# Write-Compile-Execute

## Write



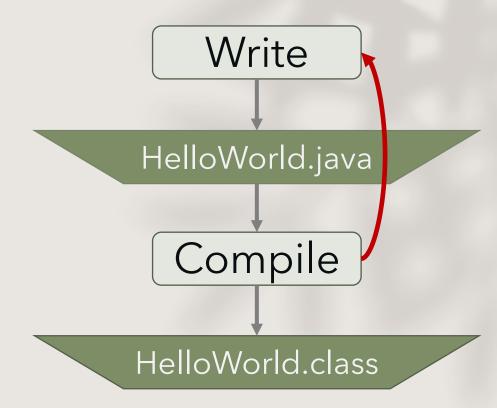
Write source code (instructions in a program)

- Written using a programming language (Java)
- Human readable
- Written within a text editor
- The file extension will be .java

# Compile

Translates program from one language to another

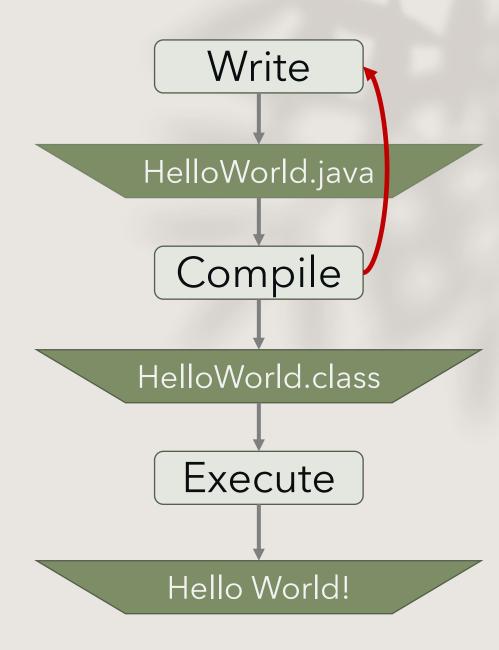
- Byte-code: an intermediate language that can be run by many computers
- The file extension will be .class



#### Execute

Uses the Java Virtual Machine (JVM) to run/interpret the program

 JVM: A theoretical computer whose machine language is the set of Java byte-codes.



### Unix Commands in Terminal

To compile

javac HelloWorld.java

To execute

java HelloWorld (class name)

```
LecExample — -zsh — 80×24

Last login: Mon Aug 22 23:50:13 on ttys000

[ginabai@MacBook-Air-6 ~ % cd Desktop/LecExample

[ginabai@MacBook-Air-6 LecExample % 1s

HelloWorld.java

[ginabai@MacBook-Air-6 LecExample % 1s

HelloWorld.class HelloWorld.java

[ginabai@MacBook-Air-6 LecExample % 1s

HelloWorld.class HelloWorld.java

[ginabai@MacBook-Air-6 LecExample % java HelloWorld

Hello World!

ginabai@MacBook-Air-6 LecExample %
```