Java Tutorial - 2
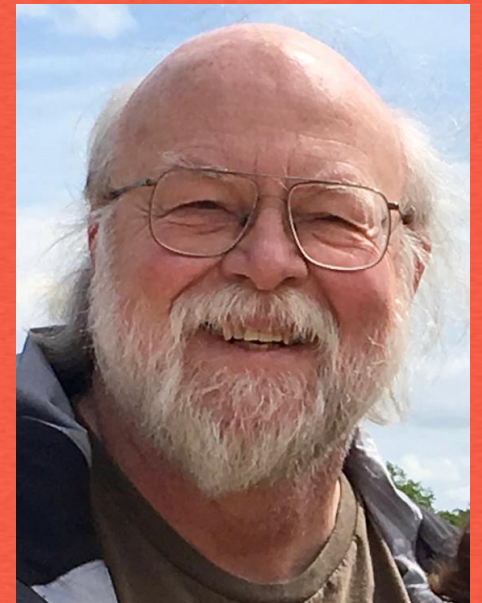
Intro to Java
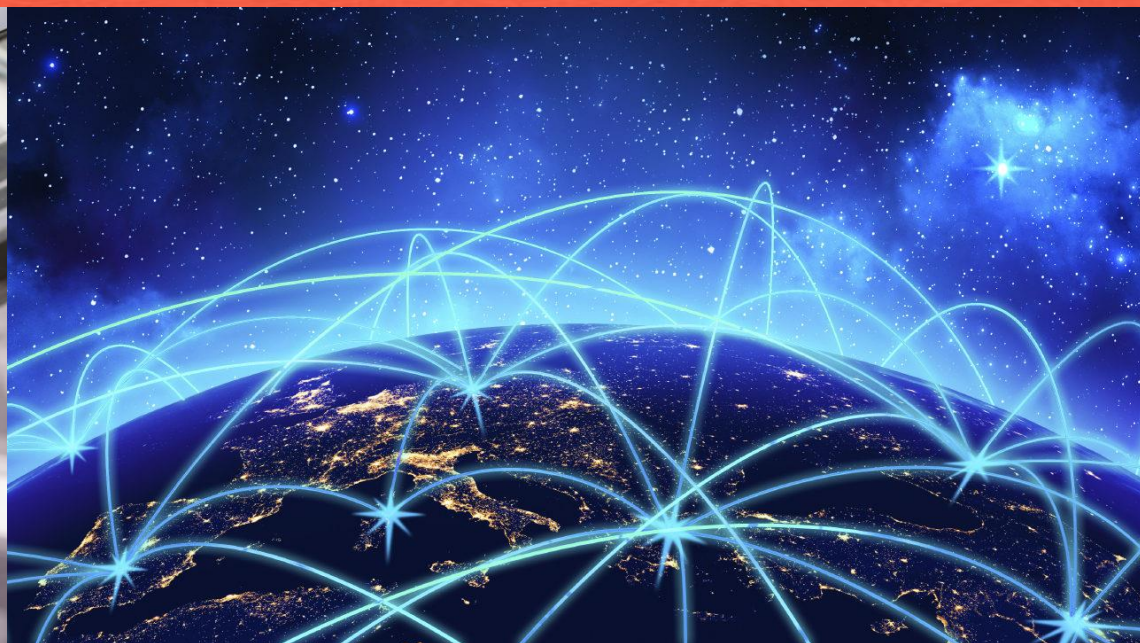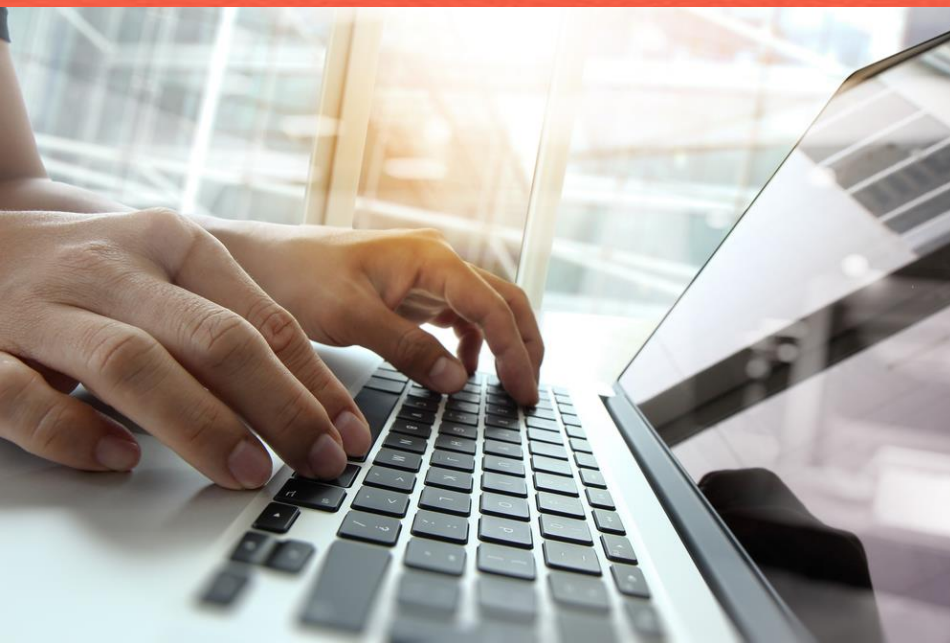
What is Java?

