

- javac HelloWorld.java
- #injavawetrust
- Java ölüyormuş , doğru mu ?
- Java'nın arkasındaki karanlık güçler kimler ?
- Java zor mu ?
- Java SE ve GUI yeterli mi ?
- Oracle Sertifikaları , Java SE
- Java EE nedir ?
- Nerelerde Java tercih edilir ?
- Servlet&JSP
- Containers &Application Servers
- JSF
- ORM & JPA & Hibernate
- Web Service
- Spring
- Spring MVC
- Version Control System
- Hangi IDE ?
- Neden sizi işe alalım ?

javac HelloWorld.java

```
[Levents-MacBook-Pro:Desktop levent$ javac HelloWorld.java  
[Levents-MacBook-Pro:Desktop levent$ java HelloWorld
```

```
Levent Ergüder  
2008-2012 KOÜ Bilgisayar Mühendisliği  
Asseco SEE , Payment Gateway  
Product Development Specialist  
4.5 , Java Developer  
3 , Java Trainer  
Levents-MacBook-Pro:Desktop levent$ █
```

#injavawetrust

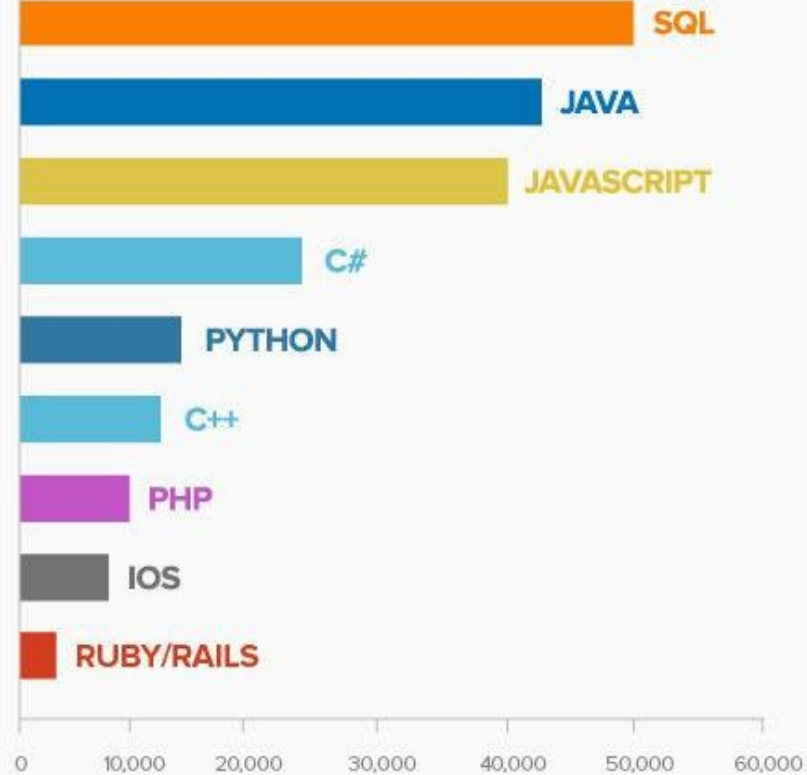
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Feb 2017	Feb 2016	Change	Programming Language	Ratings
1	1		Java	16.676%
2	2		C	8.445%
3	3		C++	5.429%
4	4		C#	4.902%
5	5		Python	4.043%
6	6		PHP	3.072%
7	9	^	JavaScript	2.872%
8	7	v	Visual Basic .NET	2.824%

- TIOBE index is not about the best programming language or the language in which most lines of code have been written.
- Popular search engines such as Google, Bing, Yahoo!, Wikipedia, Amazon, YouTube and Baidu are used to calculate the ratings.
- <http://www.tiobe.com/tiobe-index/>

Languages ranked by number of programming jobs

Data from
Indeed.com
2016



<http://www.codingdojo.com/blog/9-most-in-demand-programming-languages-of-2016/>

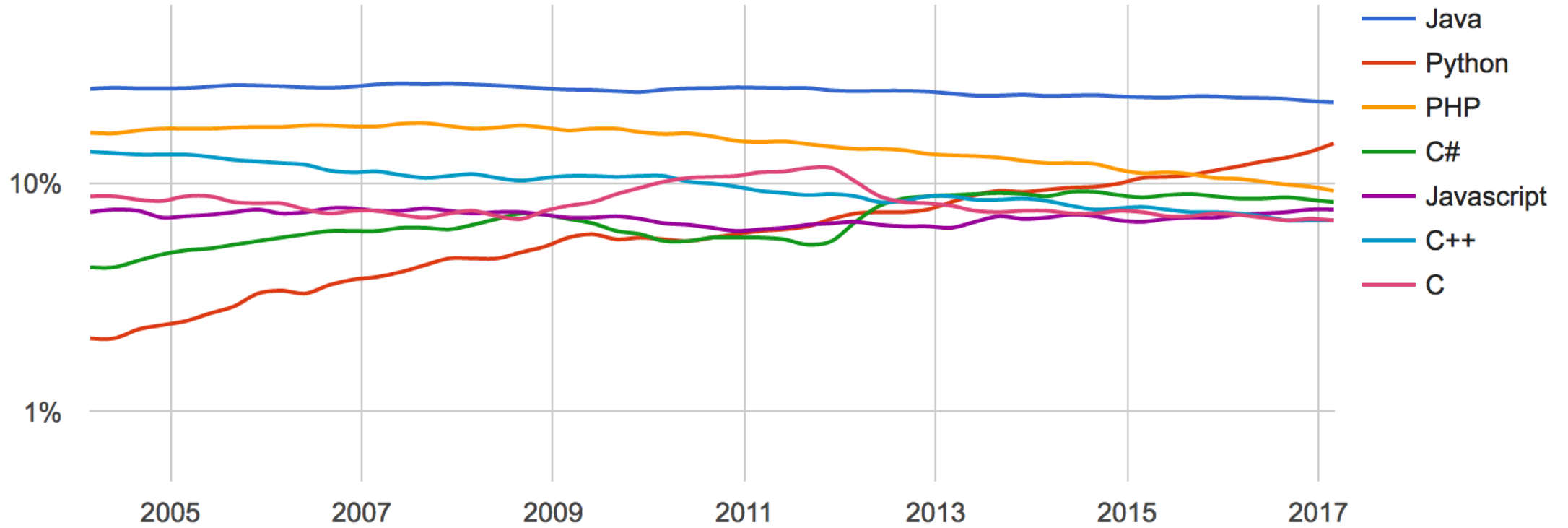
Worldwide, Mar 2017 compared to a year ago:

Rank	Change	Language	Share	Trend
1		Java	22.7 %	-1.4 %
2		Python	15.0 %	+3.0 %
3		PHP	9.3 %	-1.2 %
4		C#	8.3 %	-0.4 %
5	↑↑	Javascript	7.7 %	+0.4 %
6	↓	C++	6.9 %	-0.5 %
7	↓	C	6.9 %	-0.1 %
8		Objective-C	4.1 %	-0.6 %
9		R	3.5 %	+0.4 %
10		Swift	2.9 %	+0.0 %

