Java overview

27 October, 2017

About me

Artem Vegera
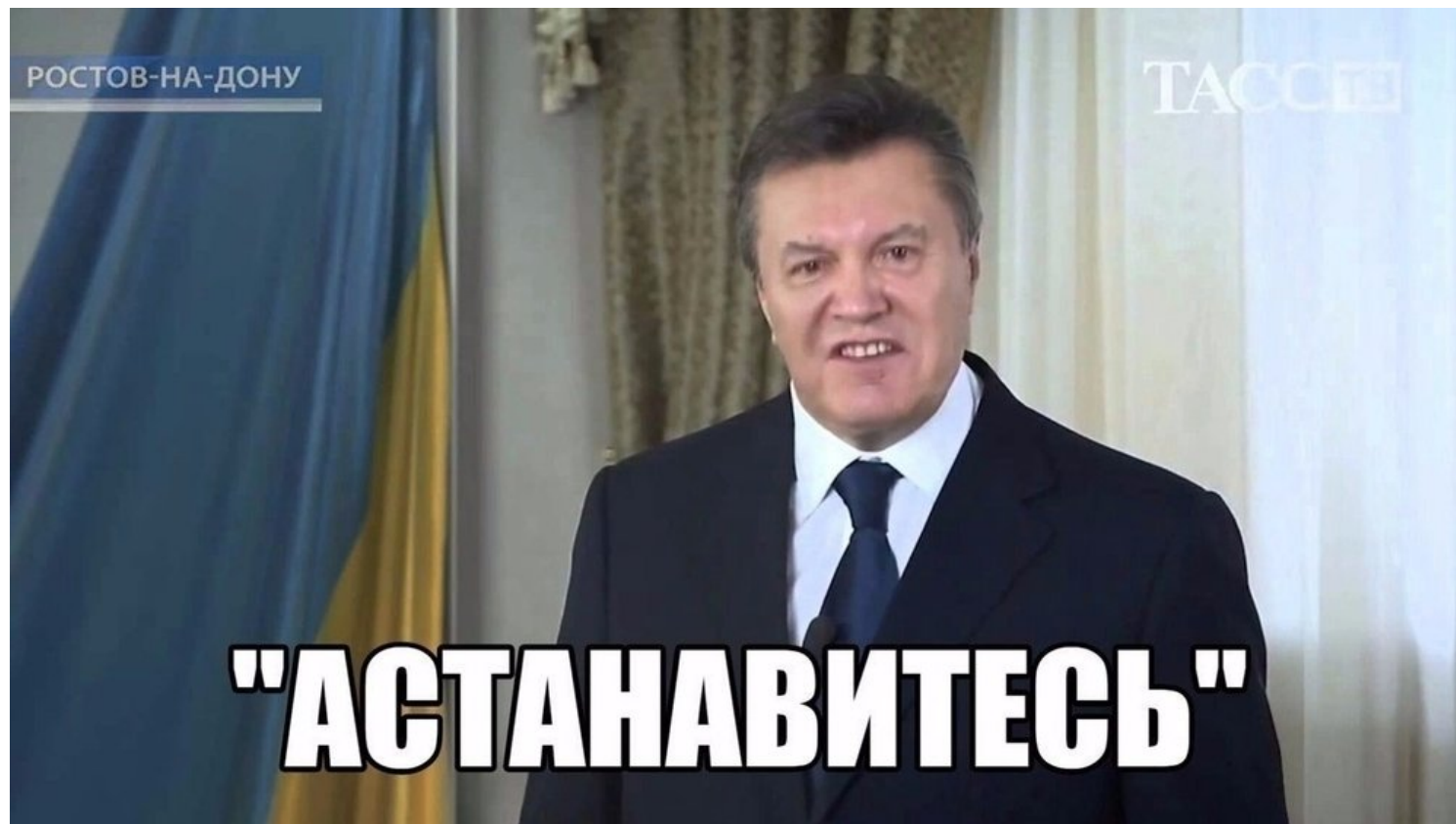
7 years work in IT

Senior Java Developer

Goals

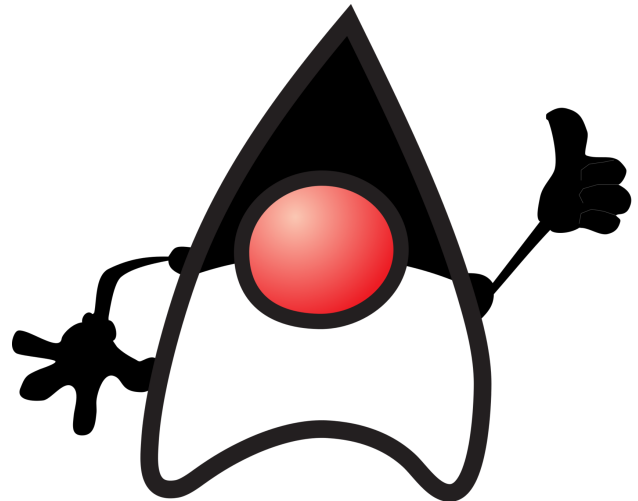- Subject
- Motivation
- Education
- Career

About IT

I. Java

What is Java?

