

HUJAKing

*Expansion of
Java Community*

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Aleksander Radovan

HUJAK

Hrvatska udruga Java korisnika
www.hujak.hr



Community Keynote **Warm-up**

- Why do real **Java programmers** wear glasses?
 - Because they don't C#. 😊





OK, what is **HUJAK**?

- Well ...

HUJAK is YOU!

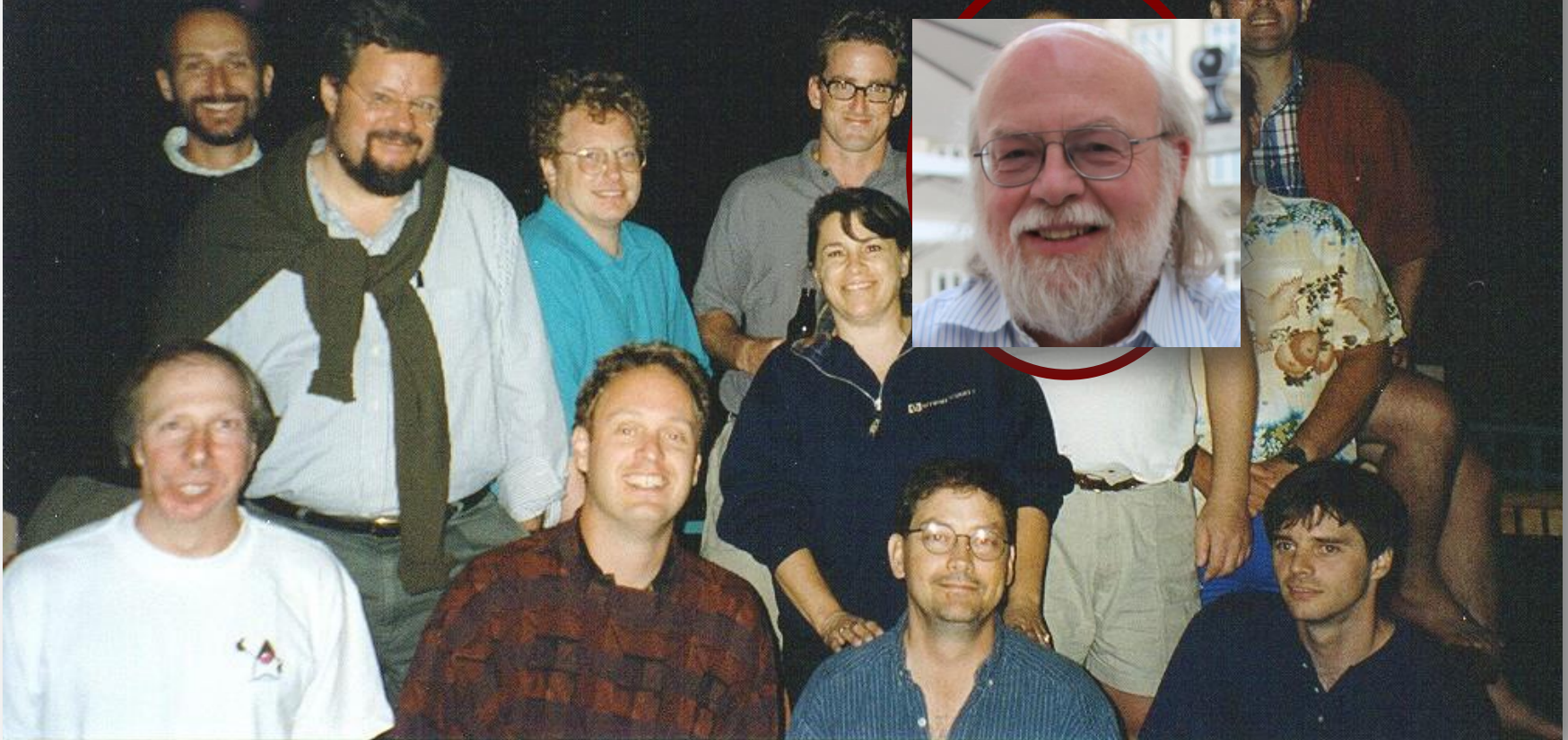
- By **YOU** we mean: **developers**, programmers, **architects**, team leaders, **IT managers**, project managers, **students**, educators, **entrepreneurs**, enthusiasts, **visionaries** ...
- **Thank YOU** all for coming to Java**Cro**'15!
- And **YOU** are the **reason** why we're all here 😊



How it has all started?

The Green Team (BBQ), 1997

Al Frazier, Joe Palrang, Mike Sheridan, Ed Frank, Don Jackson, Faye Baxter, Patrick Naughton, Chris Warth, James Gosling, Bob Weisblatt, David Lavallee and Jon Payne





Trees and telephones?

- What was **OAK**?
 - **Programming language** from 1991
 - developed at **Sun Microsystems** for the **Green project**
 - used mostly for **set-top boxes** and **smart appliances**
- What was **Star 7 (*7)**?
 - **PDA handheld device** from 1992
 - **SPARC** with flash RAM small **Unix** (<1MB)
 - **5" color touchscreen LCD**
 - on screen agent called **The Duke**
<http://www.youtube.com/watch?v=Ahg8OBYixL0>
 - wireless networking, multimedia codecs, remote control (TV) ...





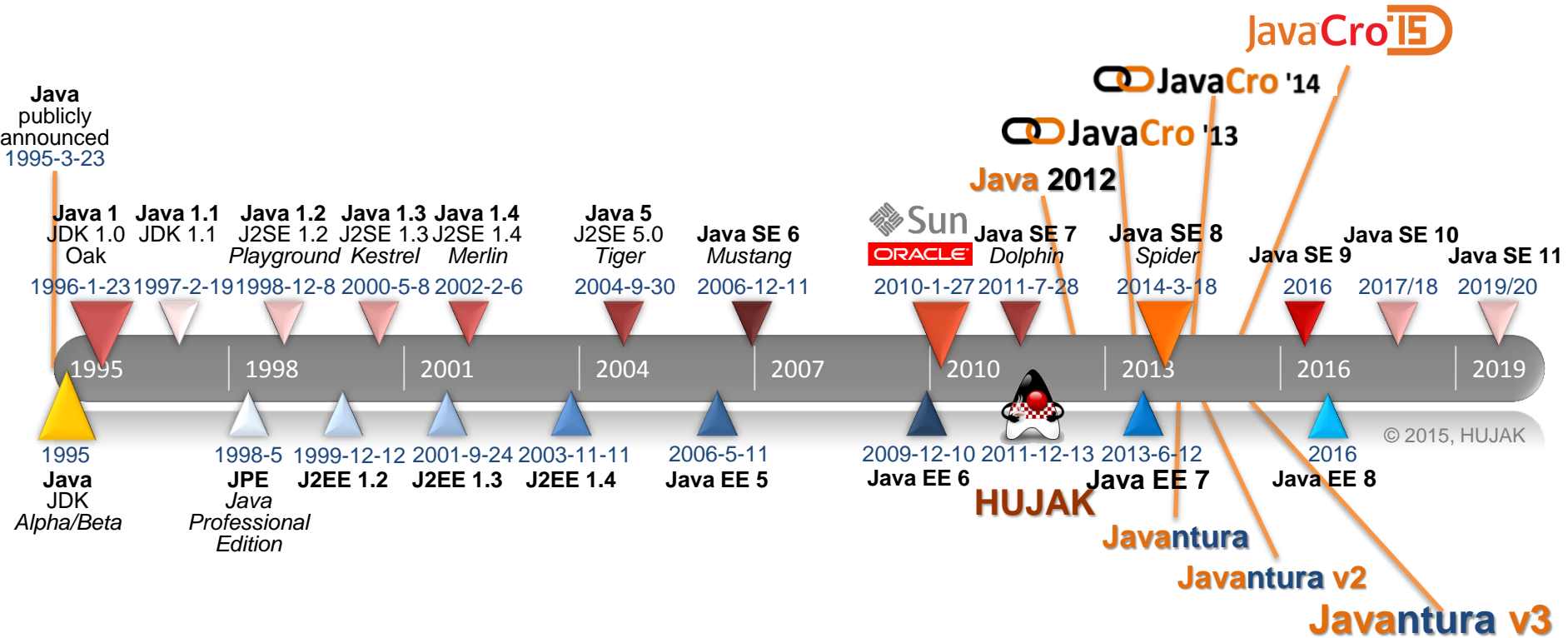
So, how old is Java?

- In **1991** began **Stealth Project**
 - **Green Team** formed on some brainstorming in Aspen
 - **Oak** interpreter
- In autumn **1994**
 - First **Java compiler** written in Java
 - **HotJava** graphical browser
- In **1995**
 - Oak was officially renamed **Java**
 - **Publicly announced** at SunWorld '95
 - **March 23rd, 2015**





Java Timeline (by HUJAK)

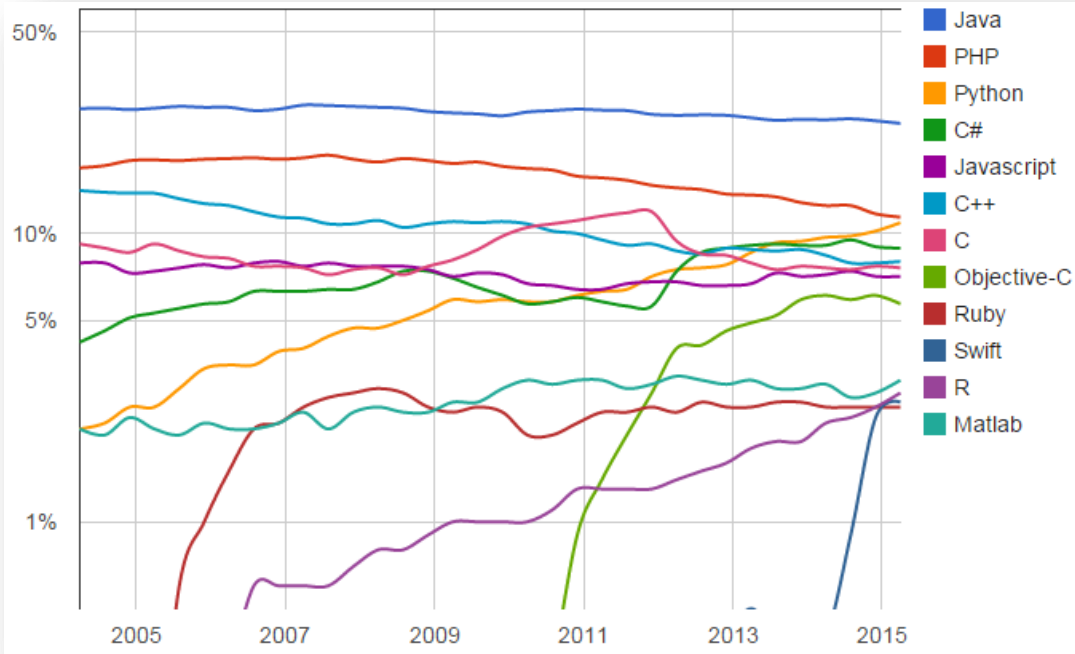


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Popularity of Java language

- **PYPL index** (PopularitY of Programming Language)
 - **May 2015**



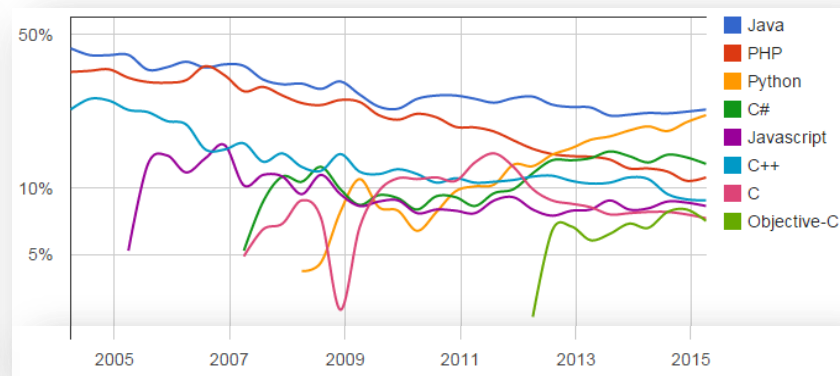
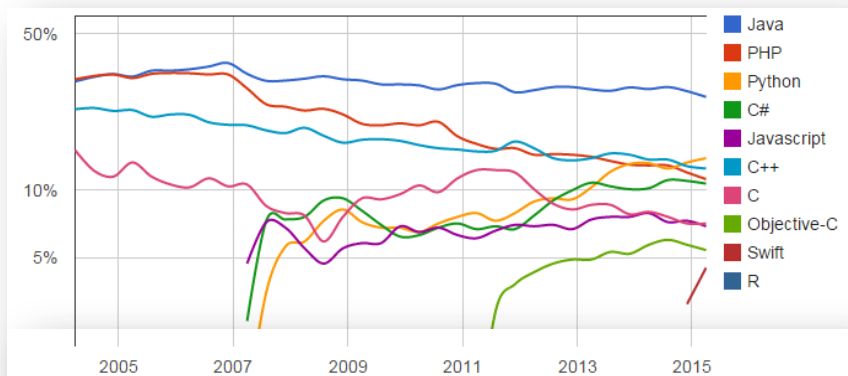
Rank	Language	Share	May 2014
1	Java	24.1 %	-0.9 %
2	PHP	11.4 %	-1.6 %
3	Python	10.9 %	+1.3 %
4	C#	8.9 %	-0.7 %
5	C++	8.0 %	-0.2 %
6	C	7.6 %	+0.2 %
7	JavaScript	7.1 %	-0.6 %
8	Objective-C	5.7 %	-0.2 %
9	Matlab	3.1 %	+0.1 %
10	R	2.8 %	+0.7 %
11	Swift	2.6 %	+2.9 %
12	Ruby	2.5 %	+0.0 %



Java Popularity in Europe

- PYPL **Germany** – May 2015

- PYPL **UK** – May 2015



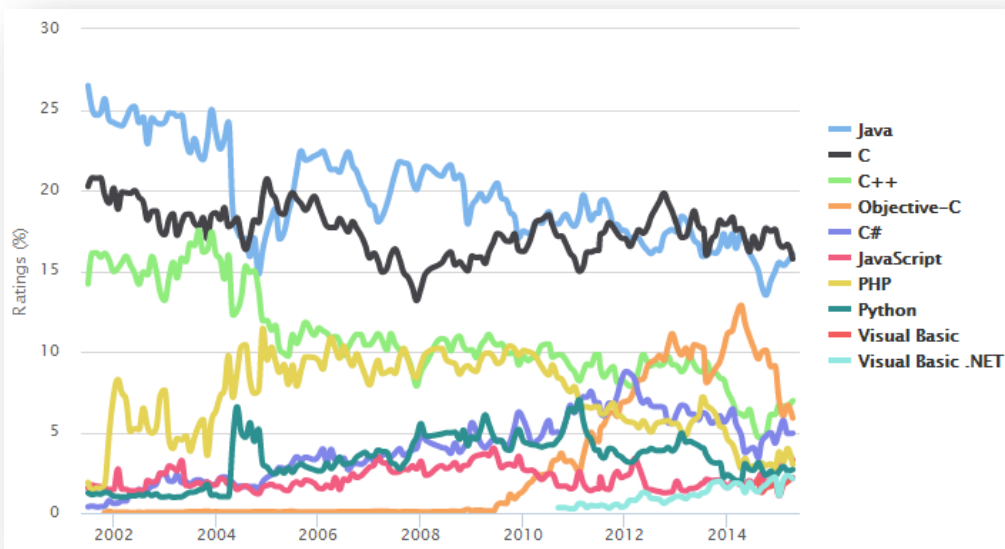
Rank	Language	Share	May 2014
1	Java	26.1 %	-3.3 %
2	Python	13.9 %	+1.1 %
3	C++	12.5 %	-1.3 %
4	PHP	11.2 %	-2.3 %
5	C#	10.7 %	+0.2 %
6	C	7.1 %	-1.3 %
7	JavaScript	6.9 %	-0.5 %
8	Objective-C	5.4 %	-0.6 %
9	Swift	4.5 %	+6.6 %
10	R	1.9 %	+1.5 %

Rank	Language	Share	May 2014
1	Java	22.8 %	+1.0 %
2	Python	21.5 %	+3.9 %
3	C#	12.9 %	-0.7 %
4	PHP	11.2 %	-2.0 %
5	C++	8.8 %	-1.8 %
6	JavaScript	8.3 %	-0.1 %
7	C	7.3 %	-0.5 %
8	Objective-C	7.1 %	+0.2 %



Popularity of Java language #2

- **TIOBE index** (still controversial?)
 - April 2015 Headline: **Java back at the top!**