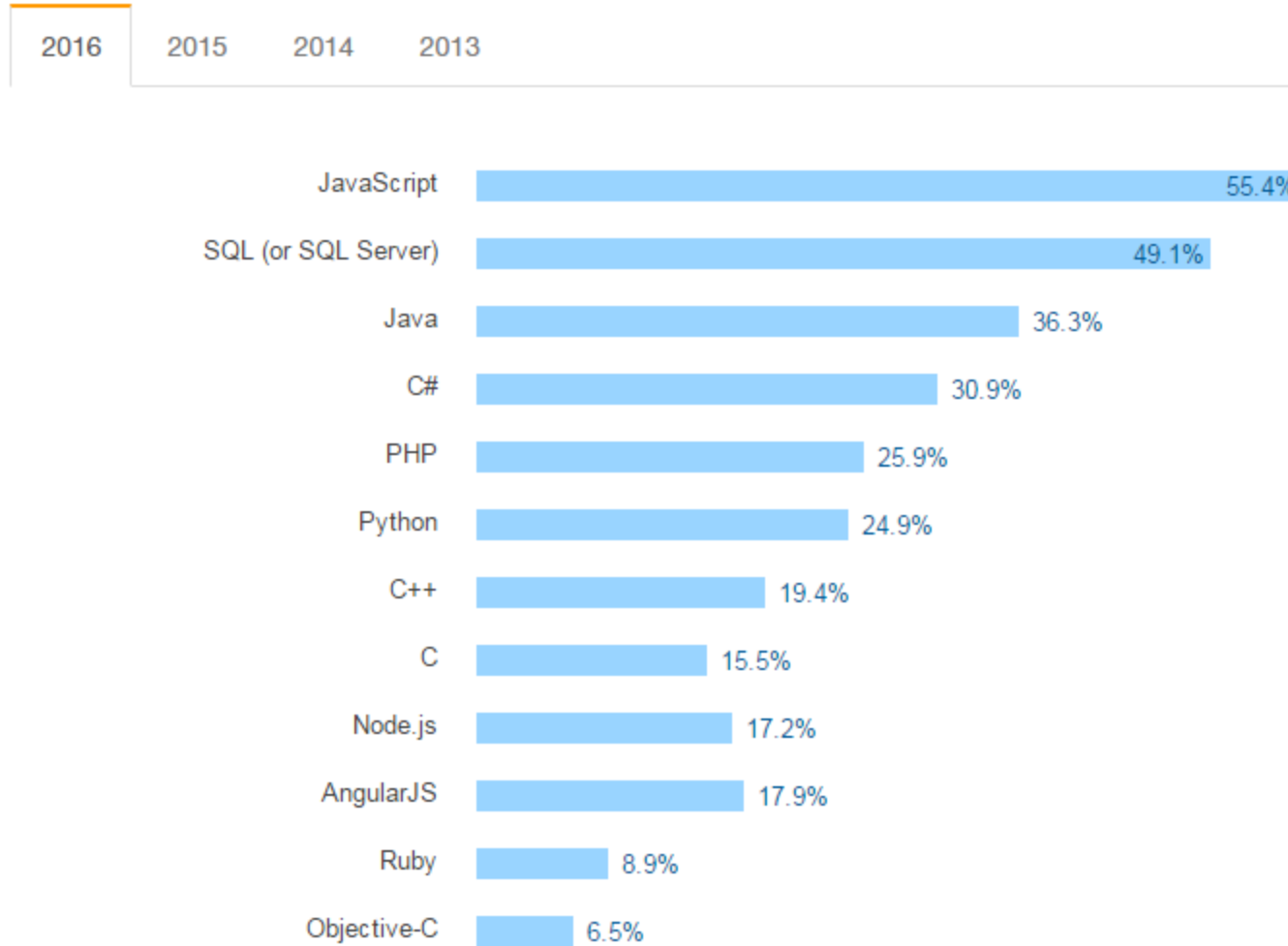
The PYPL PopularitY of Programming Language Index is created by analyzing how often language tutorials are searched on Google.

