

,

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) :

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

From:
<http://rwiki.repia.com/> -

. - 2023.12

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Last update: 2022/04/28 19:34