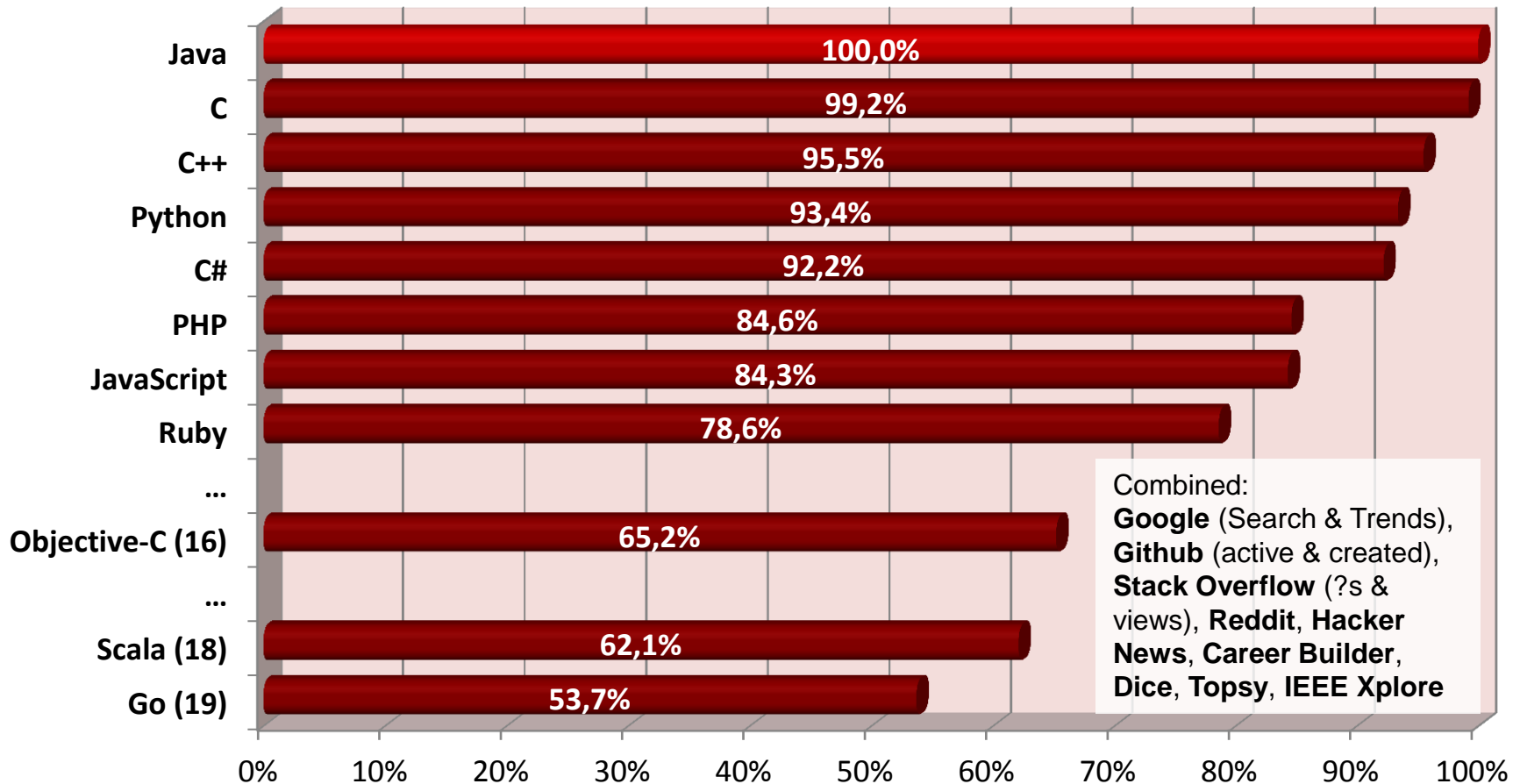


Rank	Language	Ratings	April 2014
1	Java	16.041%	-1.31%
2	C	15.745%	-1.89%
3	C++	6.962%	+0.83%
4	Objective-C	5.890%	-6.99%
5	C#	4.947%	+0.13%
6	JavaScript	3.297%	+1.55%
7	PHP	3.009%	+0.24%
8	Python	2.690%	+0.70%
9	Visual Basic	2.199%	+2.20%
10	Visual Basic .NET	2.126%	+0.38%



Top Languages by IEEE

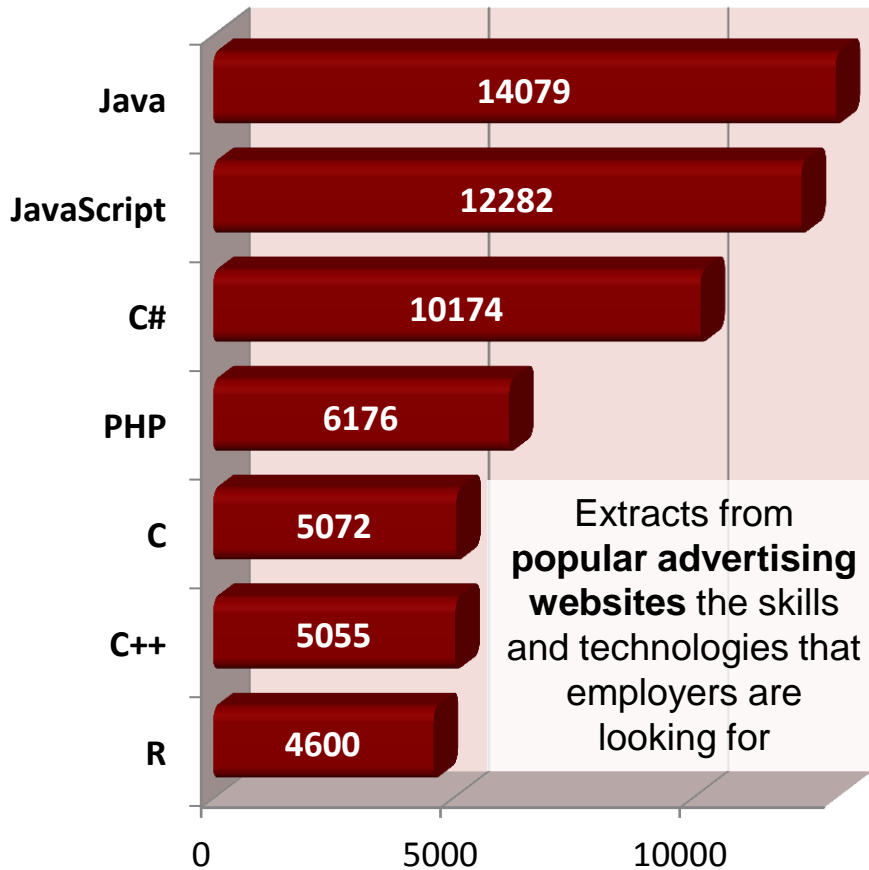
- **Top languages by IEEE Spectrum** (12 metrics, 10 sources)



