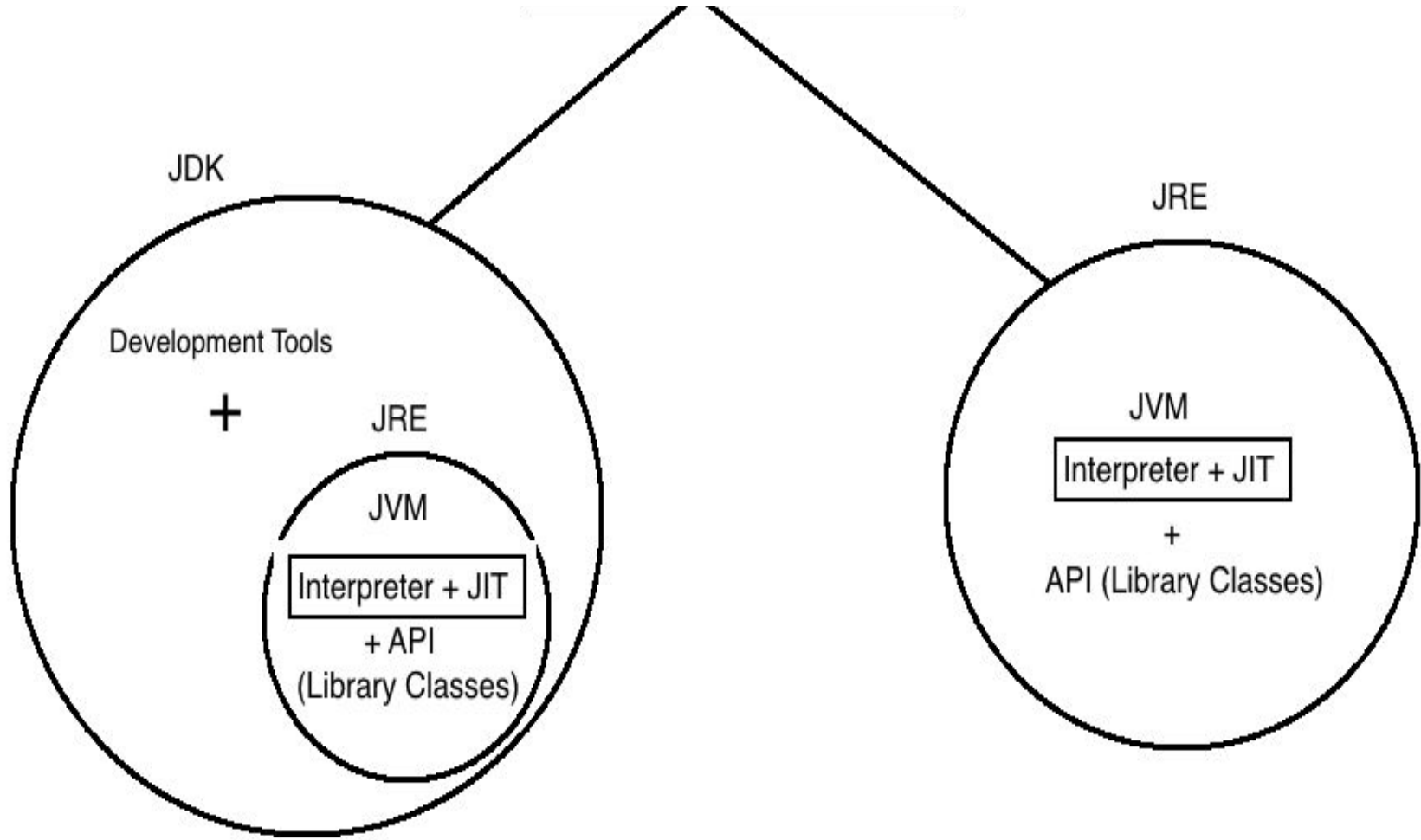


# Java Language Environment

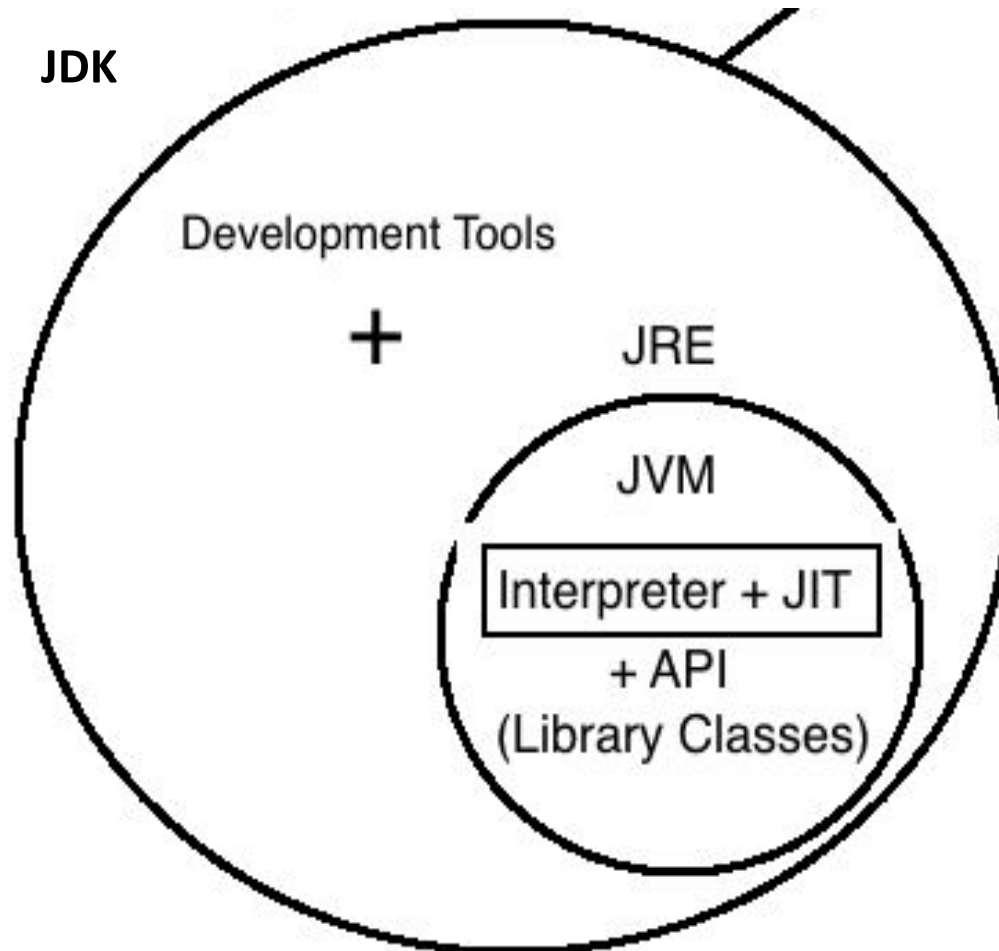
# Java language Environment



# Java Software

- JDK stands for Java Development Kit. JDK Provides environment to develop and run Java Application.
  - We install JDK on Developer machine.
- 
- JRE stands for Java Runtime Environment. JRE provides Environment to only run Java Application.
  - We Install JRE on Client Machine

# Difference between JDK, JRE, JVM, JIT



# JDK

- **JDK** stands for **Java Development Kit**.
- It provides **Development Tools**( program preparation related small small softwares like Compiler, Decompiler, Debugging, Developing Documentation, Preparing Jar files etc) and runtime environment.
- Using JDK we can develop, compile and execute new applications and we can modify existing applications.

# JRE

- **JRE** stands for Java Runtime Environment.
- JRE does not provide any development tools. It contains only JVM.
- We can only execute already developed applications.

# JVM

- **JVM** stands for Java Virtual Machine.
- It is a java Platform. It provides interpreter and JIT using which we can run java byte code by converting them into machine language.
- You can run Java Program Line wise Line

# JIT

- **JIT** stands for Just in Time Compiler.
- It is responsible to help Interpreter for executing java byte code fast.
- Basically it improves the performance of java program