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Tuesday - Week 2

Working with IDEs

Integrated Development Environment

- A program that automates many different parts of programming

- Built in compiler

- Debugging live code

Some advantages of an IDE

- Code Parsing:

  - Syntax Highlighting

  - Error Identification

  - Debugging (Covered during usage)

- Refactoring:

  - Renaming/Searching

  - Code Management

Disadvantages over a text editor

- Used to be very restrictive (one language only)

- High memory usage

- Configuration overhead of new projects

- Customisability (Some other IDEs)

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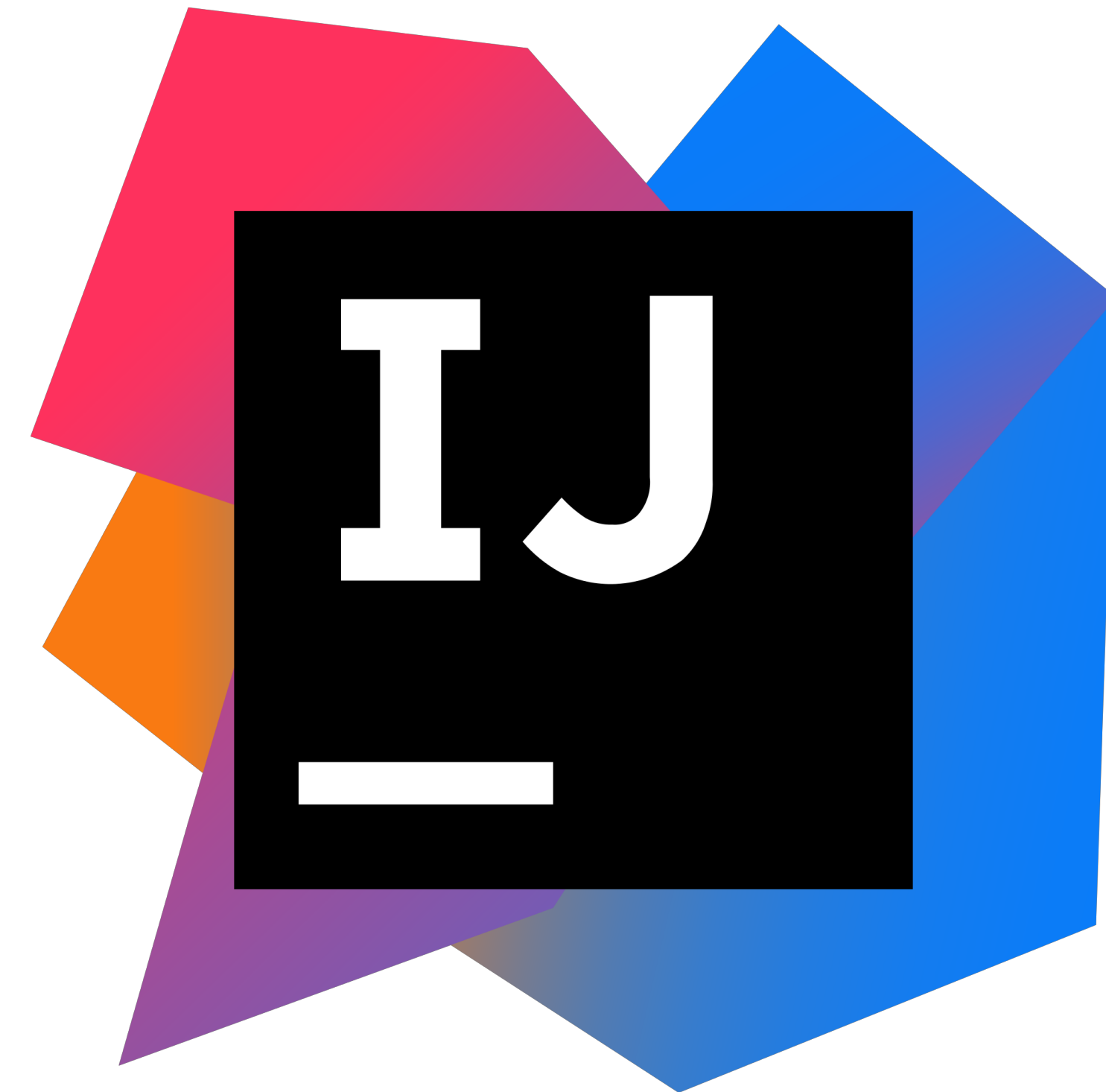
IntelliJ, Eclipse, & Netbeans