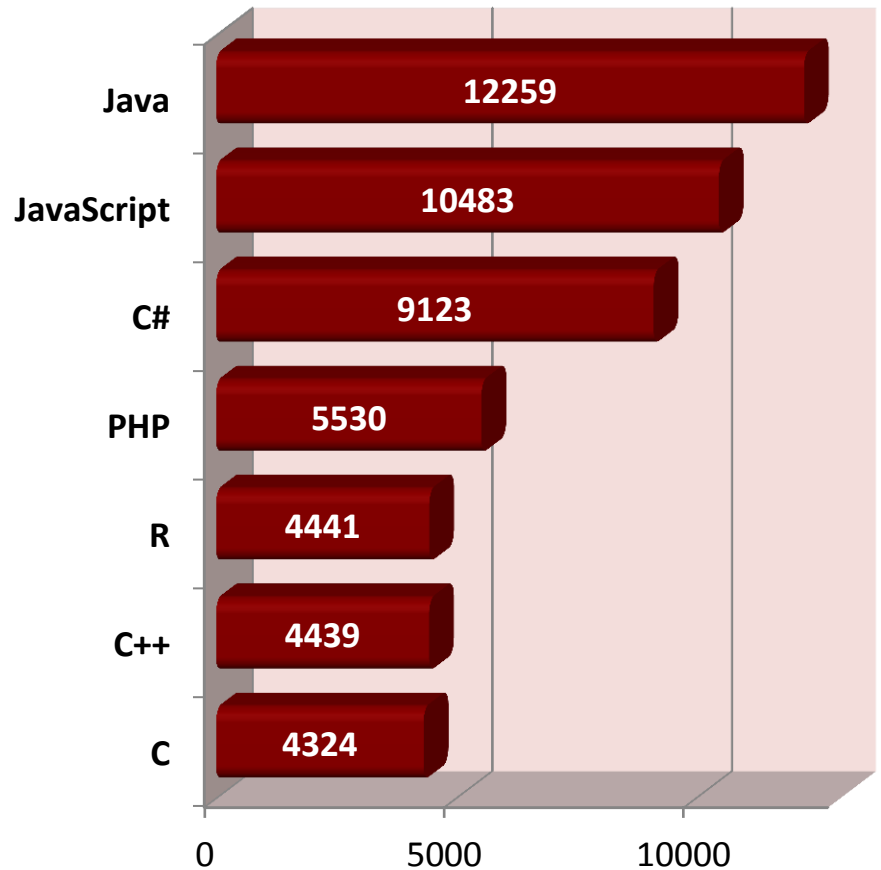


Top Languages by Trendy Skills

- **Top Languages in 2015**

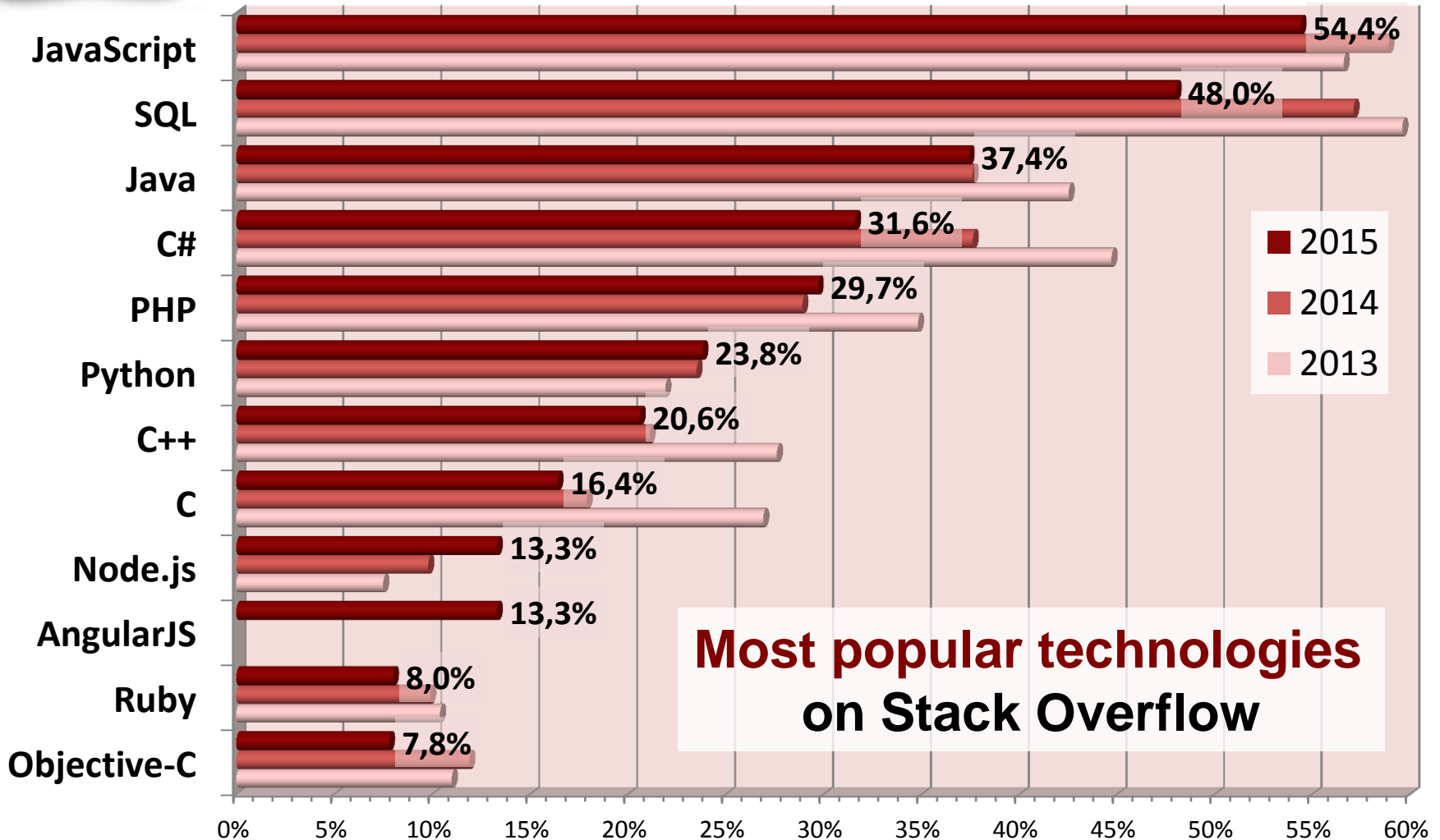


- **Top Languages in Europe**





Java at Stack Overflow

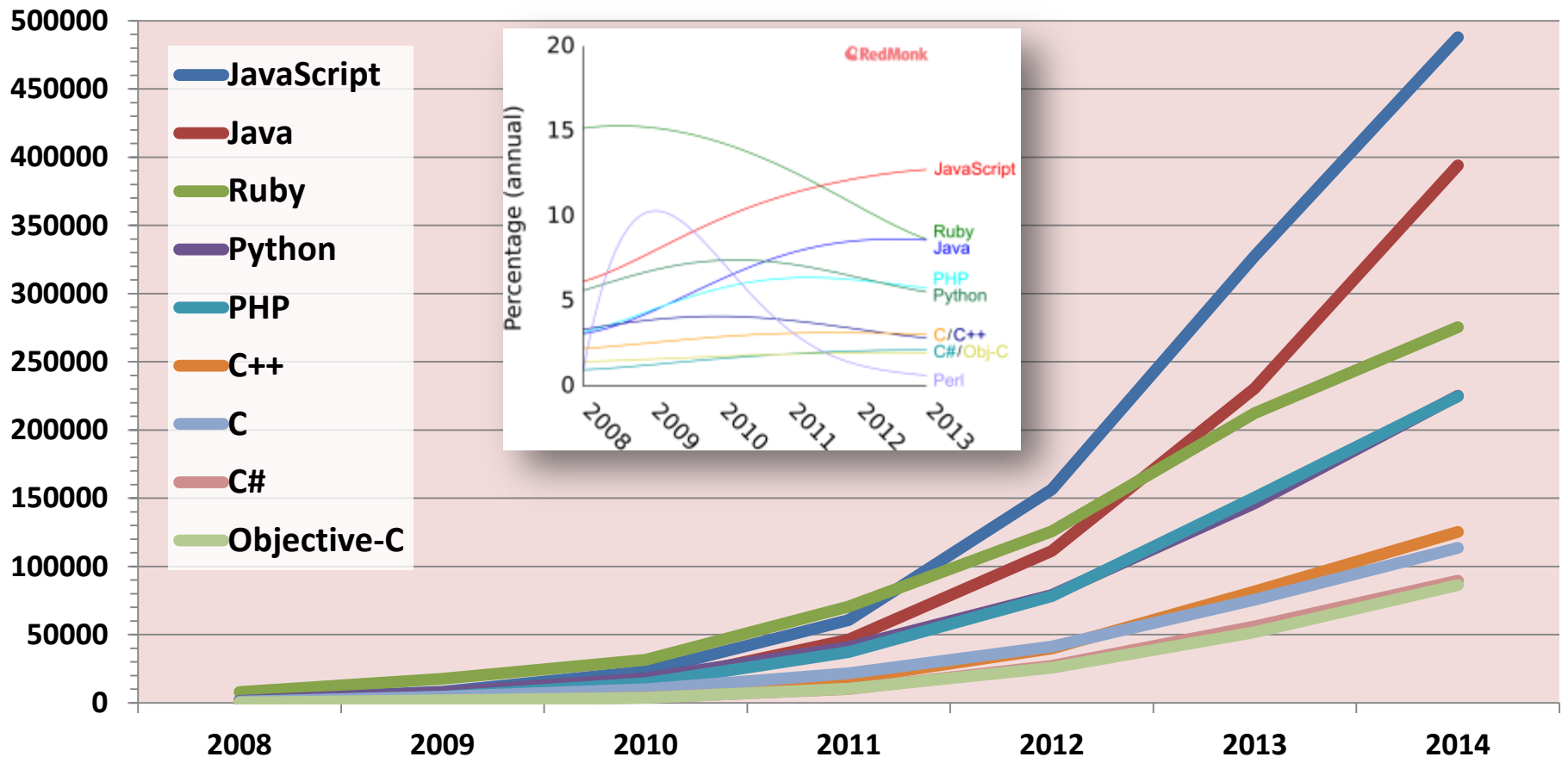


**Most popular technologies
on Stack Overflow**



Java at GitHub

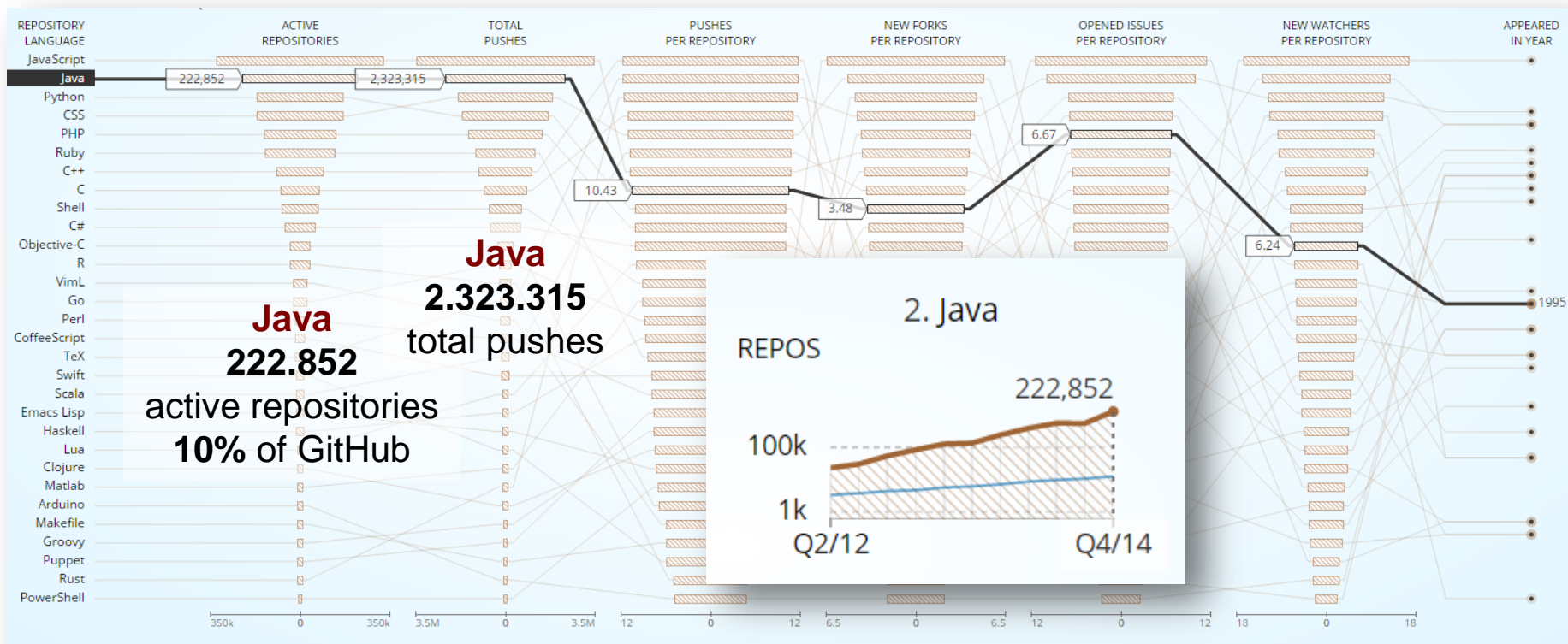
- **New repositories on GitHub**





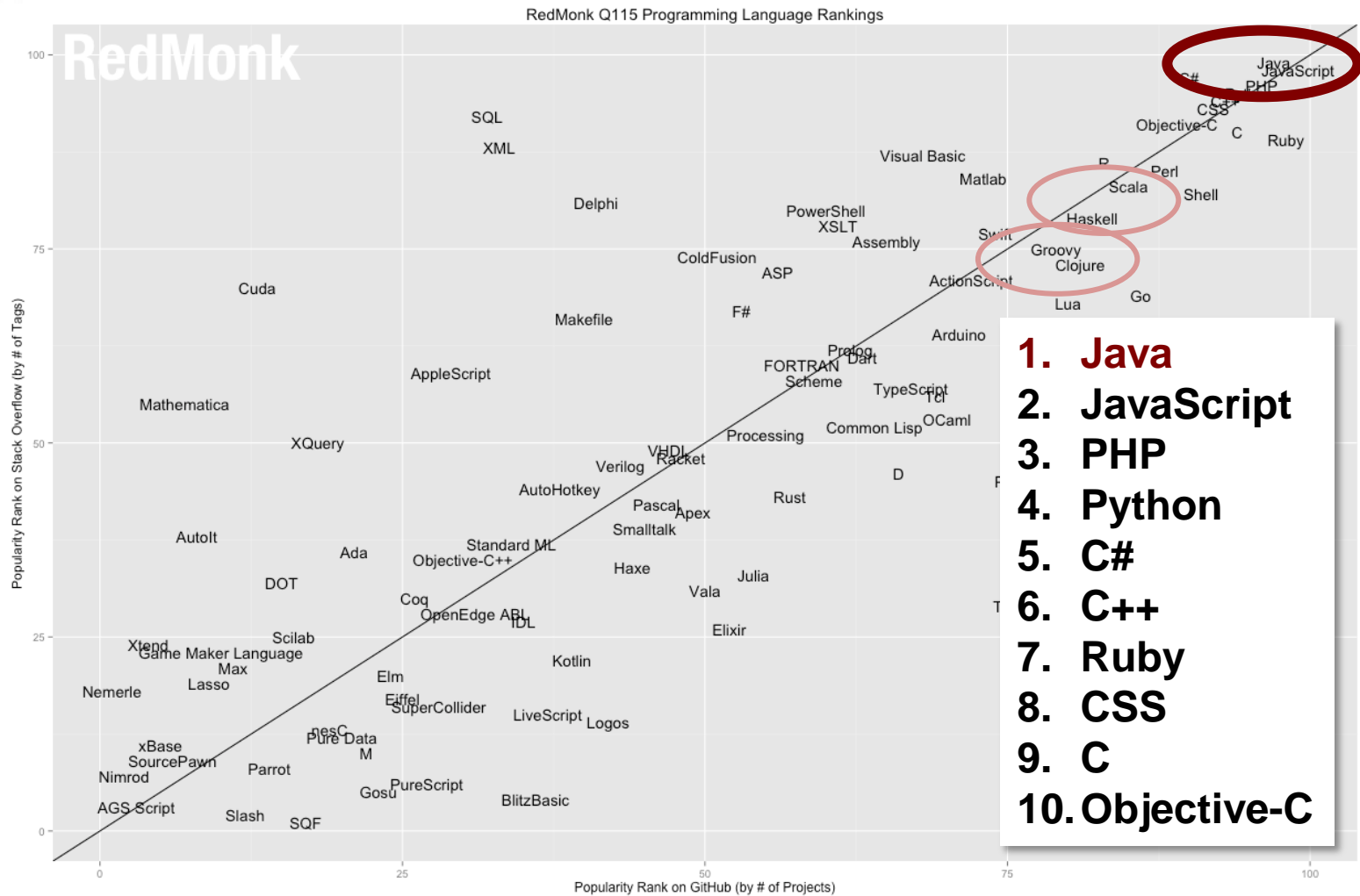
Java at GitHub

- **GitHut** – discovery of active languages in GitHut
 - Java is **2nd** out of **2.2M** active repositories





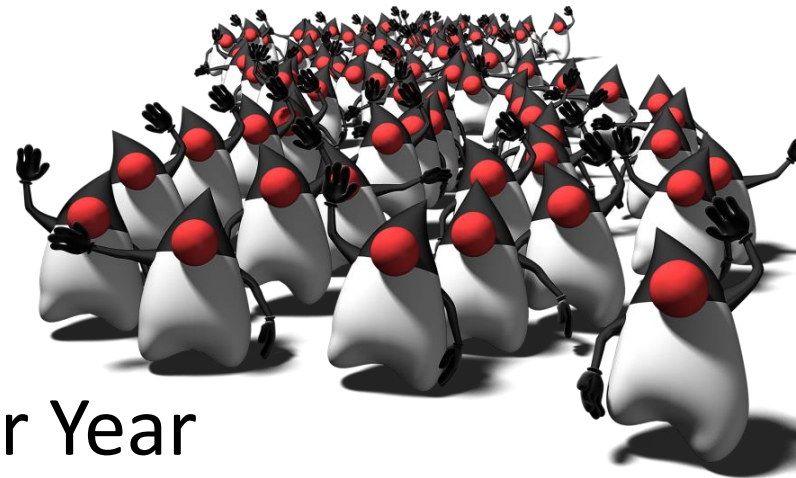
Java at GitHub/Stack Overflow





Java in Numbers

- **#1 Development Platform** in the world
- **9 Millions Developers**
 - **800.000 Java Certifications**
- **3 Billion devices** run Java
- **1 Billion Java Downloads** per Year
- **97% of Enterprise Desktops** run Java
- **100% of Blu-ray Disc Players** ship with Java
- **100% of JavaCro'15 visitors** know Java 😊





So, **where** is Java **now**?

Some **facts** for 2014/2015

- **Java SE**
 - **JDK 8** launched March 2014
 - **JDK 9** under construction
 - Releases **8u45** and **7u79/80** (last public) on April 14th, 2015
- **Java EE**
 - **11+** Java EE 7 compatible **app servers**
 - **Java EE 8 specification** (JSR 366) approved Sep 2014
- **Java Embedded**
 - **Java ME 8** release
 - Ports for **SoCs**
- **Community**
 - OpenJDK **Java SE 8 RI** released
 - **Java SE 9** project created
 - **New JUGs** in 2014 (+37%)
 - **New conferences**



Top reasons for using Java

- The **most popular** language (still)
- **Portable** and **open source**
- **Excellent** choice from **enterprise** applications to **small smart devices**
 - Also IoT, sensors, wearable, pervasive, ubiquitous computing
- The **enormous** ecosystem of **code, libraries and tools**
- Major **corporate and vendor backing**
- **Android!** 😊
- Java is not a language, Java is a **platform**
 - *Most people talk about Java the Language, and this may sound odd coming from me, but I could hardly care less.*
At the core of Java ecosystem is the JVM. James Gosling
 - **30+ JVM languages** (Clojure, Groovy, Scala, JRuby, Jython, ...)



Java 8 we know ☺



Innovation

- Lambda aka Closures
- Language Interop
- Nashorn



Java for Everyone

- Profiles for constrained devices
- JSR 310-Date & Time APIs
- Non-Gregorian calendars
- Unicode 6.1
- ResourceBundle
- BCP47 locale matching
- Globalization & Accessibility



Tools

- Compiler control & logging
- JSR 308-Annotations on Java Type
- Native app bundling
- App Store Bundling tools



Core Libraries

- Parallel operations for core collections APIs
- Improvements in functionality
- Improved type inference



General Goodness

- JVM enhancements
- No PermGen limitations
- Performance improvements



Security

- Limited doPrivilege
- NSA Suite B algorithm support
- SNI Server Side support
- DSA updated to FIPS186-3
- AEAD JSSE CipherSuites



Client

- Deployment enhancements
- JavaFX 8
- Public UI Control API
- Java SE Embedded support
- Enhanced HTML5 support
- 3D shapes and attributes
- Printing



Enterprise

- Mission Control
- Flight Recorder
- Usage Tracker
- Advanced Management Console
- MSI Enterprise JRE Installer

- **Lambdas** – modernizing Java Language, **biggest upgrade ever** to the Java programming model



Java EE 7 we know ☺



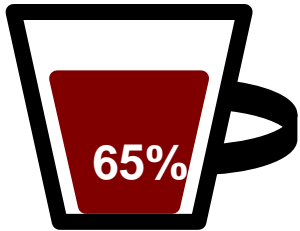
But **what** is really **there**???

- Annotated POJOs, less boilerplate code, integrated, tools
- Multithreaded, asynchronous APIs, concurrency utilities
- HTML5-readyness, JSON, WebSockets, JAX-RS
- JMS, Batch processing, distributed transactions



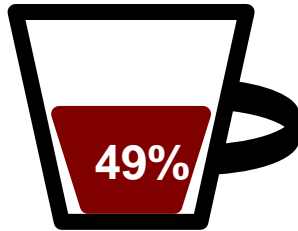
What we used **mostly** (in 2014)?

Java SE 7



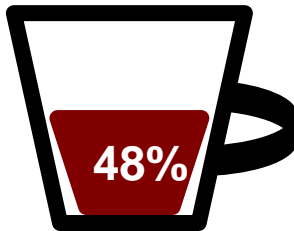
SE version

Java EE 6



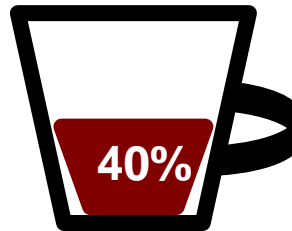
EE version

Eclipse



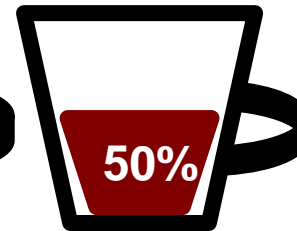
IDE

Spring MVC



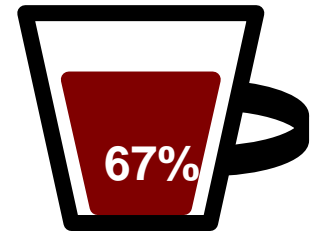
Web fw

Tomcat



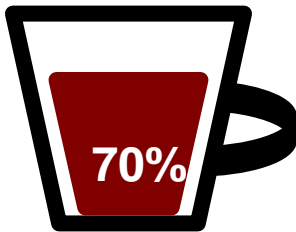
App server

Hibernate



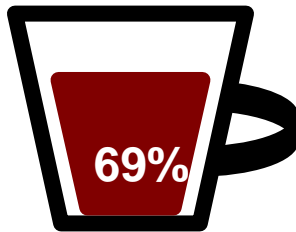
ORM

Jenkins



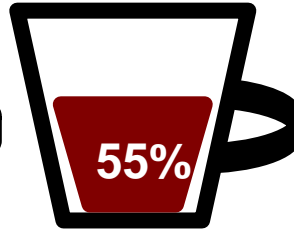
CI

Git



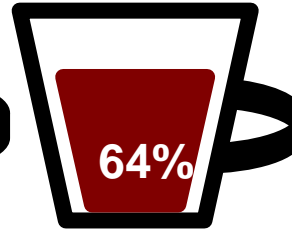
VCS

FindBugs



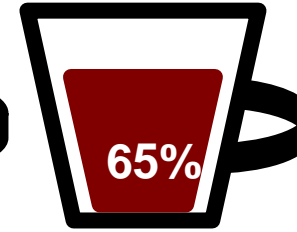
CA

Maven



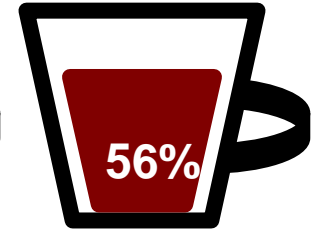
Build

MySQL

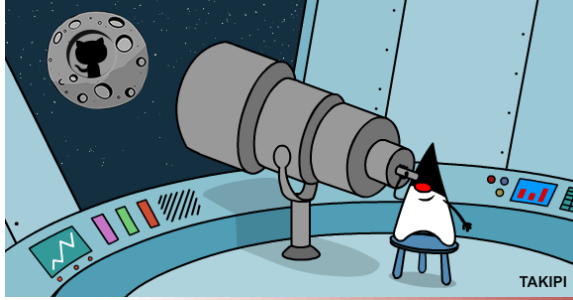


SQL DB

MongoDB

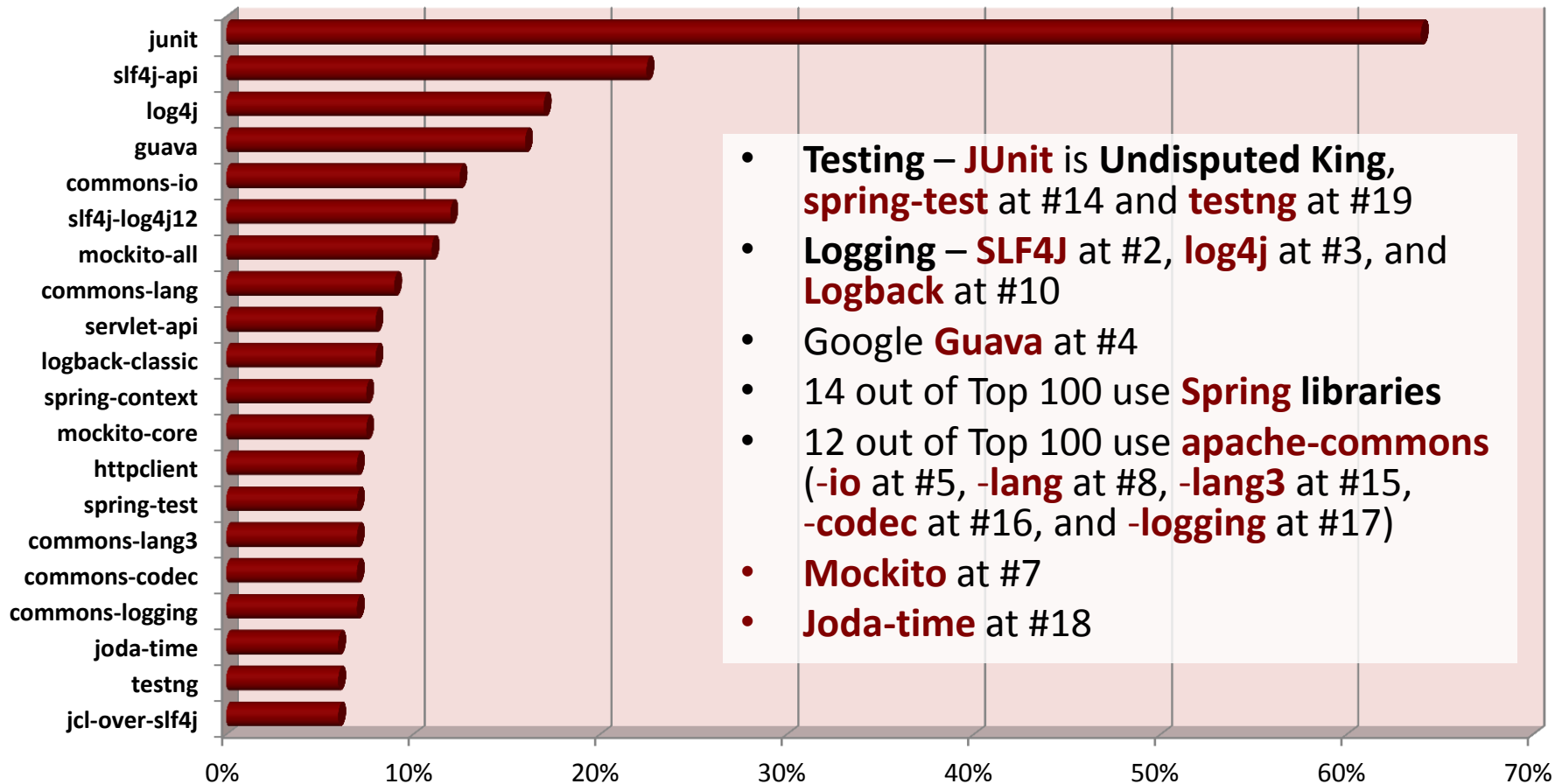


NoSQL DB



Java libs on Github

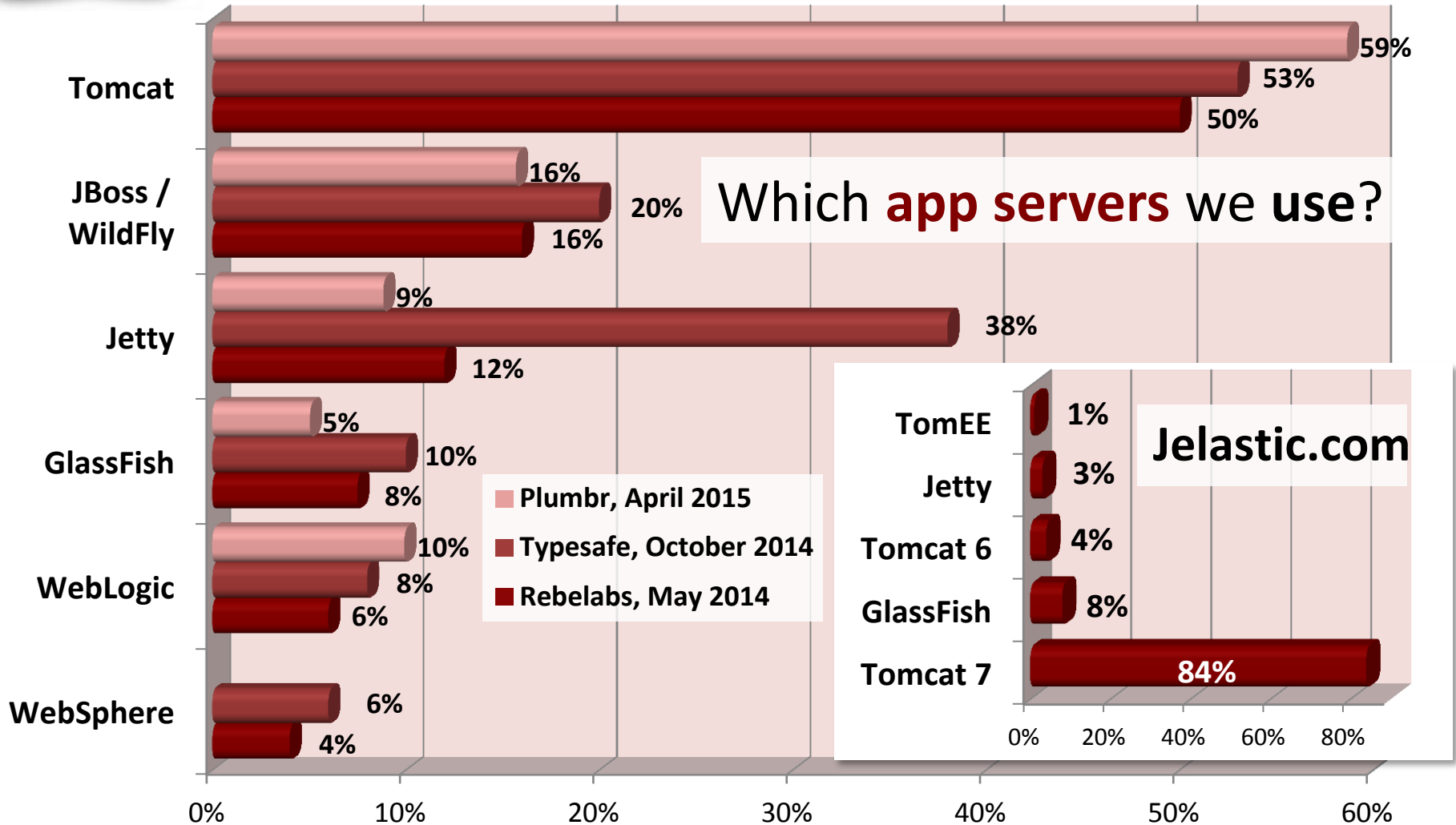
• Top 20 libraries by most popular Java projects



