

Agenda

- . Agile
- . Git
- . About JAVA
- . JAVA Installation
- . Integrated Development Environment (IDE)
- . JDK, JVM, JRE
- . JAR, WAR, EAR
- . Data Types.
- . Literals *
- . Operators *

Agile

- ★ What is Agile
- ★ What is SCRUM
- * Benefits of Agile
- What is User Story
- * What is Acceptance Criteria
- * What is Scrum Master
- ★ What is Product Owner

Scrum is used for team Lunch - True/False

★ In one scrum team more then one scrum master may exist - True/False

Scrum meeting can be organised twice a day - True/False

User Story can not be divide in to sub-task - True/False

Quiz (Answer) -Agile

- Scrum is used for team Lunch False
- ★ In one scrum team more then one scrum master may exist False
- Scrum meeting can be organised twice a day False
- User Story can not be divide in to sub-task False

Git

- What is Git
- ★ Life Cycle of Git
- * Benefits of Git
- What is Build
- What is Code Review
- ★ What is Pull, Push & Commit
- ★ What is Branching

Git is version controls system - True/False

Git is repository - True/False

Git clone does not create a copy of code - True/False

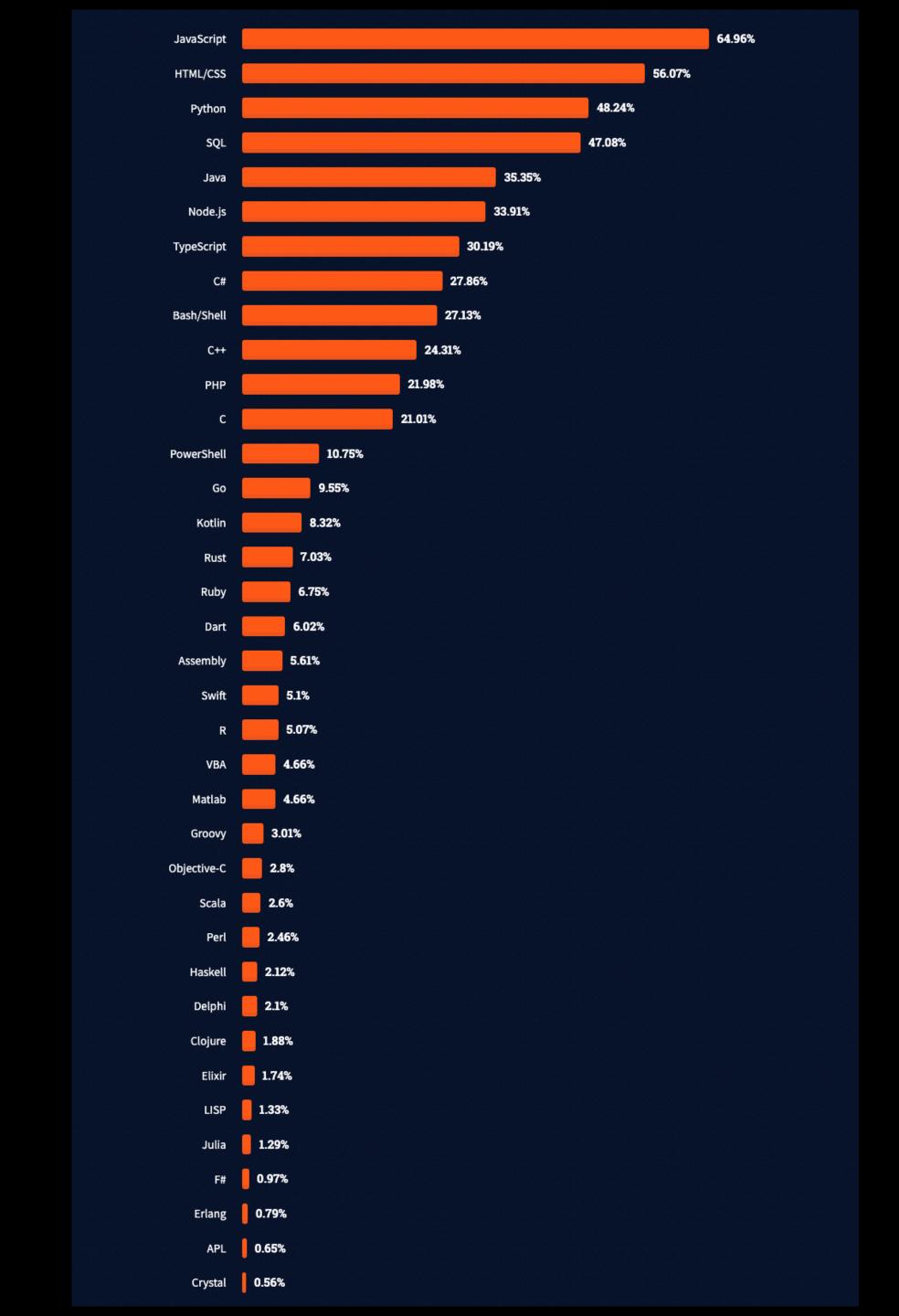
"Git status" will tell you if your code is updated or not - True/False

Quiz (Answer): Git

- ★ Git is version controls system True
- Git is repository True
- Git clone does not create a copy of code -False
- "Git status" will tell you if your code is updated or not True

About JAVA

https://en.wikipedia.org/wiki/Java_version_history



Installation

JAVA 8 Installation

Download Link https://www.oracle.com/java/technologies/javase/javase8u211-later-archive-downloads.html

Integrated Development Environment (IDE)

- * Eclipse*
- MyEclipse
- ★ IntelliJ
- NetBeans Etc....