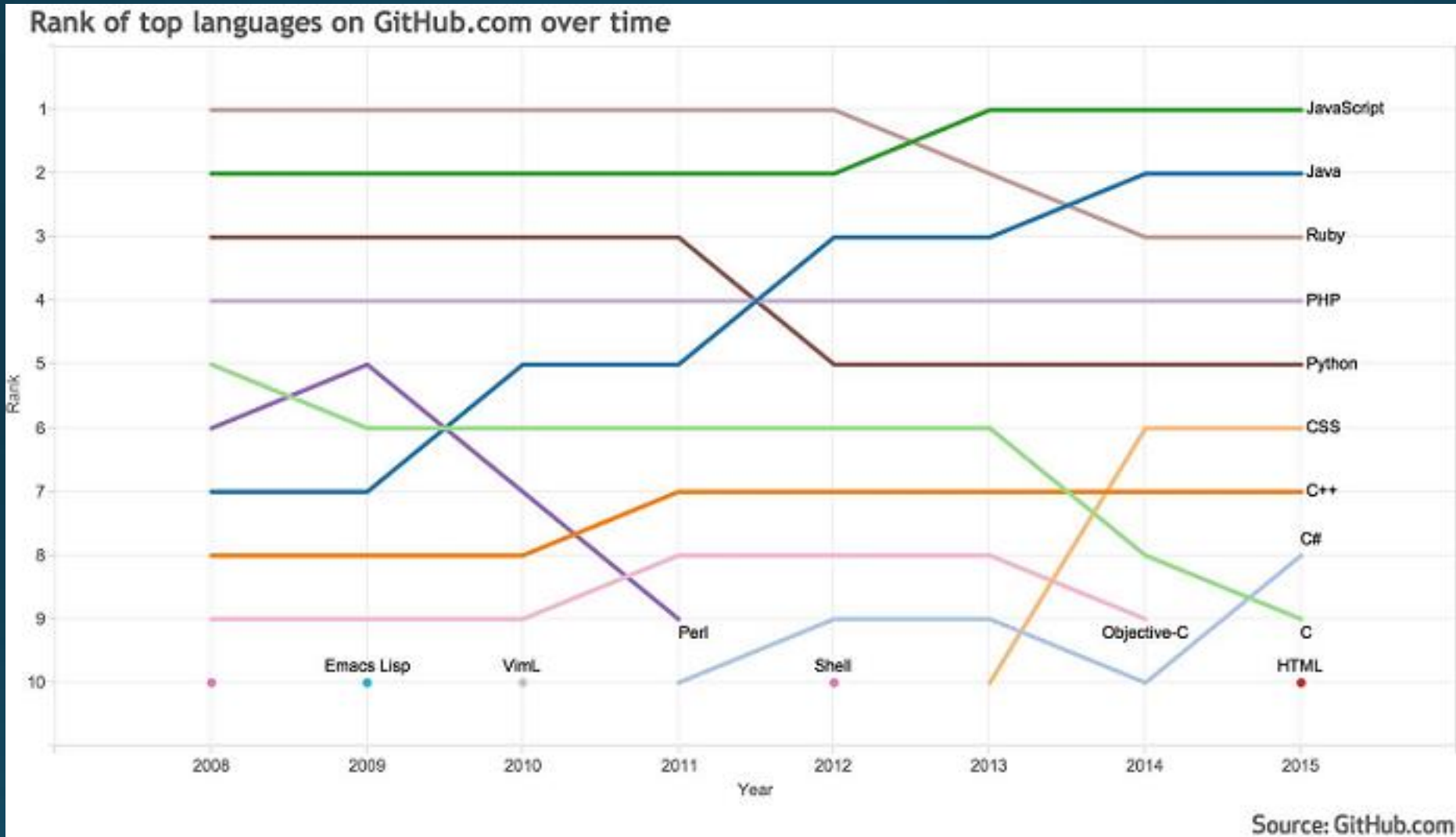
<http://pypl.github.io/PYPL.html>

PYPL PopularitY of Programming Language



I. Most Popular Technologies





<https://github.com/blog/2047-language-trends-on-github>

Java'nın arkasındaki karanlık güçler kimler ?

- Java , gücünü sadece Oracle şirketinden mi alıyor ?
- Java'nın arkasında hangi şirketler/vakıflar var ?
- 9 Milyon Java Developer



9 Million
Java Developers



7 Billion
Devices



#Java20

Topluluklar

- JCP ; Java Community Process
<https://jcp.org/en/home/index>
- Apache Software Foundation
<http://www.apache.org/foundation/>
- Eclipse Foundation
<https://eclipse.org/org/foundation/>
- Red Hat Community
<http://community.redhat.com/>

JCP Üyeleri

- Oracle
- Red Hat
- Cisco Systems
- IBM
- VMWare
- Apache Software Foundation
- Google
- Hewlett Packard
- SiemensAG
- <https://jcp.org/en/participation/members>



**Hacım, Java diyorlar.
Hakikatten zor mu?**



**Bence çok arbartıyorlar.
Sadece ilk 10 yıl birazcık zor.
Sonrasında kolaylaşıyor.**



**Peki, tavsiye eder
misin?**



NullPointerException

Java SE ve GUI yeterli mi?

- Önce iyi bir Java SE bilgisi
- Bina temelden yapılır , çatıdan değil (framework)
- Peki yeterli ve doğru Java SE bilgisini nasıl kazanabilirim ?



Java SE ve GUI yeterli mi?

- Graphical User Interface
- Java kariyeri yolunda ilerlemek istiyorsak Java SE bilgisi yeterli olacak mıdır?
- Applet , Swing , JavaFX , masaüstü programcılık öğrensem?
- Ne güzel sürükle bırak , çok eğlenceli...



Oracle Sertifikaları, Java SE

- Oracle Certified Associate, Java SE 8 Programmer
- Oracle Certified Professional, Java SE 8 Programmer
- “Tecrübeli değilim ama temel bilgim sağlamdır.”
- Tüm sınavlar
http://education.oracle.com/pls/web_prod-plq-dad/db_pages.getpage?page_id=632
- Forum
<http://www.coderanch.com/forums/f-117/ocajp>
- Daha fazla bilgi için ;
<http://www.injavawetrust.com/onerilersertifikaegitim/oracle-sertifika-sinavlari/>
<http://www.javaturk.org/oraclein-java-sertifikalari/>

Oracle Sertifikaları, Java SE

Java SE Certification

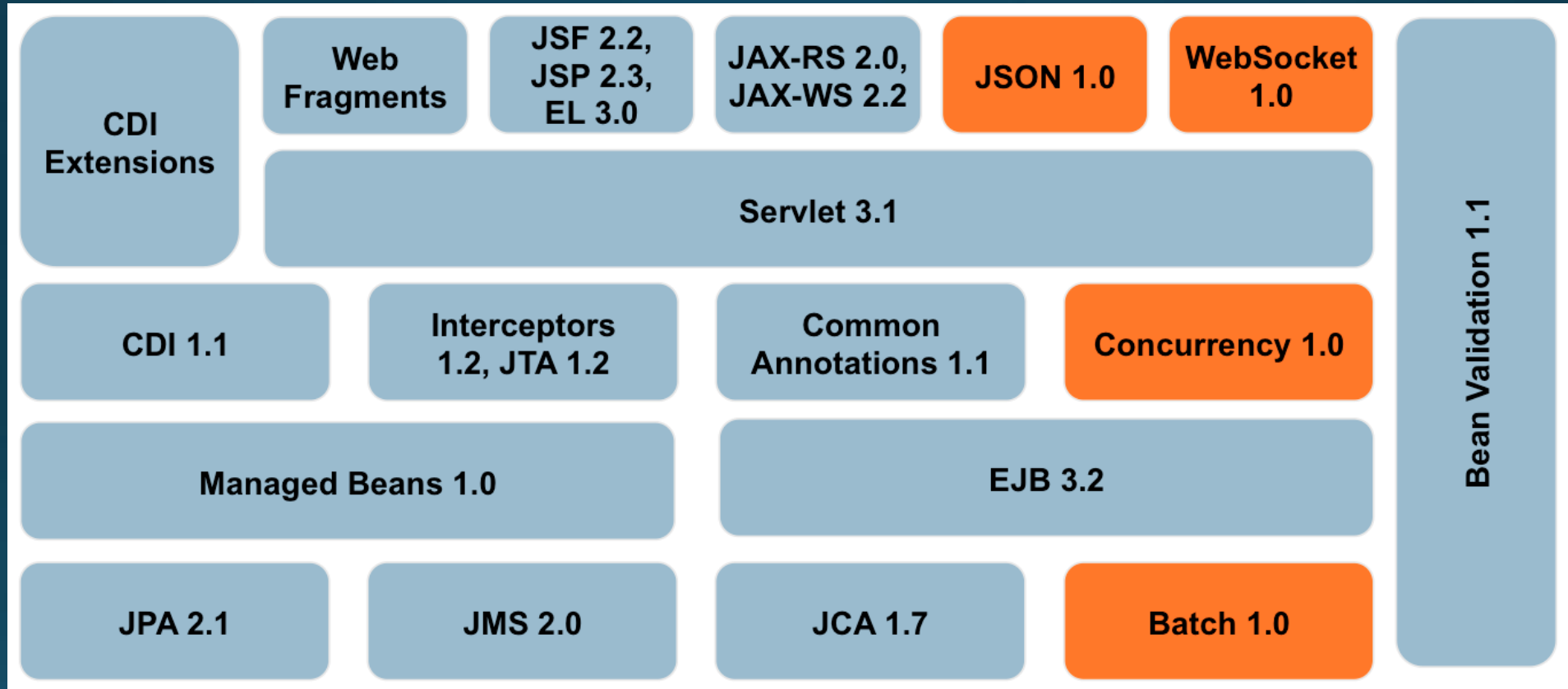
Click on the boxes below to learn detailed requirements for achieving each certification. ?

