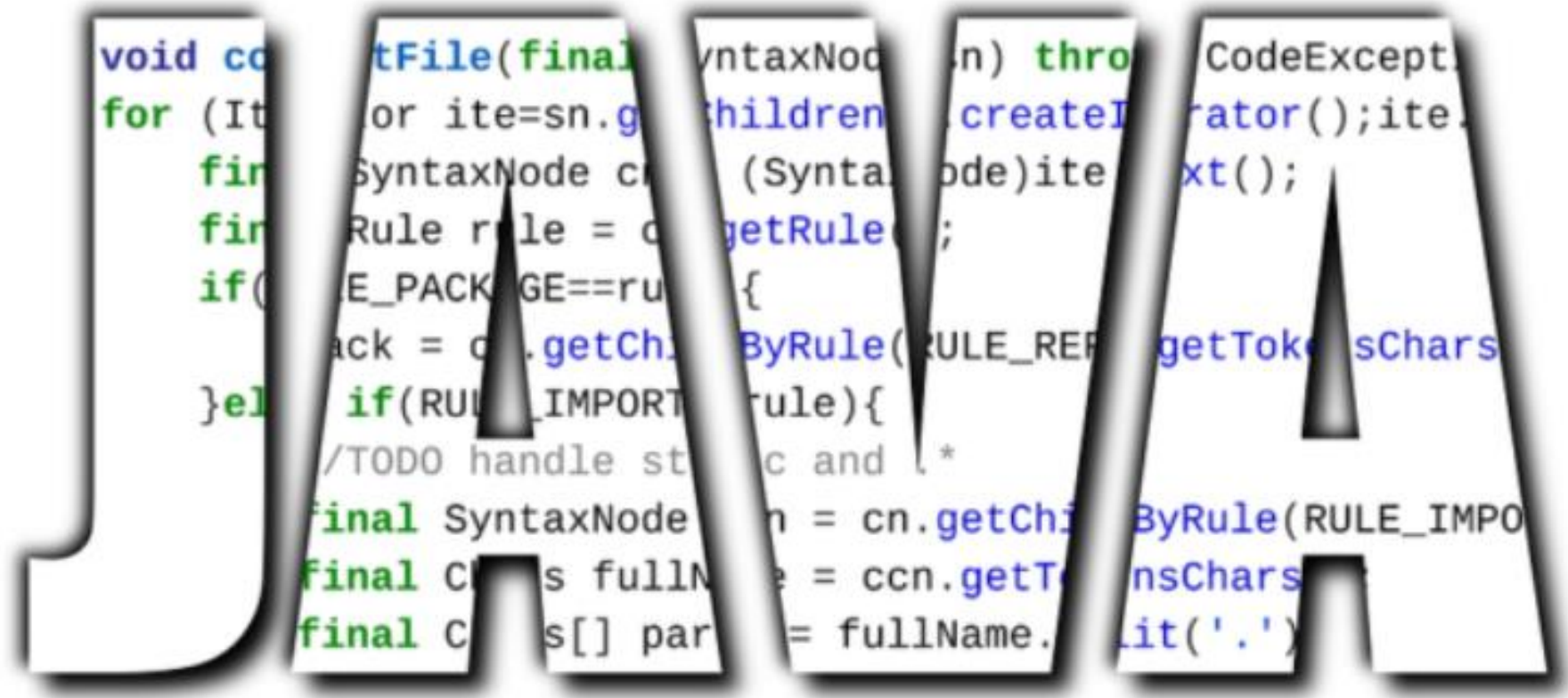


# ПРИЛОЖНО ПРОГРАМИРАНЕ на JAVA

лектор: доц. д-р Мария Маринова



- Java е обектно-ориентиран
- работи чрез виртуална машина
- има широко приложение и развитие на Android
- предлага достъпни “open source” библиотеки за девелопъри, които се нуждаят от готови кодове или допълнителна информация

**JAVA ?**

**History**

Компилиране

Изпълнение

Независим от  
хардуера

**JVM**

**Java SE**

# Какво е Java ?

- General-purpose
- Object-oriented
- Platform independent
- Concurrent
- Very fast

