

# JVM 가.

## JVM 가

- : ( Specification ) .
- : . JVM ,
- .java 가 javac java . ex) javac HelloWorld.java

## 가

- JVM
- 가 1
- .class .
- 가 , .

## JIT

- JIT ( Just In Time )
- , 가
- .

## JVM

JVM 3가

1. ( Class Loader )
  - JAM , Runtime Data Area
  - 3
    1. Loading
      1. (Bootstrap class loader) :

- 2. (Extension class loader) :
- 3. ( Application class loader) :
- 2. Linking
  - 1. ( verify ) : 가 ,
  - 2. ( prepare ) : 가 ,
  - 3. ( resolve ) : ( symbolic references )가 ( actual references ) .
- 3. ( Initialization ) : , .

- 1. ( Runtime data area ) :
  - 1. METHOD AREA
  - 2. HEAP AREA
  - 3. STACK MEMORY
  - 4. PC REGISTER
  - 5. NATIVE METHOD STACK

- 1. JVM ( JVM Execution Engine ) : ,
  - 1. INTERPRETER : , . 가
  - 2. JIT COMPILER
  - 3. GARBAGE COLLECTOR
  - 4. JAVA NATIVE METHOD INTERFACE

## JDK JRE

JRE	JDK
Java Runtime Environment	Java Development Kit
Java 가 ) Java Virtual Machine(	Java
Java	Java
JRE JDK 가	JDK JRE
JRE JVM, , Java 가	JDK JRE, API , Java , Webstart Java 가

### Ref

[Where can I get technical information about Java?](#)  
[Java](#) ?

### JVM ARCHITECTURE

[JVM](#)  
 가 JVM(Java Virtual Machine

- <https://blog.naver.com/hsm622/222138523668>
- <https://jeongjin984.github.io/posts/JVM/>
- [https://github.com/league3236/startJava/blob/master/live\\_study/week1.md](https://github.com/league3236/startJava/blob/master/live_study/week1.md)
- <https://sowhat4.tistory.com/61>
- <https://github.com/yeo311/java-study-with-whiteship/tree/main/week1>
- <https://gblee1987.tistory.com/173>
- [https://github.com/kksb0831/Practice\\_project/blob/master/Java\\_Study\\_01.md](https://github.com/kksb0831/Practice_project/blob/master/Java_Study_01.md)
- <https://jul-liet.tistory.com/143>
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- [https://velog.io/@jaden\\_94/1%EC%A3%BC%EC%B0%A8-%ED%95%AD%ED%95%B4%EC%9D%BC%EC%A7%80](https://velog.io/@jaden_94/1%EC%A3%BC%EC%B0%A8-%ED%95%AD%ED%95%B4%EC%9D%BC%EC%A7%80)
- <https://catch-me-java.tistory.com/9>
- <https://catch-me-java.tistory.com/10>
- <https://catch-me-java.tistory.com/11>
- <https://catch-me-java.tistory.com/12?category=438116>
- <https://catch-me-java.tistory.com/13>
- <https://docs.google.com/presentation/d/1nTUGhSAQJnlcYTdyH4GXjHQq9w1vFByqAdG71Fbnesc/edit?usp=sharing>
- <https://blog.naver.com/baekseongsa/222139174854>
- <https://blog.naver.com/baekseongsa/222144525963>
- <https://blog.naver.com/baekseongsa/222144528643>
- [https://github.com/kyu9/WS\\_Study/blob/master/week1/day1.md](https://github.com/kyu9/WS_Study/blob/master/week1/day1.md)
- <https://www.notion.so/1-01b08b753f0c4e93b16a96101c75d382>
- <https://blog.naver.com/haena910/222150168303>
- [https://github.com/Jason-time/java\\_study\\_with\\_whiteship/blob/main/week01.md](https://github.com/Jason-time/java_study_with_whiteship/blob/main/week01.md)
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