Class Files

Class Loader

Runtime Data Areas

Native Method Stack

Java Stack

Method Area

Program Counter Register

Heap

Native Libraries

Native Interface

Execution Engine

*HelloOwen.com*

Hello.java

***javac Hello.java***

**public** **class** Hello {

**public** **static** **void** main(String[] args)

{

System.*out*.println("Hello World!");

}

}

Java Compiler

Hello.class (disassembled code by ***javap –c Hello***)

class Hello extends java.lang.Object{

Hello();

Code:

0: aload\_0

1: invokespecial #1; //Method java/lang/Object."<init>":()V

4: return

public static void main(java.lang.String[]);

Code:

0: getstatic #2; //Field java/lang/System.out:Ljava/io/PrintStream;

3: ldc #3; //String Hello World!

5: invokevirtual #4; //Method java/io/PrintStream.println:(Ljava/lang/String;)V

8: return

}