Common Java IDEs

- The big three:
  - IntelliJ

  - Eclipse

  - NetBeans

- All three support the common build systems:
Ant / Gradle /Maven

IntelliJ

- Feature Rich

- Free Community Edition

- Very similar to Visual Studio

Eclipse & NetBeans

- Alternative Options

- You are free to use these, but I wont be able to help you much

8

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Installing IntelliJ CE

Completed previously in Class

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Using IntelliJ

Creating a new Project

- On the left: Java

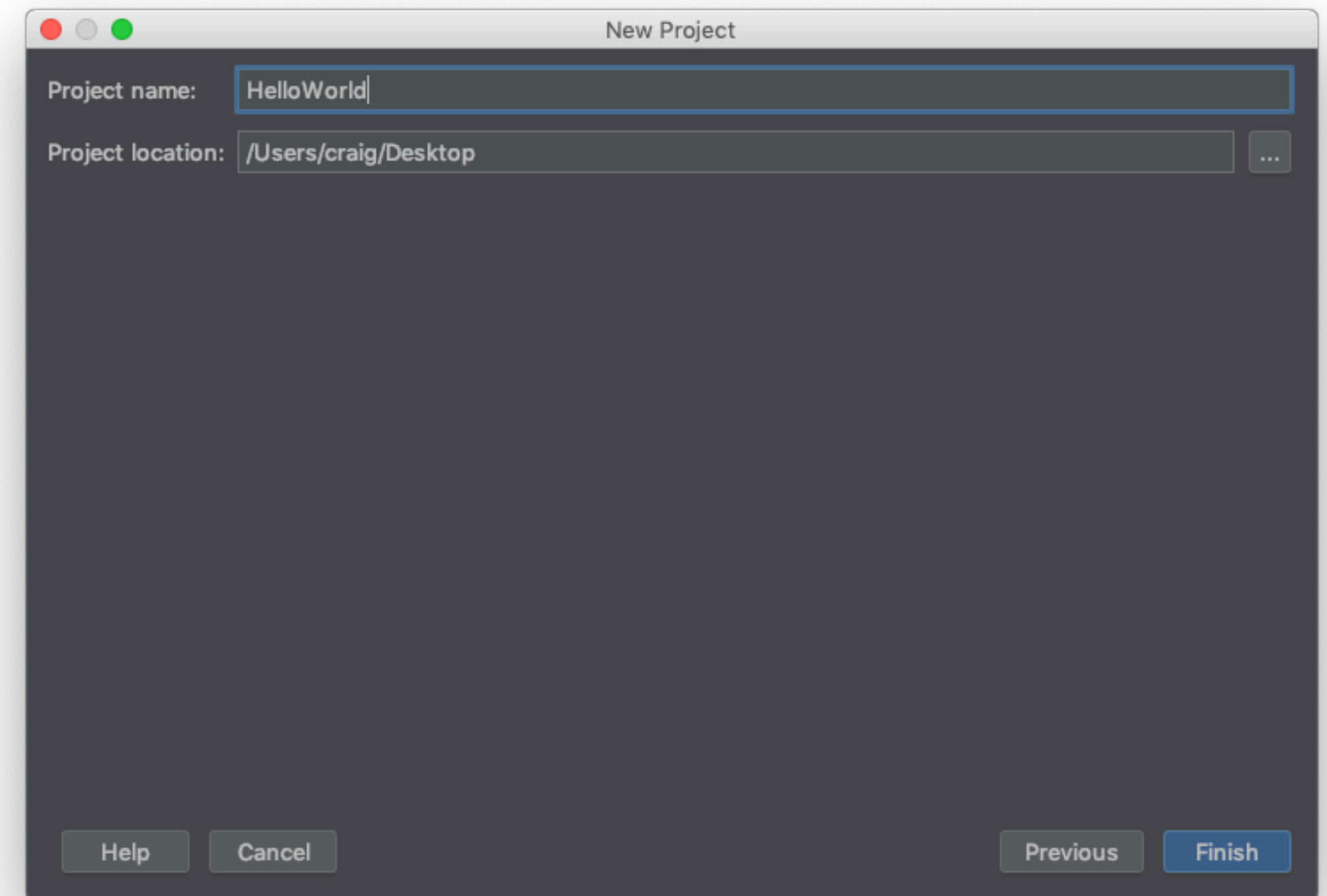- Top:
  Project SDK: 1.8

- No Additional Libraries
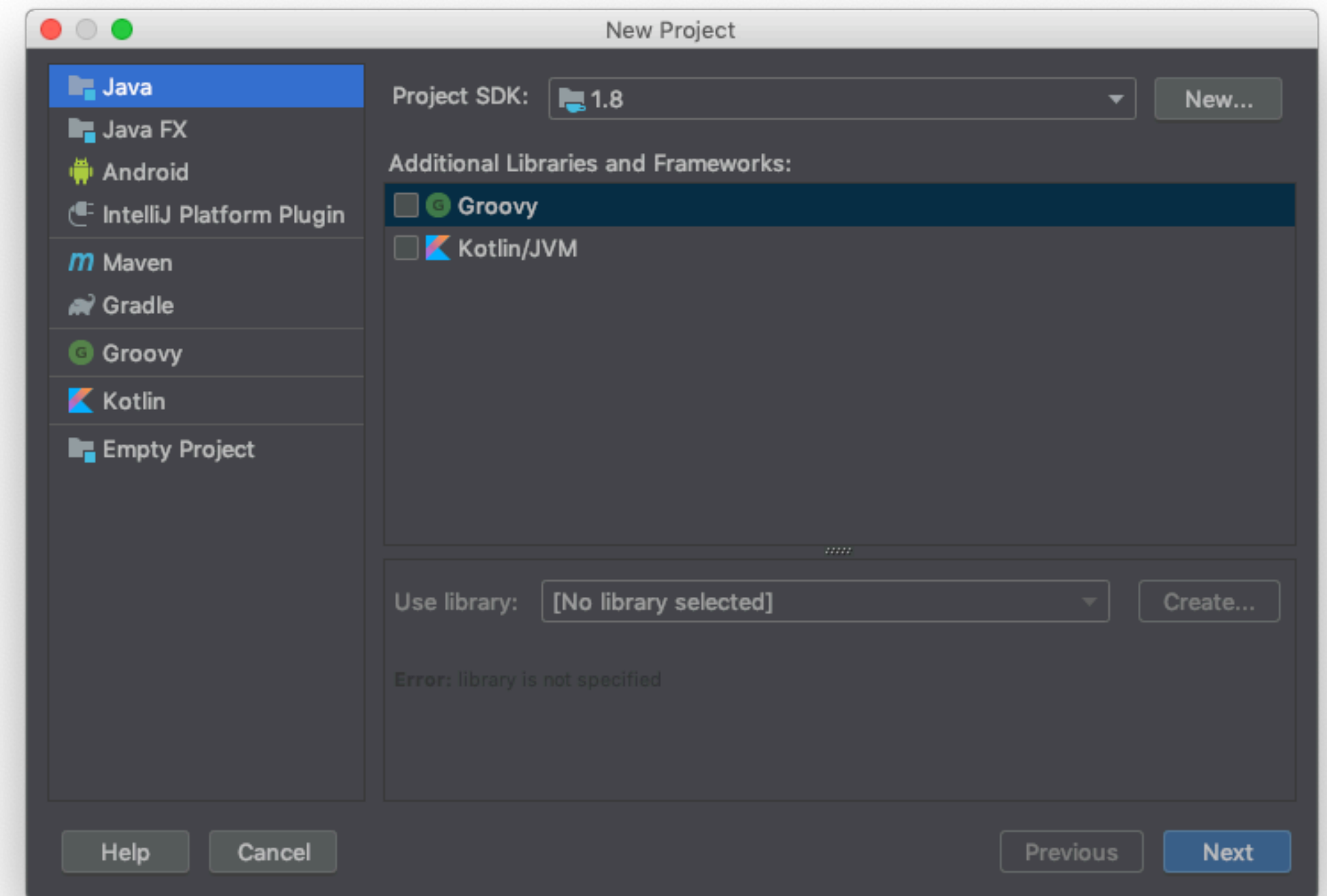
Project Templates