**Write Once Run Anywhere (WORA)**

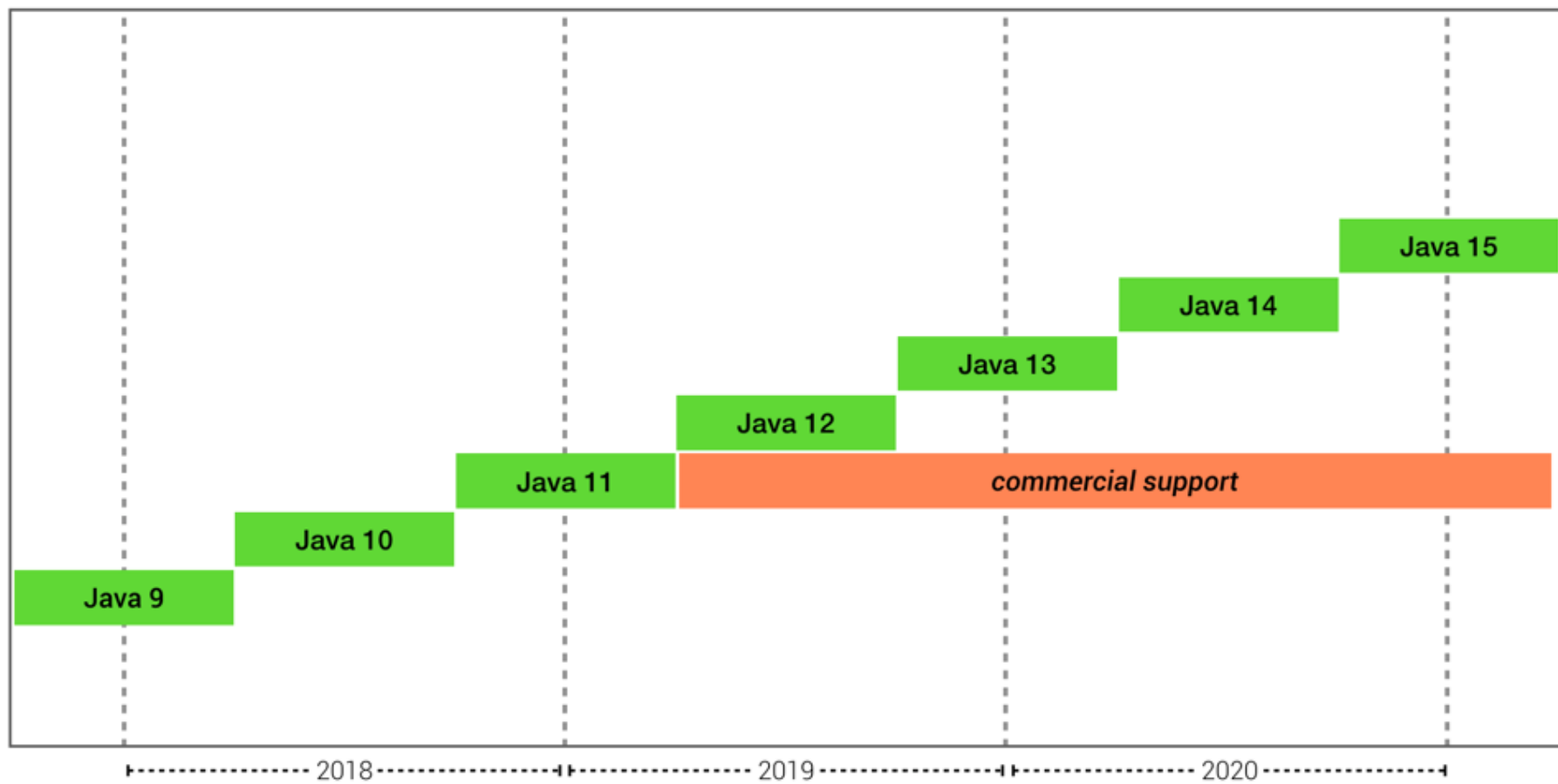
# Предимства на е Java?

- Използва вече познатия синтаксис от други езици;
- Изчистен и лесен за използване:
  - Автоматично се заделя и освобождава памет
- Защитен