- **Programming Language**

- **Released in 1995 by Sun Microsystems**

- **Object Oriented Language**

- **Write Once Run Anywhere (WORA)**

James Gosling, Designer

Where is Java?

Cross Platform Abilities (WORA)

Source Files

```
public class Main {
    public static void
main(String[] args) {
        …
    }
}
```

```
public class Class2 {
    …
}
```

```
public class Class3 {
    …
}
```

Compiler

Class Files

```
00 03 24 AE .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
```

```
0E 0A F4 CB .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
```

```
4A 83 FC DE .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
```
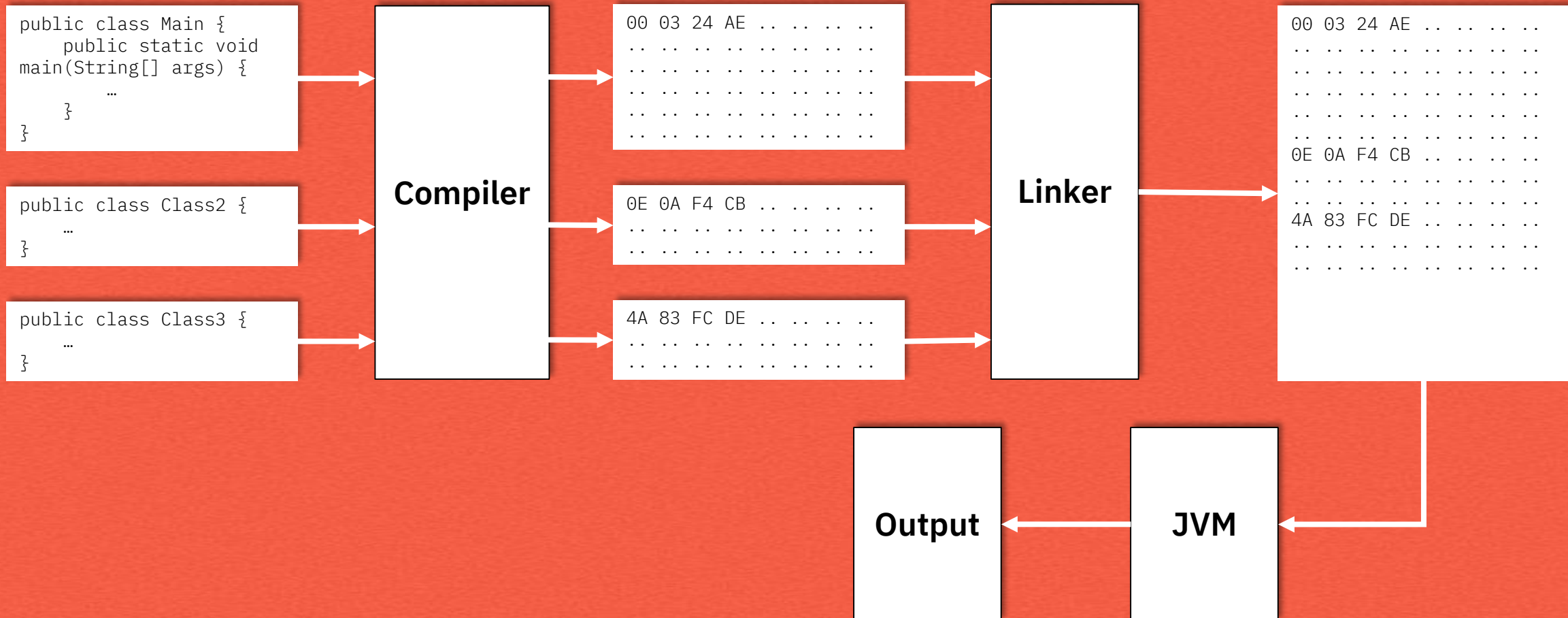
Linker

Java Archive (JAR File)

```
00 03 24 AE .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
0E 0A F4 CB .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
4A 83 FC DE .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
.. .. .. .. .. .. .. .. ..
```

Output ← **JVM**

Java Program

Package

```
public class Class2 {
  public … method1() {
    …
  }

  Class3 field1;
  … field2;
}
```

```
public class Main {
  public … main(…) {
    …println("Hello!");
  }

  public … method2() {
  Class2.method1();
  }

  … field1;
  … field2;
}
```

```
public class Class3 {
  private … method1() {
    …
  }

  … field1;
  … field2;
}
```

Java Archive (JAR File)

Entry Point

Java is C++ without the guns, knives, and clubs

— James Gosling —