- Select an appropriate template

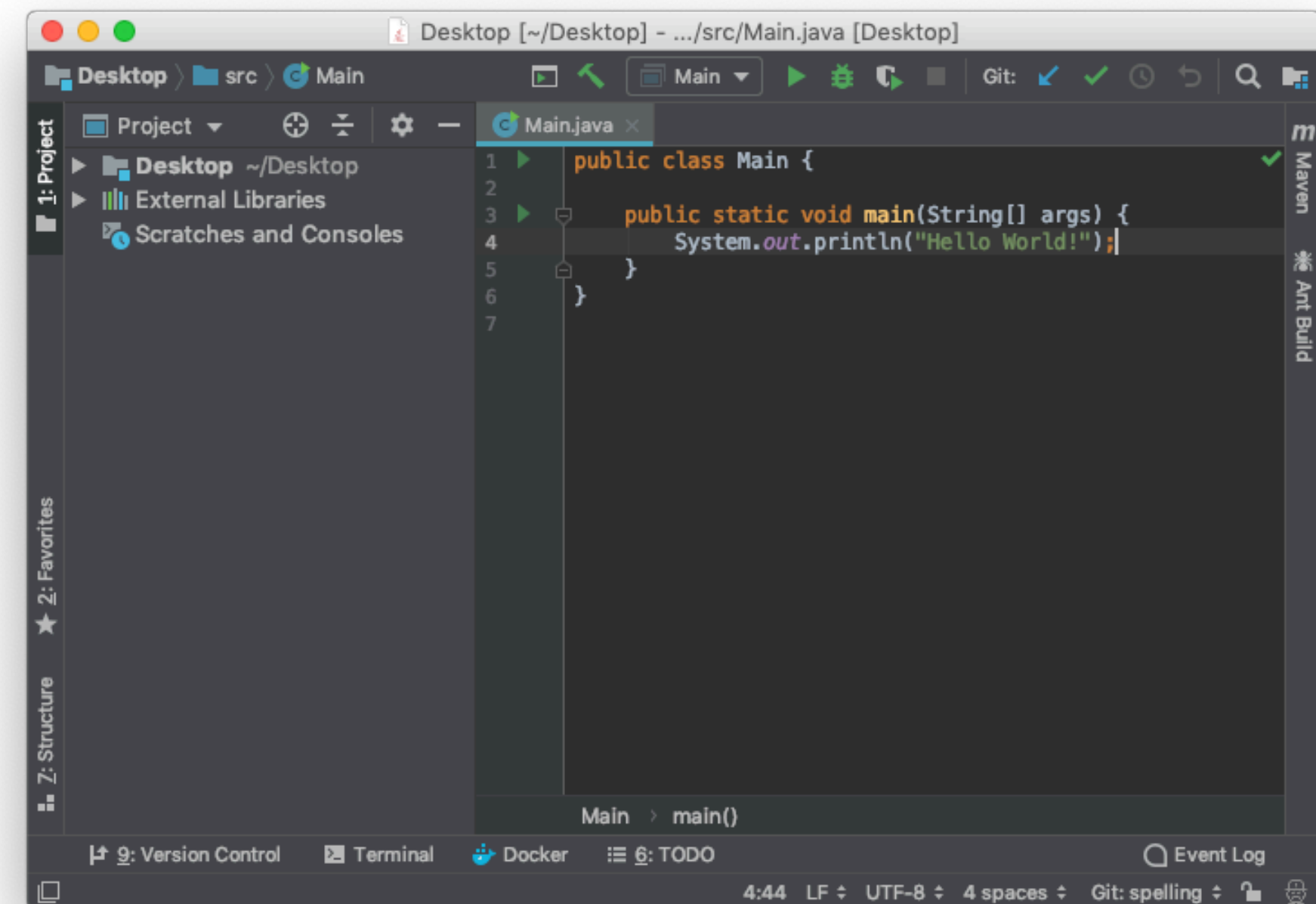- For this demonstration I will use "Java Hello World"