- Testing – **JUnit** is Undisputed King, **spring-test** at #14 and **testng** at #19
- Logging – **SLF4J** at #2, **log4j** at #3, and **Logback** at #10
- Google **Guava** at #4
- 14 out of Top 100 use **Spring** libraries
- 12 out of Top 100 use **apache-commons** (-io at #5, -lang at #8, -lang3 at #15, -codec at #16, and -logging at #17)
- **Mockito** at #7
- **Joda-time** at #18



Top Application Servers





Java (and tea) intake

- Caffeinated beverages average per day: **2.2**



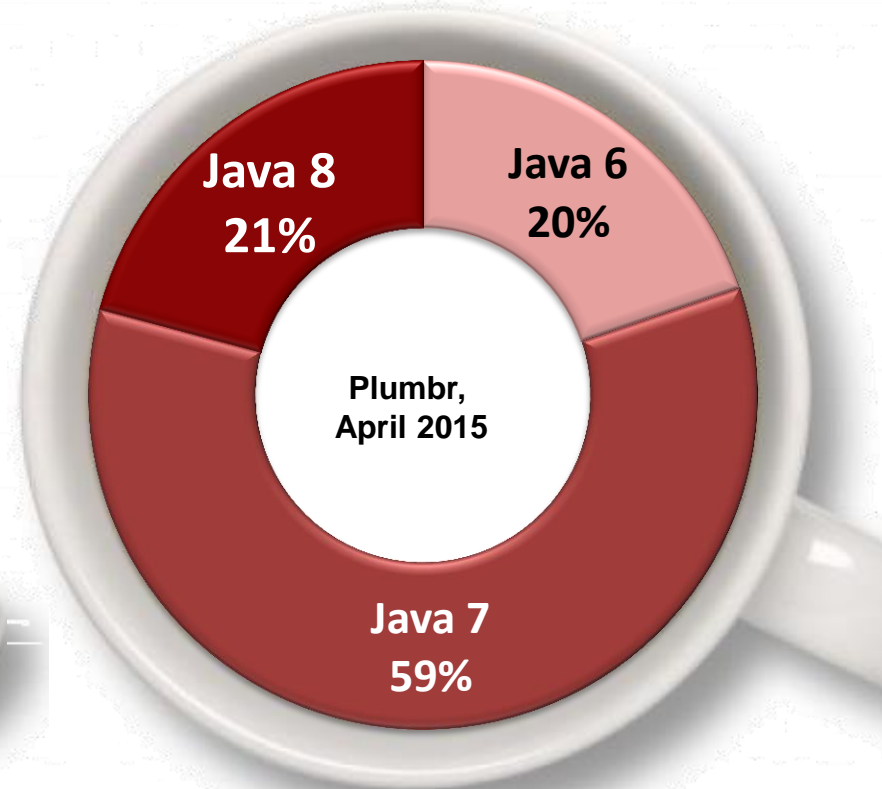
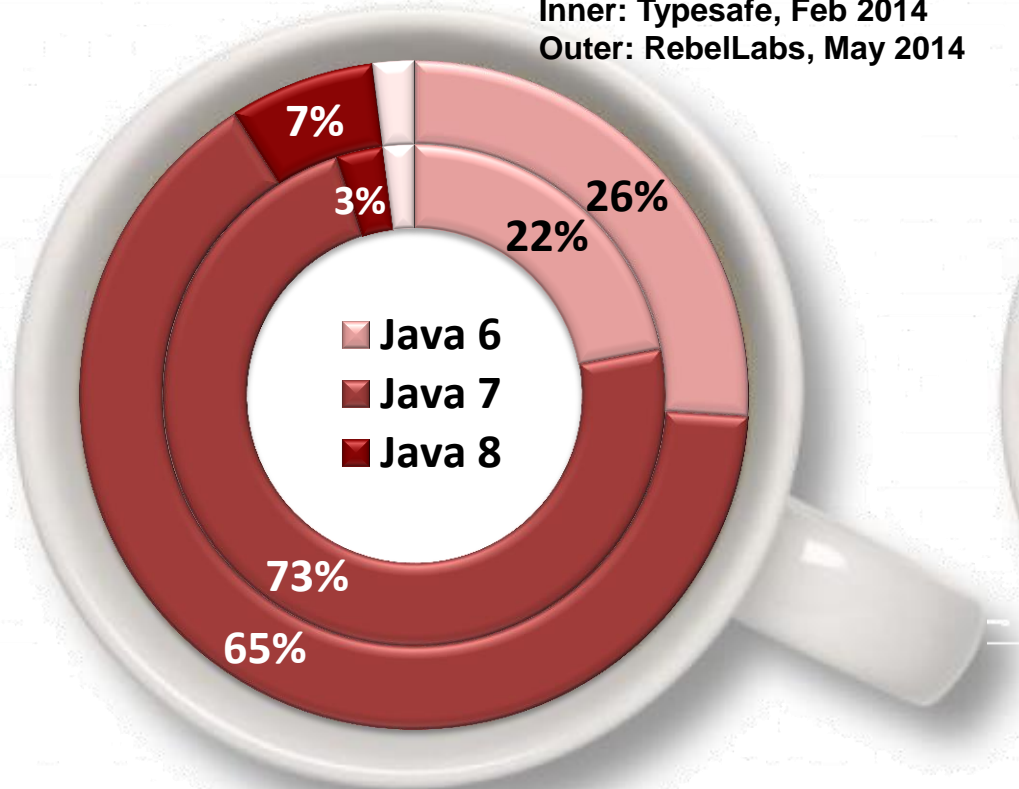
Country	Caffeinated beverages per day (avg.)
 Norway	3.09
 Netherlands	3.04
 Sweden	2.94
 Finland	2.76
 Iran	2.74
 Denmark	2.70
 South Africa	2.59
 United Kingdom	2.54
 Turkey	2.50
 Germany	2.44



Java versions 2014 vs. 2015

- Which Java platform are you using (in **2014**)?
- Which Java platform are you using (in **2015**)?

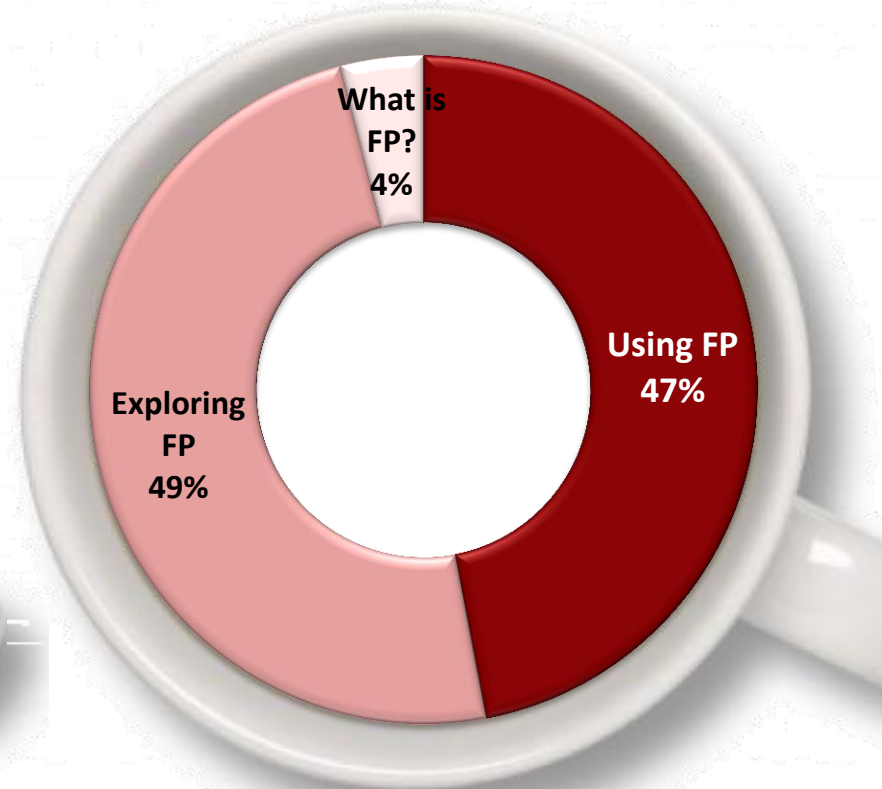
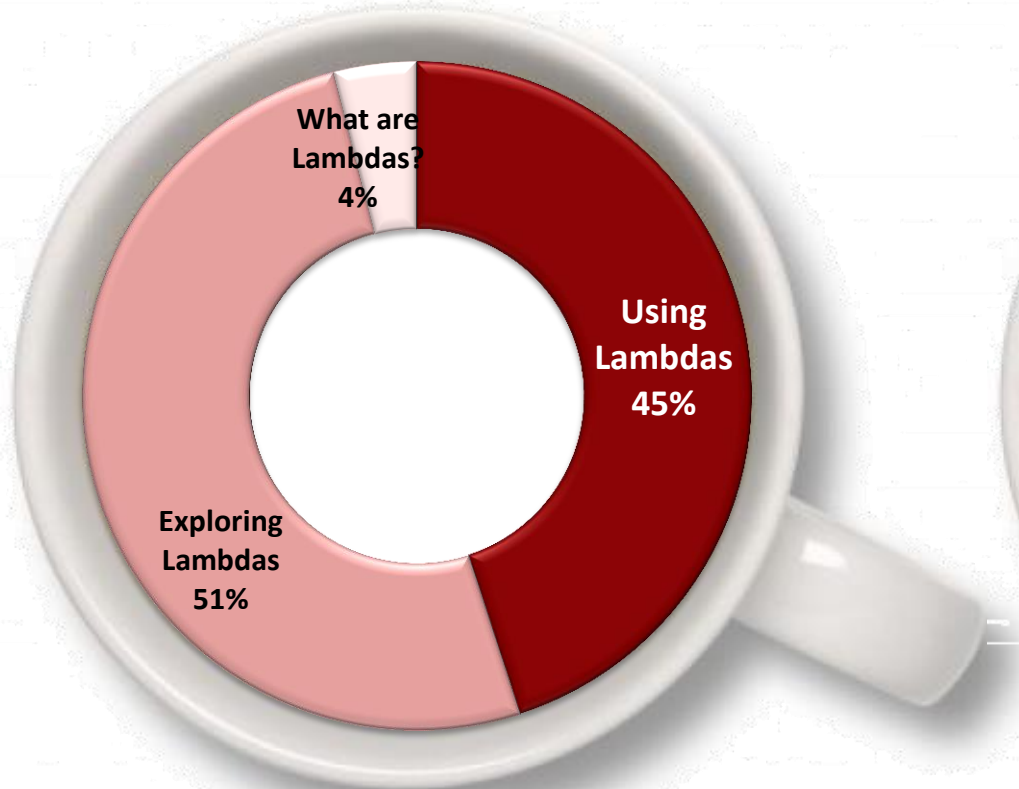
Inner: Typesafe, Feb 2014
Outer: RebelLabs, May 2014





Java 8 – Lambdas and FP?

- Do you use **Lambdas**?
After trying Lambdas more interested?
68% Yes
- Interested in **Functional Programming**?





So, how to **learn** Java 8?

- Any **books** about **Java 8**? 😊



- **Java 8 MOOC** courses coming ...



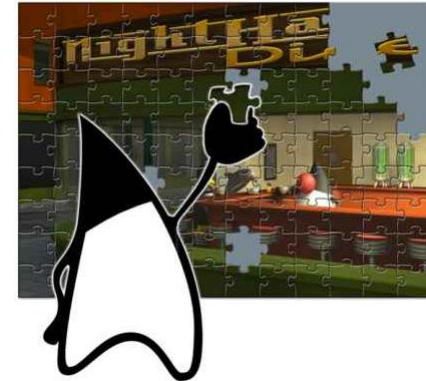
Java 9 and Beyond

- **Modularity**

- **Performance** – ahead of time compilation (startup speed), fast class lookup, (optional) jlink tool (linker with optimization), ...
- **Security** – internal APIs (sun.*, *.internal.*), jdeps tool (class dependency analyzer), ...

- Project **Jigsaw** – Java Module System

- JEP 200: **The Modular JDK** – "umbrella"
- JEP 201: **Modular Source Code**
- JEP 220: **Modular Run-Time Images** – Java runtimes
- JEP TBD / JSR 376: Java Platform **Module System**



- Project **Valhalla**

- Value Types, Specialized Generics, Var Handles

- Project **Panama**

- Foreign Function Interface, Data Layout Control, Arrays 2.0



JDK 9 – proposed schedule

- **Proposed schedule** for JDK 9
 - 2015-12-10 **Feature Complete**
 - 2016-02-04 **All Tests Run**
 - 2016-02-25 **Rampdown Start**
 - 2016-04-21 **Zero Bug Bounce**
 - 2016-06-16 **Rampdown Phase 2**
 - 2016-07-21 **Final Release Candidate**
 - 2016-09-22 **General Availability**

- Schedule should be accepted **today** 😊
 - May 12, 2015 23:00 UTC

Proposed schedule for JDK 9

mark.reinhold at oracle.com mark.reinhold at oracle.com
Tue May 5 16:21:31 UTC 2015

- Previous message: [jdk9-dev: HotSpot](#)
- Messages sorted by: [\[date\]](#) [\[thread\]](#) [\[subject\]](#) [\[author\]](#)

Here is a proposed schedule for JDK 9:

2015-12-10	Feature Complete
2016-02-04	All Tests Run
2016-02-25	Rampdown Start
2016-04-21	Zero Bug Bounce
2016-06-16	Rampdown Phase 2
2016-07-21	Final Release Candidate
2016-09-22	General Availability

**Exclusive
news!** 😊

The dates here are meant to leave sufficient time for broad review and testing of the significant features of the release, in particular the introduction of a module system and the modularization of the platform, while maintaining the cadence of shipping a major release about every two years.

The milestone definitions are the same as those for JDK 8 [1].

Comments from JDK 9 Committers are welcome, as are reasoned objections. If no such objections are raised by 23:00 UTC next Tuesday, 12 May, or if they're raised and then satisfactorily answered, then per the JEP 2.0 process proposal [2] this will be adopted as the schedule for JDK 9.

(This information is also available on the JDK 9 Project Page [3]).

- Mark



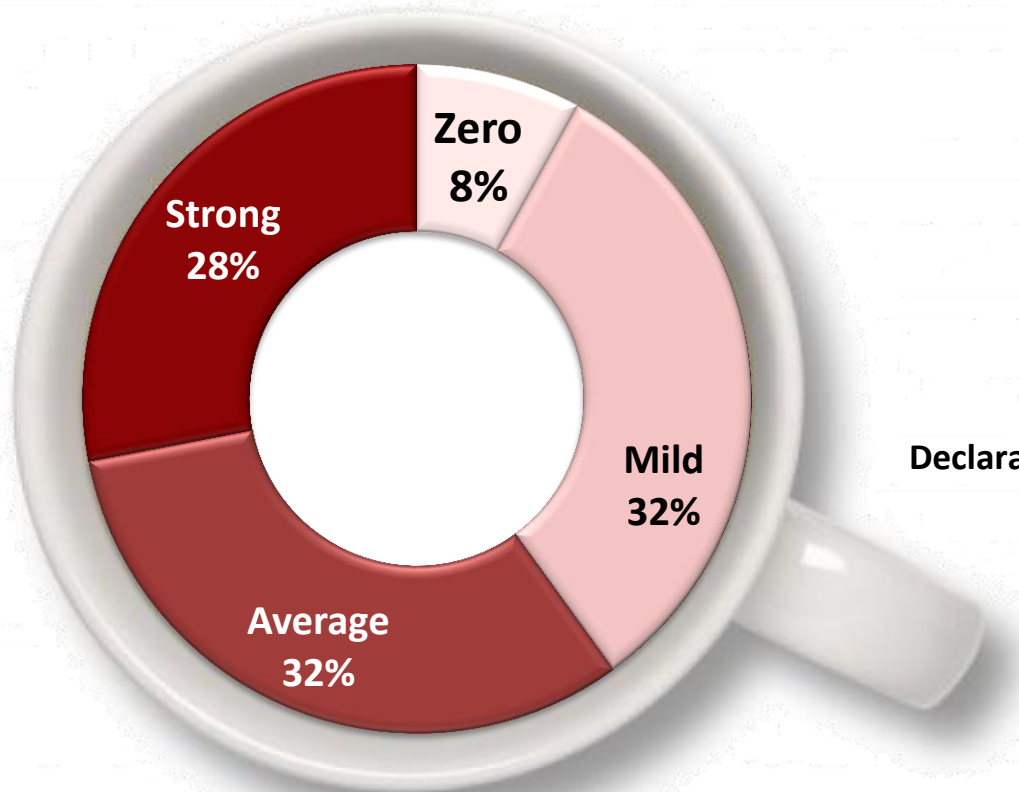
JDK 9 – what's in it?