# Съкратени имена на дистрибуции на Java

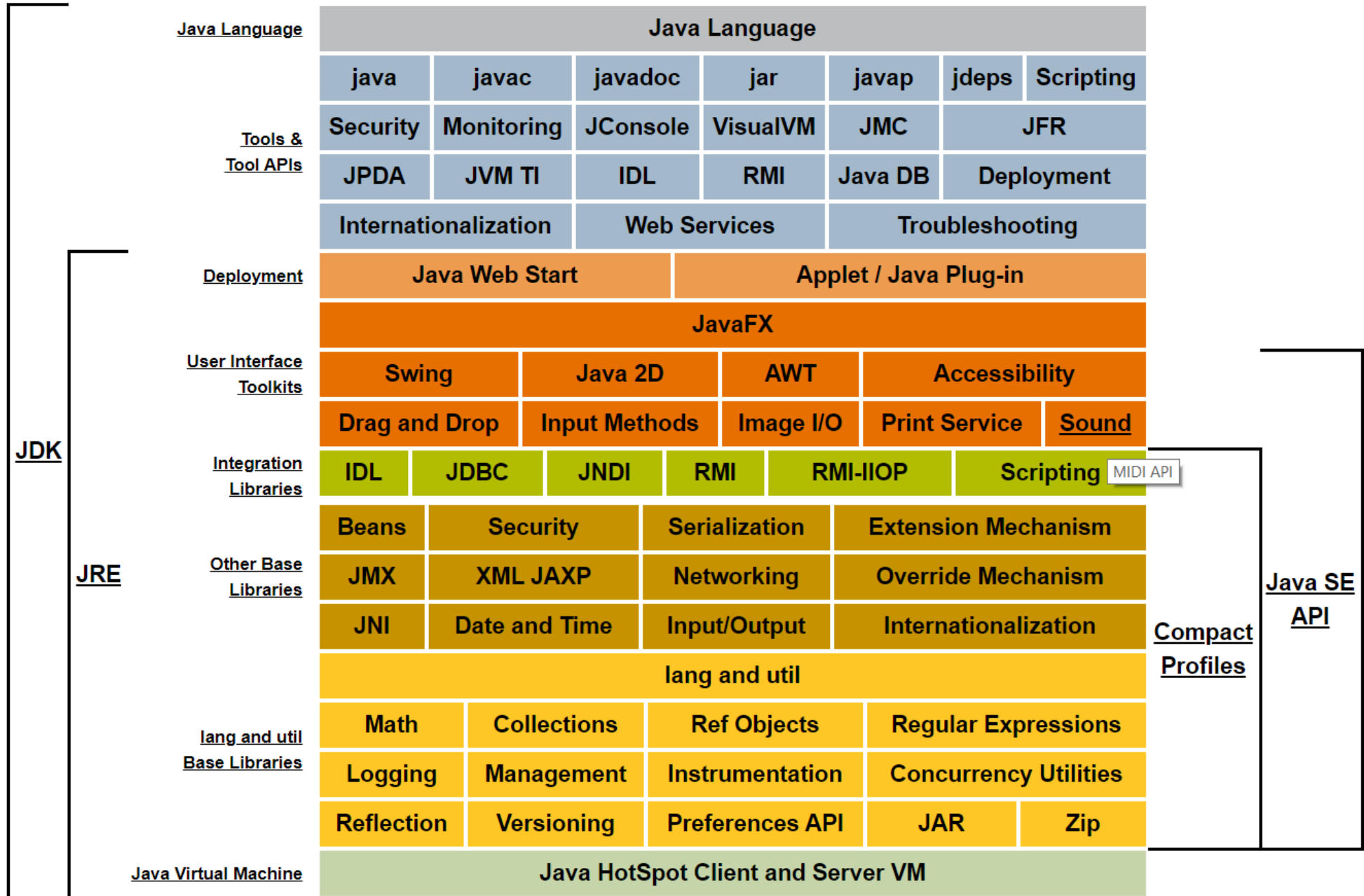
Official Release Name	Nickname
JDK 1.0.x	Java 1.0
JDK 1.1.x	Java 1.1
Java 2 Platform, Standard Edition, v1.2	Java 2
Java 2 Platform, Standard Edition, v1.3	Java 3
Java 2 Platform, Standard Edition, v1.4	Java 4
Java 2 Platform, Standard Edition, v5.0	Java 5
Java Platform, Standard Edition 6	Java 6
Java Platform, Standard Edition 7	Java 7
Java Platform, Standard Edition 8	Java 8
Java Platform, Standard Edition 9	Java 9

Version	Year	New Language Features	Number of Classes and Interfaces	
1.0	1996	The language itself	211	
1.1	1997	Inner classes	477	
1.2	1998	The <code>strictfp</code> modifier	1,524	
1.3	2000	None	1,840	
1.4	2002	Assertions	2,723	
5.0	2004	Generic classes, “for each” loop, varargs, autoboxing, metadata, enumerations, static import	3,279	Switch with strings, diamond operator, binary literals, exception handling enhancements
				8 2014Lambda expressions, interfaces with default methods, stream and date/time libraries4,240
6	2006	None	3,793	
7	2011		4,024	9 2017Modules, miscellaneous language and library enhancementslan-6,005





Oracle Java SE Support Roadmap <sup>*†</sup>				
Release	GA Date	Premier Support Until	Extended Support Until	Sustaining Support
6	December 2006	December 2015	December 2018	Indefinite
7	July 2011	July 2019	July 2022 <sup>*****</sup>	Indefinite
8 <sup>**</sup>	March 2014	March 2022	March 2025	Indefinite
9 (non-LTS)	September 2017	March 2018	Not Available	Indefinite
10 (non-LTS)	March 2018	September 2018	Not Available	Indefinite
11 (LTS)	September 2018	September 2023	September 2026	Indefinite
12 (non-LTS)	March 2019	September 2019	Not Available	Indefinite
13 (non-LTS)	September 2019 <sup>***</sup>	March 2020	Not Available	Indefinite



# Who is Using it?



amazon.com

ebay

(Open Source)



Mars Rover Spirit

# Motivation



**1991**

**The  
Green  
Team**

A blue, cloud-like thought bubble with a small tail pointing towards the bottom left.