13
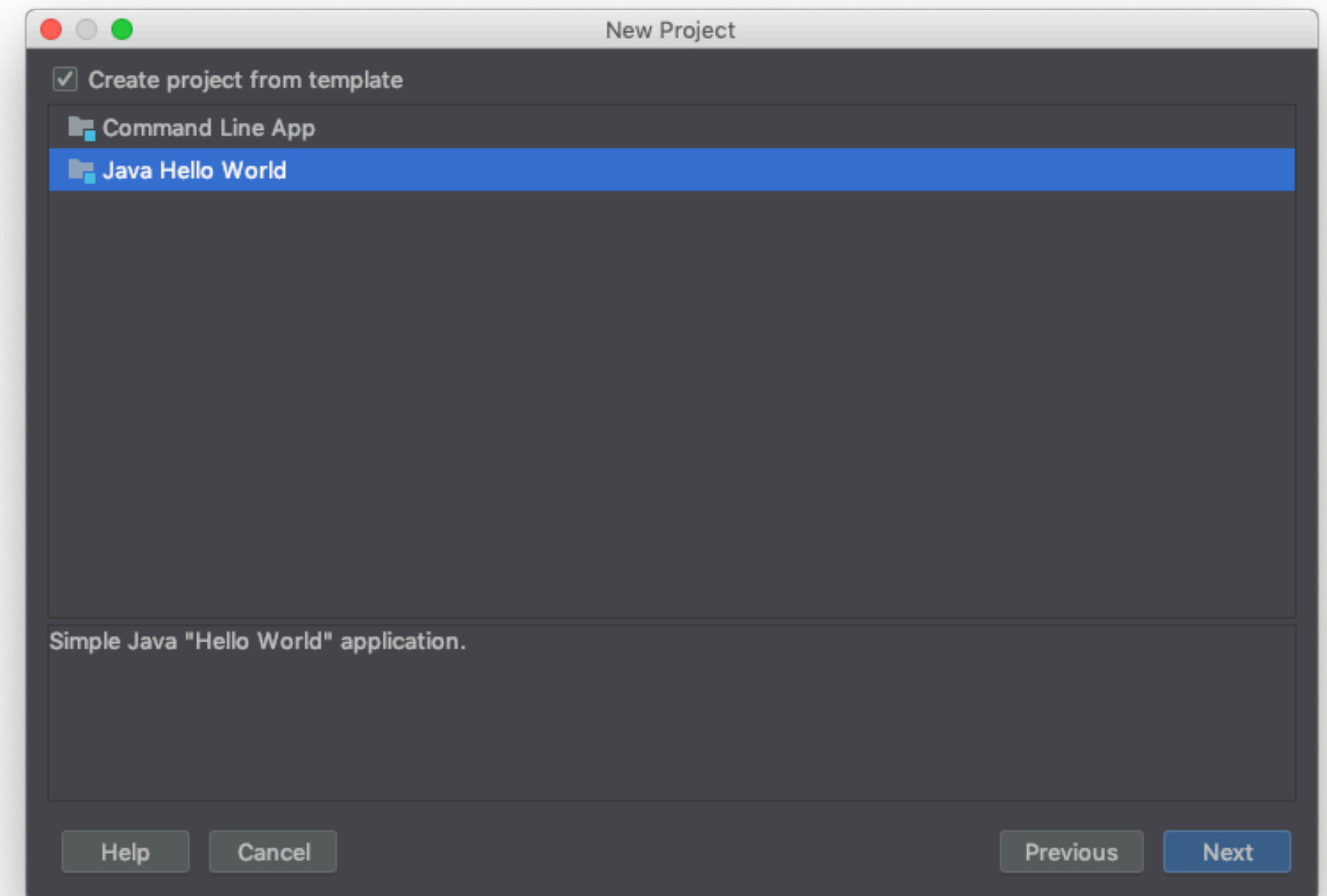
Project Name

- Give it an appropriate name
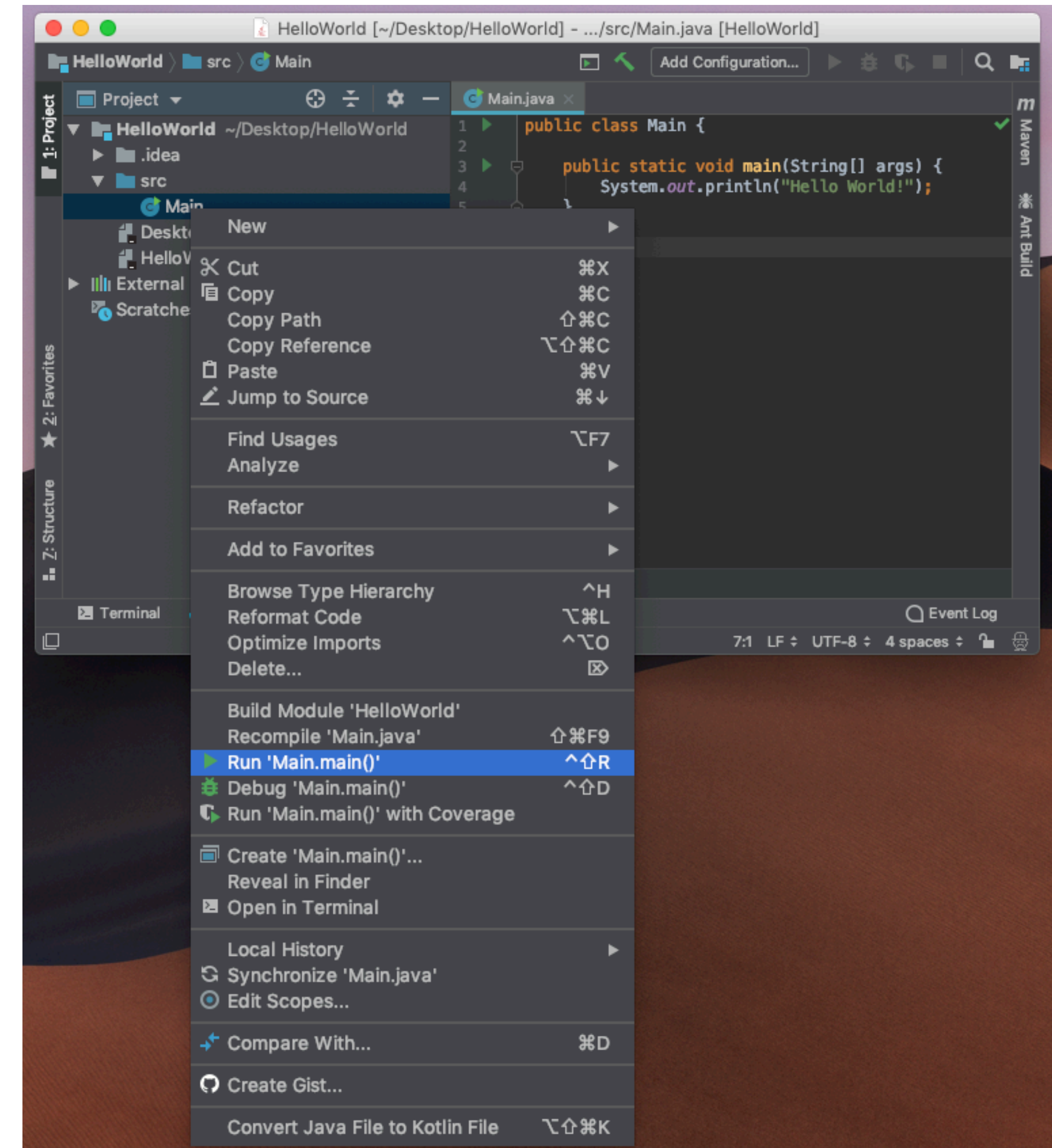
- And put it somewhere sensible