- 102: Process API Updates
- 110: HTTP 2 Client
- 143: Improve Contended Locking
- 158: Unified JVM Logging
- 165: Compiler Control
- 197: Segmented Code Cache
- 199: Smart Java Compilation, Phase Two
- 201: Modular Source Code
- 211: Elide Deprecation Warnings on Import Statements
- 212: Resolve Lint and Doclint Warnings
- 213: Milling Project Coin
- 214: Remove GC Combinations Deprecated in JDK 8
- 215: Tiered Attribution for javac
- 216: Process Import Statements Correctly
- 217: Annotations Pipeline 2.0
- 219: Datagram Transport Layer Security (DTLS)
- 220: Modular Run-Time Images
- 221: Simplified Doclet API
- 223: New Version-String Scheme
- 224: HTML5 Javadoc
- 226: UTF-8 Property Files
- 227: Unicode 7.0
- 228: Add More Diagnostic Commands
- 229: Create PKCS12 Keystores by Default
- 230: Microbenchmark Suite
- 231: Remove Launch-Time JRE Version Selection
- 232: Improve Secure Application Performance
- 235: Test Class-File Attributes Generated by javac
- 236: Parser API for Nashorn
- 237: Linux/AArch64 Port
- 240: Remove the JVM TI hprof Agent
- 241: Remove the jhat Tool
- 243: Java-Level JVM Compiler Interface
- 245: Validate JVM Command-Line Flag Arguments

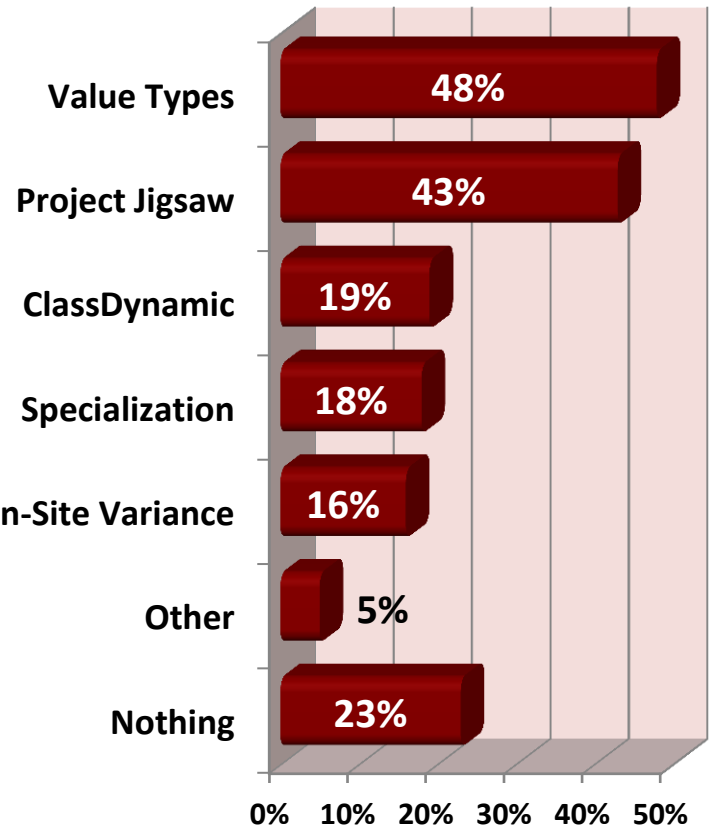


Java 9 – interest & features

- Interest in **Java 9**?



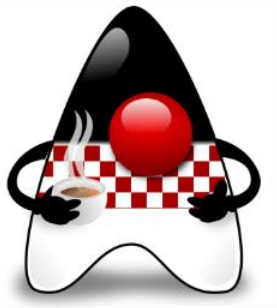
- Which **Java 9 features**?





Java Versions End

- Oracle Java SE Support Roadmap
 - www.oracle.com/technetwork/java/eol-135779.html
- Java SE 7
 - End of Public Updates **April 2015**
 - CPU (Critical Patch Update)
 - www.oracle.com/technetwork/topics/security/alerts-086861.html
 - Last public releases **7u79** (java.com) and **7u80** (OTN)
- Java SE 8
 - End of Public Updates **March 2017**



What about the **job market** ...

... or what about **our future**?



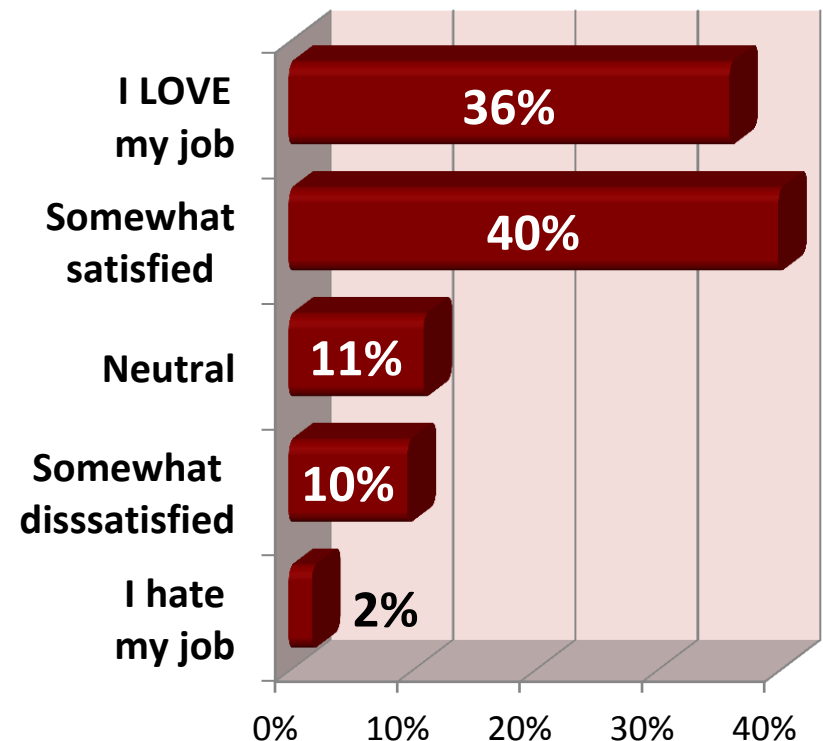
Job Satisfaction

- **Best jobs** are in **STEM**
 - Science, Technology, Engineering, Mathematics

- **Analysis** by  **careerbliss**[®]
 - 2011-2014, 25.000+ anonymous employee reviews




- **Top Happiest Jobs** for the Class of 2014
 1. **Java developer**
 2. Embedded software engineer
 3. .NET developer

- How **satisfied** are you with your **current job**?







Java jobs – today

- In **total**, search term "Java"
- **86.000+** Java jobs on  **indeed**
one search. all jobs.
 - Seniors 27.000+, Architects 12.000+
 - NY 6.000+, SF 3.700+, Seattle 3.000+
 - Amazon 2.000+, TEKSystems 1.500+, CyberCoders 1.200+
- **158.000+** Java jobs on  **SimplyHired**
 - Seniors 55.000+
 - NY 16.000+, SF 15.000+
 - Oracle 12.000+, Walmart 2.100+, CyberCoders 2.000+
- **18500+** Java jobs in NY on  **glassdoor**TM
 - SF 12.800+



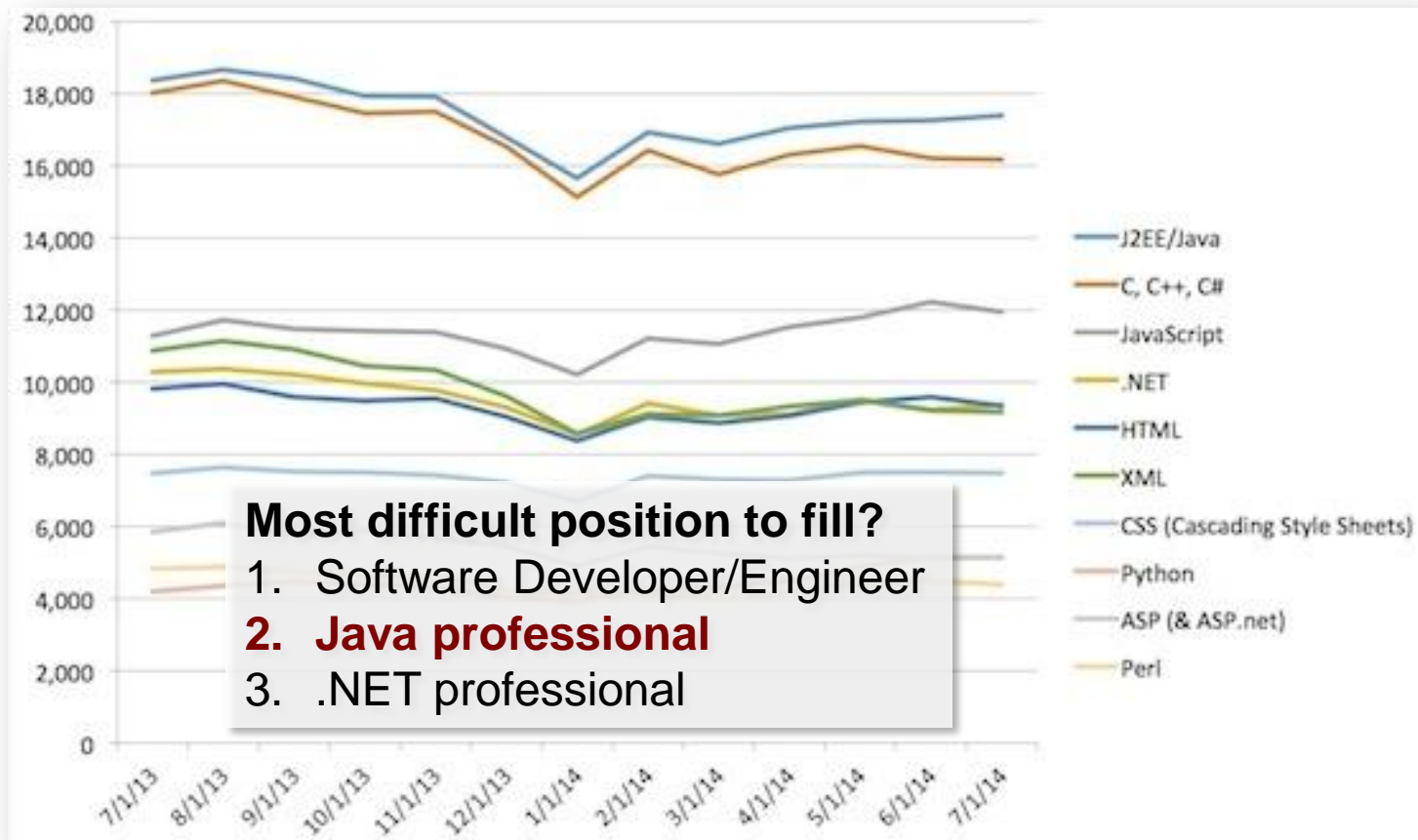
Java jobs – today #2

- In the **last month**, search term "Java"
- **16.700+** Java jobs on 
 - Seniors 5.500+, Architects 2.000+
 - NY 2.000+, SF 1.000+
 - CyberCoders 1.000+, Northtrop Gruman 370+
- **7.700+** Java jobs on 
 - Seniors 1.800+, Architects 1.000+, Juniors 1.200+
 - NY 250+, CH 250+, SF 210+
 - CyberCoders 770+, Robert Half Tech. 370+



Java jobs at Dice.com

- Number of jobs post request by skill per month





Analysis & average salaries

Average Salary



World
(for NY)



USA
(for NY)



USA
(for NY)

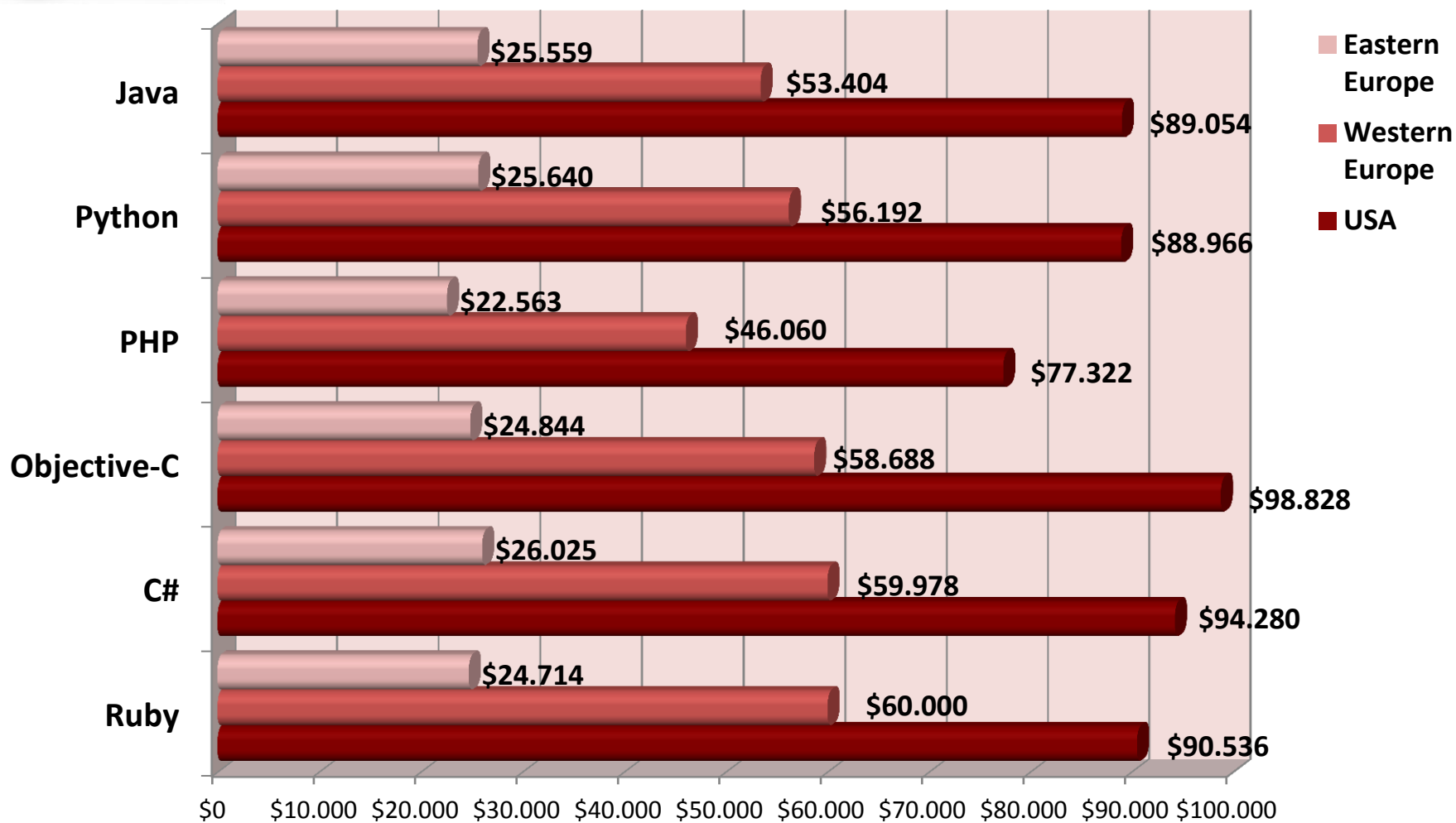


USA
(for NY)

Java Developer	\$102.000 (\$121.000)	\$79.000	\$74.500 (\$81.000)	\$114.000 (\$130.000)	\$70.000 (\$85.000)
Junior Java Developer		\$73.000	\$61.000	\$103.000 (\$93.000)	
Senior Java Developer	\$110.000	\$84.000	\$99.000 (\$113.000)	\$123.000 (\$136.000)	\$96.500 (\$106.500)
Java Architect	\$123.000	\$89.000	\$100.000	\$134.000 (\$149.000)	\$117.000 (\$119.000)



Average salaries by region



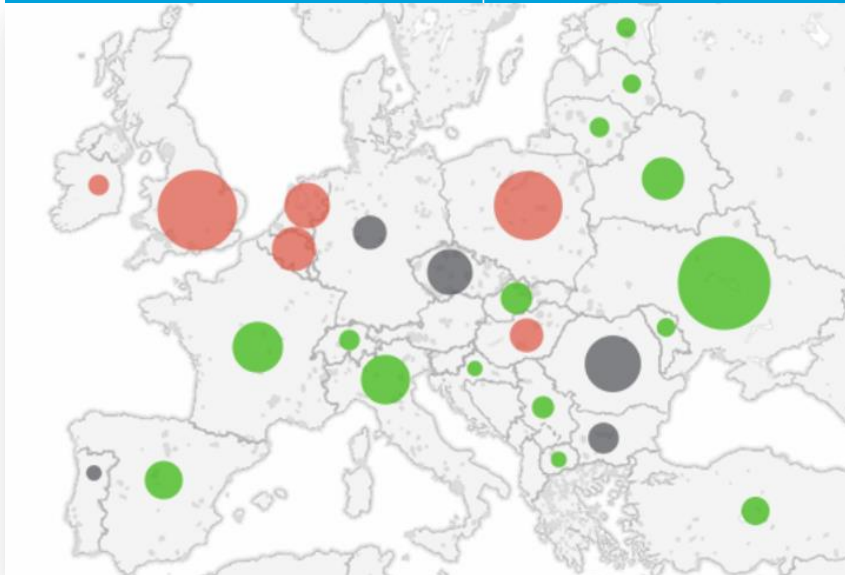


Java Developers in Europe

- LinkedIn **Talent Pool**
 - **12600+** Java professionals

LinkedIn Talent Solutions
Talent Pool Report

Java Developers
Europe (October 2014)