Associate	<div>Java Foundations Certified Junior Associate (novice-level certification)</div> <div>Oracle Certified Associate, Java SE 5/SE 6</div>	<div>Oracle Certified Associate, Java SE 7 Programmer</div>	<div>Oracle Certified Associate, Java SE 8 Programmer</div>
Professional	<div>Oracle Certified Professional, Java SE 8 Programmer</div> <div>Oracle Certified Professional, Java SE 6 Programmer</div>	<div>Oracle Certified Professional, Java SE 8 Programmer (upgrade)</div> <div>Oracle Certified Professional, Java SE 6 Programmer (upgrade)</div>	<div>Oracle Certified Professional, Java SE 7 Programmer</div> <div>Oracle Certified Professional, Java SE 7 Programmer(upgrade)</div>
Master	<div>Oracle Certified Master, Java SE 6 Developer</div>		

Java EE nedir ?

- Java EE/ Enterprise Edition eski adıyla J2EE
- Java SE platformu üzerine inşa edilmiştir.
- Reliable , large-scale , secure , multi-tiered projeler geliştirmek için kullanılır.
- Java EE bir platformdur.

Java EE Platform



Nerelerde Java tercih edilir ?

- Telekomunikasyon
- Big Data
- Ödeme Sistemleri , VPOS , POS
- E-Commerce , SAP Hybris
- Bankacılık , Finans , Sigortacılık
- Airline Solutions , Hospitality
- Mobil Uygulamalar
- Kurumsal Çözümler
- Savunma Sanayi , NASA
- Embedded Systems

Servlet & JSP

- Java EE giriş için ideal.
- Hızlı şekilde öğrenmeye elverişli.
- Web'in temel kavramlarını öğrenmek için uygun.
- HTTP protokolü , Request , Response , Session , Cookie , Header ,Attribute, Server , Client , Filter ...
- Servlet'ler bildiğimiz Java sınıflarıdır.
- JSP gramerini öğrenmek kolaydır.
- JSTL (JSP Standard Tag Library)
- EL (Expression Language)
 `${person.name}`
 `#{person.name}`

Servlet & JSP

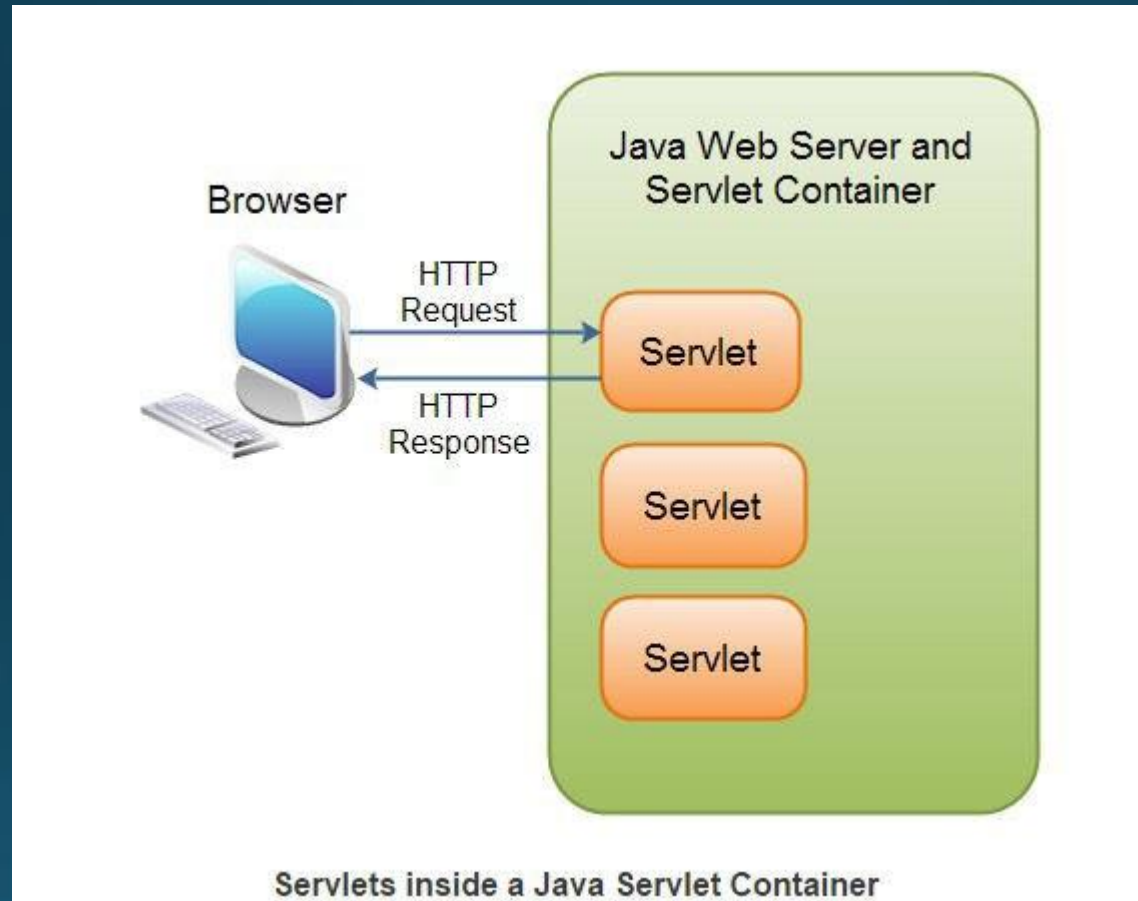
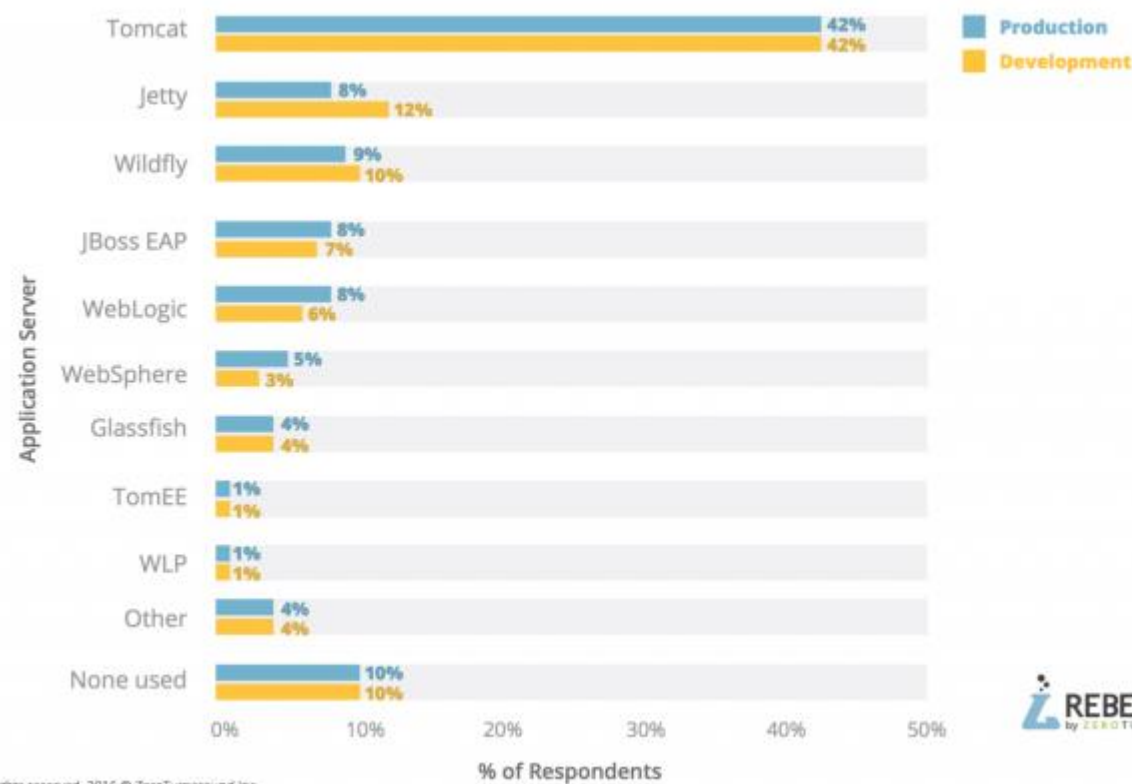


