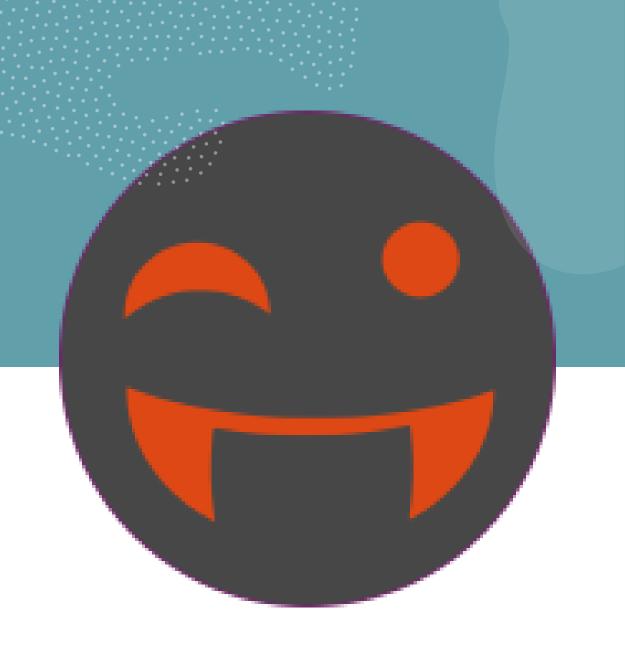
Chapter 8

Install Java

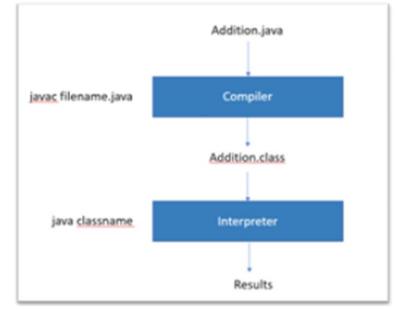


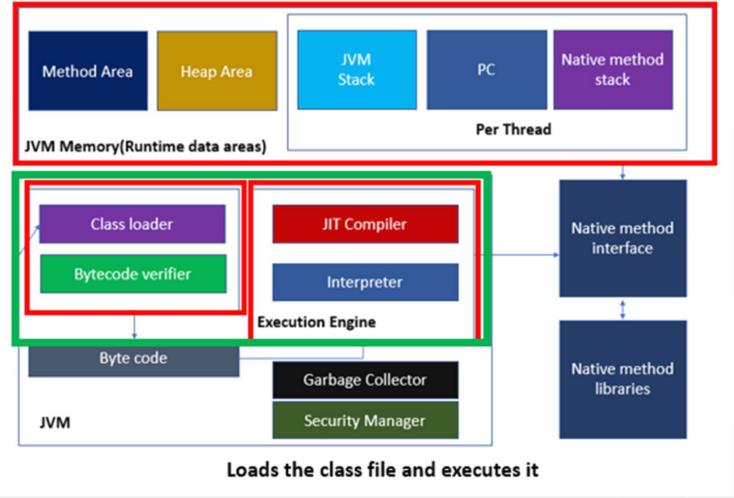
Other courses in our channel

- C 18 Hours Full course: https://youtu.be/3JF7ndGauZk
- Python 11 hours complete course: https://youtu.be/hXN0JBWlya8
- 20 Programs for interview: https://youtu.be/16MFbFib7v8
- What is programming: https://youtu.be/UGfuscUWi-E
- Java in 10 minutes: https://youtu.be/cM82gnE TPc
- Git Telugu course: https://youtu.be/LIhE7L E6M
- Git English course: https://youtu.be/aysYDoEH-54
- THIML Full course Telugu: https://youtu.be/6P6yillxZY4



- 2. Runtime data areas
- 3. Execution Engine





JDK (Java Development Kit)

Install Java

To Develop applications

- 1. Desktop GUI Applications
- 2. Mobile Applications
- 3. Enterprise Applications
- 4. Scientific Applications
- 5. Web-based Applications
- 6. Embedded Systems
- 7. Big Data Technologies
- 8. Distributed Applications
- 9. Cloud-based Applications
- 10. Web servers and Application servers
- 11. Software Tools
- 12. Gaming Applications



9

1 2 3

sec

0 = +

Java Platforms/Editions

CORE JAVA

Java SE

- Java Standard Edition
- J2SE
- Stand alone applications for desktops & servers

Java EE

- Java Enterprise Edition
- J2EE
- Large scale applications

Java ME

- Java Micro Edition
- J2ME
- Applications on small devices like mobile phones

JavaFX

- Java Special Effects
- Graphics and media
- Modern look and feel

Java Platforms / Editions

Java SE

- Java Standard Edition
- J2SE
- Stand alone applications for desktops & servers
- Java EE
 - Java Enterprise Edition
 - J2EE
 - Large scale applications
- Java ME
 - Java Micro Edition
 - J2ME
 - Applications on small devices like mobile phones
- JavaFX
 - Java Special Effects
 - Graphics and media
 - Modern look and feel

Let us Install JDK

Specifications

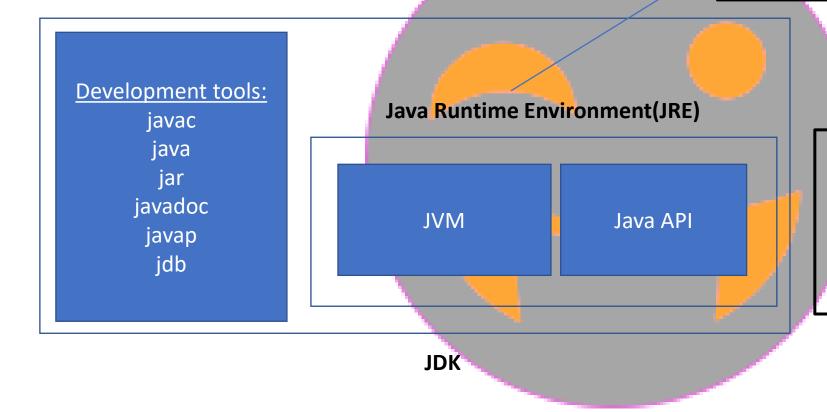


- 1. Java Language Specification (JLS)
 - Rules(Syntax and semantics)
- 2. Java Virtual Machine Specification (JVMS)
 - How a JVM should work, byte code instruction set
- 3. Java API Specification
 - Java library specifications