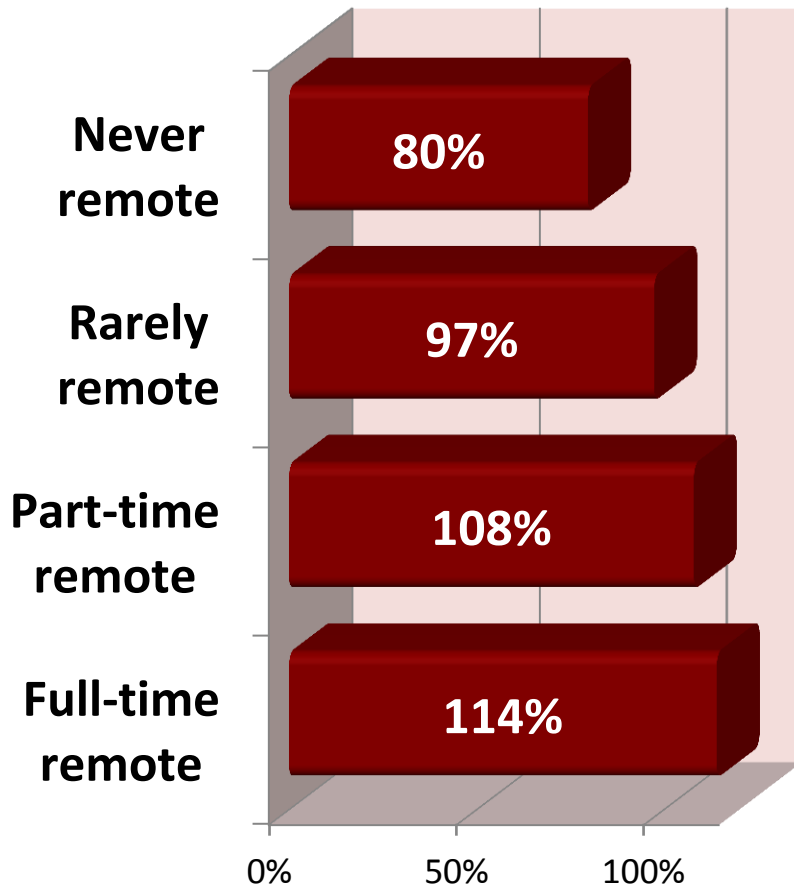


Country	#	Competition
Ukraine	2000+	Low
UK	1500+	High
Russian Fed.	1100'	Low
Poland	1100'	High
Romania	<1000	Moderate
France	<1000	Low
Italy	<1000	Low
Netherlands	<1000	High
Israel	<1000	Low
Czech Rep.	<1000	Moderate
Belgium	<1000	High
Belarus	<1000	Low

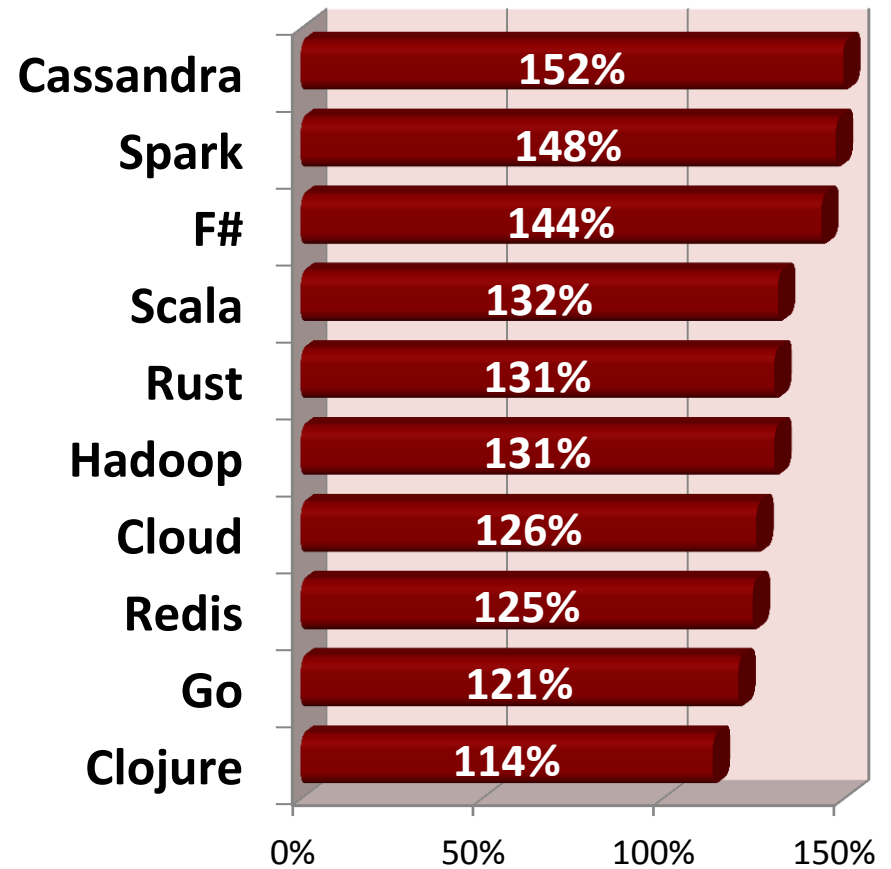


How to get **more** \$\$\$?

- **Remote** status?



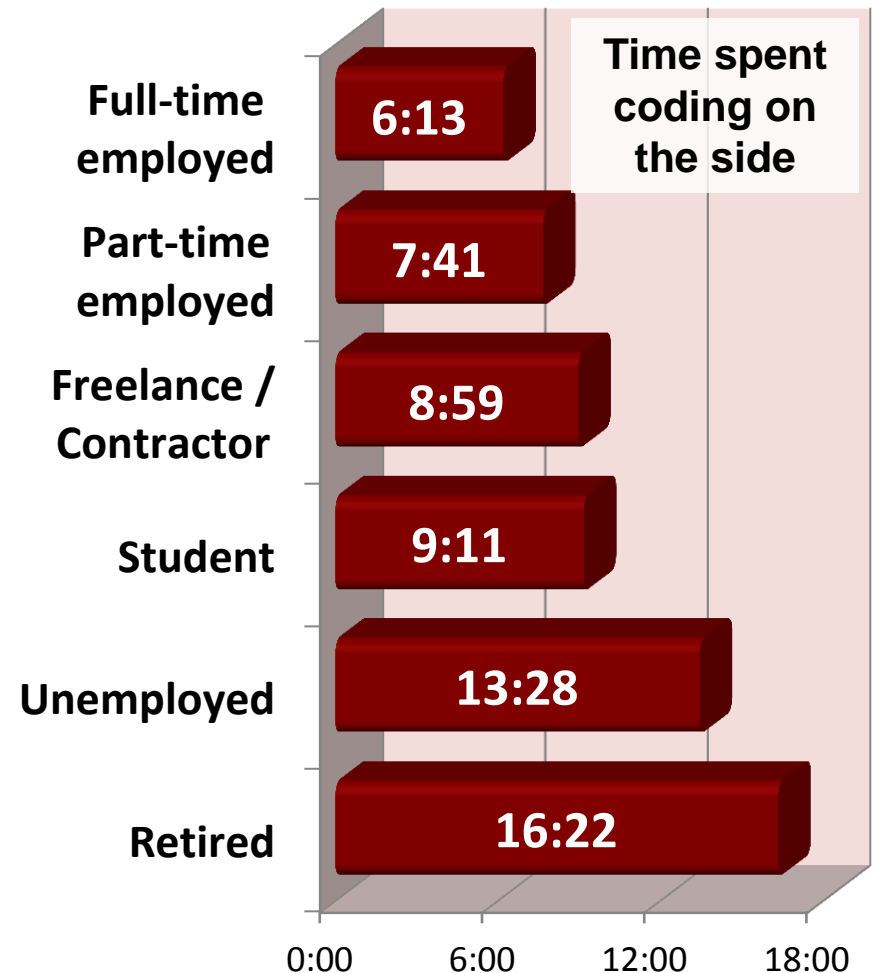
- **Top** paying technologies?





Coding on the side?

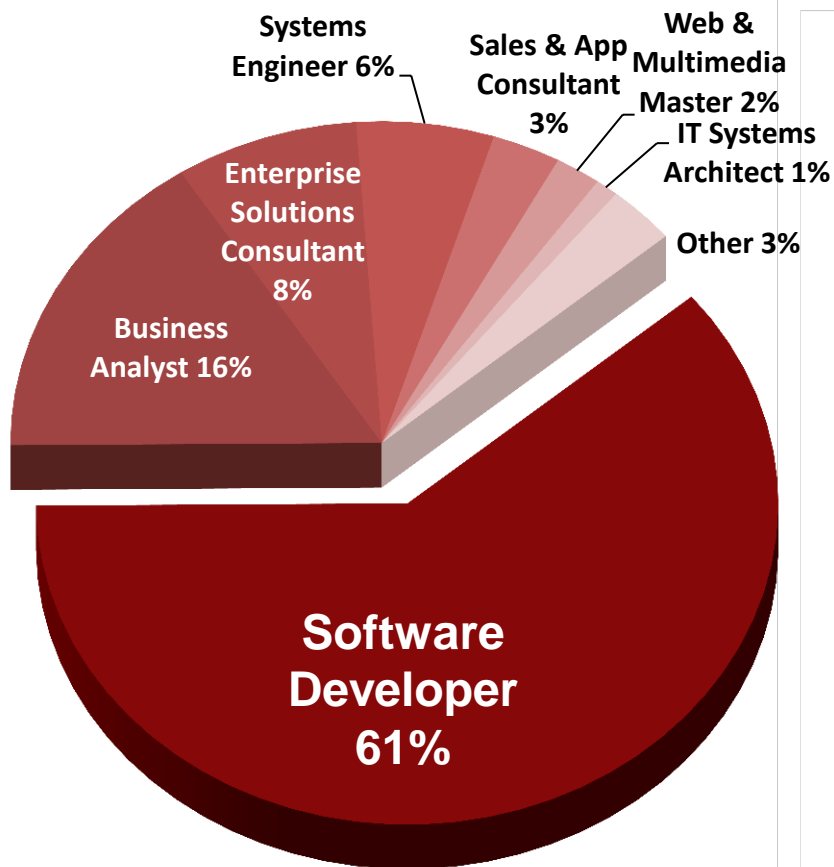
- Hush-hush
 - Even if you work full-time, you probably **code on the side** 😊
- Average **employed developer** spends **more than 6 hours** every week on
 - open source project
 - side-project
 - hobby projects
- **Retired developers** spend nearly **3 times more** on side projects
- Code is **life** for most developers
 - Or a **lifetime pursuit**



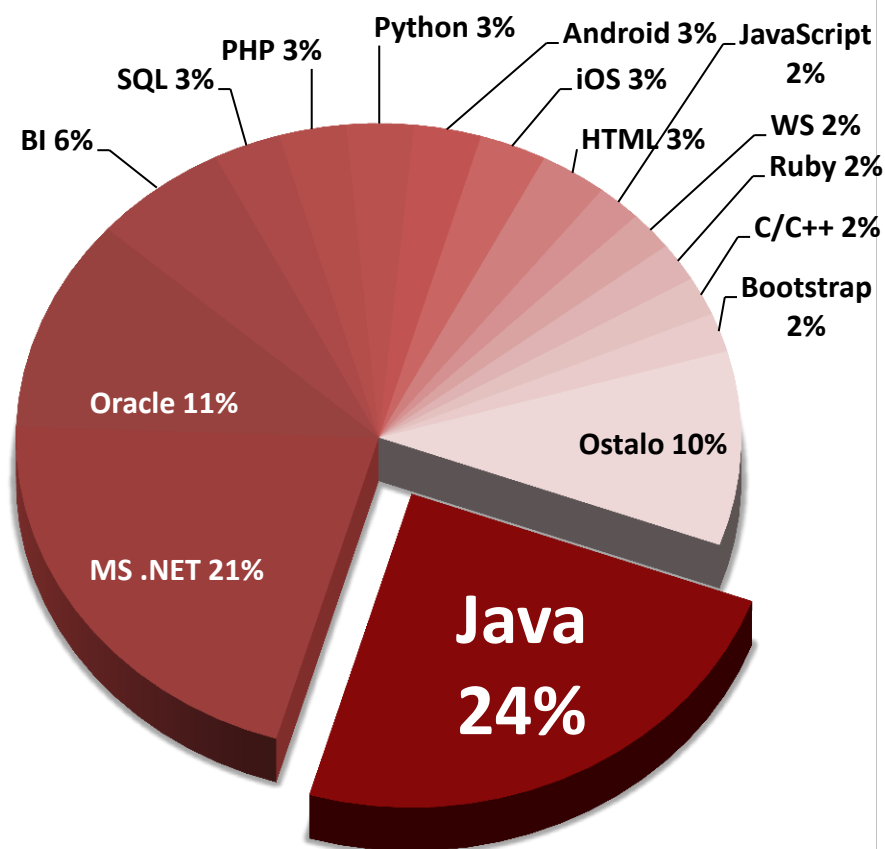


OK, but how is it in Croatia?