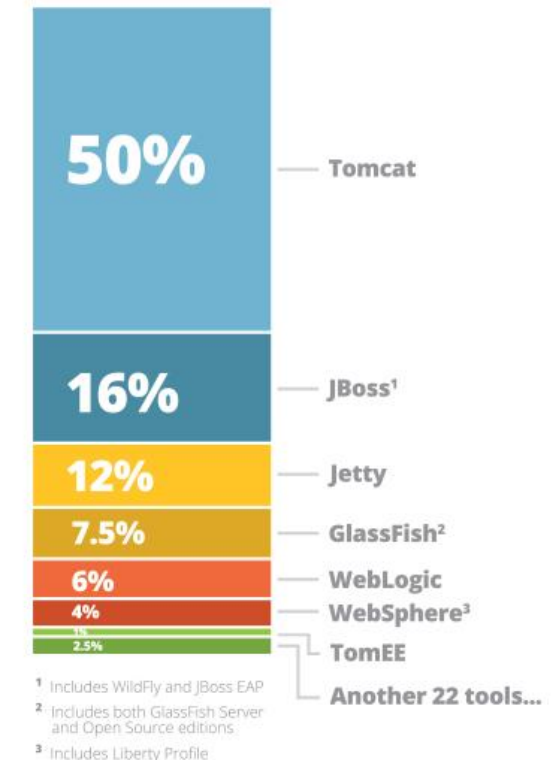
Figure 1.13 Application Server Usage in Production and Development



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App Server most often used*



¹ Includes WildFly and JBoss EAP

² Includes both GlassFish Server and Open Source editions

³ Includes Liberty Profile



* The results were normalized to exclude non-users

<https://zeroturnaround.com/rebellabs/java-tools-and-technologies-landscape-for-2014/8/>
<https://zeroturnaround.com/rebellabs/java-tools-and-technologies-landscape-2016/>

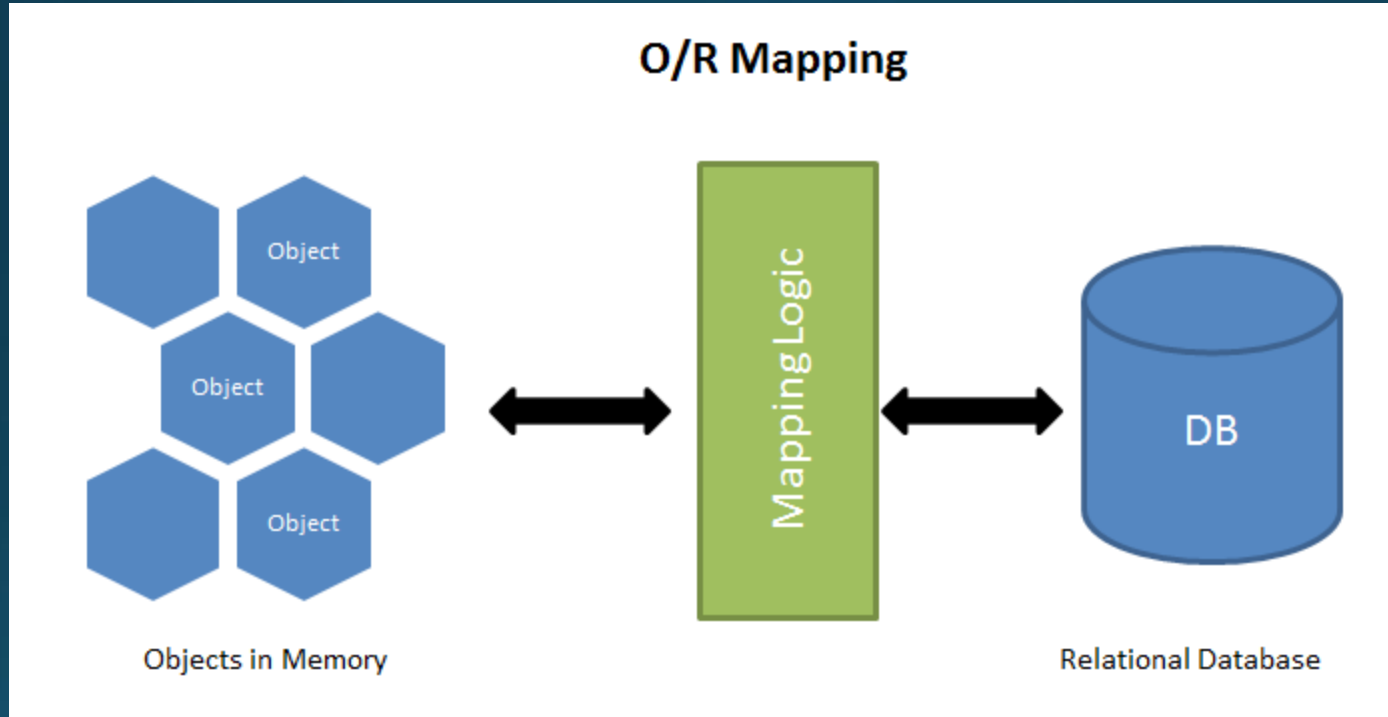
JSF (Java Server Faces)

