

An Introduction to IntelliJ

IntelliJ IDE for Java Developers

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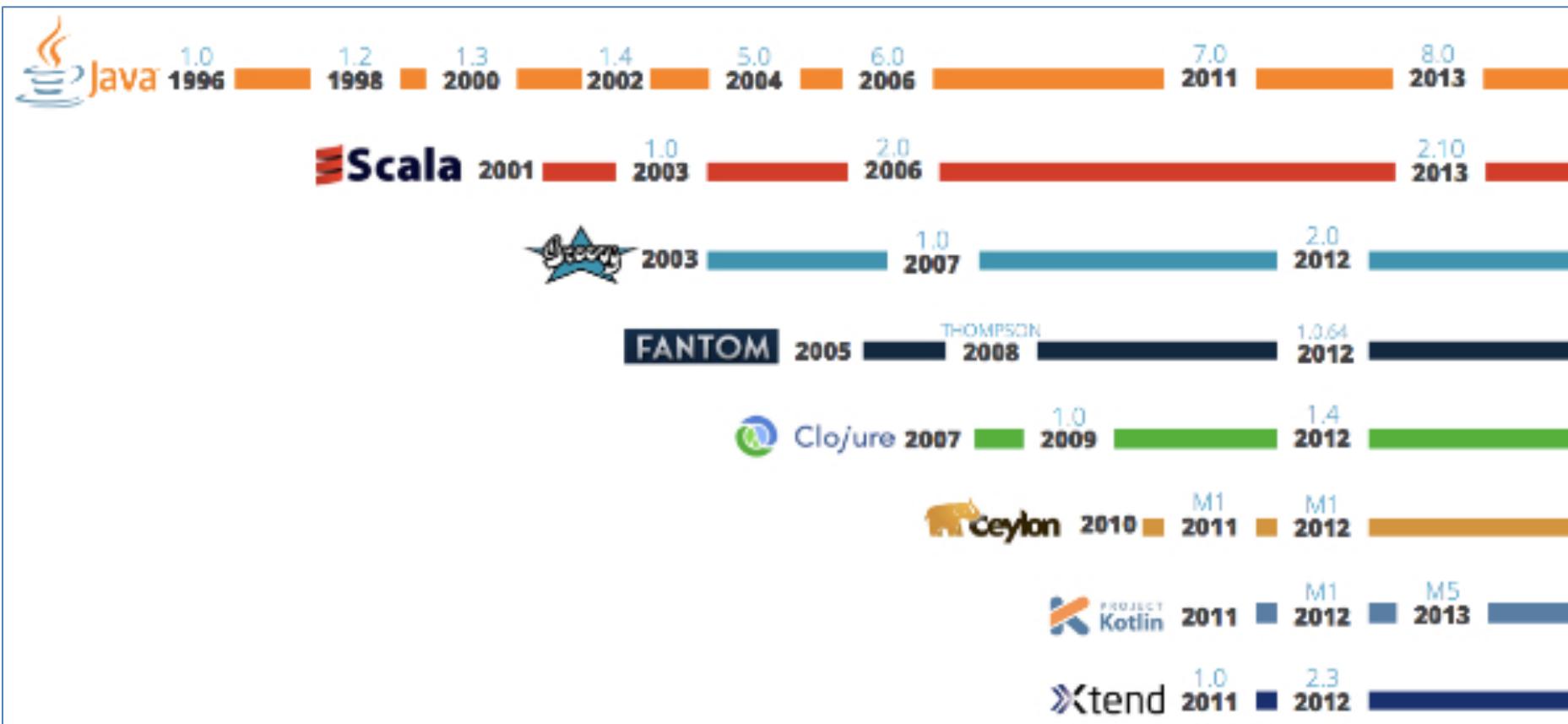
" Most people talk about Java the language, and this may sound odd coming from me, but I could hardly care less. At the core of the Java ecosystem is the JVM. "

James Gosling,

Creator of the Java Programming Language(2011, TheServerSide)

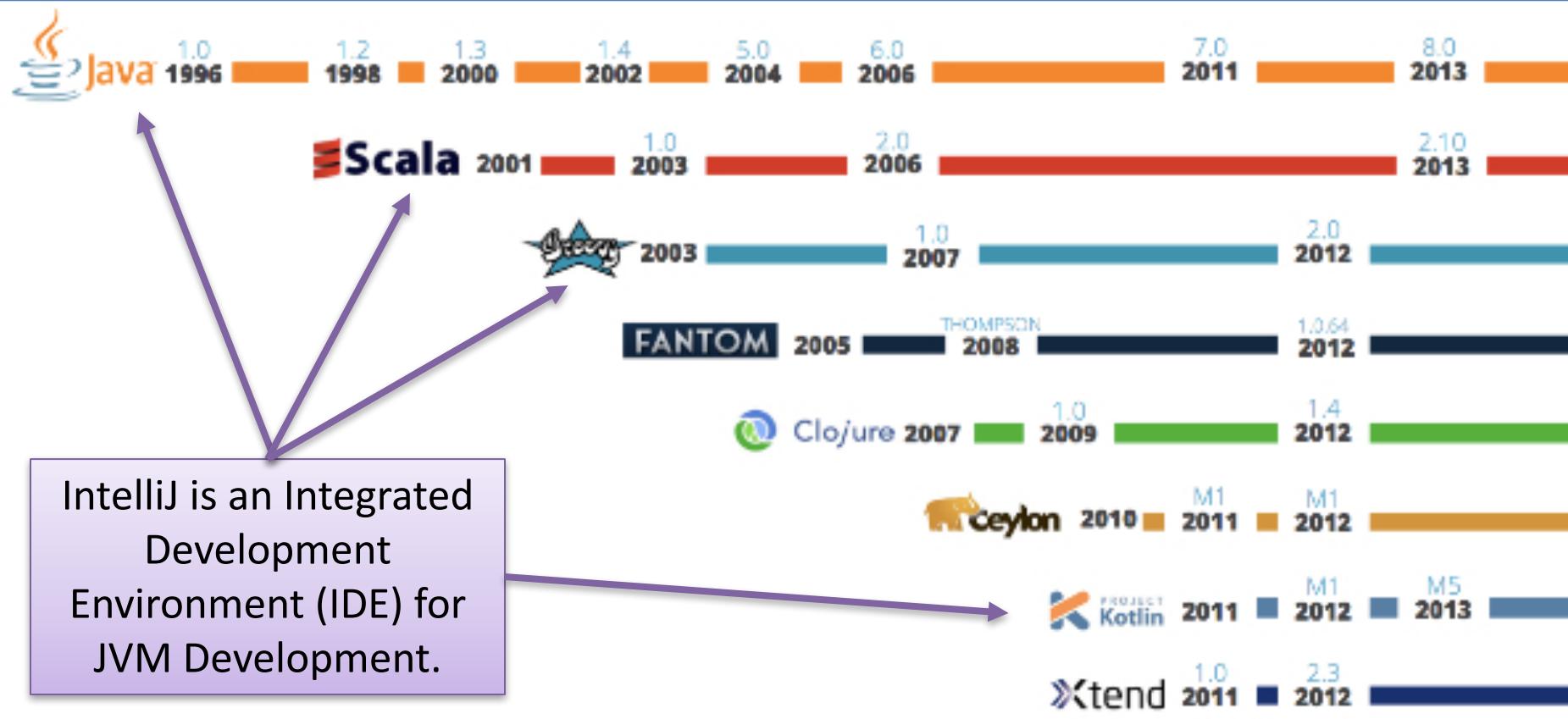
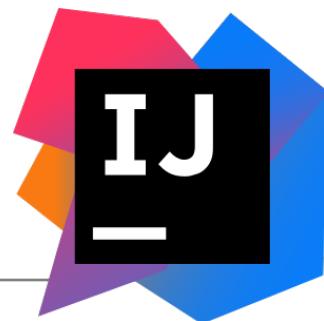


JVM Language History



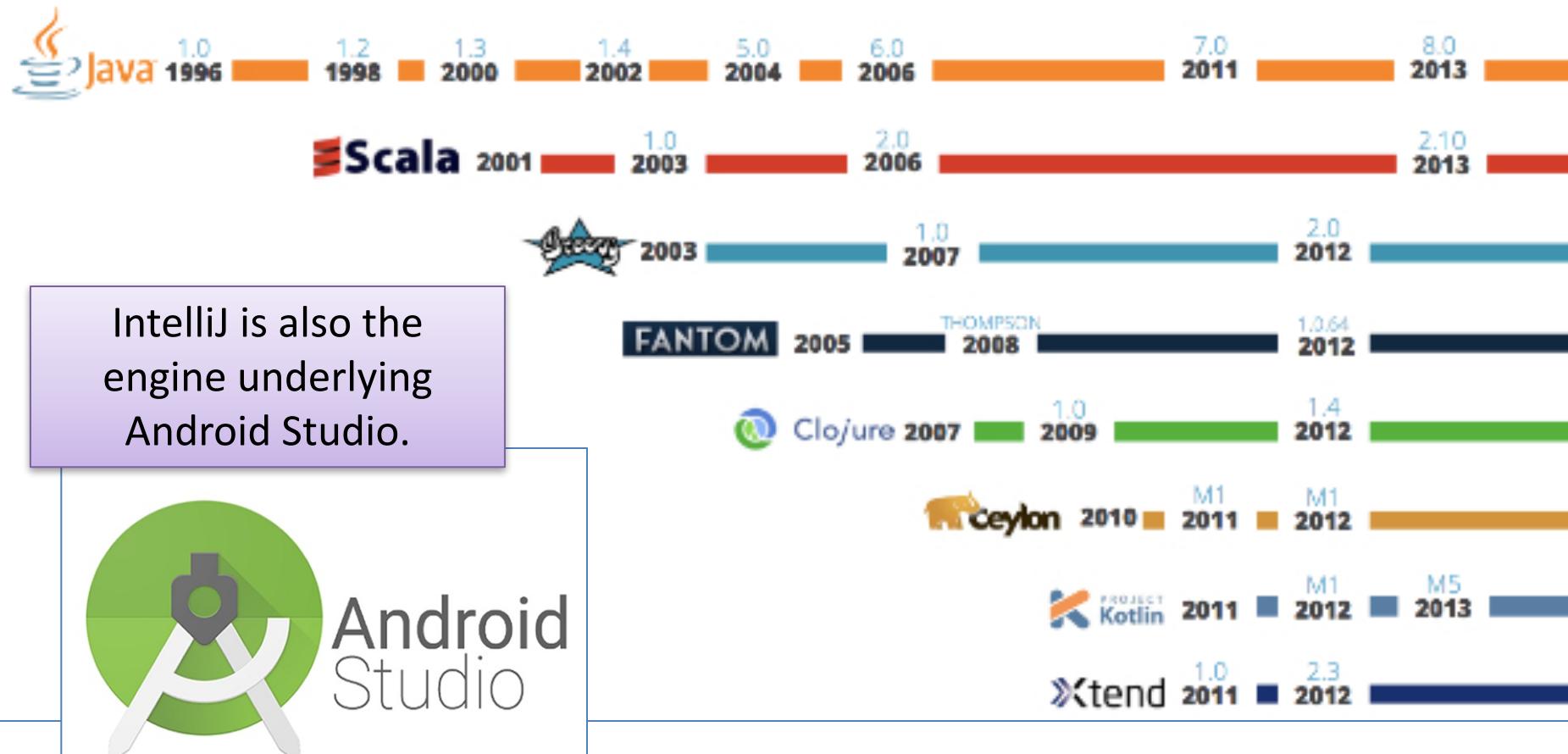
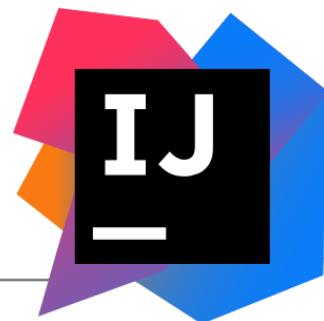
[Source](#)

