

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)

- :
• 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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