Your new project

- Project layout on left

- Source code on right

- Git built in

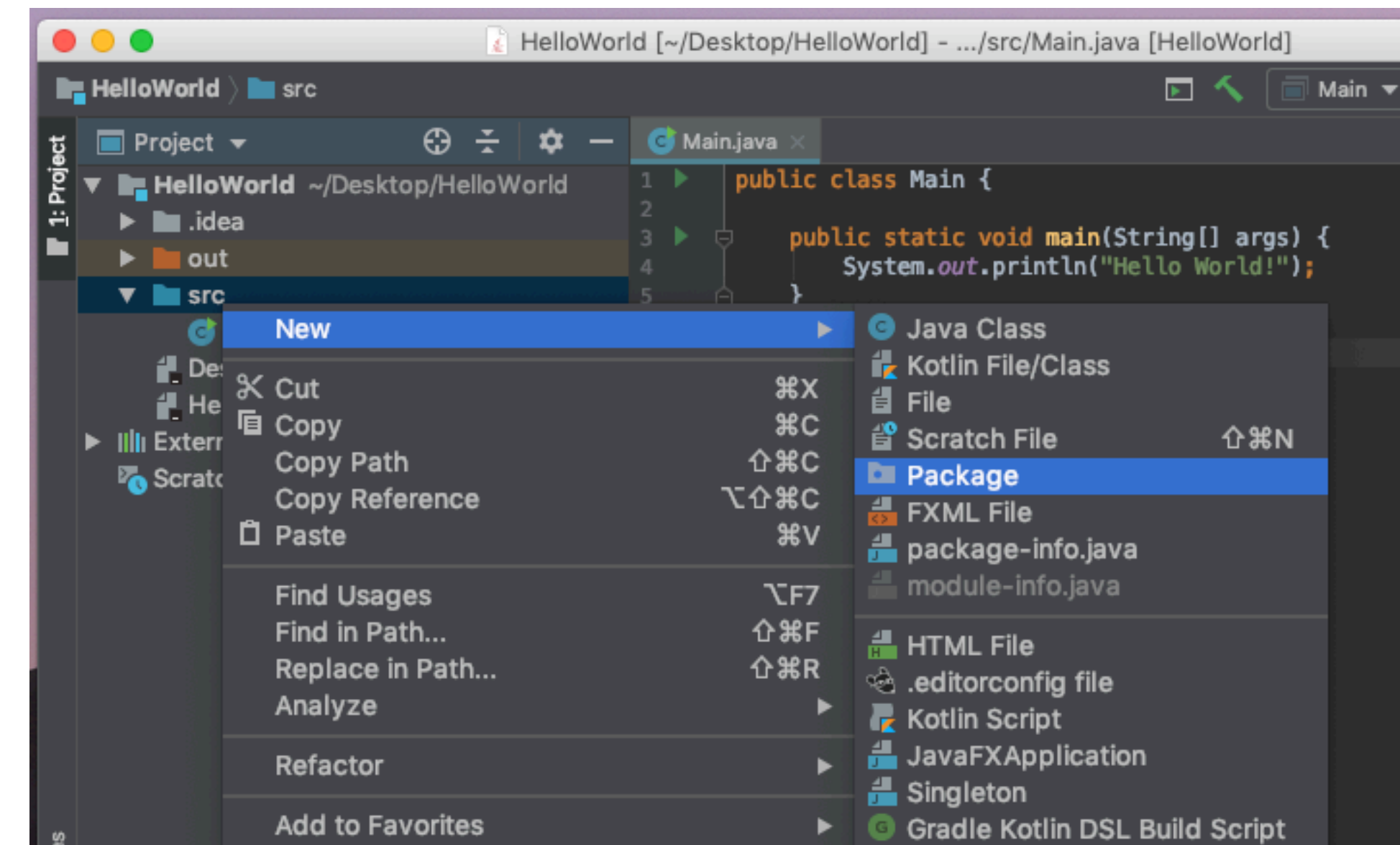- Build tools at the top

- Terminal at the bottom

I made a mistake ...