IntelliJ and the JVM



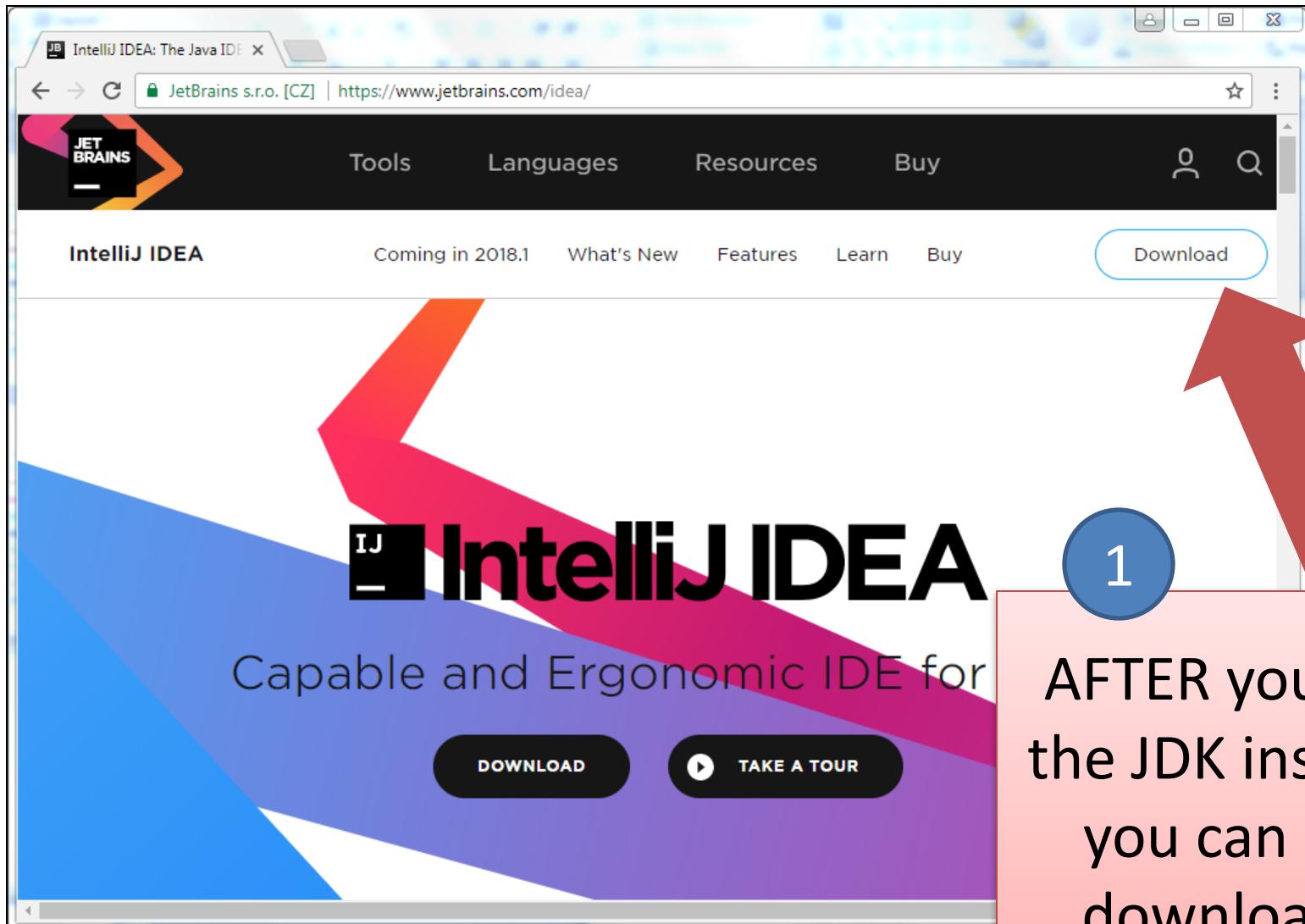
IntelliJ is an Integrated Development Environment (IDE) for JVM Development.

IntelliJ and the JVM



Installing IntelliJ

BEFORE you install IntelliJ
Download and Install the **JDK** first using
IE on windows or Safari on OSX!



1

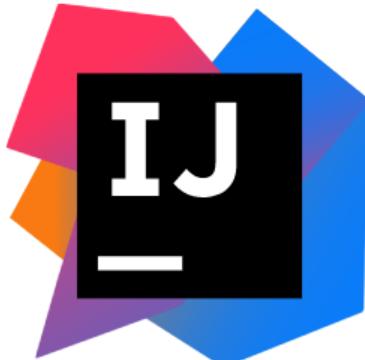
AFTER you have
the JDK installed,
you can start
downloading
IntelliJ.

JB Download IntelliJ IDEA: T X

← → C JetBrains s.r.o. [CZ] | https://www.jetbrains.com/idea/download/#section=windows

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IntelliJ IDEA Coming in 2018.1 What's New Features Learn Buy Download

 Version: 2017.3.4 Build: 173.4548.28 Released: January 30, 2018 Release notes

System requirements Installation Instructions Previous versions

License Commercial Open-source, Apache 2.0 ?

Java, Kotlin, Groovy, Scala ✓ ✓

Android ? ✓ ✓

Download IntelliJ IDEA

Windows macOS Linux

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Web, mobile and enterprise development

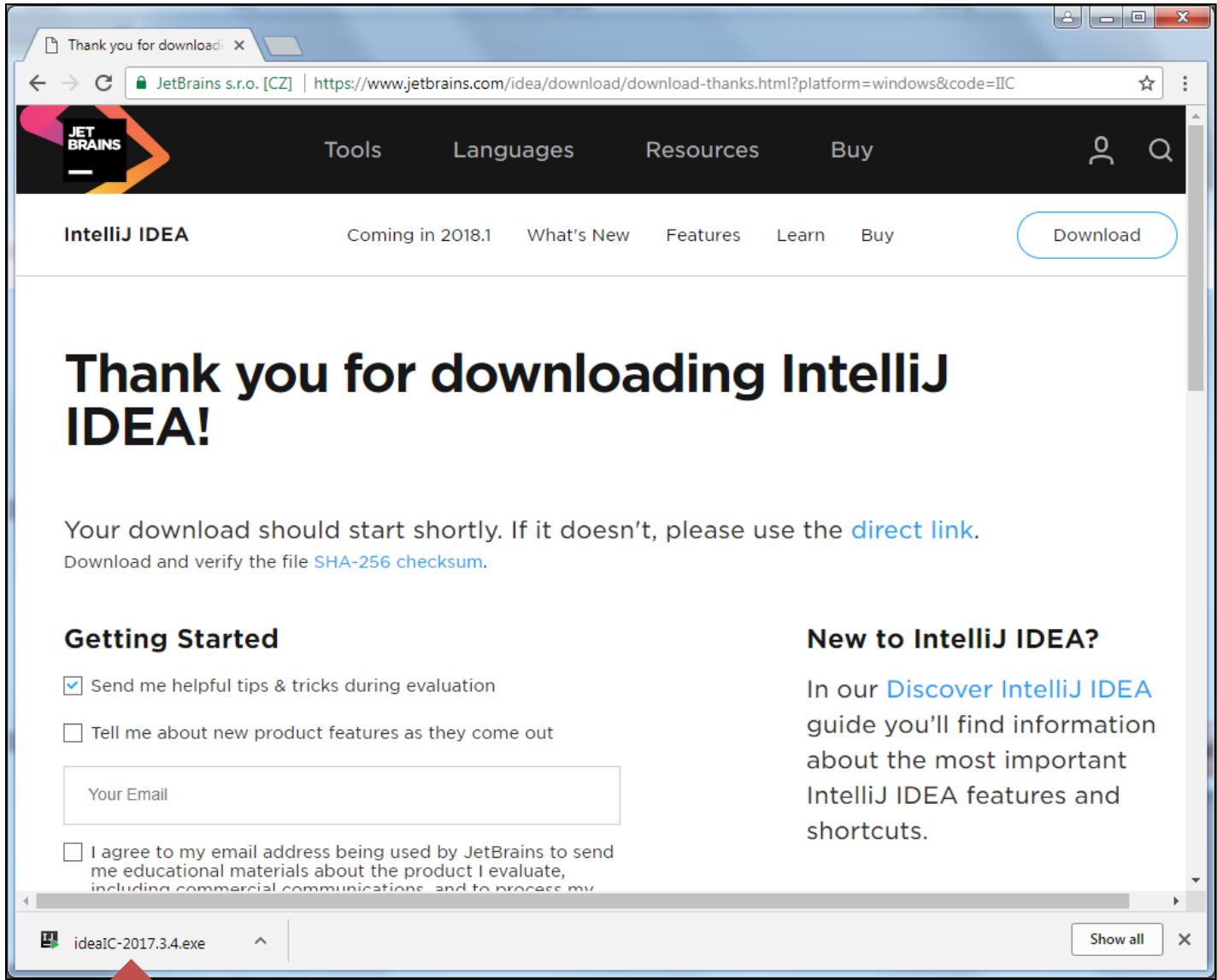
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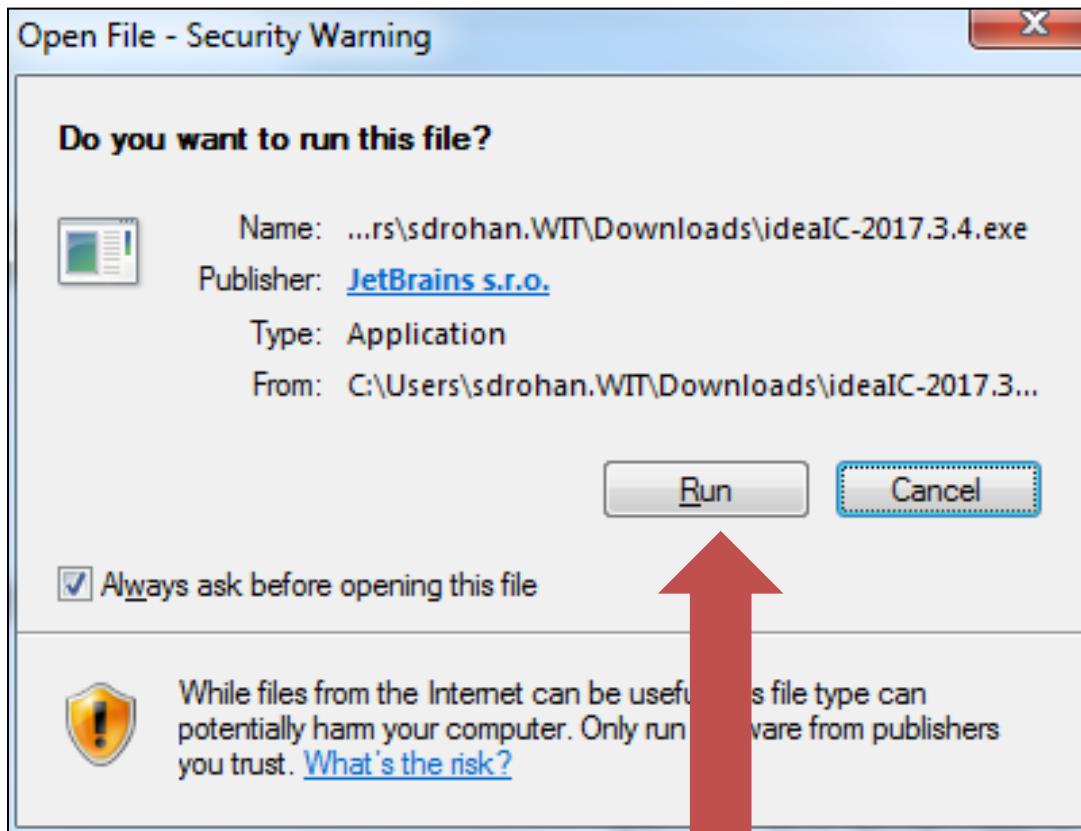
2



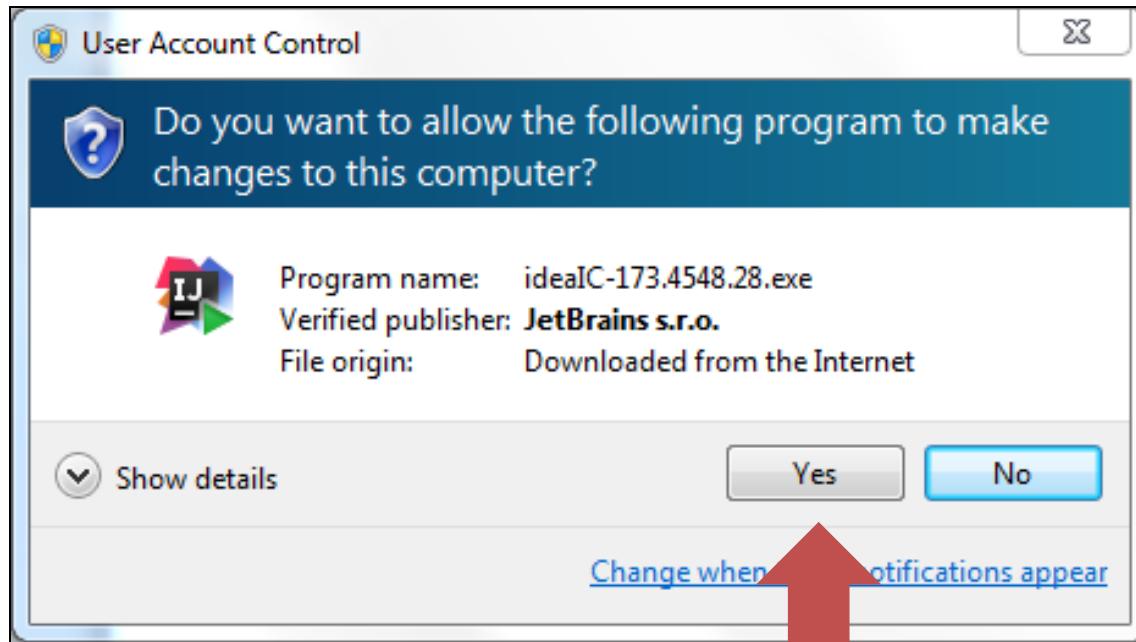
3

Click on the downloaded file to start the installation.

4



If you are presented with a security warning, click Run.