- Programming language
- Software platform
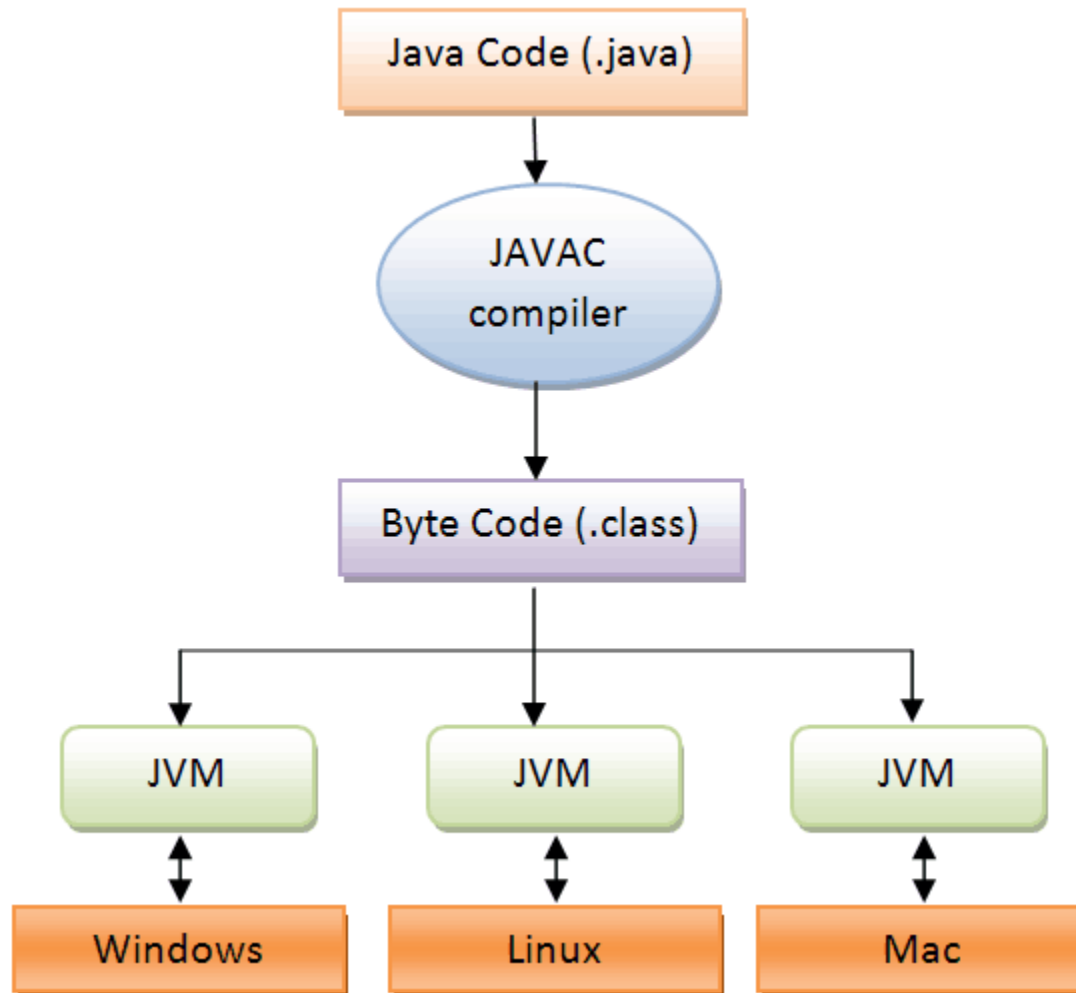
Who makes Java?

Platform:

1995

2010

Specifications:

1998

How JVM works?