- I had the project in the wrong folder
- So I moved it, but now when I open it my main entry point is not defined
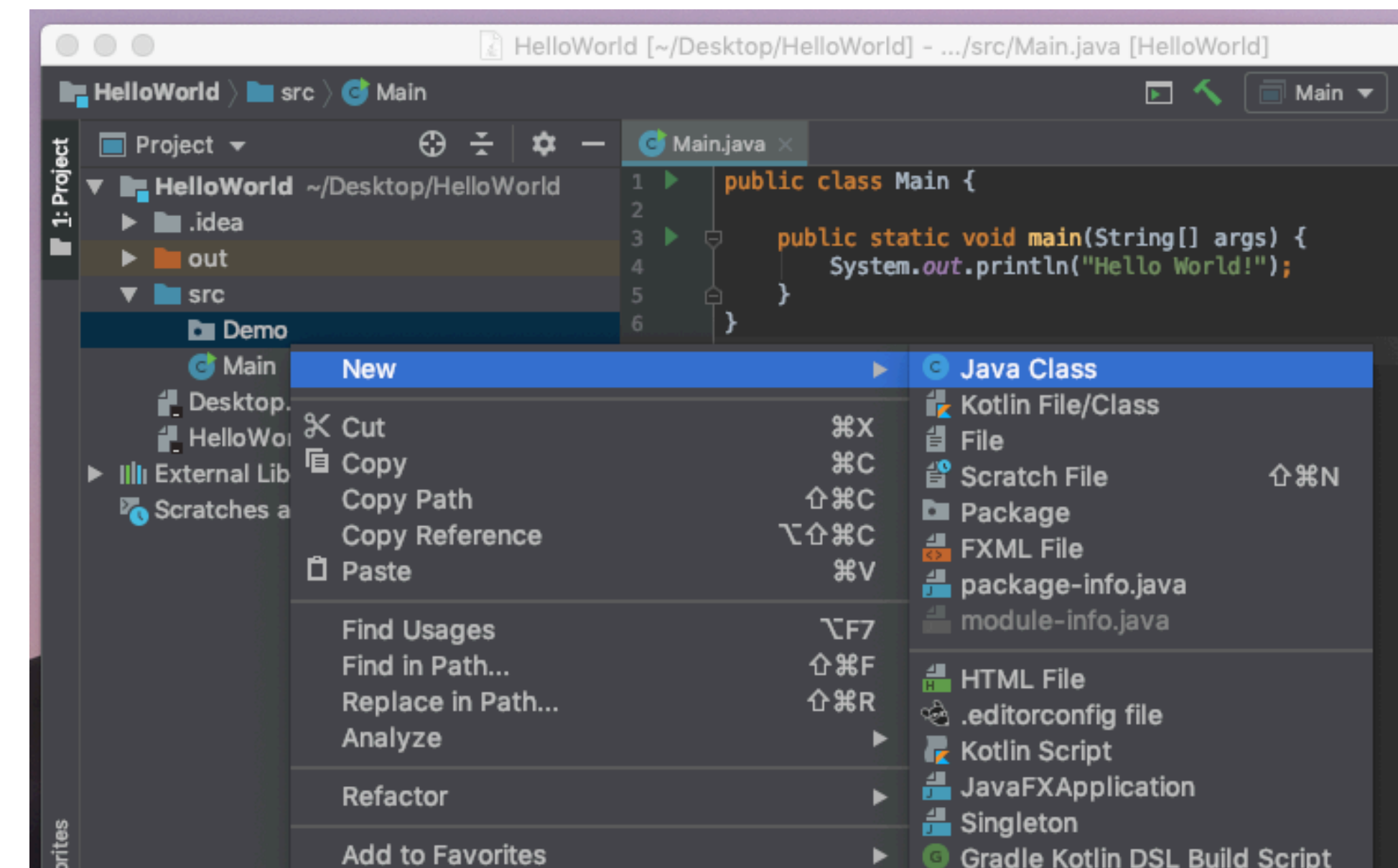- I click on "Run Main main()"
- An dit works again

Creating a new package

- Right click src
  - New -> Package

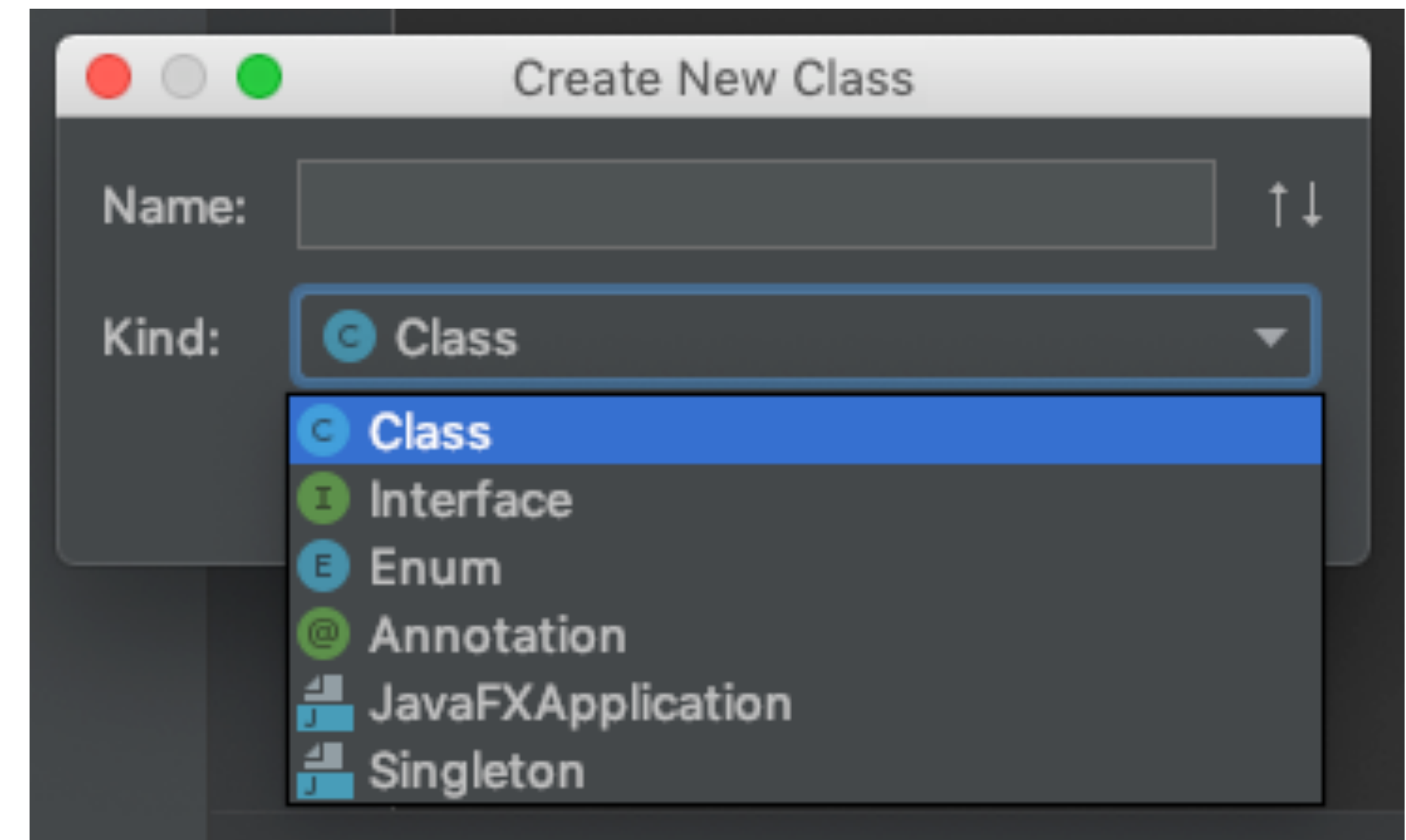- Packages hold collections of related classes