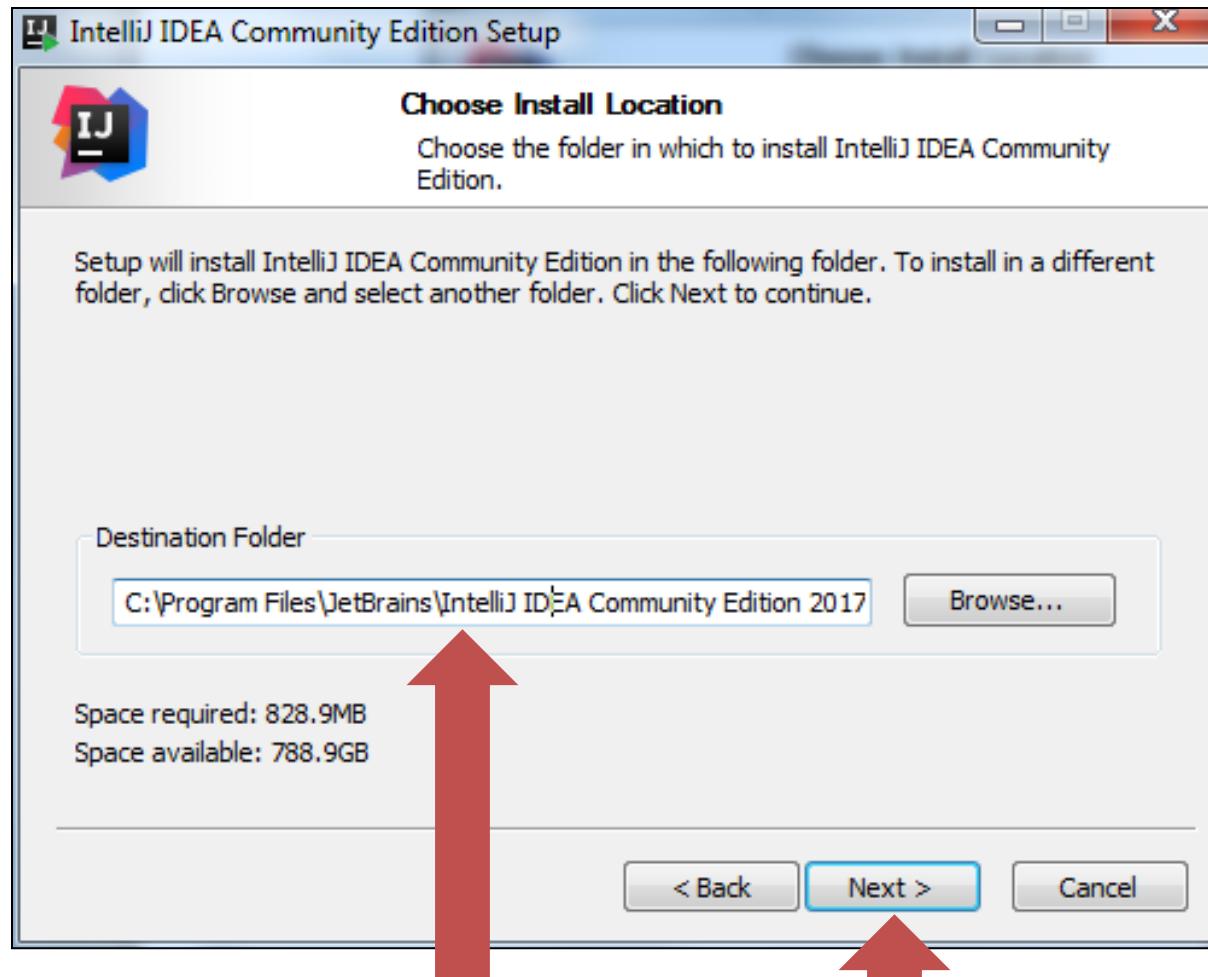
5

If you are presented with this warning, click **Yes**.



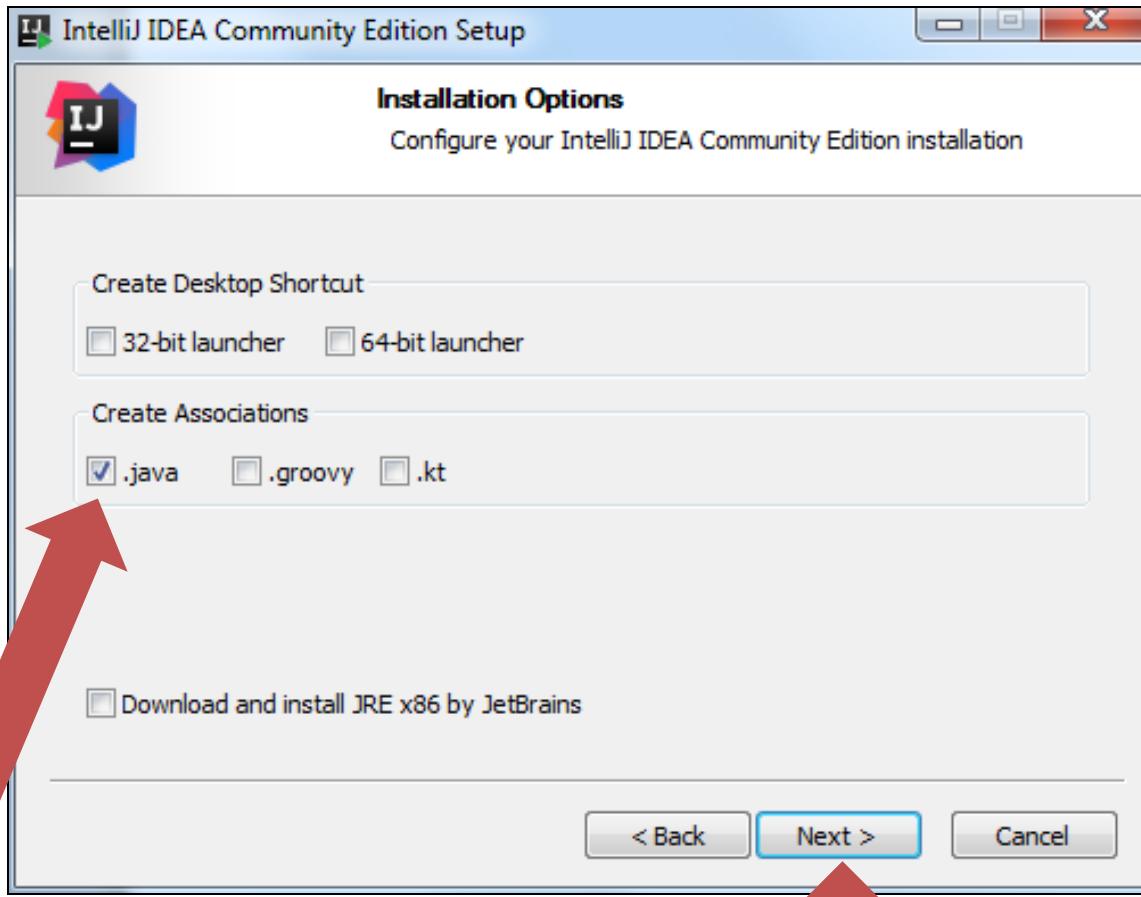
6

Click **Next** to continue...



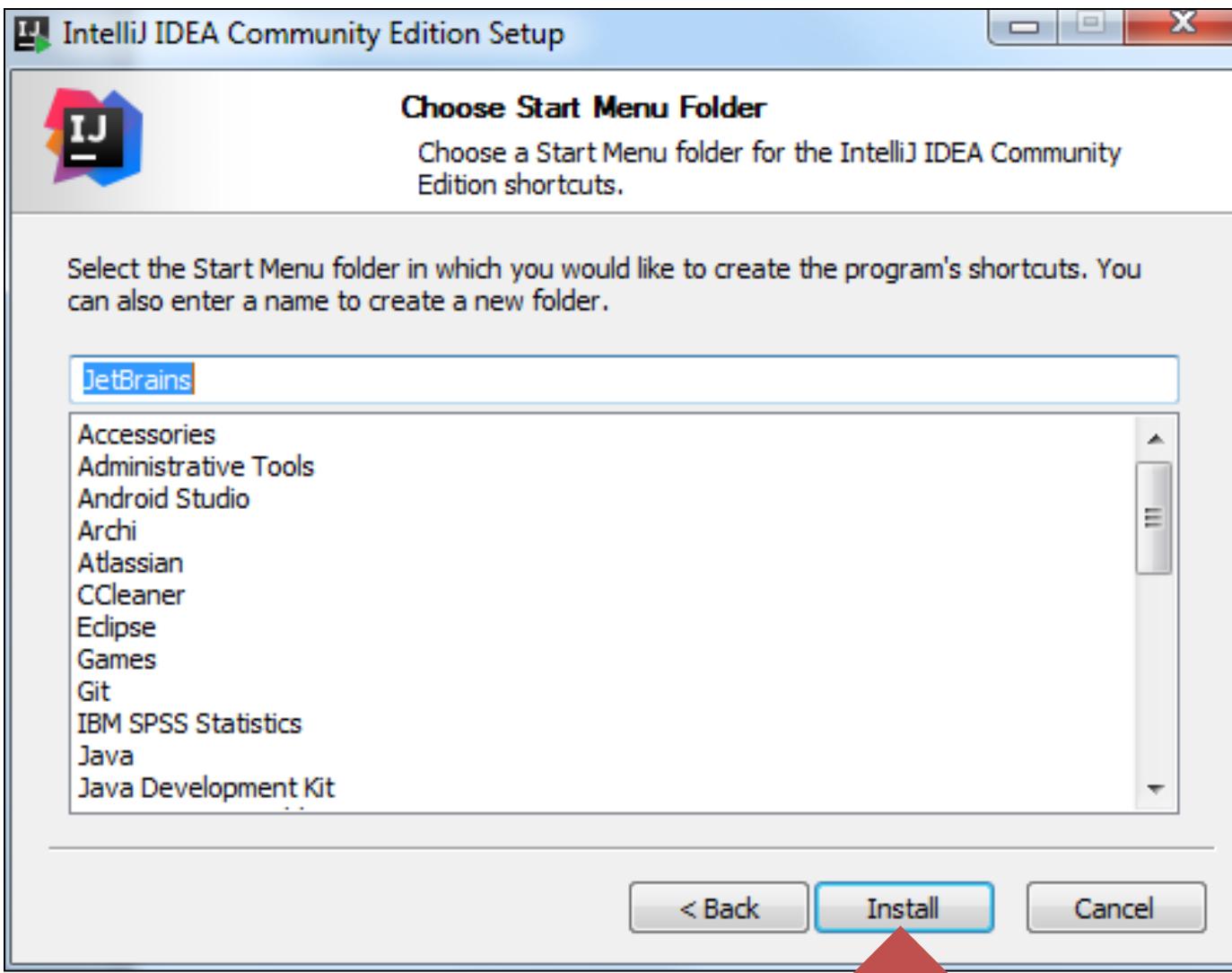
7

Accept the default destination folder
(you can change this if you prefer) and click **Next**.



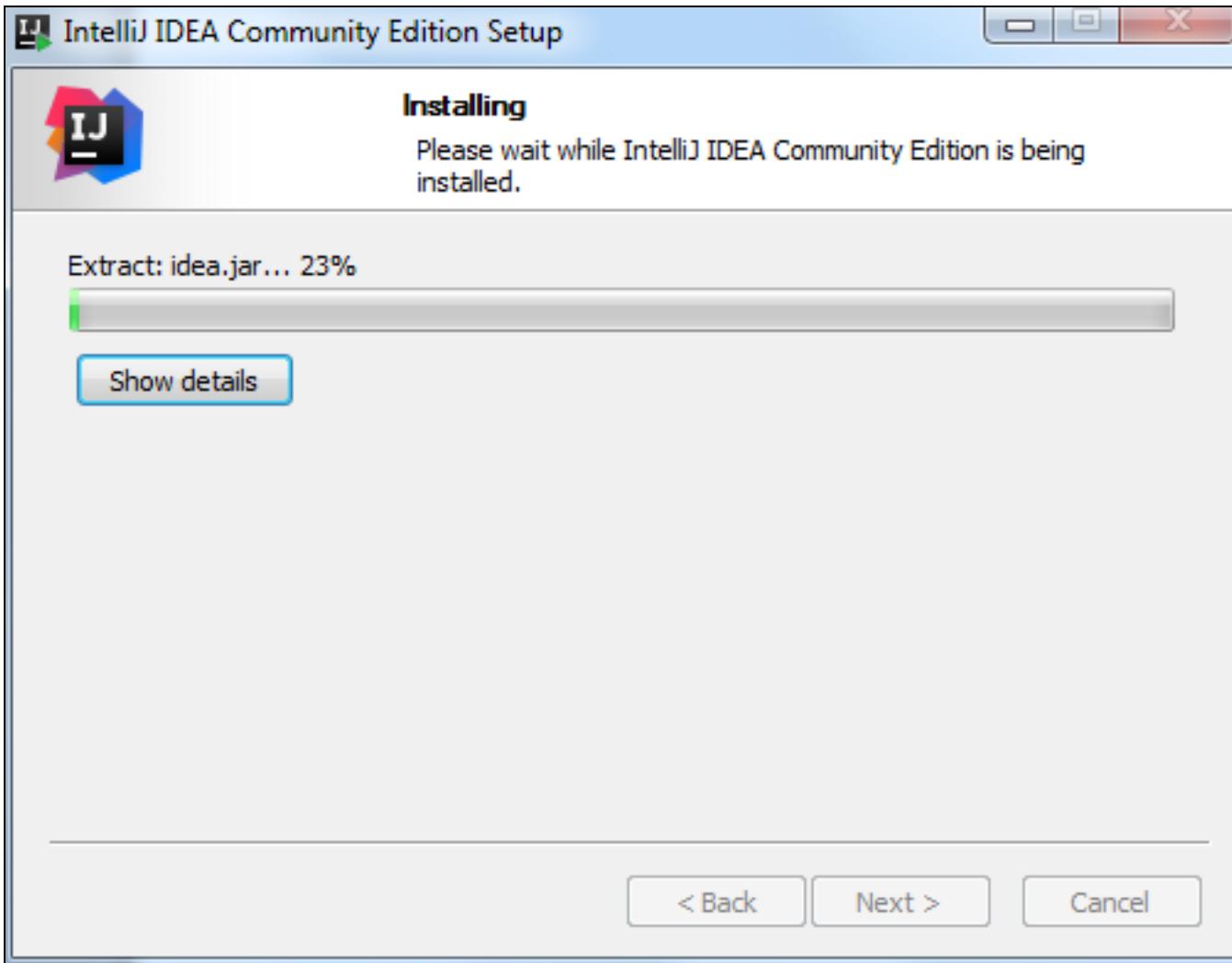
8

Tick the **.java** box to create a file association.
Click the **Next** button.