Eclipse IDE for Enterprise Java and Web Developers

509 MB 454,233 DOWNLOADS



Tools for developers working with Java and Web applications, including a Java IDE, tools for JavaScript, TypeScript, JavaServer Pages and Faces, Yaml, Markdown, Web Services, JPA and Data Tools, Maven and Gradle, Git, and more.



Windows x86 64 macOS x86_64 | AArch64 Linux x86_64 | AArch64

Click here to file a bug against Eclipse Web Tools Platform.

Click here to file a bug against Eclipse Platform.

Click here to file a bug against Maven integration for web projects.

Click here to report an issue against Eclipse Wild Web Developer (incubating).

Eclipse: 2021-12 (4.22.0) Platform Runtime Binary

https://www.eclipse.org/downloads/packages/release/2021-12/r

JAR, WAR, EAR

- ★ JAVA Archive File (JAR): It Contain group of ".class" file
- Web Archive File (WAR): It represent a web application which may contain Servlet, JSP,HTML,CSS, JS etc...
- **EAR (Enterprise Archive File):** It represent an enterprise application which may contain Servlet , JSP , EJB,JNS component etc...

- * Which of the following is usually not part of EAR File
 - a. Server Configuration File
 - b. HTML, JSP File
 - c. Application configuration file
 - d. Class file

★ JAR file allow JAVA Runtime Environment(JRE) to deploy an entire application including class file.

TRUE / FALSE

To deploy WAR file web server required.

TRUE / FALSE

To deploy EAR file Application server required.

TRUE / FALSE

Quiz (Answer) - JAR, WAR, EAR

Which of the following is usually not part of EAR File a. Server Configuration File

★ JAR file allow JAVA Runtime Environment(JRE) to deploy an entire application including class file.

TRUE

To deploy WAR file web server required. TRUE

To deploy EAR file Application server required. TRUE

Web Server, Application Server

Web ServerApache Tomcat

Application Server

JBoss

Oracle WebLogic

IBM WebSphere

Etc....

JDK, JRE, JVM



JDK, JRE, JVM

★ JDK (JAVA Development Kit)

To develop & run java application

★ JRE (JAVA Runtime Environment)

To run java application

★ JVM (JAVA Virtual Machine)

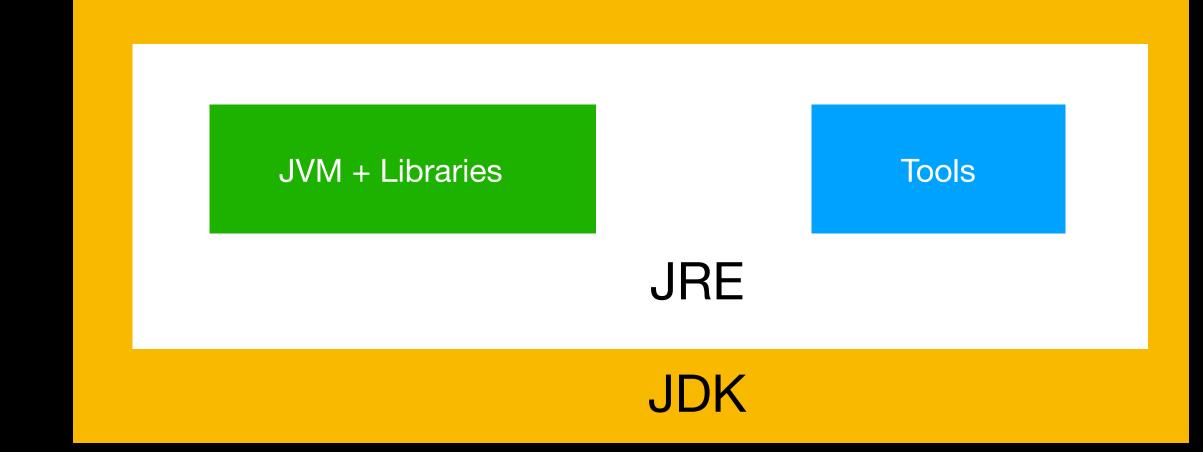
This machine is responsible to execute the JAVA program



JDK, JRE, JVM

- ★ JRE = JVM + Libraries

JRE = JVM + Libraries+ TOOLS



Quiz - JDK, JRE, JVM

- JDK = JRE + ?
- ? = JVM + Libraries
- 3. Minimum Requirement to Run JAVA Program
- 4. Minimum Requirement to develop the JAVA Program .

Quiz (Answer)- JDK, JRE, JVM

- JDK = JRE + Tools
- 2 JRE = JVM + Libraries
- 3. Minimum Requirement to Run JAVA Program JRE

JDK

4. Minimum Requirement to develop the JAVA Program

Interview Question - JDK, JRE, JVM

- What is difference between JDK , JRE, JVM
- 2. How to create the executable jar
- 3. What is the purpose of JAR file
- JAVAC is used for