

# JVM(Java Virtual Machine)

- 가 (.class) OS ( JIT
- ) . (JVM ) ( 가 JVM) .
- JVM : <https://docs.oracle.com/javase/specs/jvms/se11/html/>
- JVM : , Azul,
- 

Java11 Jre  
 Java9

# JRE, JDK

11

open-jdk

JVM

, JRuby, Jython, , ...

# JVM

- :
- : ( )
- :

- - , ( )
  -
- - ,

, PC(PC registers),

-

## (Execution Engine)

- : 가
- JIT(Just In Time) : , 가

JIT

- GC(Garbage Collector):

- 가 .class “ ”

- - FQCN: Fully Qualified Class Name
  - | ENUM
  -

- Class “ ”

- : JAVA\_HOME/lib API 가

- (Extension ): JAVA\_HOME/lib/ext java.ext.dirs

- : (-classpath, java.class.path, )

😬 ClassFileNotFoundException 가

Verify, Prepare, Resolve(optional)

- : .class
- Preparation: ( static )
- Resolve:

Static . (static )

```

$> javap -c -v ${ } // -v
Compiled from "CodeManipulationApplication.java"
public class com.repia.java.codemanipulation.CodeManipulationApplication {
    public com.repia.java.codemanipulation.CodeManipulationApplication();
    Code:
        0: aload_0
        1: invokespecial #8 // Method
java/lang/Object."<init>":()V
        4: return

    public static void main(java.lang.String[]);
    Code:
        0: ldc #1 // class
com/repia/java/codemanipulation/CodeManipulationApplication
        2: aload_0
        3: invokestatic #16 // Method
org/springframework/boot/SpringApplication.run:(Ljava/lang/Class;[Ljava/lang
/String;)Lorg/springframework/context/ConfigurableA
pplicationContext;
        6: pop
        7: return
}

```

## Dependency Injection

?

, manipulation

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