9

Click **Install** to continue...



10

The installation is in progress...

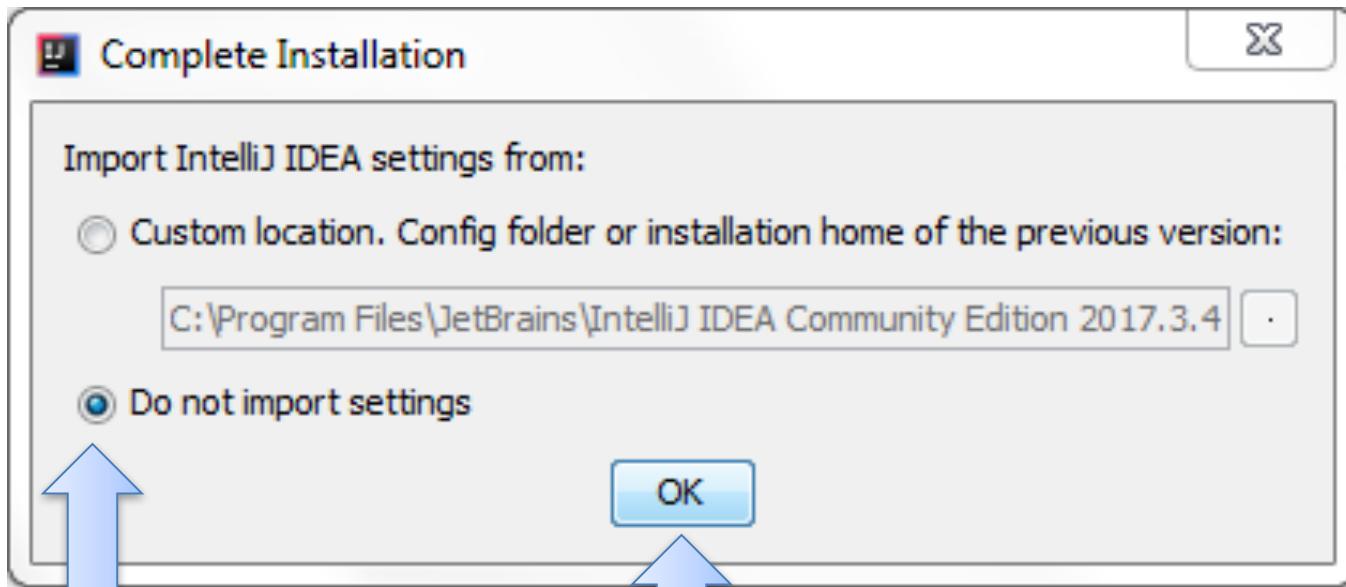


11

The installation is done...click the **Finish** button

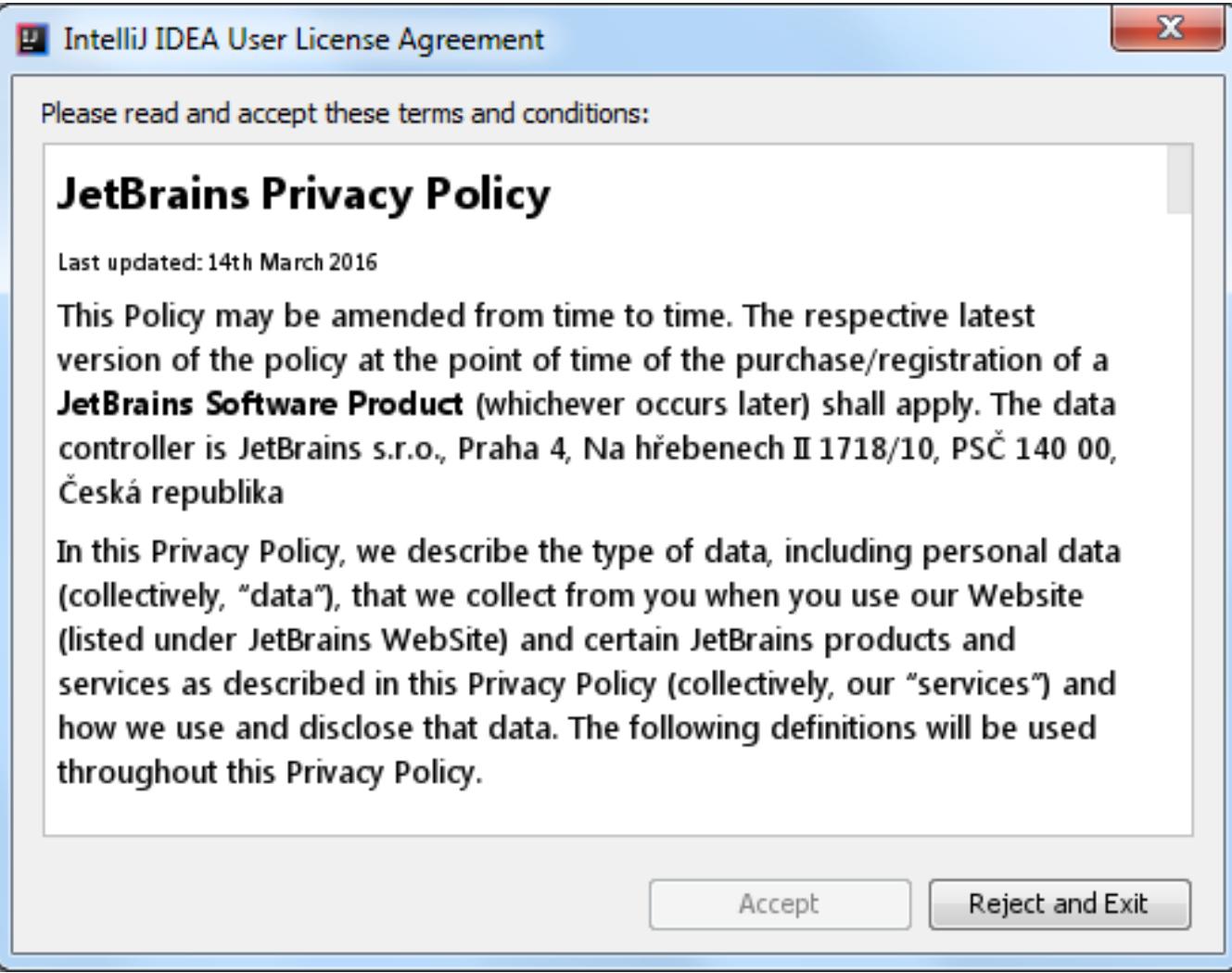
*Now that you have installed the
JDK and IntelliJ,
let's create and run our first
project.*

*We will print **HelloWorld!** to the
console.*



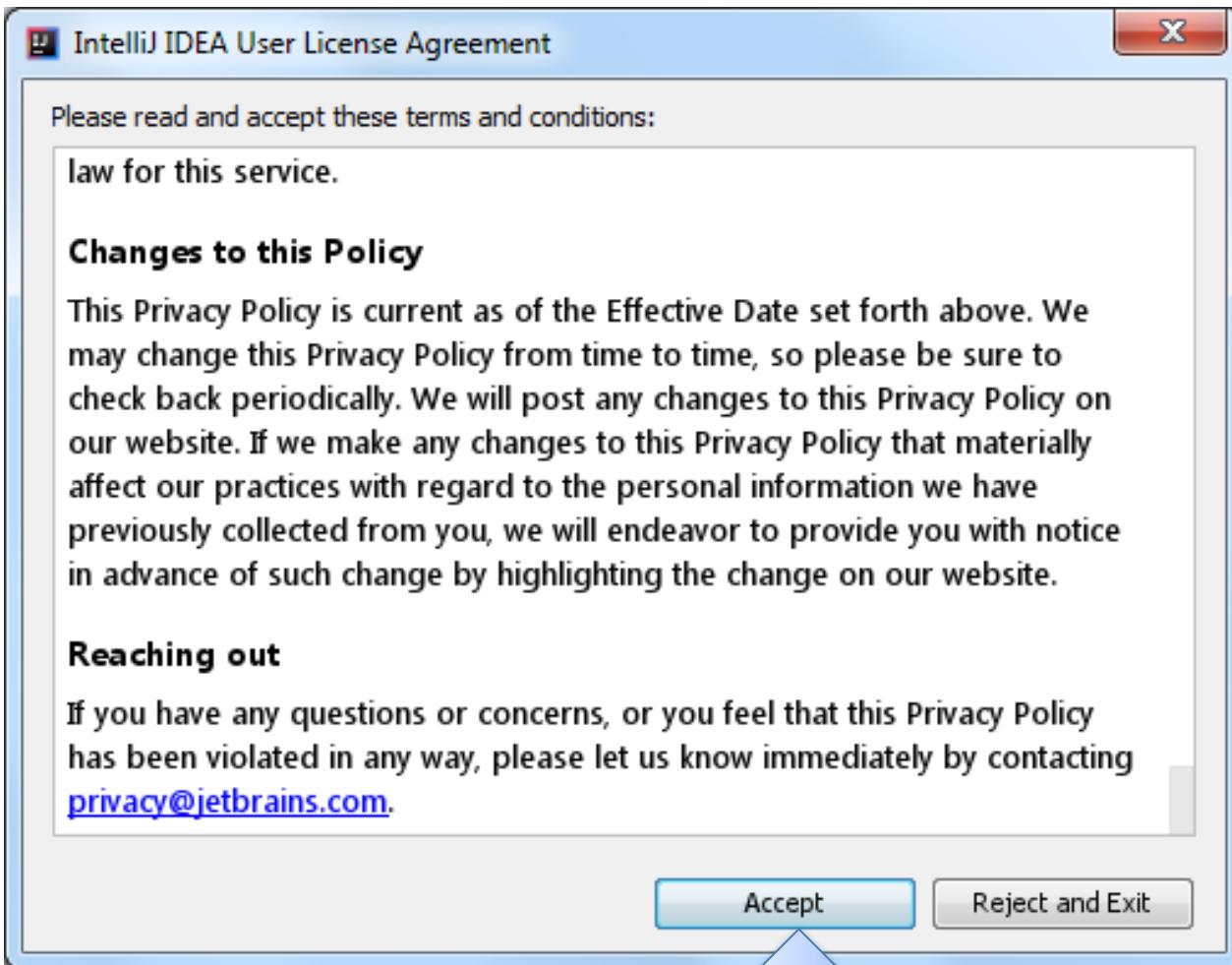
1

Appears when you first start IntelliJ.
Don't import the settings. Click OK.



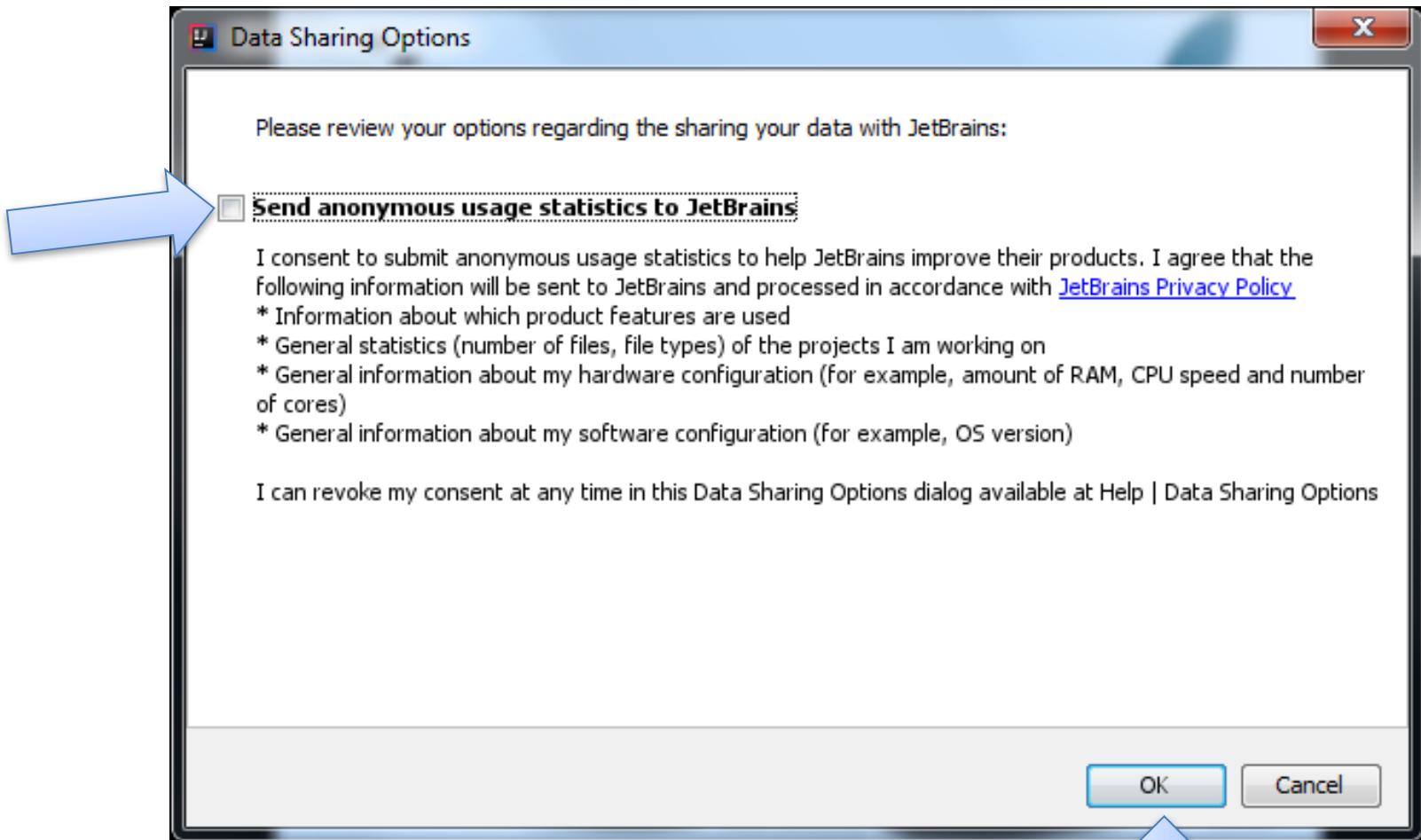
2

Scroll down to the end of the User Licence Agreement (ULA)...