- Component-Oriented/Component Based
- UI (User Interface) componentler.
Swing'in , Browser Versiyonu olarak düşünebiliriz.
- JSF , Java EE Application Server'larda entegrelidir.
- Java EE View Layer standard.
- `<h:inputText value="#{inputBean.name}" />`
`TextField textField = new TextField(20);`
- `<h:commandButton value="Page1" action="page1" />`
`JButton okButton = new JButton("OK");`

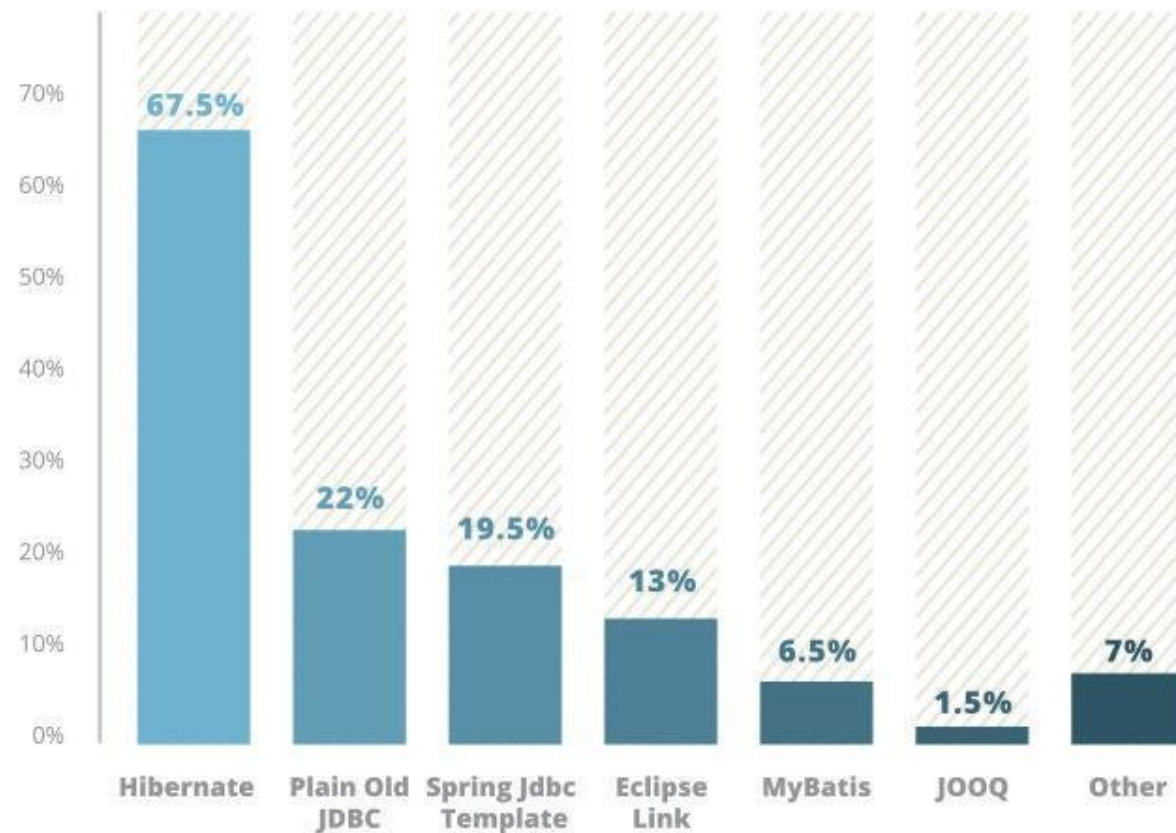
ORM & JPA & Hibernate

- Object Relational Mapping , Java objeleri ile ilişkisel veritabanı arasındaki bağlantıyı ve yönetimi sağlayan bir tekniktir.
- Ibatis/MyBatis, 2001
<http://blog.mybatis.org/>
- Hibernate , 2002
<http://hibernate.org/>
- Java Data Objects (JDO) , 2002
<https://db.apache.org/jdo/>
- Java Persistence API (JPA) , 2006
reference implementation ;
<http://www.eclipse.org/eclipselink/>

ORM & JPA & Hibernate



ORM framework(s) in use*



REBEL LABS

* Multiple selections were possible and the results were normalized to exclude non-users

