruby developers in 2015. While Ruby remains popular, JavaScript has gained popularity in the past year, now accounting for 21% of courses.

US Market Growth Rate

2014 graduates, self-reported	6,740
2015 graduates, self-reported	16,056
Estimated growth rate	138%

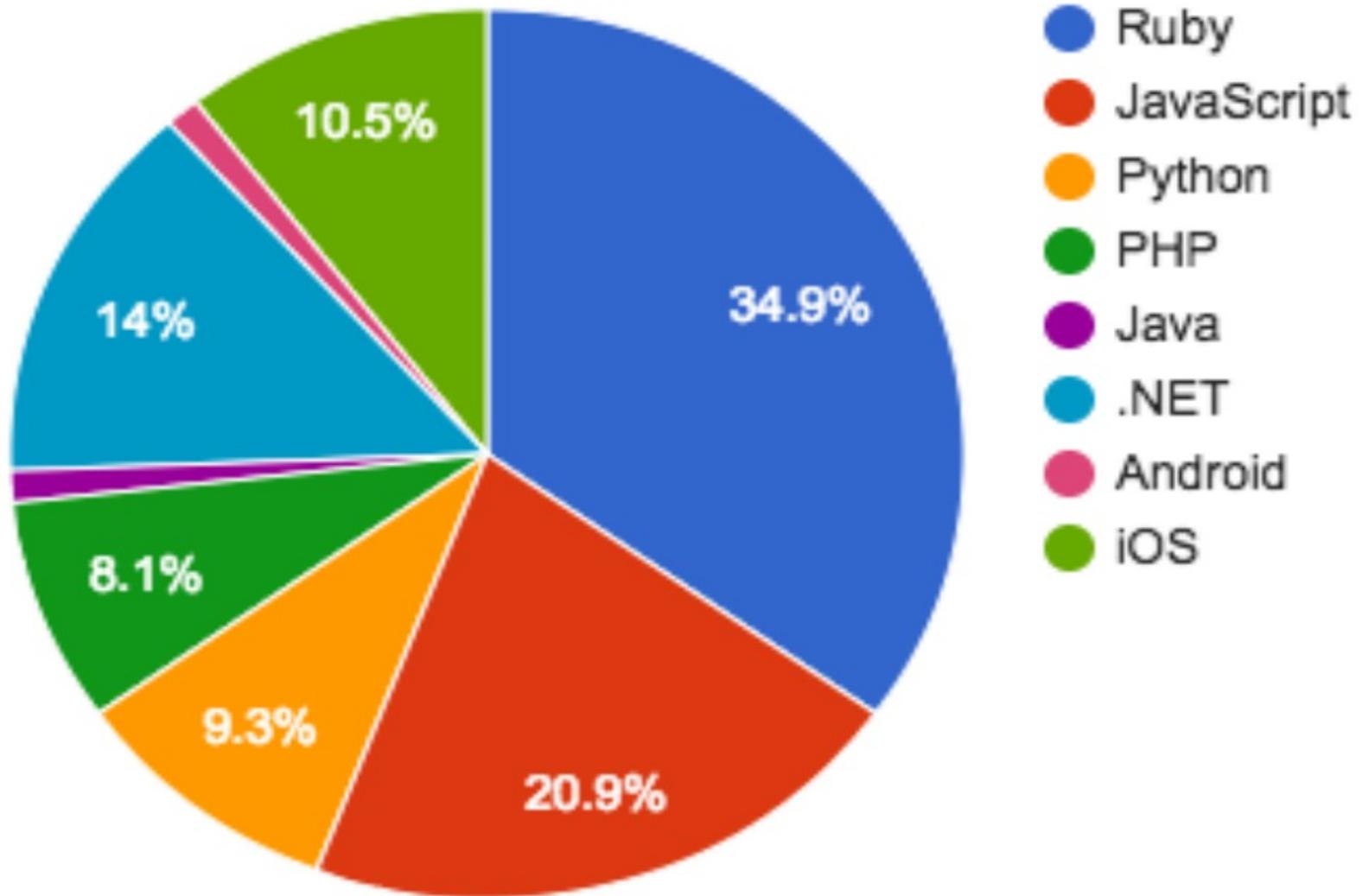
Tuition

- ranges from free to \$21,000
- average tuition of \$11,063
- courses range from 4 to 28 weeks
- most courses are in the 9-12 week range
- average of 10.8 weeks

Tuition Range

Tuition	%
Less than \$5,000	6.35%
\$5,000 - \$10,000	55.56%
Greater than \$10,000	38.10%

Top Teaching Language



US Cities with Most Bootcamps

city	# bootcamps
San Francisco	12
New York	9
Seattle	8
Portland	6
Chicago	6



Lesbians Who Tech Summit: THE HACKATHON

MAR. 1 - 2 // MOZILLA FOUNDATION // SAN FRANCISCO

ABOUT HOW IT WORKS SPONSORS & PARTNERS REGISTER PRESS



The Hackathon

The Lesbians Who Tech Hackathon follows the [Lesbians Who Tech Summit](#), and is the place for tech women to connect and work together.

Most hackathons are mostly male. The Lesbians Who Tech Hackathon is the first lesbian-focused

Conclusions

- all the “campers” got a job in the alliance companies!
- first feedback is yet to be seen