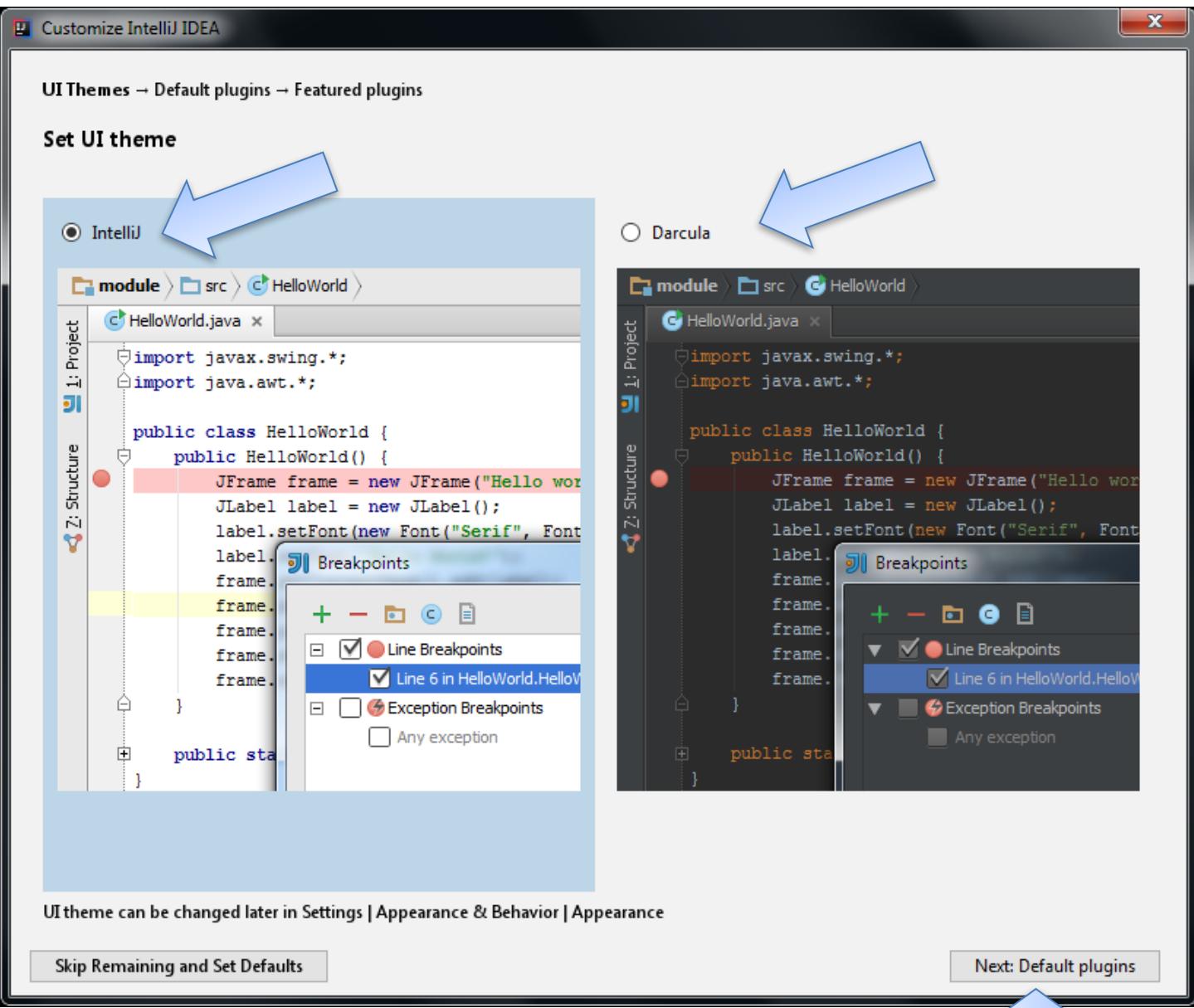
3

When the Accept button appears, click it.



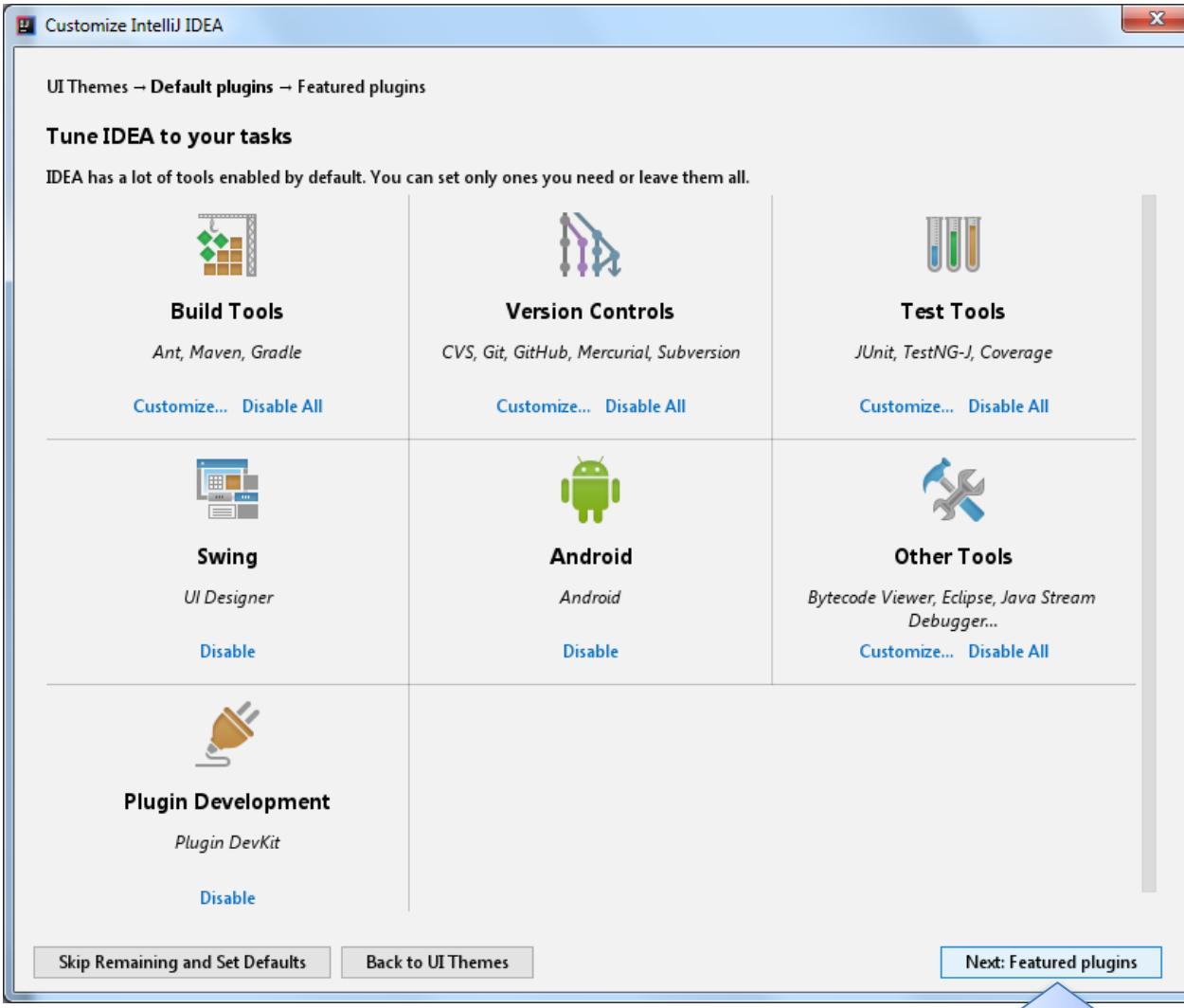
4

Decide if you want to share anonymous data with JetBrains and click the OK button.



5

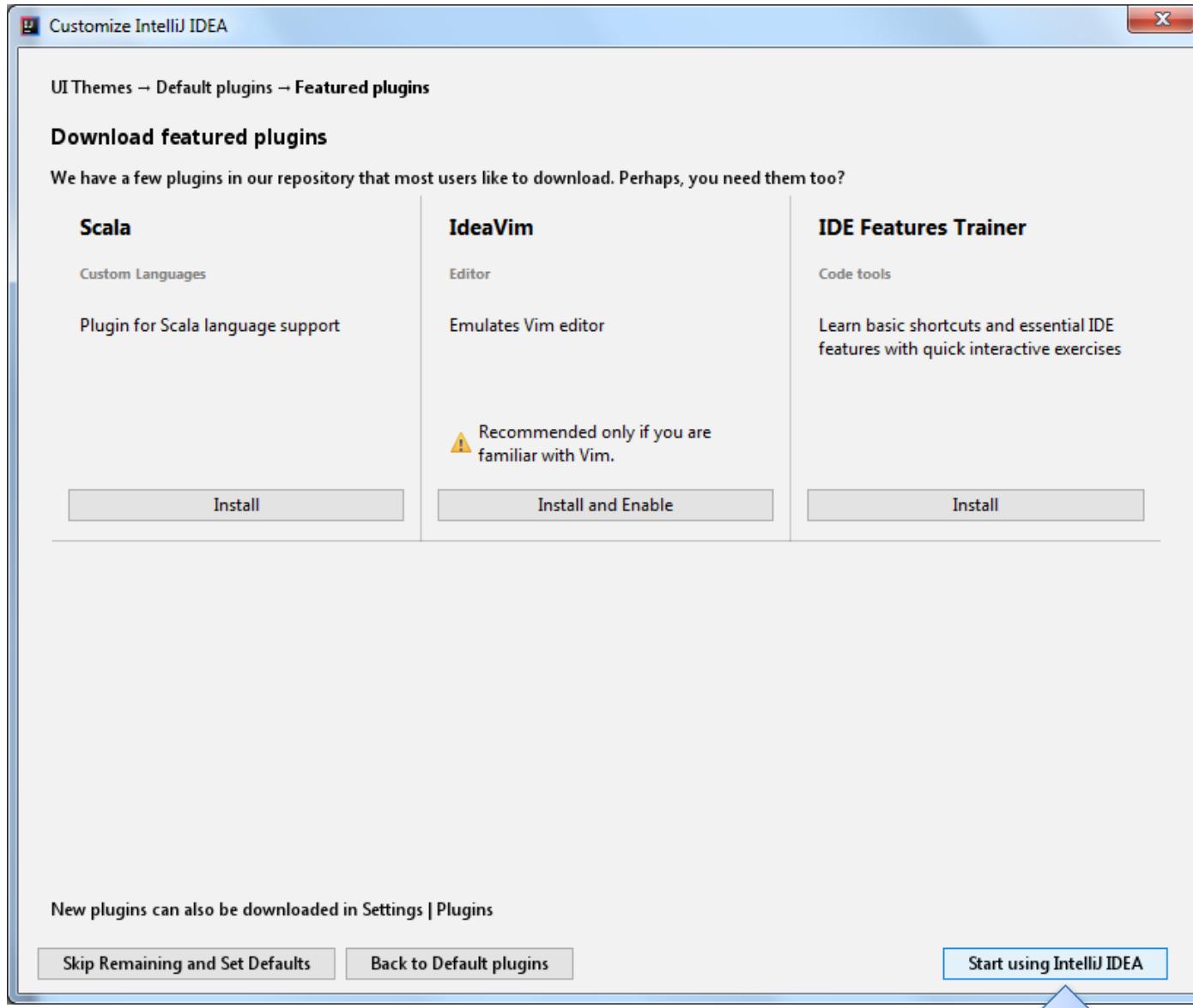
Choose your preferred theme and click Next.



6

You will come across a lot of these plugins, in some form or other, during the course.

At the moment, we won't be using them, so click **Next**.