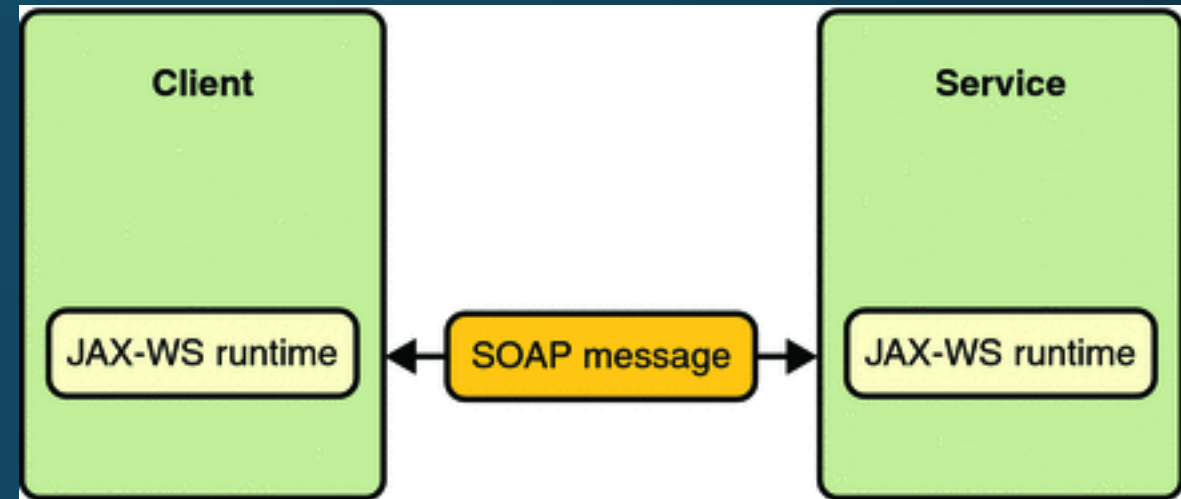
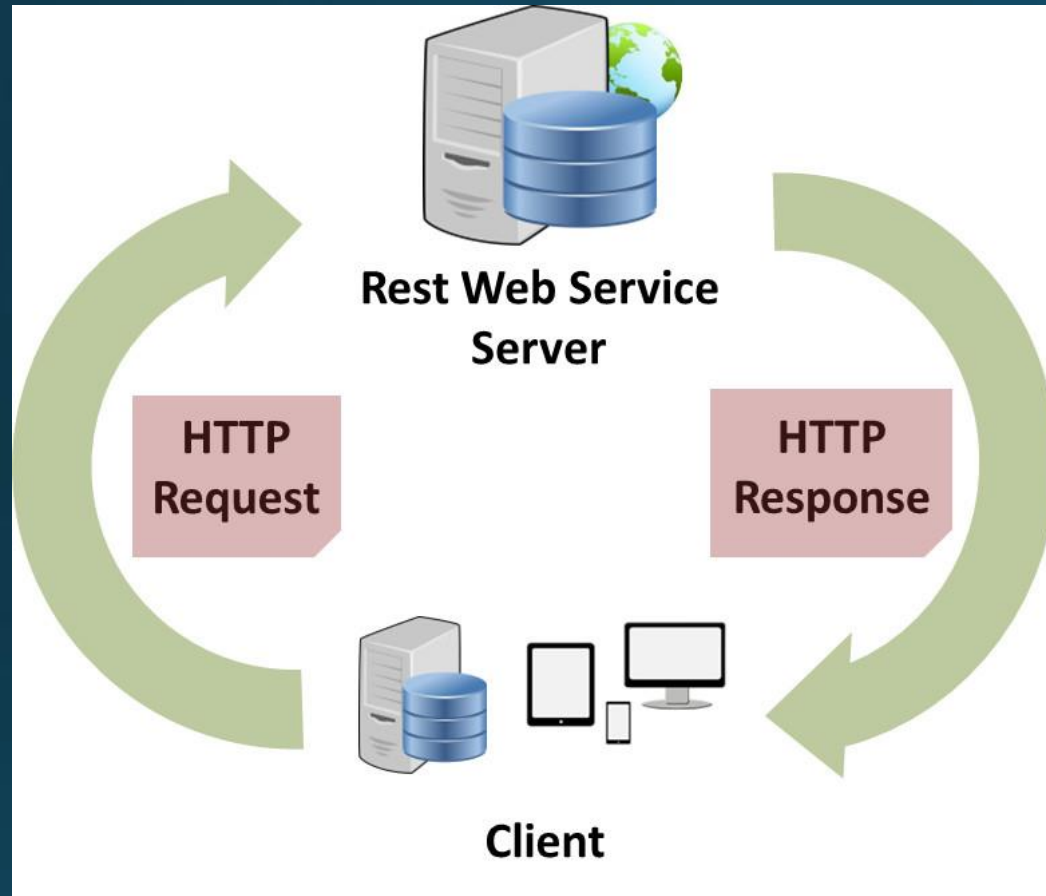
<http://zeroturnaround.com/rebellabs/java-tools-and-technologies-landscape-for-2014/10/>

Web Service

- Web Service'leri farklı uygulamaların birlikte çalışmalarına olanak sağlar. (interoperating)
- Farklı uygulamalar , farklı programlama dilleri ya da frameworklerini kullansalar bile bu birlikte çalışma prensibini
- (interoperating) Web Service'ler ile sağlayabilirler.

JAX-RS , Java API for RESTful Web Services

JAX-WS ,Java API for XML Web Services



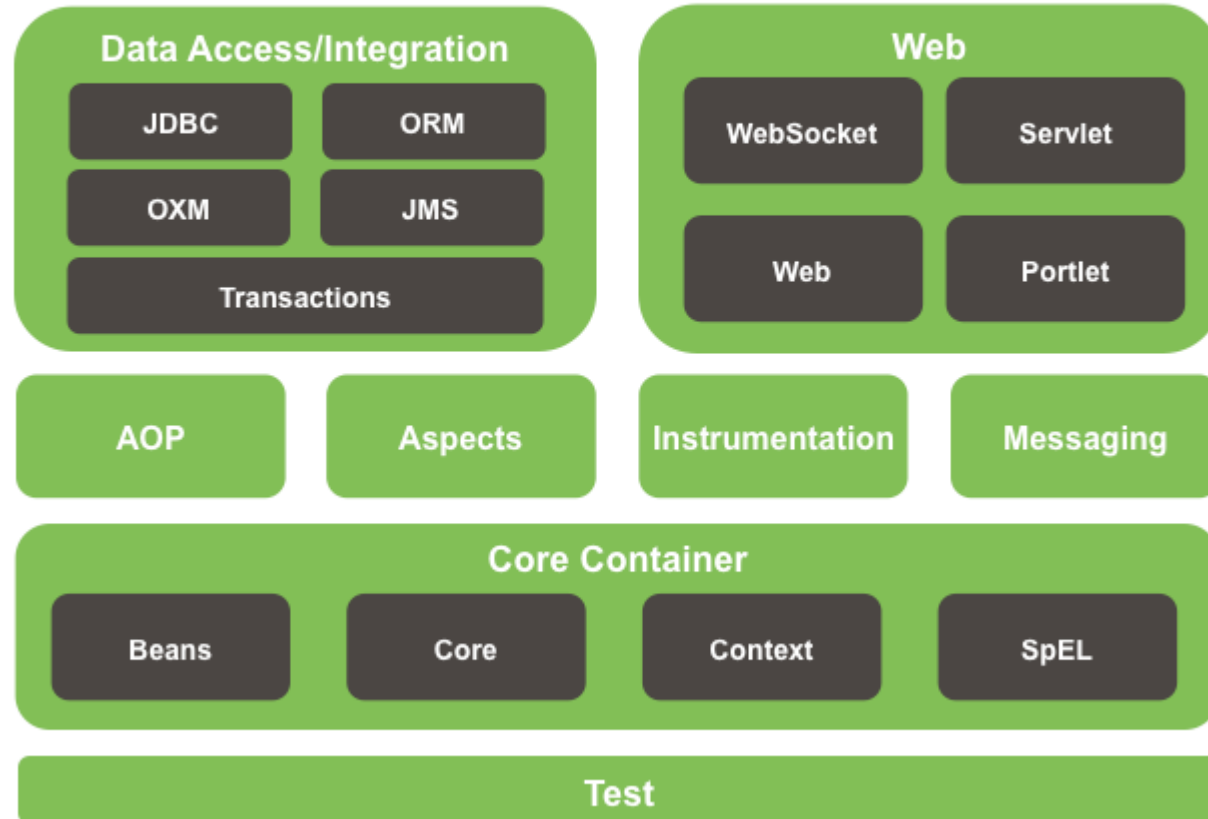
Spring

- Spring , Java uygulamaları (application) geliştirmek için kullanılan lightweight bir frameworktur.
- Rod Johnson , 2002
- Spring simplifies_Java Development !
- Spring , Java EE platformuna karşı alternatif olarak geliştirilmiştir.
- Spring bir çok ürün için entegrasyon desteği sağlar.
- <https://spring.io/projects>

Spring



Spring Framework Runtime



Spring MVC

- Spring MVC , Spring Framework 'un bir modülüdür.
- Web tabanlı projeler geliştirebiliriz.
- Tomcat gibi bir Servlet Container üzerinde çalışabilir.