ICT profile 2014



Software Developer 2014



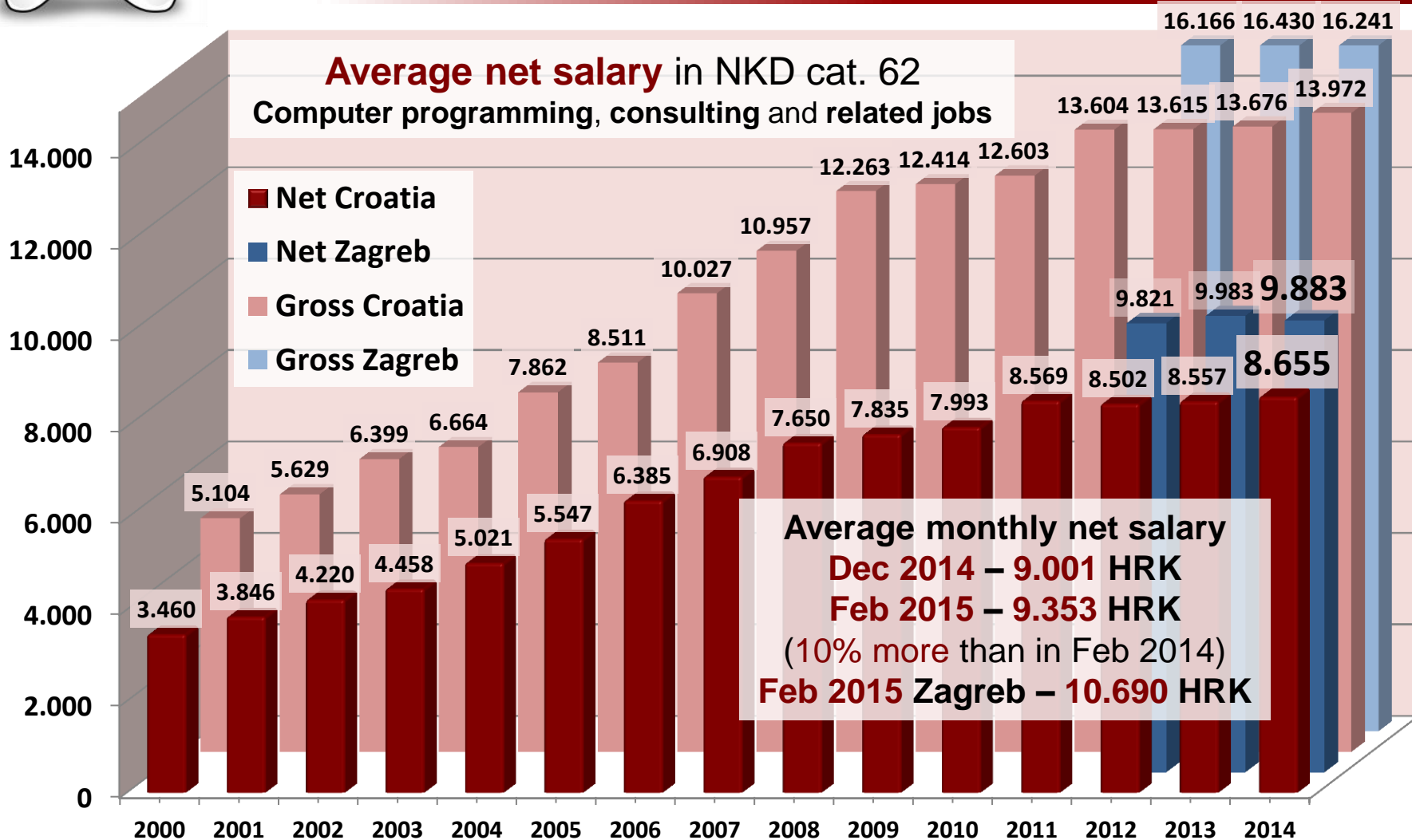


Job offers for ICT in Croatia





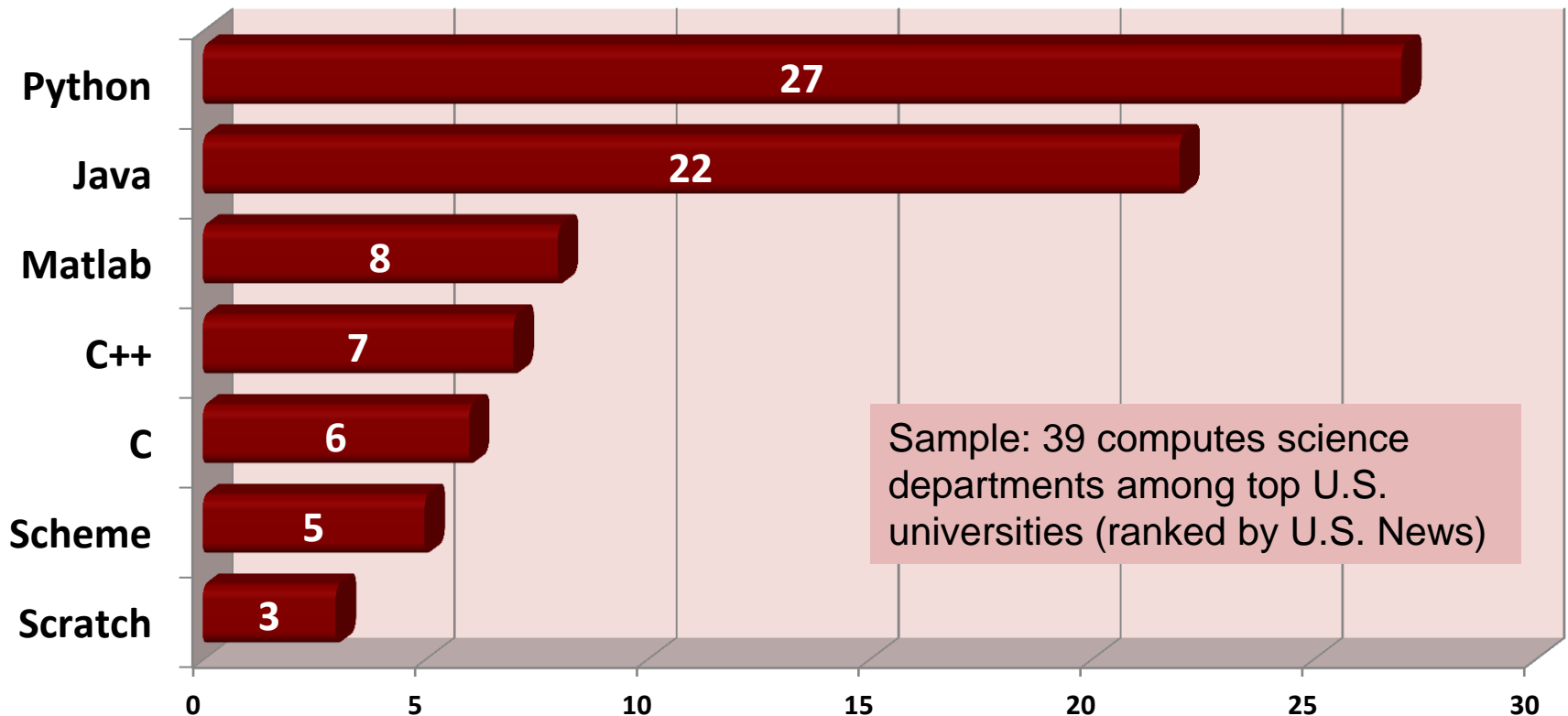
Salaries **growth** in Croatia





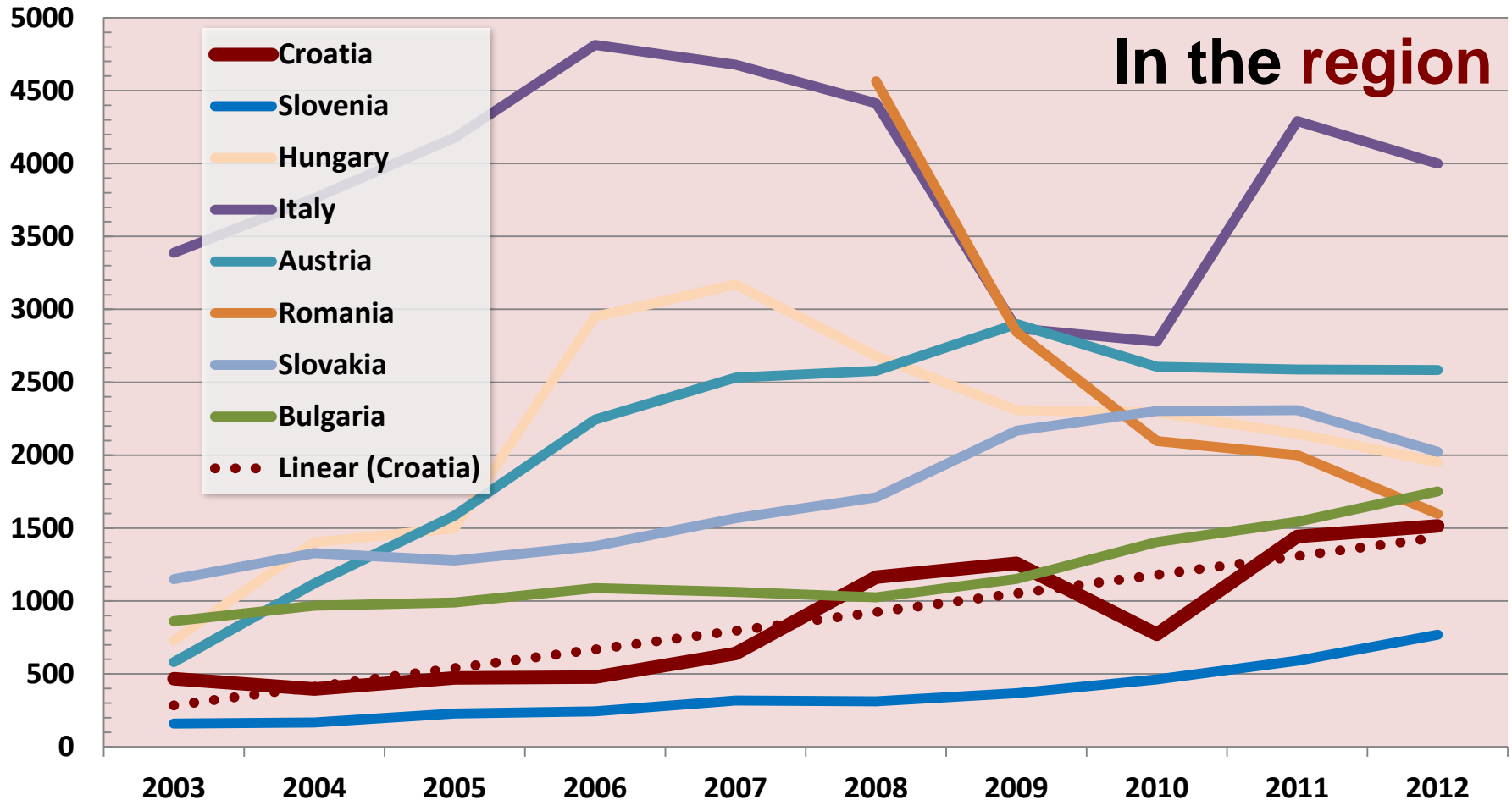
What about **Java** education?

- Top programming languages at **introductory programming courses** in USA



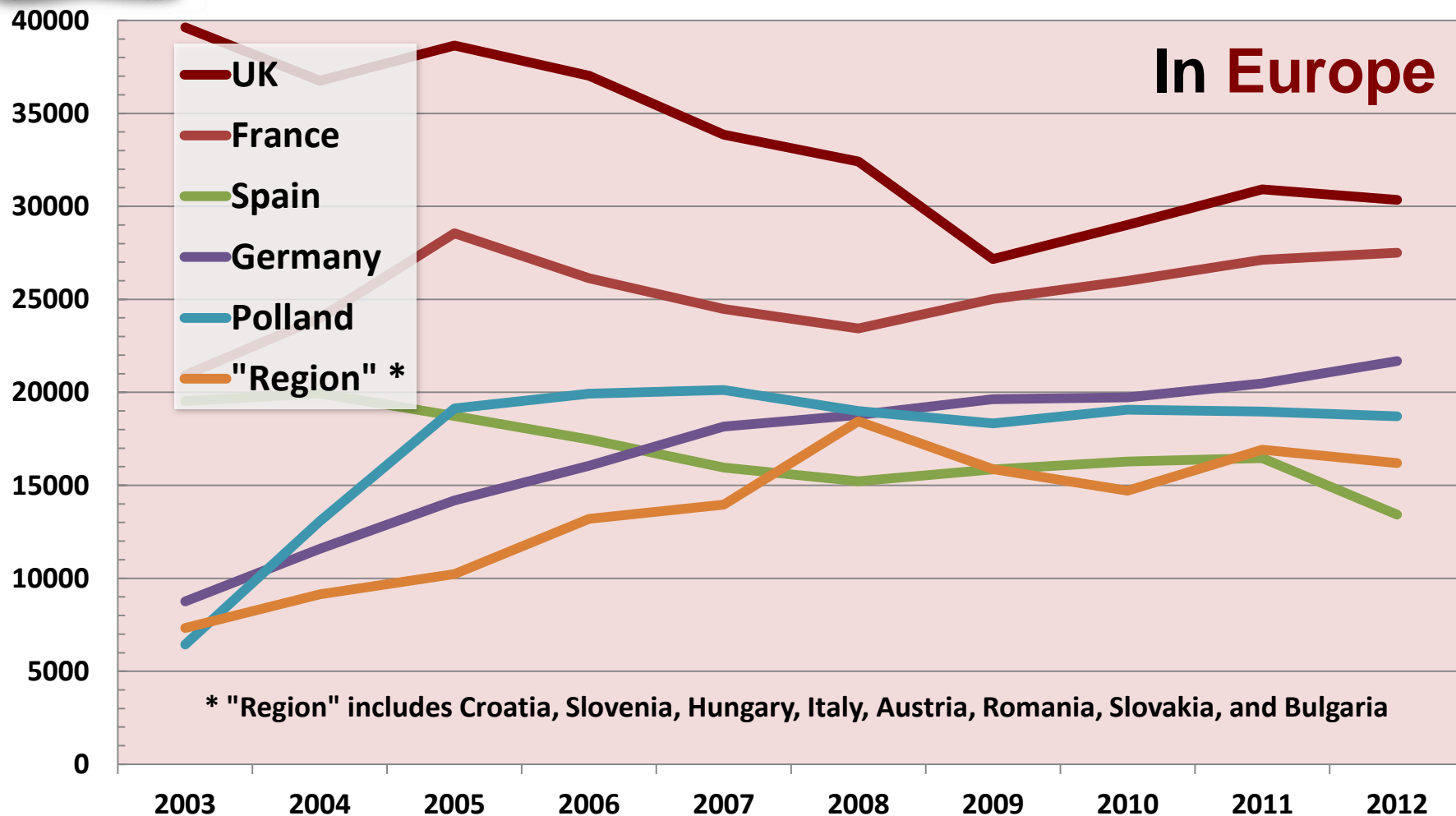


ICT graduates production



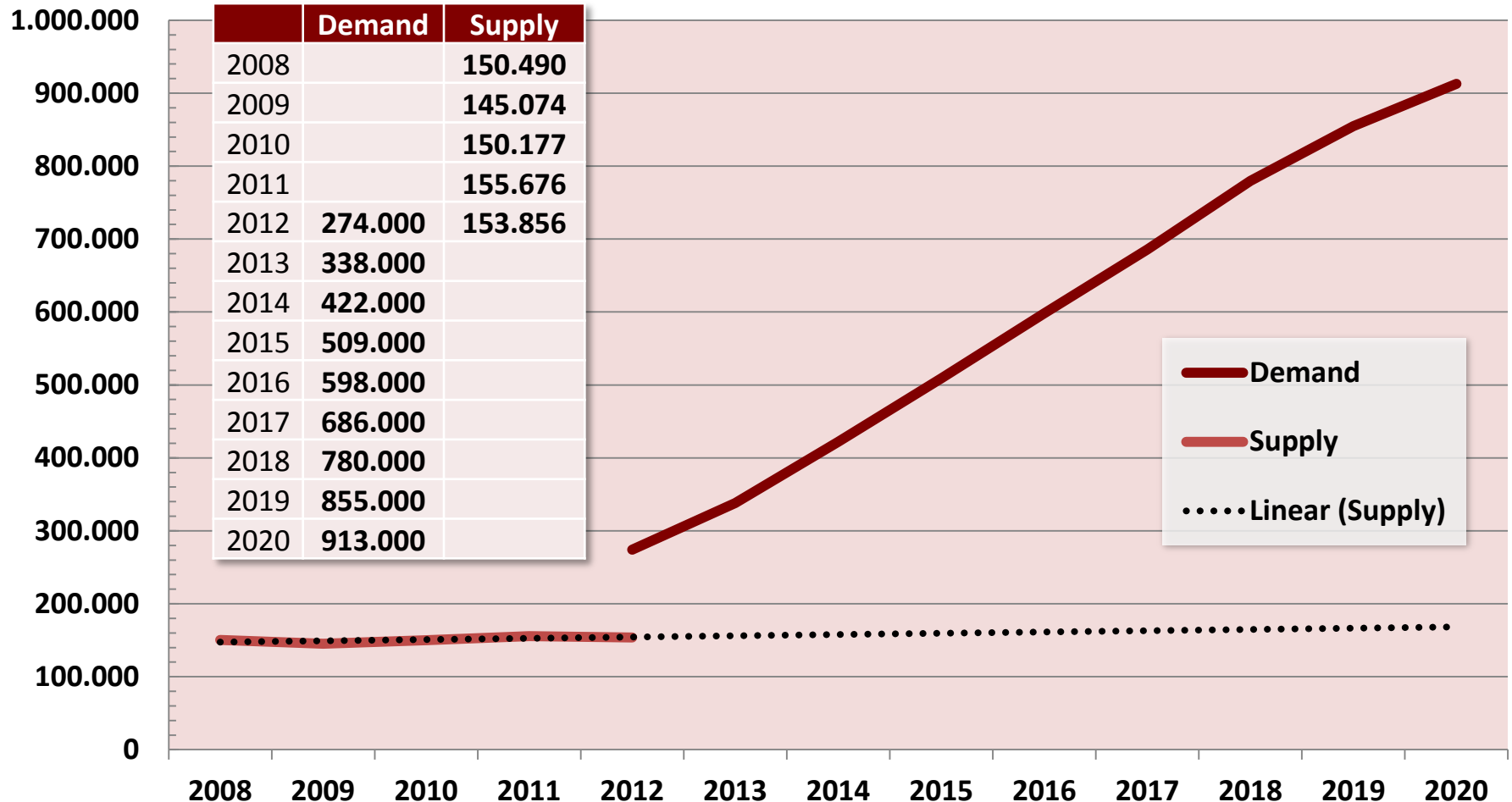


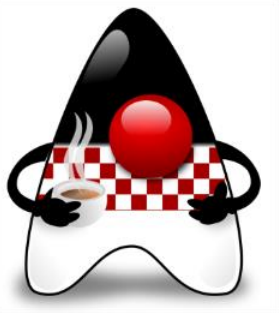
ICT graduates production





ICT in EU – Supply vs. Demand



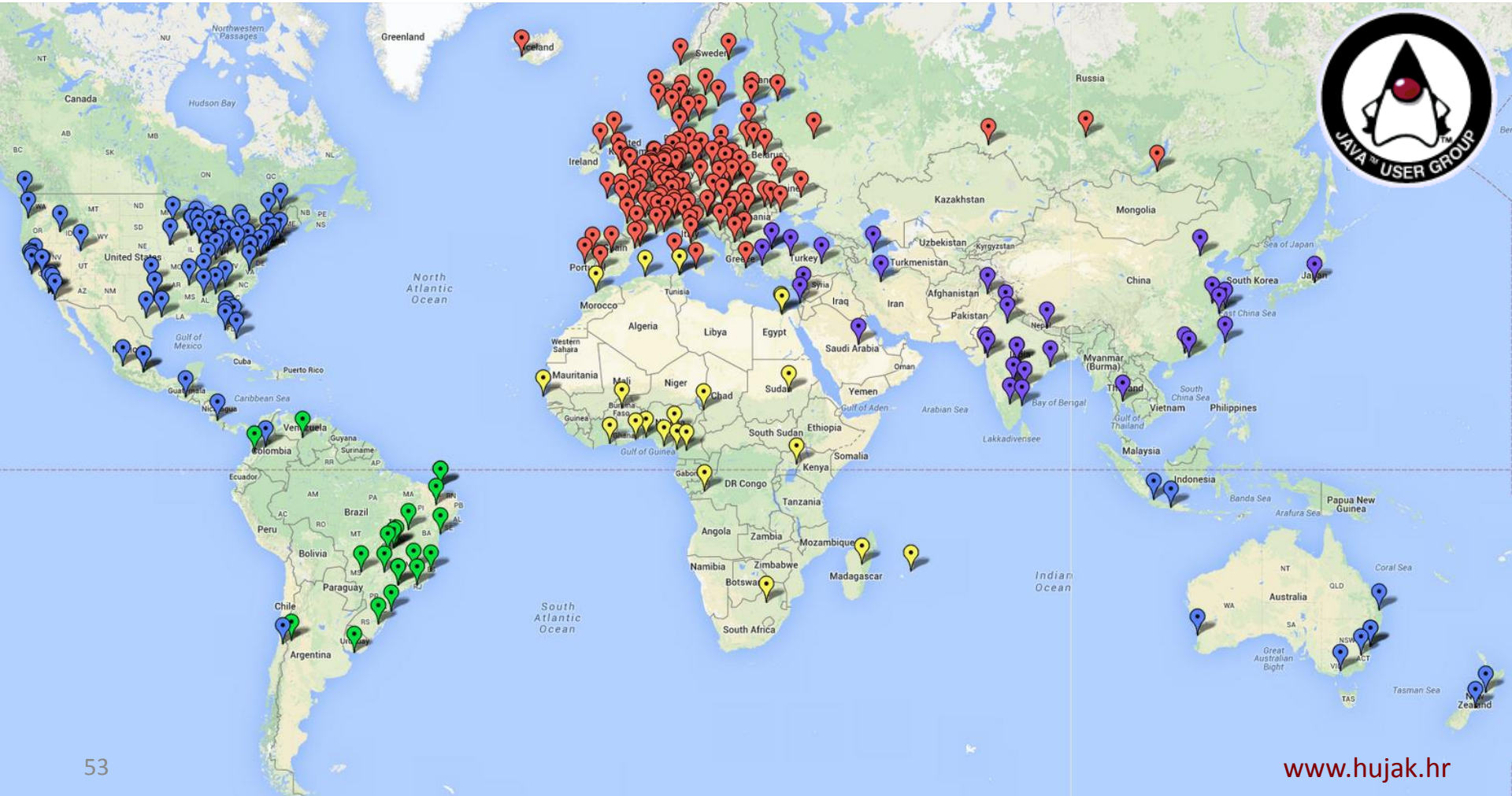


And finally

... some HUJAKing



315+ JUGs worldwide





100+ JUGs in Europe only

Hrvatska udruga Java korisnika – **HUJAK**



*Croatian Java User Association is an **non-profit association** of citizens, private persons as well as representatives of legal entities, who are in their professional, scientific or professional work **involved** in the **development** or **use** of **technologies** related to the **Java language and platform**.*