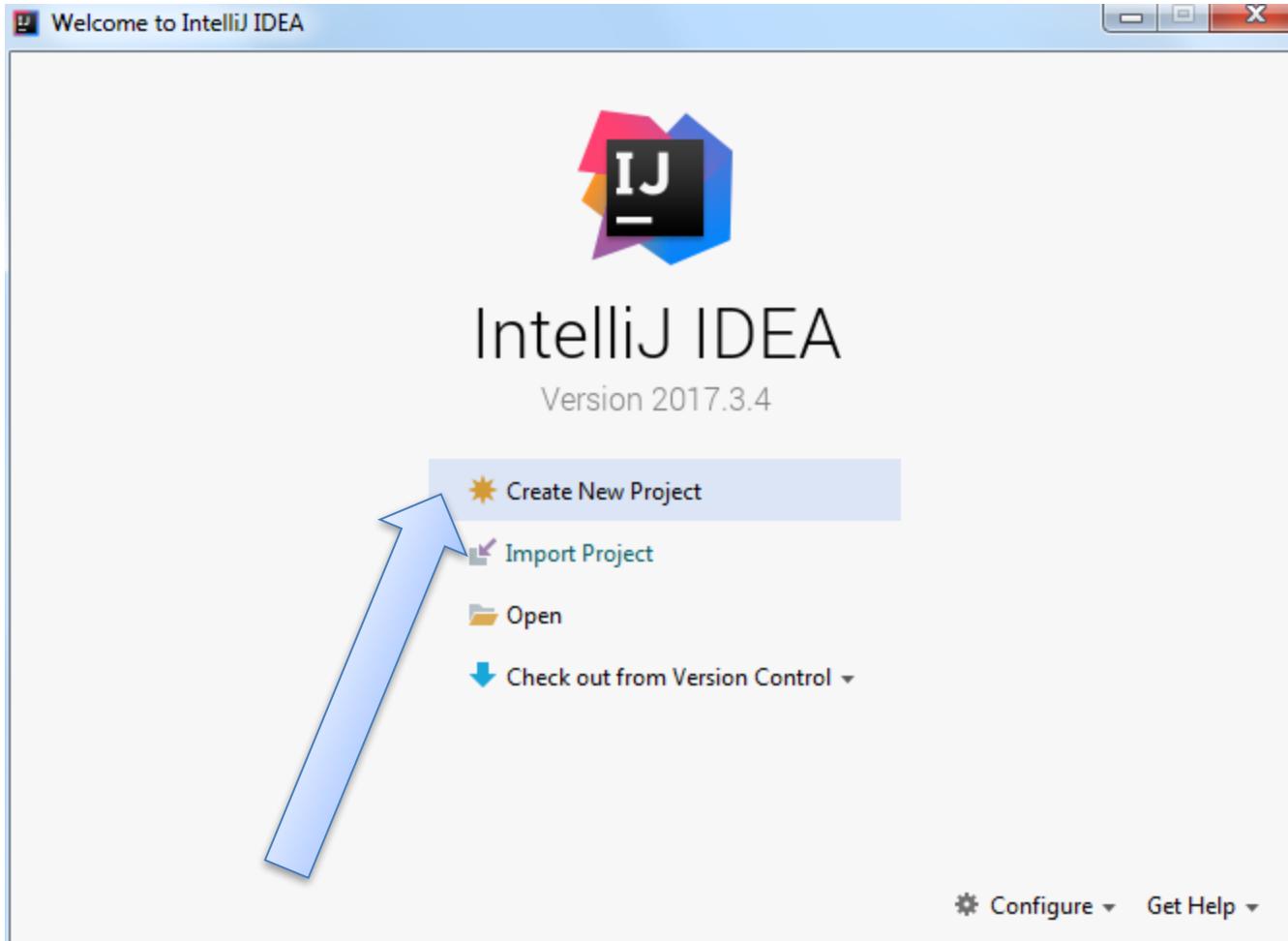
7

Same again here...we aren't using these plugins, so click Start...



8

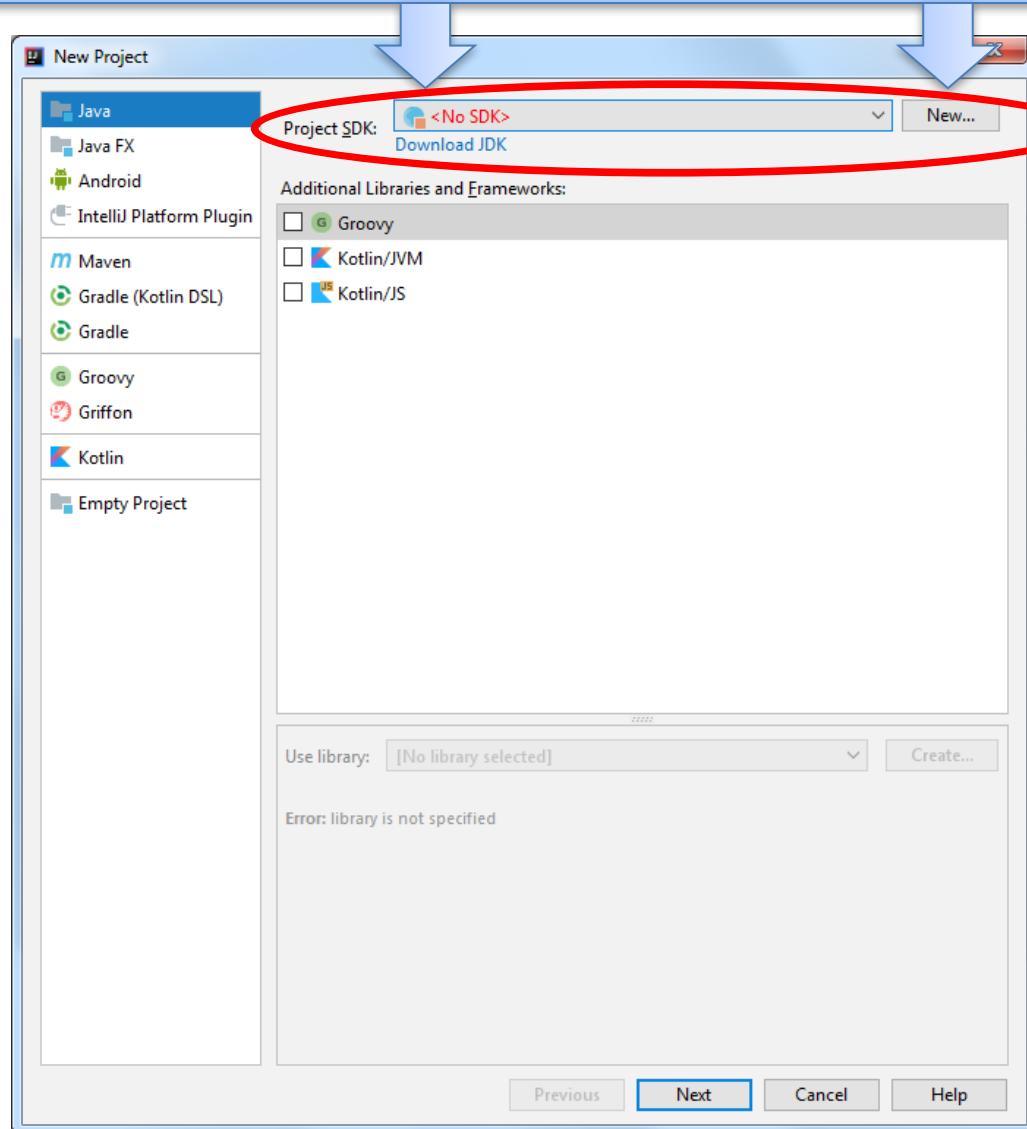
You will see this splash screen and then...

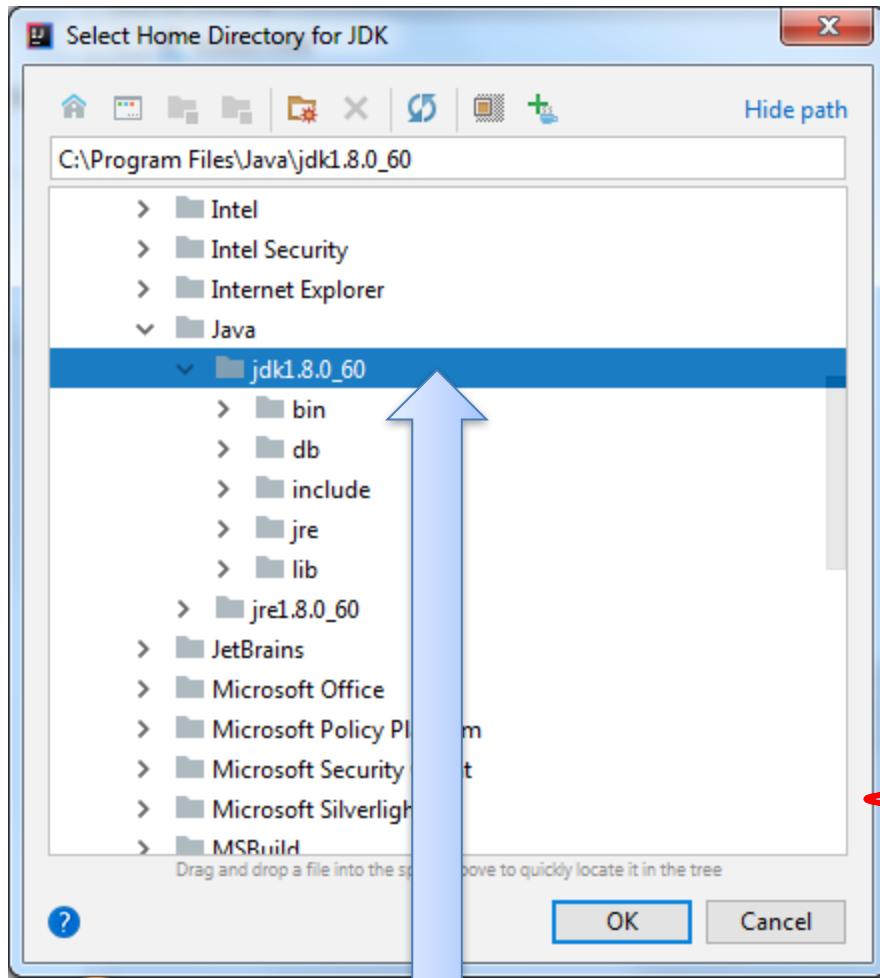


9

IntelliJ is now running...
click on the **Create New Project** link

You may get this...no SDK. If so, click on the “New...” button





11

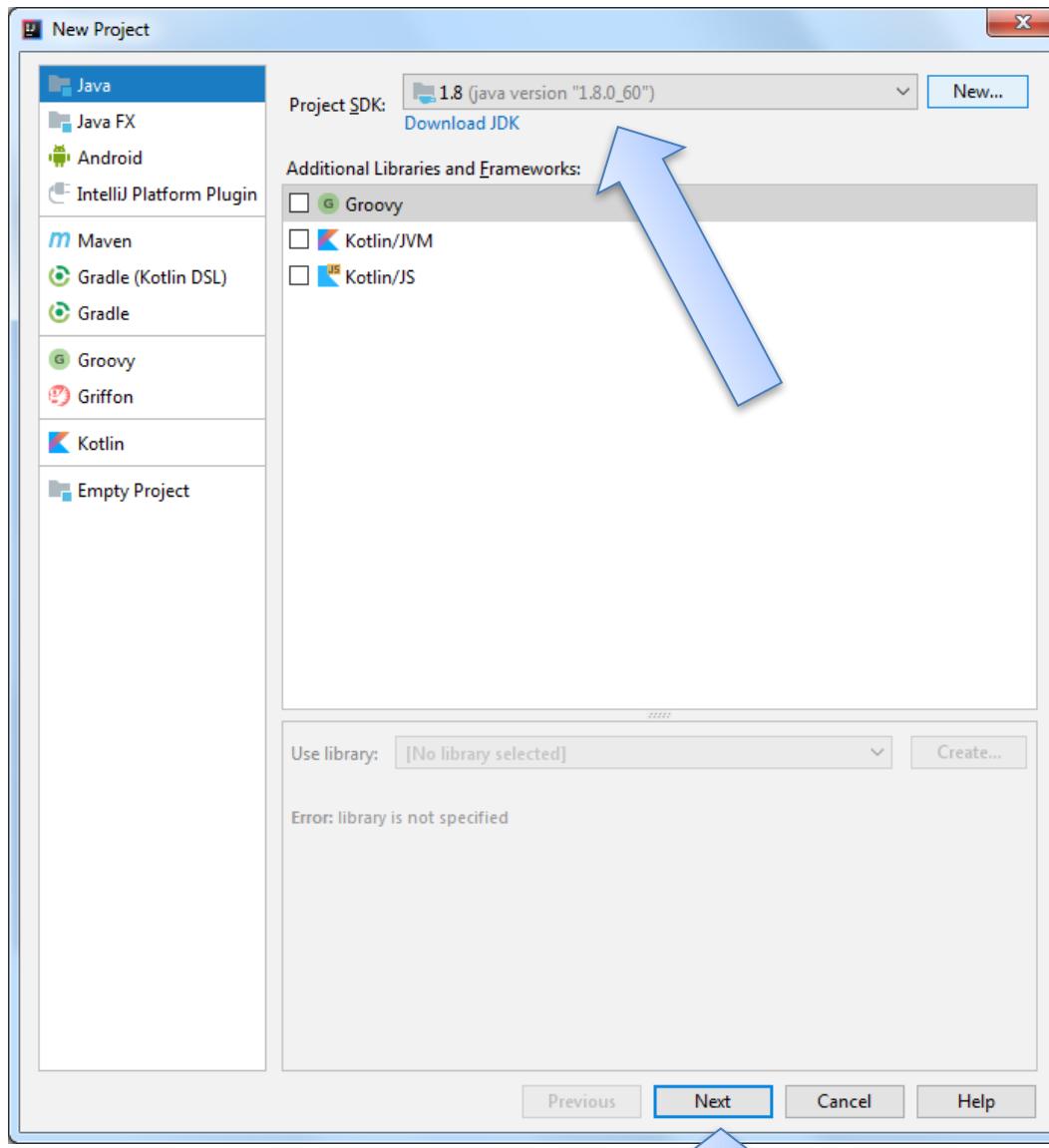
...and **locate** the version of java you previously installed. Click **Ok**

On OSX,
run a terminal window
and enter the following command

Echo \$(/usr/libexec/java_home)

