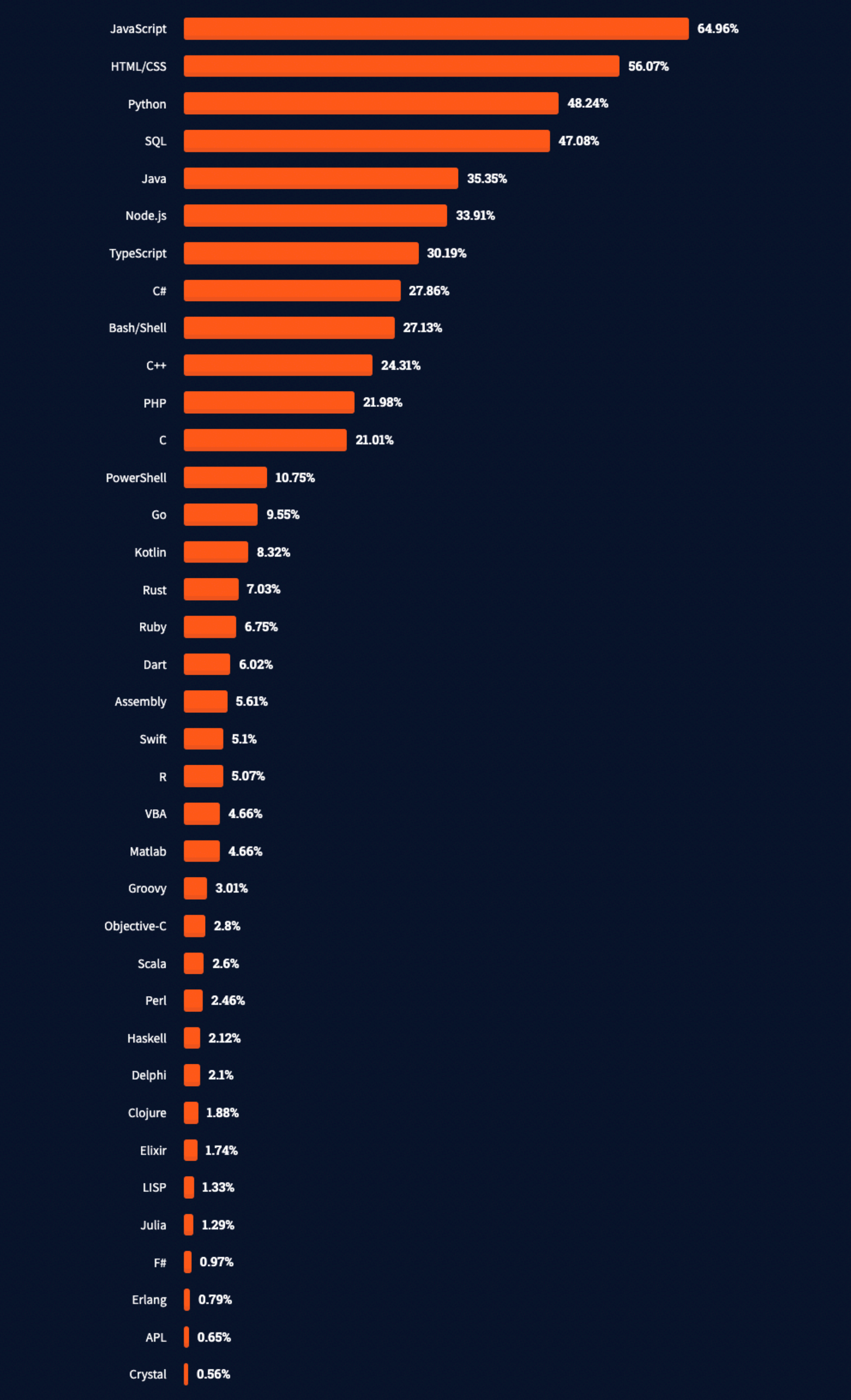


Day-1

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
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Integrated Development Environment (IDE)

★ Eclipse*

★ MyEclipse

★ IntelliJ

★ NetBeans Etc....

Eclipse : 2021-12 (4.22.0) Platform Runtime Binary	https://archive.eclipse.org/eclipse/downloads/drops4/R-4.22-202111241800/
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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...

Quiz - JAR , WAR , EAR

★ 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

Quiz - JAR , WAR , EAR

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

TRUE / FALSE

Quiz - JAR , WAR , EAR

★ To deploy **WAR** file web server required .

TRUE / FALSE

Quiz - JAR , WAR , EAR

★ 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 Server

Apache 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

- ★ $\text{JDK} = \text{JRE} + \text{TOOLS}$
- ★ $\text{JRE} = \text{JVM} + \text{Libraries}$
- $\text{JRE} = \text{JVM} + \text{Libraries} + \text{TOOLS}$



Quiz - JDK, JRE , JVM

1. **JDK = JRE + ?**

2. **? = JVM + Libraries**

3. **Minimum Requirement to Run JAVA Program**

.....

4. **Minimum Requirement to develop the JAVA Program**

.....

Quiz (Answer)- JDK, JRE , JVM

1. **JDK = JRE + Tools**

2. **JRE = JVM + Libraries**

3. **Minimum Requirement to Run JAVA Program**

JRE

4. **Minimum Requirement to develop the JAVA Program**

JDK

Interview Question - JDK, JRE , JVM

1. What is difference between JDK , JRE, JVM

2. How to create the executable jar

3. What is the purpose of JAR file

4. JAVAC is used for