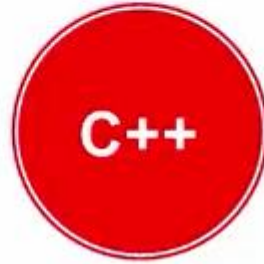
**Next Wave  
in  
Computing?**

# Цели

- Да консумира по-малко памет
- Да предоставя готови библиотеки със софтуерни компоненти
- Да осигури сигурност
- Да поддържа multithreading

# Birth of Java

Since 1995, Java has changed our world . . . and our expectations..



(Oak)



James Gosling

# \*7 & Initial Failure ...

gosling star7



Sep. 92

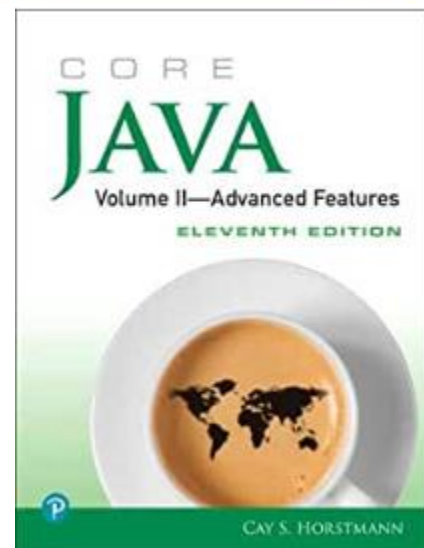
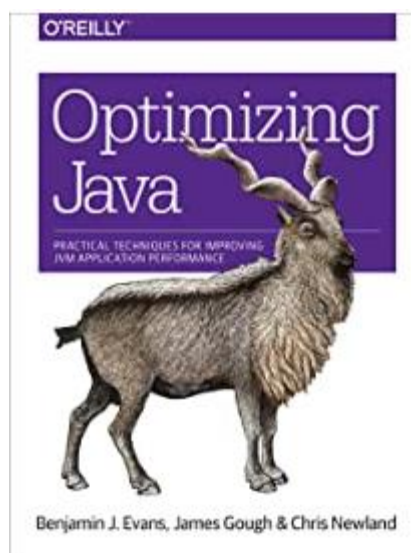
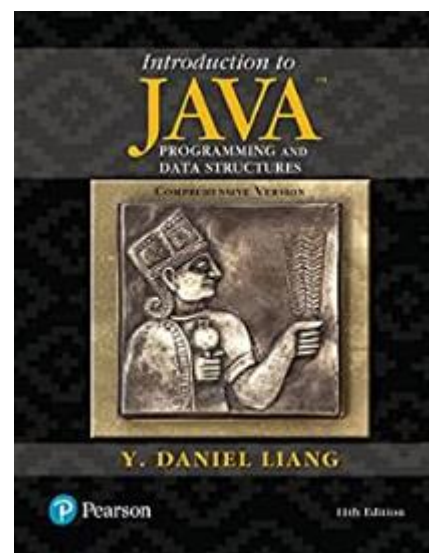
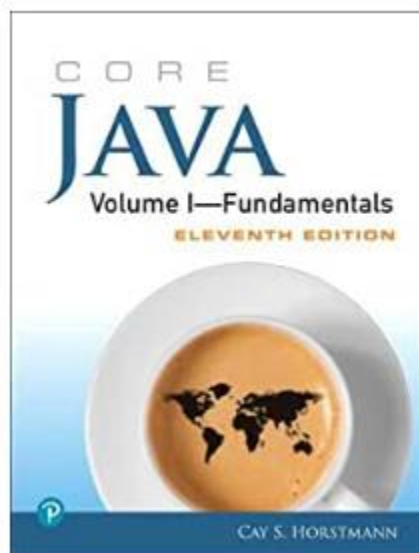
**Cable TV Industry – *Not Interested!***

# Java среща WWW

- Pre-Java – Static HTML
- HotJava browser:
  - HTML + applets – dynamic
  - Java се инсталира в browser
  - Аплетите са платформено независими
- Netscape Navigator - 1996



# Препоръчителна литература:



- <https://docs.oracle.com/javase/tutorial/>
- [https://education.oracle.com/oracle-certified-professional-java-se-11-developer/trackp\\_815](https://education.oracle.com/oracle-certified-professional-java-se-11-developer/trackp_815)