Creating a new class file

- Right click on a package (or src)
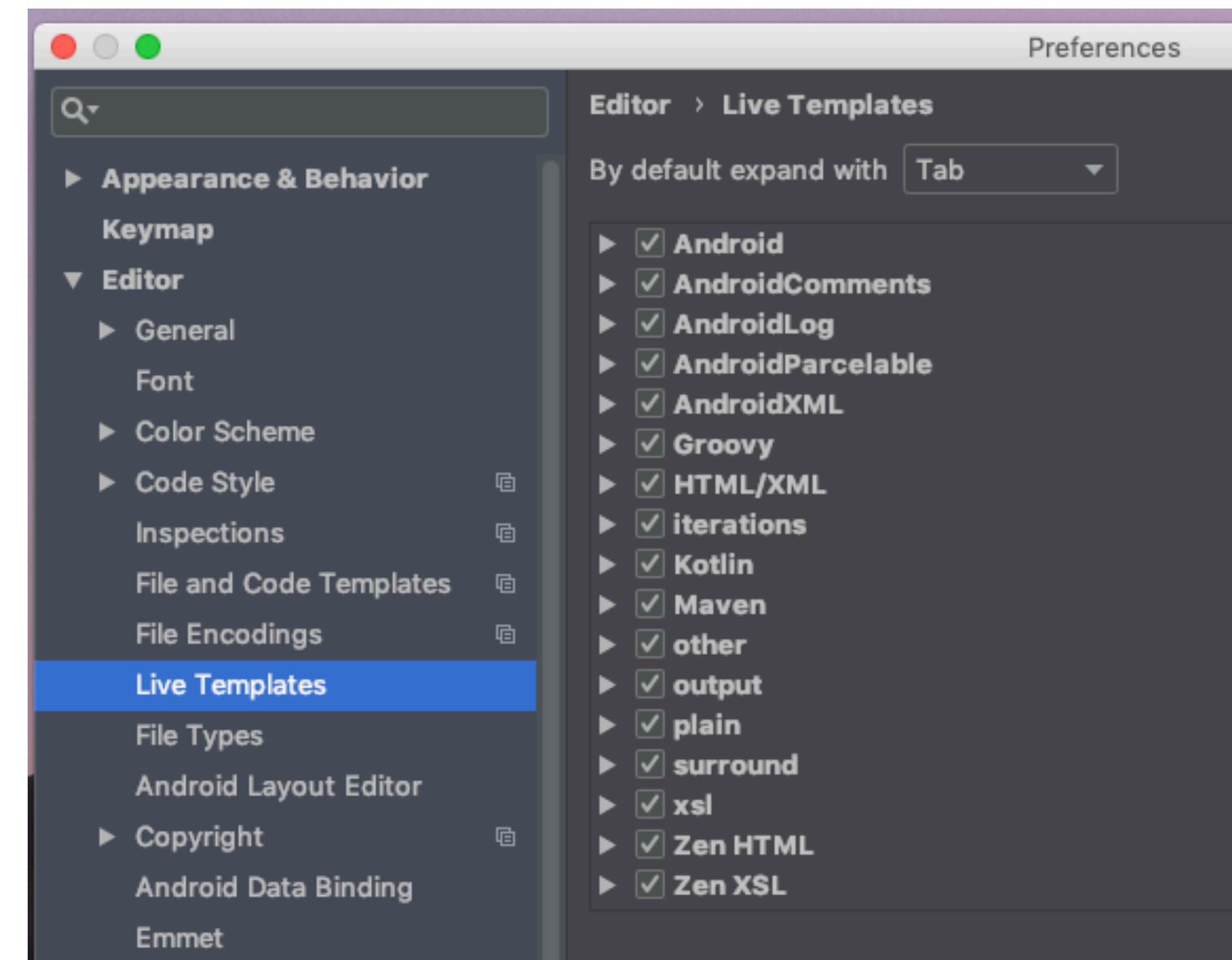- New -> Java Class