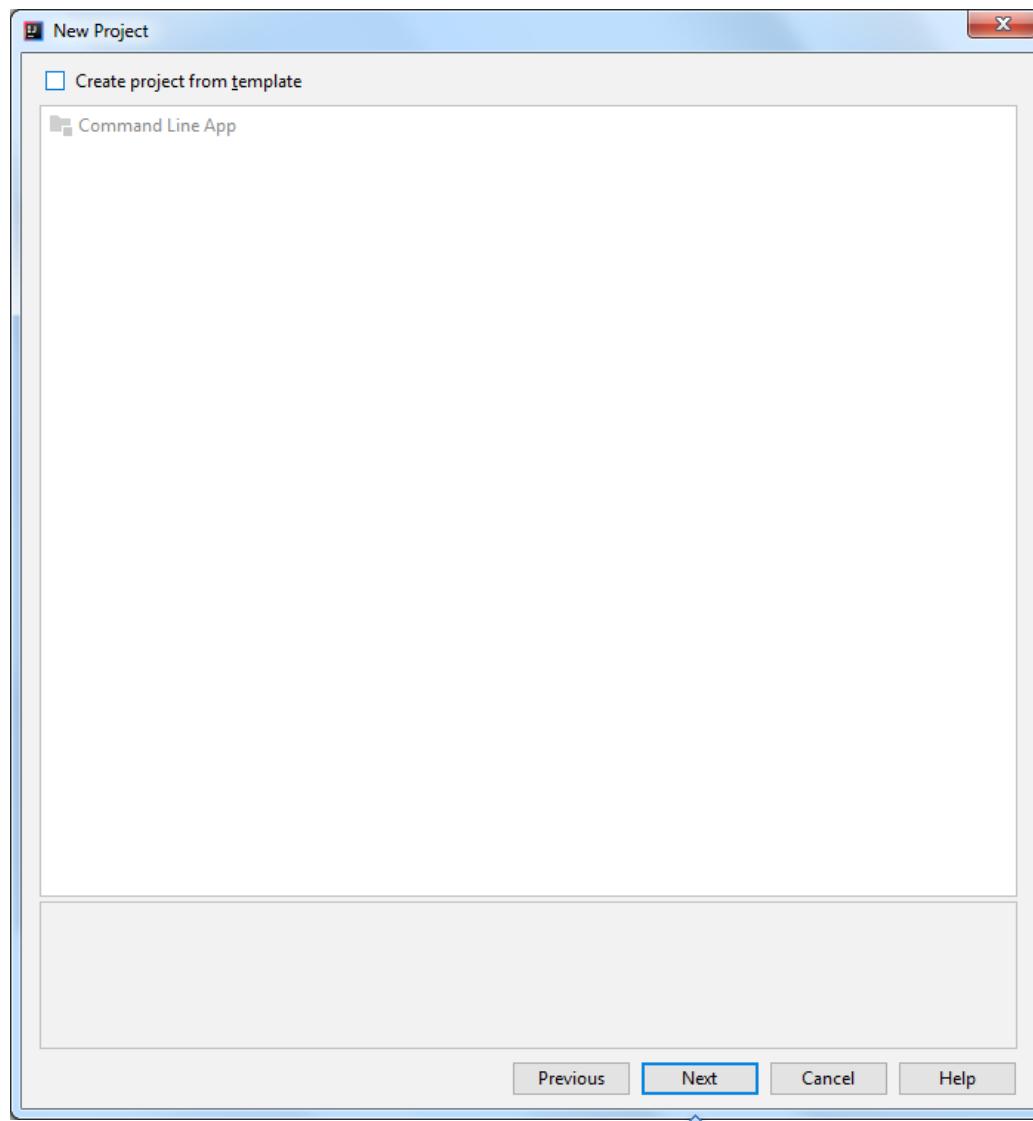
```
colmdunphy ~ bash 80x24
Last login: Sun Feb 18 15:47:12 on ttys000
[Colms-MacBook-Pro-i7-2:~ colmdunphy$ echo $(/usr/libexec/java_home)
/Library/Java/JavaVirtualMachines/jdk-9.0.4.jdk/Contents/Home
Colms-MacBook-Pro-i7-2:~ colmdunphy$ ]
```

(IntelliJ already comes with JDK v8 labelled 1.8)



12

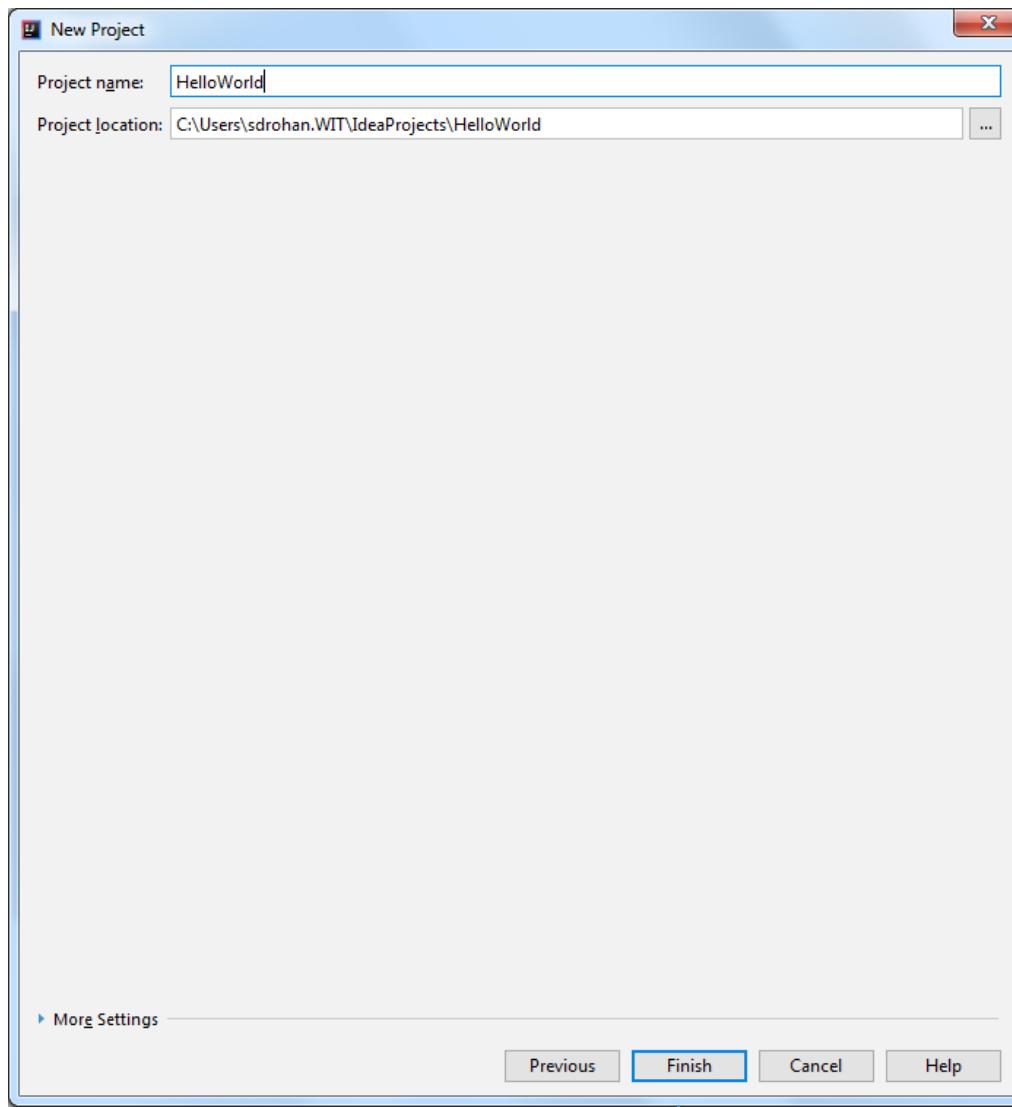
Now that Java is located, click Next.



13

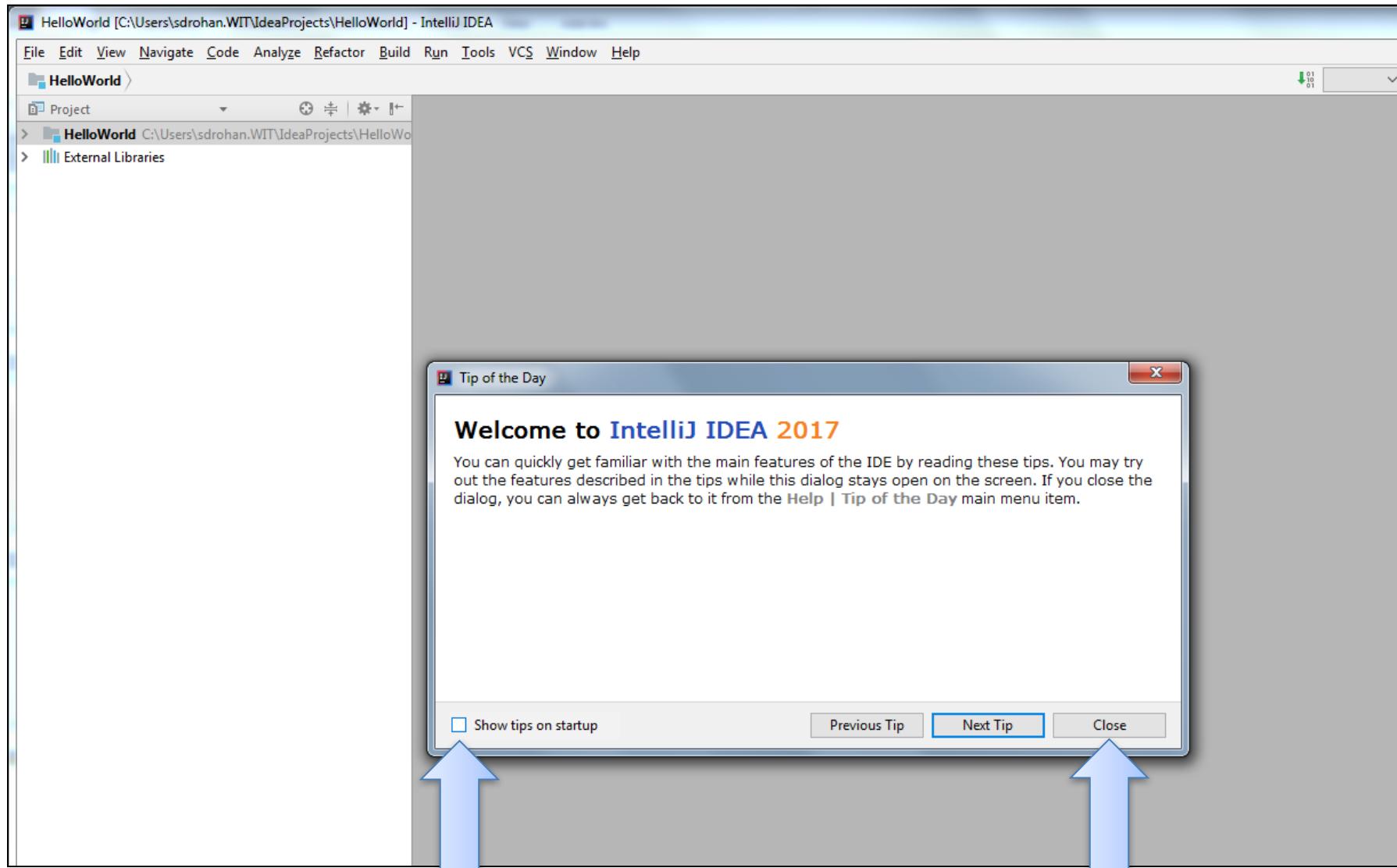


Accept the default settings by clicking Next



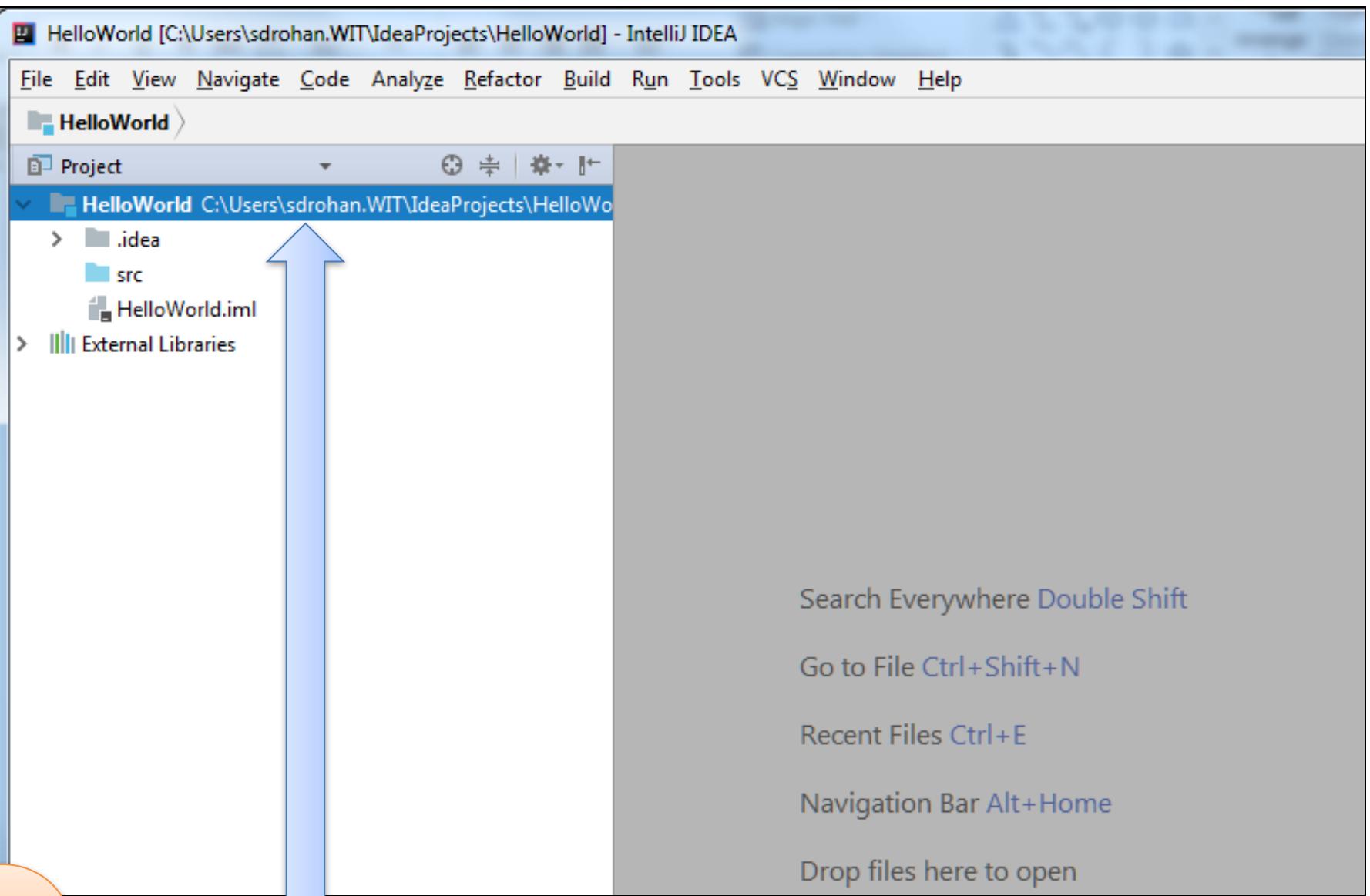
14

Enter project name (**HelloWorld**) and if you are happy with the default location, click Finish.