A peek into **HUJAK** history

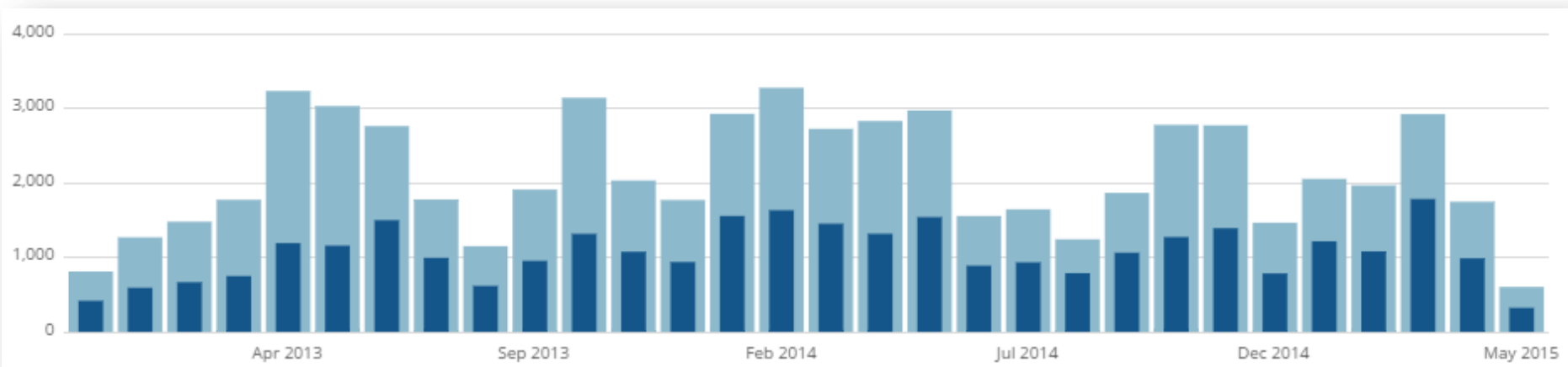
- 1997+ – **Java Center Croatia**, UniZg, FER, RASIP
 - Student Development Experimental Center & JUG
- 2000+ – series of informal **Java meetups**
- 2011+
 - 10/2011 – 1st **Java Day** at 16th HrOUG conference
 - 12/2011 – **HUJAK** founding
 - 05/2012 – 1st **international Java conference** in Croatia – **Java 2012**
 - 10/2012 – 2nd **Java Days** at 17th HrOUG conference
 - 06/2013 – 2nd international **Java conference** – **JavaCro'13**
 - 10/2013 – 3rd **Java Days** at 18th HrOUG
 - 02/2014 – 1st **Java community conference** – **Javantura** Zagreb 2014
 - 05/2014 – 3rd international Java conference – **JavaCro'14**
 - 11/2014 – 2nd Java community conference – **Javantura v2**
 - 05/2015 – 4th international Java conference – **JavaCro'15**
 - 11/2015 – 3rd Java community conference – **Javantura v3**





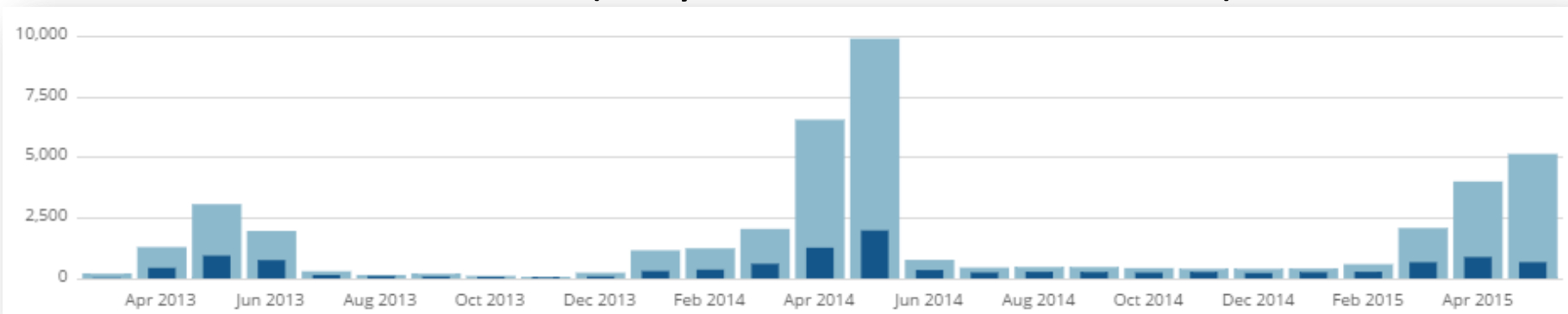
Popularity – hujak.hr

- Pages: **55** Posts: **663**
- Total visits: **80.000+**
 - **16.000+** in 2012, **25.000+** in 2013, **28.000+** in 2014
- Monthly max: **3.273** (Feb 2014 – **Javantura Zagreb 2014**)
- Daily max: **581** (March 5th 2015 – **Prosječna plaća programera**)
 - Previous: **519** (June 5th 2013 – **JavaCro'13**)





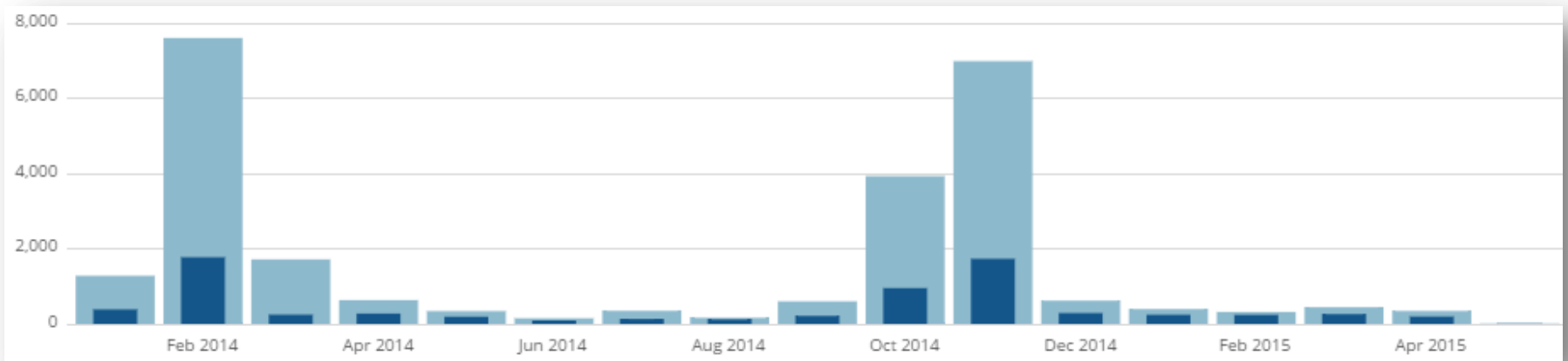
- **JavaCro.org** site
 - Total visits: **45.000+**
 - **7.500+** in 2013, **24.000+** in 2014
 - Monthly max: **9.928** (May 2014 – **JavaCro'14**)
 - Daily max: **2.509** (May 11th 2015 – **JavaCro'15**) 😊
 - Previous: **1.179** (May 12th 2014 – **JavaCro'14**)





- **Javantura.com** site

- Total visits : **26.000+** (since January 2014)
- Monthly max: **7.601** (Feb 2014 – **Javantura v1**)
- Daily max: **1.363** (Nov 15th 2014 – **Javantura v2**)





40+ company members



Thank you!





250+ individual members

Branko Mihaljević, Stjepan Matijašević, Slavko Žnidarić, Hrvoje Đurđević, Marin Orlić, Hrvoje Haramina, Danijel Kučak, Mario Žagar, Igor Čavrak, Goran Mužak, Damir Kovačić, Damir Kropf, Nikola Ružić, Matija Tomašković, Goran Šimić, Ivan Štimac, Samir Čauš, Denis Trupeć, Melita Mihaljević, Jurica Križanić, Nikolina Tomašković, Martin Grmek, Neven Borojević, Velimir Gašpar, Goran Horak, Ivica Čardić, Filip Božić, Igor Bešlić, Vladimir Jelinčić, Ivan Klarić, Marina Čobanov, Sanja Illeš, Tomislav Mrkus, Dražen Grabovac, Ivka Ivas, Marko Žagar, Miroslav Platiš, Borislav Matijasević, Platiš, Miroslav Šare, Hrvoje Slaviček, Duško Obradović, Marija Kust, Boris Ševo, Darijo Kutleša, Bruno Kovačević, Zoran Radošević, Marko Klasić, Davor Ranković, Stjepan Džemat, Josip Dean, Srđan Stanić, Mihovil Rister, Ivo Šalković, Ivan Paladin, Zvonimir Juranko, Emina Elezović, Dejan Rozić, Davor Sauer, Adnan Turic, Ladislav Mackala, Hrvoje Jambrović, Ognjen Orel, Marko Kasović, Dragi Raos, Tomislav Pokrajčić, Tomislav Ivanjko, Goran Kalanj, Igor Belša, Matija Capan, Estera Prendivoj, Andreja Josipović, Igor Lazić, Vedran Vetma, Marija Kušt, Tvrtko Malkoč, Josip Pokrajčić, Martina Starman, Denis Halupa, Željko Bubičić, Ivana Čanji, Ana Mandić, Nenad Crnić, Ivica Lončar, Aleksander Radovan, Veljko Cuculić, Maja Legac, Mladen Čikara, Borut Hadžialić, Miroslav Rešeta, Miroslav Rešeta, Saša Ivičević, Mario Gvozdanović, Nenad Bajsić, Dino Lišnjić, Duško Vukmanović, Dino Zjača, Igor Buljan, Nikola Šaub, Dragutin Kernek, Erik Elmić, Silvijs Horvat, Marko Škvorc, Blaženko Hunjet, Marko Curi, Boris Grginčić, Domagoj Tršan, Ivan Klarić, Željko Šmaguc, Tomislav Gosarić, Barbara Carević, Marko Jurišić, Domagoj Poljak, Ivor Prebeg, Ivan Švogor, Jagor Čakmak, Tomislav Rajaković, Janko Diminić, Mladen Uzelac, Dalibor Starčević, Nikša Marušić, Fabijan Špralja, Romana Drčić, Robert Hrzenjak, Dinko Srkoč, Ivan Raguž, Bariša Obradović, Marko Marušić, Marijo Hasanac, Ante Pličko, Ivica Ljubić, Josip Maslač, Bruno Foković, Ivan Jozić, Šimun Šunjić, Miljen Mikić, Marko Čavka, Hrvoje Rončević, Krešo Papeć, Ninoslav Čerkez, Ilica Brnčić, Jurica Damir, Marije Dobrić, Anđelko Jambrović, Zoran Veljanović, Mario Kamenjak, Tomislav Šebalj, Ivan Kocijan, Vedran Bojanić, Milan Draganić, Silva Haber, Petar Rutlić, Zoran Zrnić, Emina Stanić, Leon Rotim, Filip Januš, Mario Smolčić, Stipe Stagličić, Ivan Vučak, Siniša Botić, Mate Križanac, Josip Marković, Pavle Crnković, Mišel Mešnjak, Filip Horvat, Ivo Majić, Branko Novaković, Željko Kunica, Željko Mikić, Dubravko Fistrić, Šime Essert, Slaven Olujić, Filip Kaić, Miljenko Martinić, Goran Štuc, Ian Rumac, Mateo Velenik, Antonio Jedvaj, Ivan Grce, Marko Ciglar, Ivan Žanić, Dario Šagud, Josip Kovaček, Luka Belopeta, Dorotea Šimunec, Kristijan Vrdjanec, Petar Zubak, Karlo Sušan, Darko Topić, Daniel Bele, Leonardo Bujas, Mihovil Vidaček, Tihomir Smuđ, Dorjan Smoković, Tvrtko Malkoč, Mario Gotovac, Ivo Šimirović, Hrvoje Crnjak, Mirko Jakovčev, Marko Marić, Božidar Đukes, Ivan Pigac, Daniel Peruško, Slaven Hrkač, Andrej Grgurić, Mario Lanik, Robert Antonić, Mario Diab, Sven Stubljar, Đive Jakobušić, Igor Durbek, Vladimir Adamić, Adam Mehtić, Borna Slivar, Radovan Kainović, Tomislav Brabec, Antun Juratović, Pavao Vlahović, Matija Bečirević, Luka Bašek, Jurica Vlahoviček, Josip Golubić, Marko Crnjac, Luka Škeljo, Andrej Balaš, Marko Golec, Sara Konjević, Tomislav Fumić, Albert Bojčić, Karlo Kovač, Dejan Pavković, Leon Španić, Davor Lozić, Alan Jagar, Hrvoje Baić, Andrej Zvonimir Crnković, Tino Titlić, Tomislav Šantek, Tomislav Karaturović, Marko Žulić, Mateo Sokač, Duje Jurica, Luka Maglic, Armando Vucić, Ružica Grubišić, Tomislav Ptiček, Ivan Petrović, Antonio Đurenc, Dino Horvat, Danijel Čokara ...

The Core of HUUJAK!





Partners & friends





HUJAK's activities

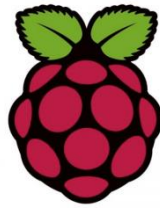
- General activities
 - Exchange of **knowledge** and sharing of **experiences**
 - **Gatherings**, meetups and **conferences**
 - Help in organizing **education**
 - **Certification** and testing
 - Help with **employment**





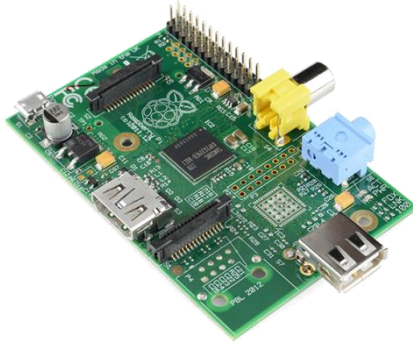
The Board of Education

- **The Board of Education** at HUIJAK
 - Established fall 2013
 - Lead by Aleksander Radovan, aleksander.radovan@hujak.hr
- **Cooperation with education**
 - Universities, Colleges, Schools, Associations, User Groups
- Help with **Java certification**
 - More on next slide, special session was today
- **New ideas** – workshops for kids
 - Scratch, Devovx4kids, Raspberry Pi, Arduino, Lego Mindstorms, Robotics ...

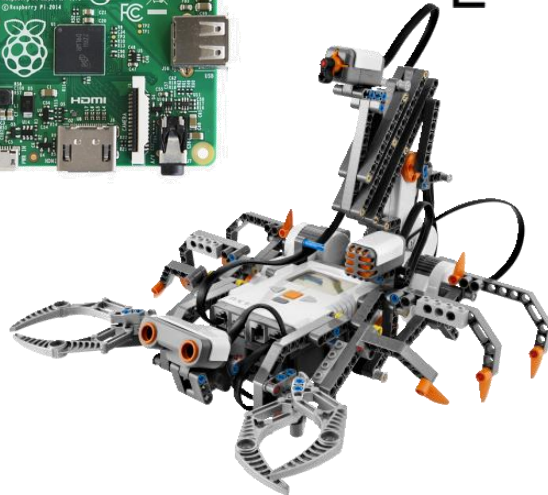
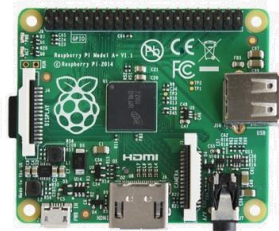


LEGO MINDSTORMS EV3
education

The Kids



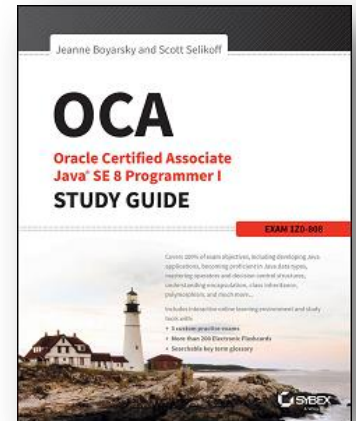
DEVOXX™
[4KIDS] 





Java Certification

- **Help** with Java Certification
 - Java SE – OCA, OCP, OCM
 - Java EE – OCE, OCM
 - **Other** certifications – Spring, O'Reilly ...
- **Site section** about **certification** at HUIJAK site
 - hujak.hr/certifikacija
 - Study groups (Java 8 related)
 - **Special session** at JavaCro'15 😊
- **Big thanks** 😊
 - Aleksander Radovan, Tihomir Smuđ, Jurica Križanić, Lucija Zadrija, Lovro Pandžić, Milan Draganić, Hrvoje Đurđević ...





Call to Javantura v3

- **Javantura v3 – November 2015**
 - **300+** visitors, **25+** sessions, **2-3** tracks
 - To be announced at **Javantura.com**
 - **Call for Speakers – June/July 2015**



A large graphic for Javantura. It features a blue compass rose on an orange background. To the right, the word 'Javantura' is written vertically in a large, blue, sans-serif font. Below the compass rose is a smaller version of the mascot character. At the bottom, there is a blue banner with the Java logo and the website 'www.javantura.com'. To the left of the banner is the website 'www.hujak.hr'.



Other conferences

- **GeeCON** – May 13-15, Krakow, Poland
- **CROZ QED** conference – May 17-19, Rovinj
- **DORS/CLUC** conference – May 18-20, Zagreb
- **Infobip Dev Days** conference – Jun 13, Tuhelj
- **JEEConf** – May 22-23, Kiev, Ukraine
- **Devoxx UK** – Jun 17-19, London, England
- **HrOUG** conference – Oct 13-16, Rovinj (**HERE!**)
 - 20th special edition 😊



Call for **participation**

- **HUJAK needs your help** in
 - Everyday **life** of our JUG
 - Organizing **meetups** and **workshops**
 - Organizing **conferences**
 - **Education** and **certification**
 - **Employment**-related activities

HUJAK is YOU!



Thank you & greetings from HUIJAK!

- Questions?
 - branko.mihaljevic@hujak.hr
 - aleksander.radovan@hujak.hr

- Web hujak.hr

 LinkedIn [group 4320174](https://www.linkedin.com/groups/4320174)

 Facebook [HUIJAK.hr](https://www.facebook.com/HUIJAK.hr)

 Twitter [HUIJAK_hr](https://twitter.com/HUIJAK_hr)