Programming language

- Java SE
- Java EE
- Java ME
- Java Card

Java SE

```java
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello World!");
    }
}
```

Java EE

Java EE 8

Batch	Dependency Injection	JACC	JAXR	JSTL	Management
Bean Validation	Deployment	JASPIC	JMS	JTA	Servlet
CDI	EJB	JAX-RPC	JSF	JPA	Web Services
Common Annotations	EL	JAX-RS	JSON-P	JavaMail	Web Services Metadata
Concurrency EE	Interceptors	JAX-WS	JSP	Managed Beans	WebSocket
Connector	JSP Debugging	JAXB			
JSON-B	Security				

Pros

- Cross-Platform
- Garbage collection
- Performance
- Web-development
- Concurrency

Cons

- Entry treshold (years)
- Expressiveness
- Legacy support

Comparison with .NET
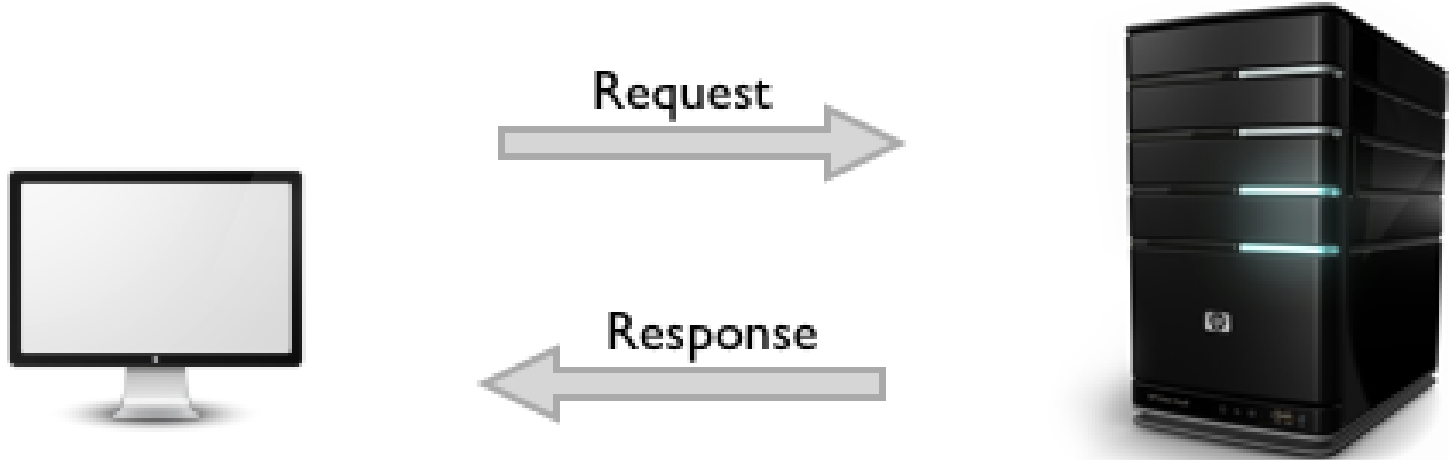
- JVM vs. CLR
- Java vs. C#

Tools

II. Motivation

Where Java is used?

- Desktop applications
- Web-development
- Enterprise (finances, trading, health care)
- Mobile
- Big Data
- Internet Of Things
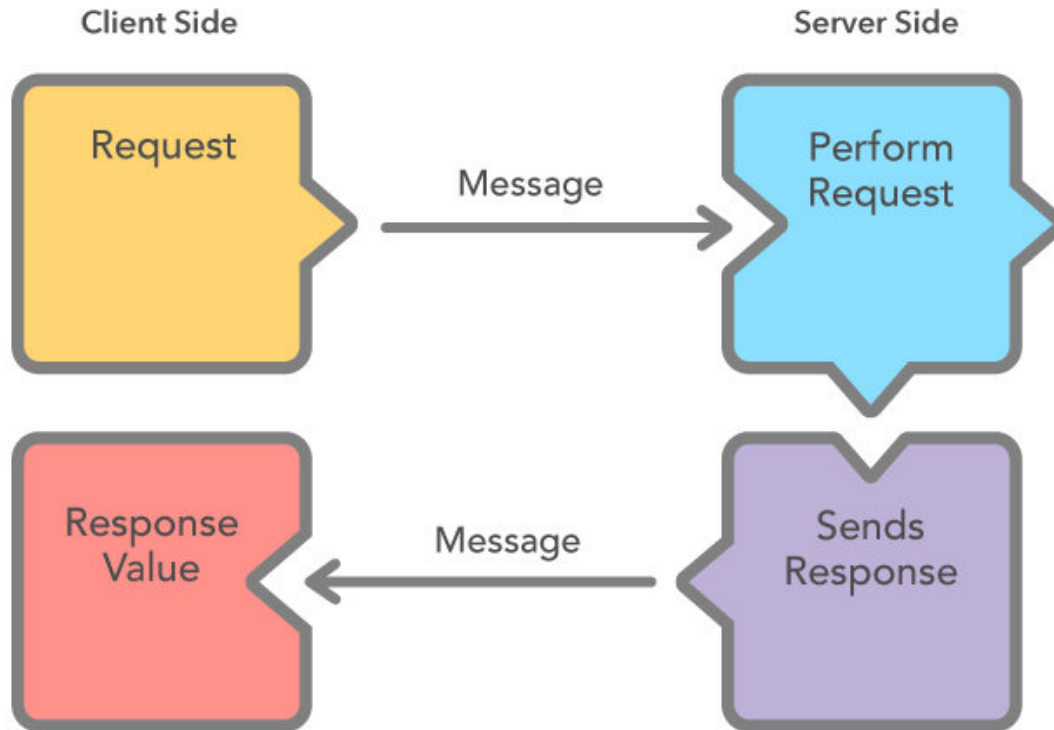- JVM-languages (Kotlin, Scala, Ggroovy)
- etc.