Creating a new class file

- Such Options, Very Develop

- Wow

- The first the are the usual choices

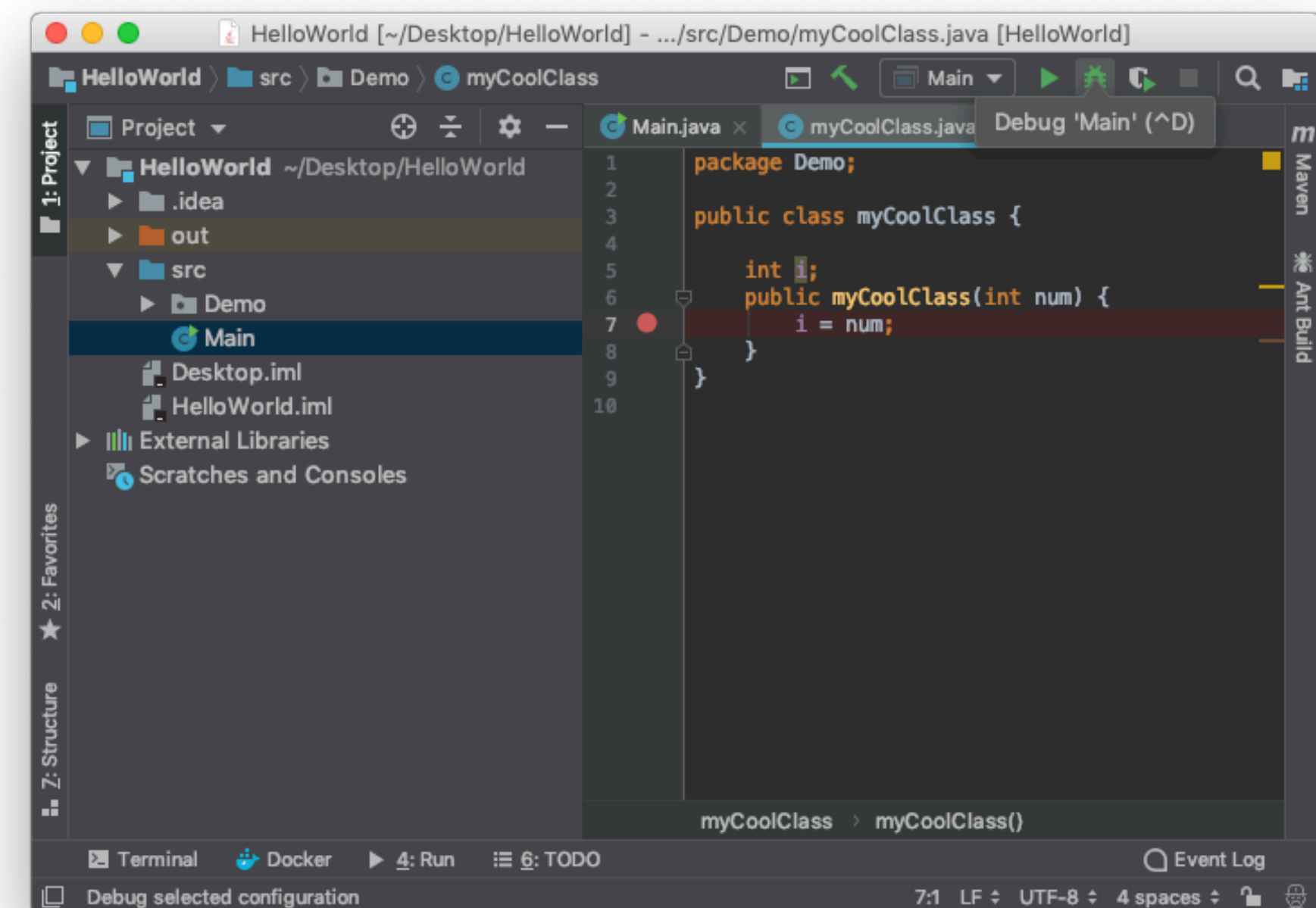- Give it a cool name (naming conventions!)

Don't forget those nifty shortcuts!

- Go to Settings
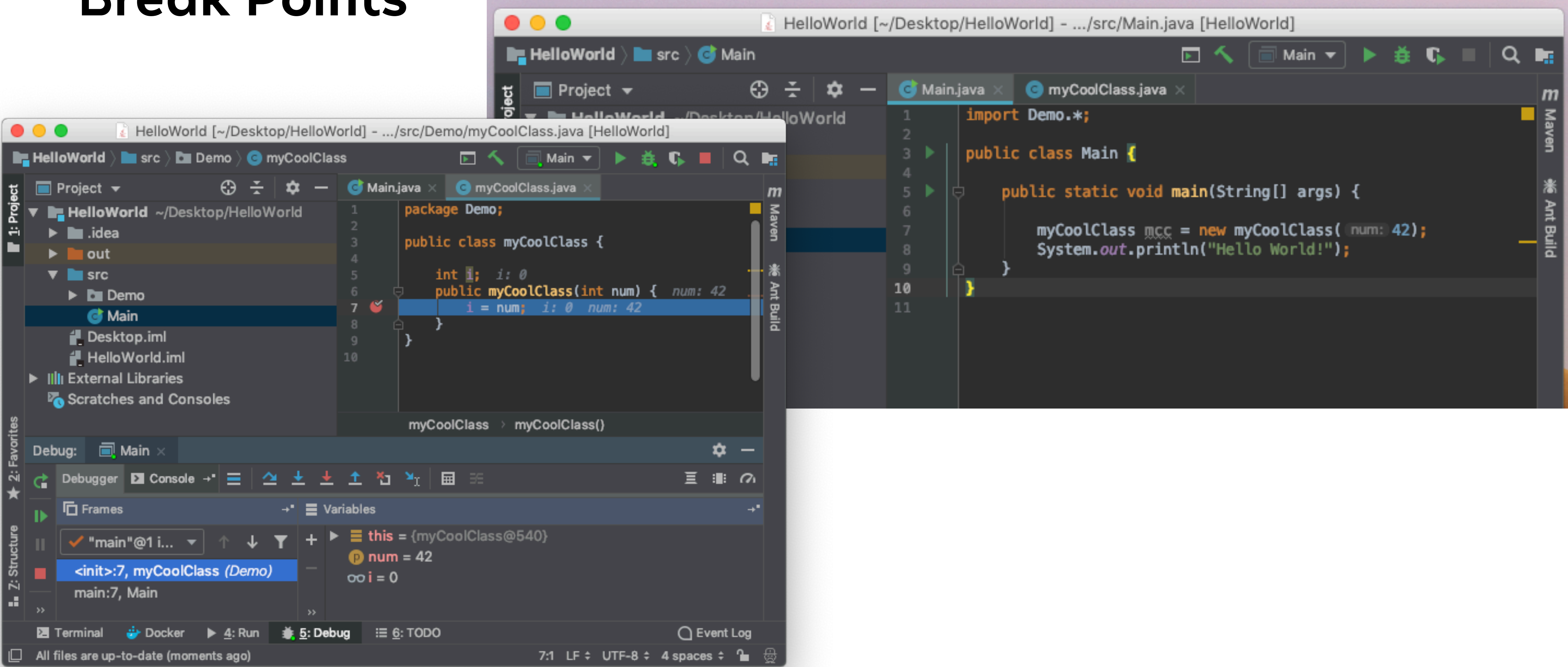 - Editor
    - Live Templates

Setting a break point

- Click next to the line number
- Run with Debugging

Break Points

Tuesday - Week 2
Tasks

Task 14

- You will need to connect to a specific REST API and display information based on user input

- Read the full specifications on moodle

- I will do a small demonstration in class as a hint