Rank	Framework	Popularity
1	Spring MVC	32.00
2	JSF	22.30
3	GWT	9.84
4	Spring Boot	9.45
5	Grails	8.50
6	Struts	7.21
7	Play framework	6.00
8	Vaadin	2.75

Here are the services we used for the popularity ranking.

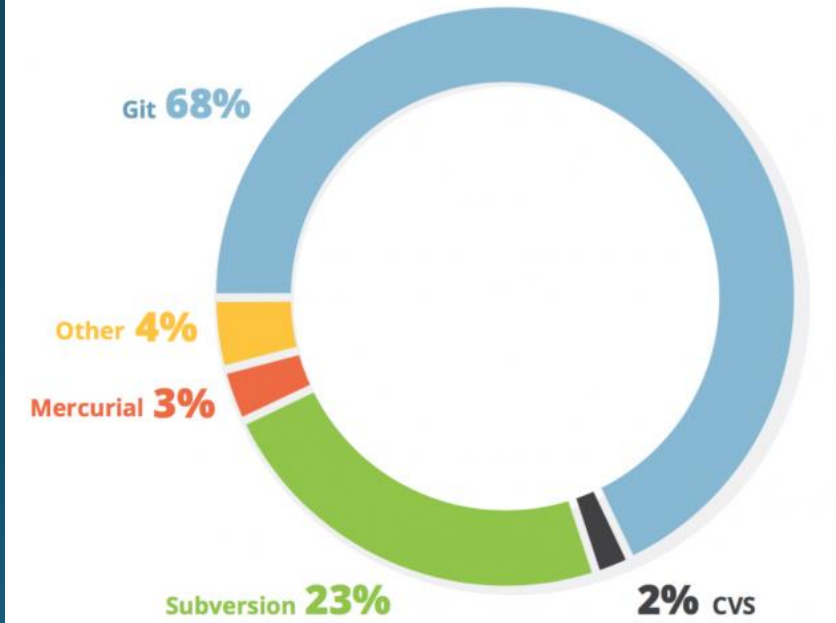
StackOverflow
LinkedIn
GitHub
Google search

<https://zeroturnaround.com/rebellabs/java-web-frameworks-index-by-rebellabs/>

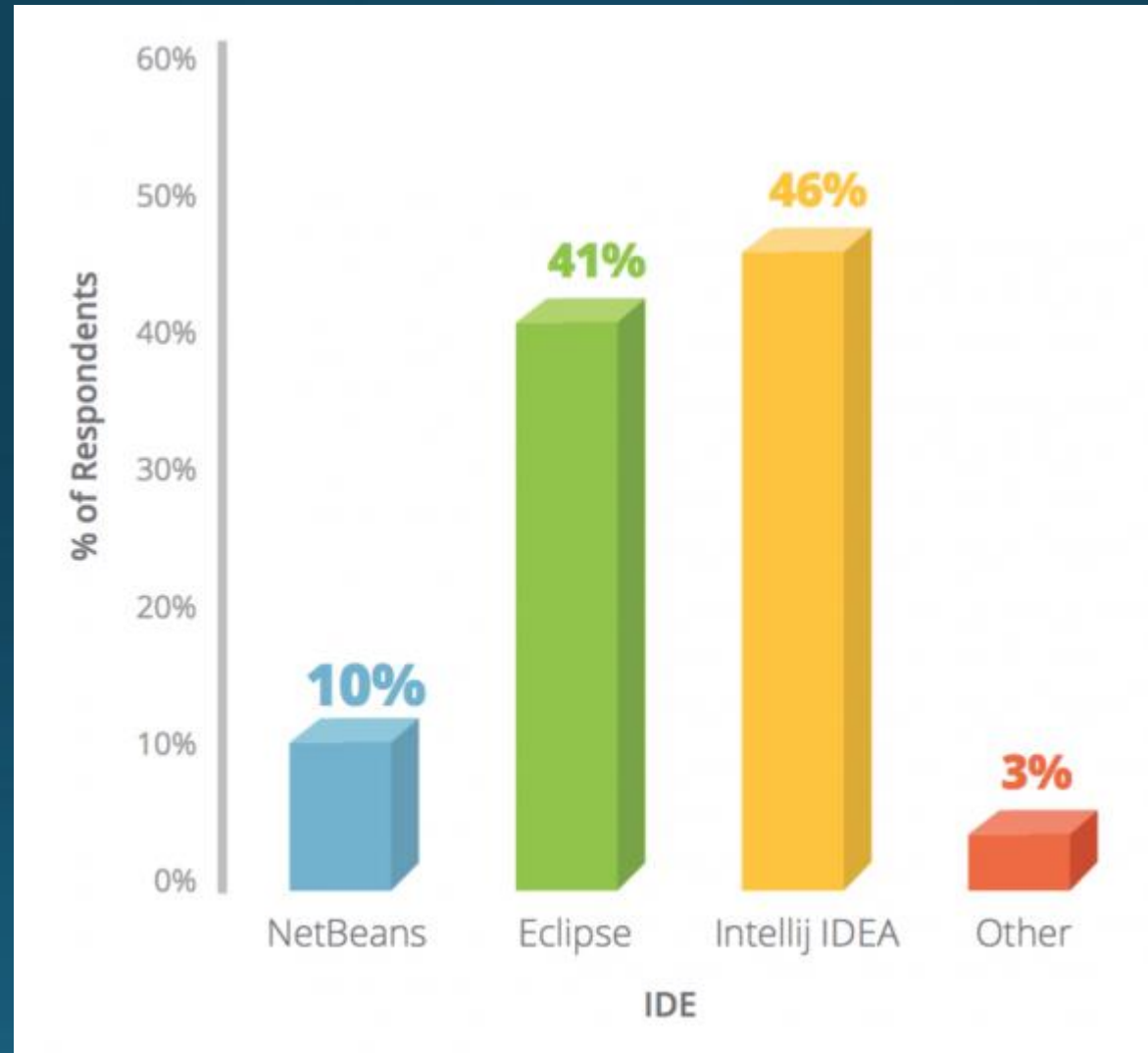
Version Control System

- Takım olarak aynı ürün/proje üzerinde nasıl çalışılıyor ?
- Birlikte nasıl ürün geliştirilir ?

Figure 1.18 Most Commonly Used VCS



IDE (Integrated development environment)



Front End

- Front End de bilmemiz gerekiyor mu ?
- Full Stack Developer



Neden sizi iŖe alalım ?

- Motivasyon
- Performans
- Problem çözüme
- Takım oyuncusu olmak
- İŖ bitiricilik
- Kurum kültürüne uyum sağlamak
- İŖi sahiplenmek
- Sorumluluk sahibi olmak
- Deęer katmak








Talk is cheap. Show me the code.

— *Linus Torvalds* —

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