Client Server Architecture

Web-development

Request / Response

Client Side

Server Side

Request

Message

Perform Request

Response Value

Message

Sends Response

Mobile development

Why Java?

5 million
students study java

10 million
Java developers worldwide

15 billion
devices run Java

#1 platform
for development in the cloud

Money motivation

СКОЛЬКО ТЫ ЗАРАБАТЫВАЕШЬ?

III. Education

Is it really my way?

Learning plan

Java Basics

НАСТРОЙКА ОКРУЖЕНИЯ (кликни на меня) ▾

ЗНАКОМСТВО С ЯЗЫКОМ JAVA ▾

АЛГОРИТМЫ, РЕКУРСИЯ, МАТРИЦЫ ▾

Java OOP

ООП ▾

ТИПЫ ДАННЫХ ▾

ПАМЯТЬ ▾

COLLECTIONS ▾

EXCEPTIONS ▾

МНОГОПОТОЧНОСТЬ ▾

JAVA I/O ▾

Java EE/WEB

Работа с базами данных. JDBC. SQL. ▾

Автоматическая сборка проектов Maven
Сервер приложений Tomcat
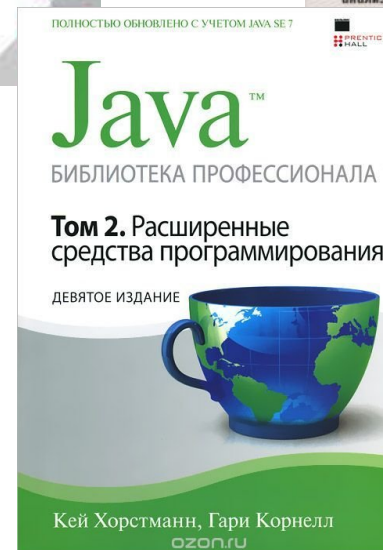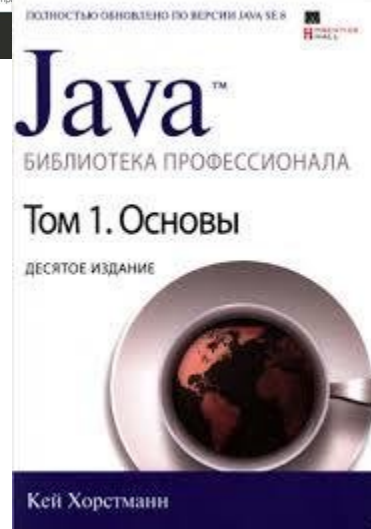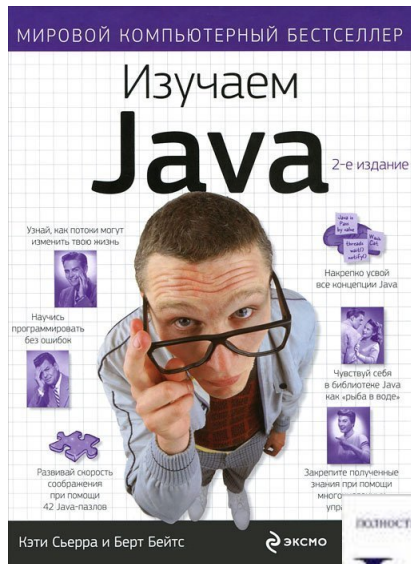*nix Shell
▾

Java Web basics: Servlets/JSP/HTML ▾

Фреймворки Spring: IoC(Core), MVC
Технологии ORM: JPA, Hibernate
Работа с XML. ▾

WebServices/Rest/JSON ▾

JavaScript/AJAX ▾

РЕКРУТИНГ / РЕЗЮМЕ / СОБЕСЕДОВАНИЯ ▾

Books

Courses

- GSU courses
- Epam trainings

Online courses

- javarush.ru
- stepik.org
- youtube.com

What's next?

- Interview
- Intership
- Open source

Career

- Junioir
- Middle
- Senior
- Team Lead

Soft skills

- English
- Time
- Every-day work

In the end

Thank you for attention