Implementations JDK (Java Development Kit)

- 1. Oracle JDK
 - Free for learning, Paid for commercial purpose
- 2. Oracle OpenJDK
 - Free even for commercial purpose
- 3. Adopt Open**JDK**
 - Free
- 4. Red Hat's Open **JDK**
 - Free
- 5. IBM J9, Azul Zulu, Azul Zing

JDK (Java Development Kit) – What a JDK contain?



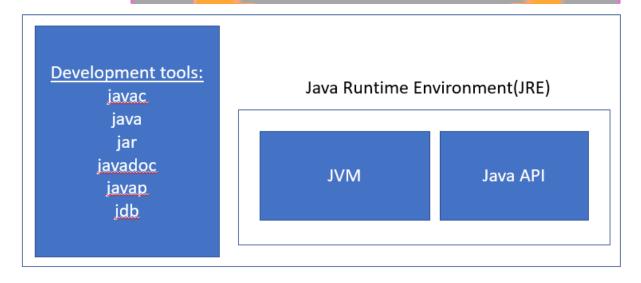
So, we need JDK in order to develop a Java application and all of the different JDK's available are developed from the same source called open JDK(open source)

applications

NOTE: Oracle used to provide separate JRE folder till Java 8 (1.8) but from Java 11 onwards a concept of <u>ilink</u> was introduced using which we create custom JRE's which are smaller in size.

(V. IMP) Difference between JDK, JVM and JRE

JDK	JRE	JVM
Java Development Kit	Java Runtime Environment	Java Virtual Machine
Used to develop java applications	Used to run java applications	Executes java byte code
JDK contains JRE	JRE contains JVM and is part of JDK	JVM is part of JRE



Let's install JDK

- Oracle JDK Free for learning, Paid for commercial purpose
- Open JDK Total Free (Even for commercial purpose)

Install JDK Set path

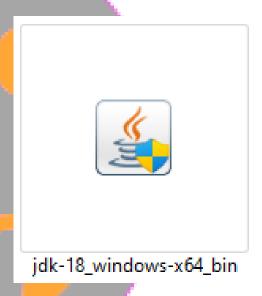
Optional

Let's look at the current Java version

https://en.wikipedia.org/wiki/Java version history

Before installing JDK, let's check if you already have it installed

- Open command prompt
- javac -version
- java -version

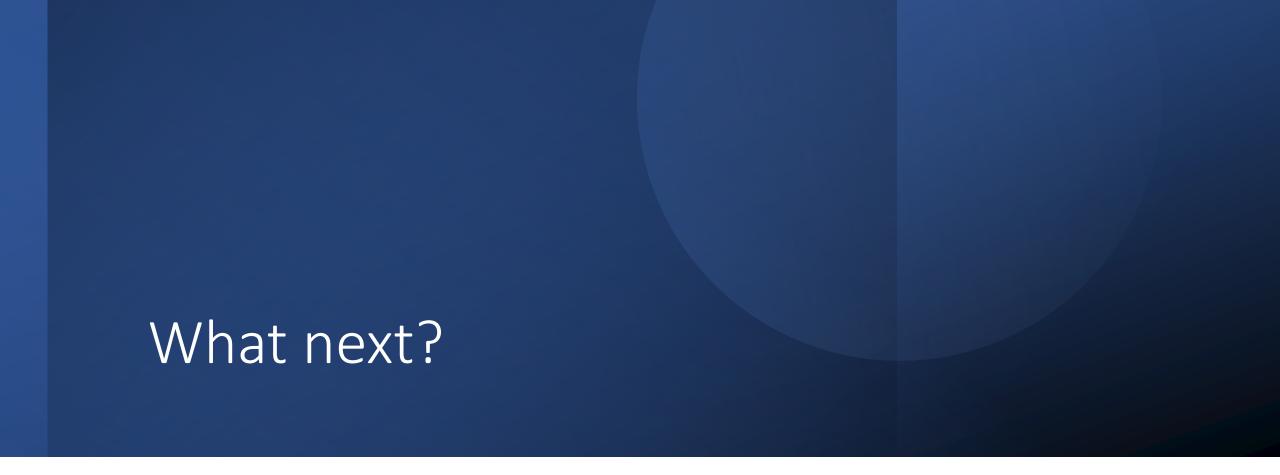


Let's Install Java (JDK)

Set the path

- Setting path is optional (In order to use all the development tools)
- Path will be set automatically in order to ease developer





Write your first Java application



చిన్న బ్రేక్ చిటికలో వచ్చేస్తా

Other courses in our channel

- C 18 Hours Full course: https://youtu.be/3JF7ndGauZk
- Python 11 hours complete course: https://youtu.be/hXN0JBWlya8
- 20 Programs for interview: https://youtu.be/16MFbFib7v8
- What is programming: https://youtu.be/UGfuscUWi-E
- Java in 10 minutes: https://youtu.be/cM82qnE TPc
- Git Telugu course: https://youtu.be/LIhE7L E6M
- Git English course: https://youtu.be/aysYDoEH-54
- THIML Full course Telugu: https://youtu.be/6P6yillxZY4