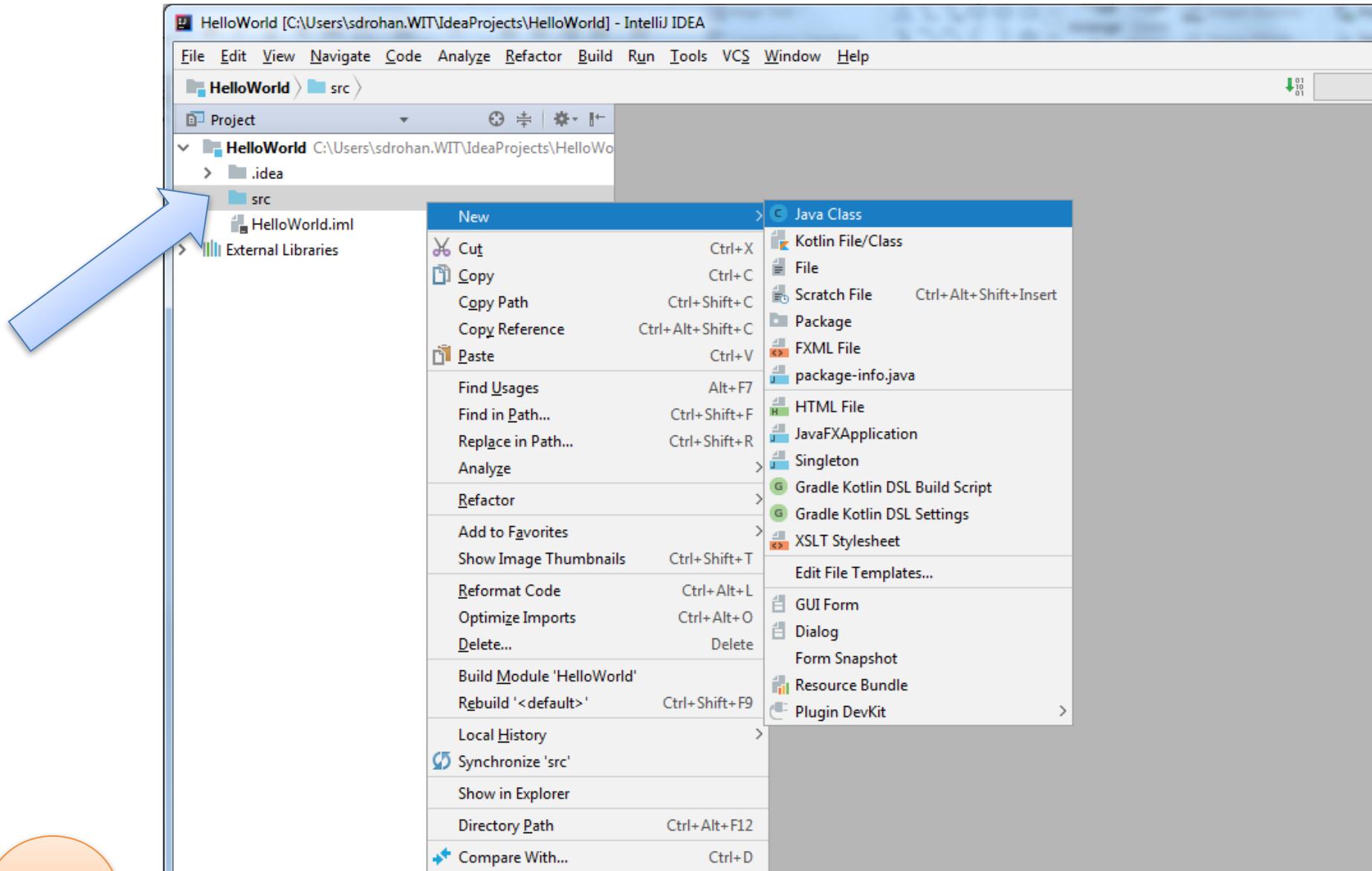
15

Decide whether you want to see tips each time you start IntelliJ. Then close the tip window.



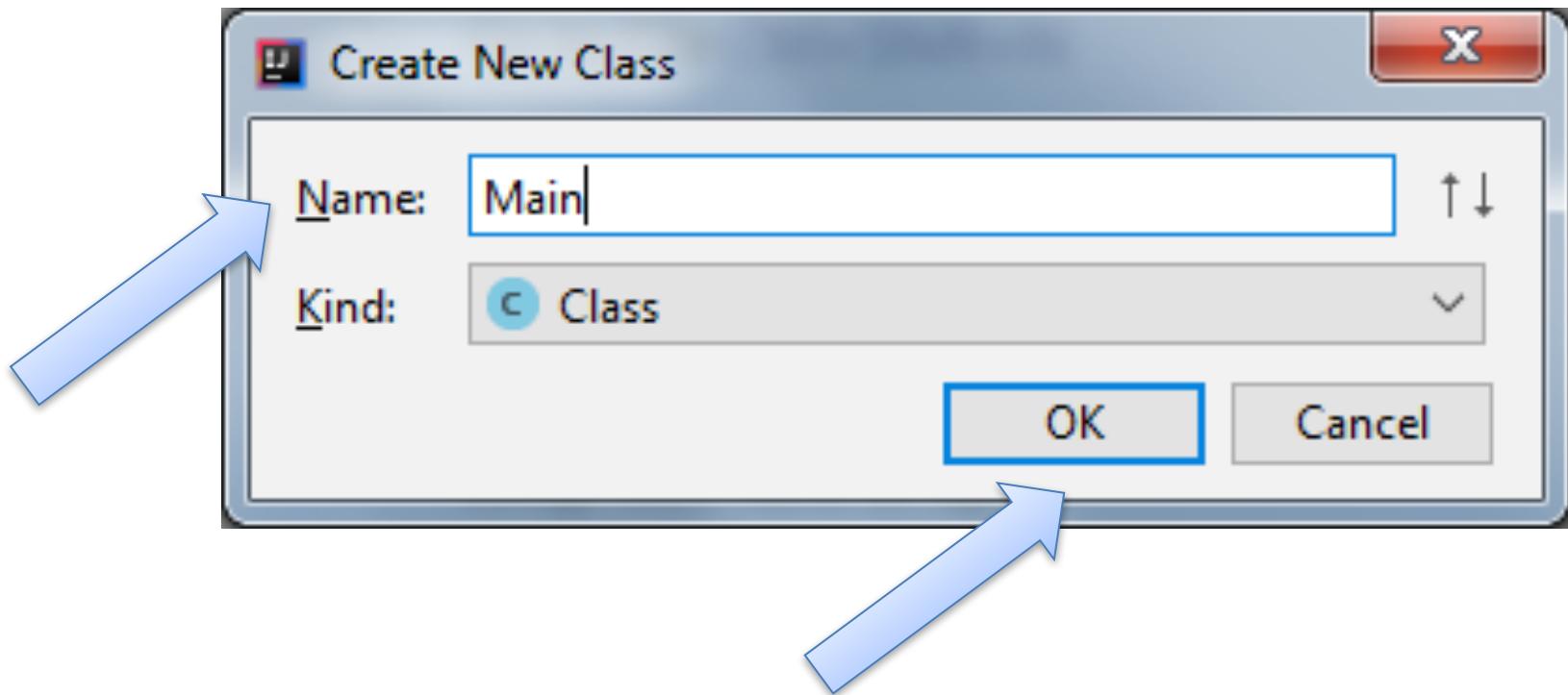
16

An empty HelloWorld project is created.



17

Right click on **src** folder....select **New → Java Class**



18

Enter the class name **Main** and click **OK**

The screenshot shows the IntelliJ IDEA interface with a project named "HelloWorld". The project structure on the left includes ".idea", "src" (which contains "Main.java"), and "External Libraries". The code editor on the right displays the "Main.java" file, which contains the following code:

```
public class Main {
```

A large blue arrow points from the text "A new Main class has been created." at the bottom of the slide towards the "Main.java" file in the code editor.

19

A new **Main** class has been created.

HelloWorld [C:\Users\sdrohan.WIT\IdeaProjects\HelloWorld] - ...\\src\\Main.java [HelloWorld] - IntelliJ IDEA

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HelloWorld > src > Main

Project

HelloWorld C:\Users\sdrohan.WIT\IdeaProjects\HelloWorld

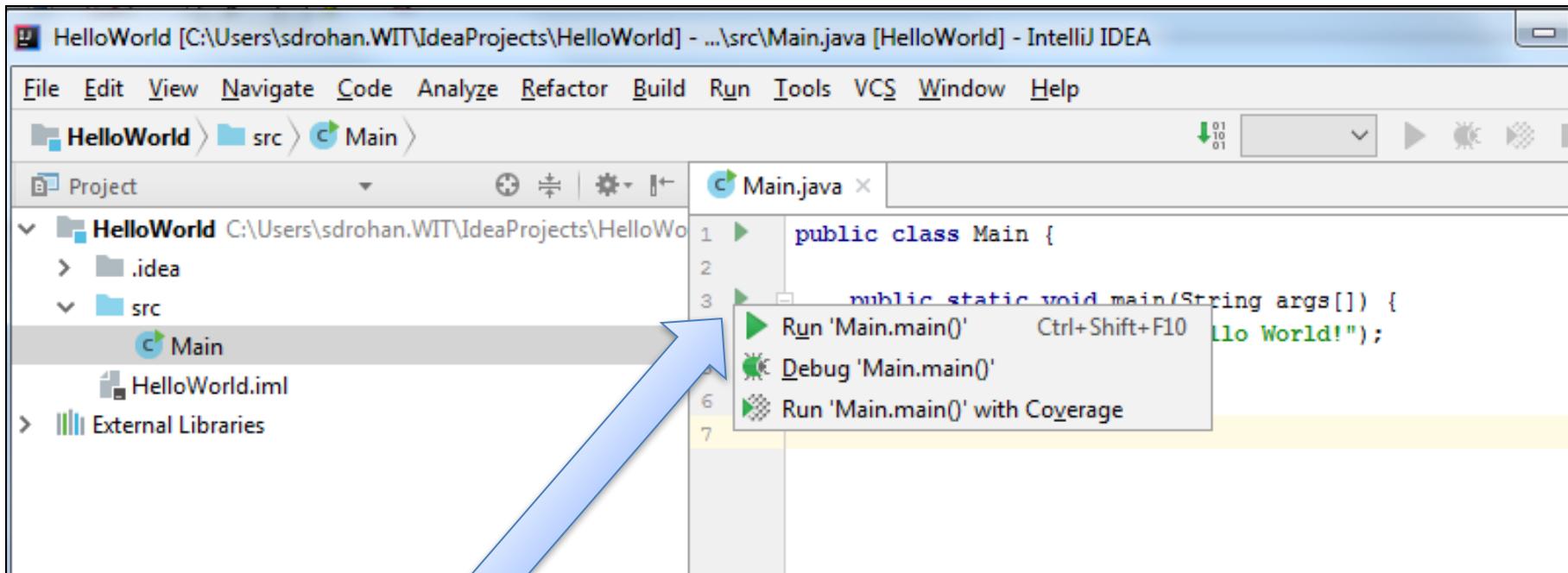
- .idea
- src
- HelloWorld.iml
- External Libraries

Main.java

```
1 public class Main {  
2  
3     public static void main(String args[]) {  
4         System.out.println("Hello World!");  
5     }  
6 }  
7
```

20

Enter this code into the **Main** class.



21

Click on the green triangle beside the main method.
Then select **Run 'Main.main()'**

The screenshot shows the IntelliJ IDEA IDE interface. The title bar reads "HelloWorld [C:\Users\sdrohan.WIT\IdeaProjects\HelloWorld] - ...\\src\\Main.java [HelloWorld] - IntelliJ IDEA". The menu bar includes File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, and Help. The toolbar has icons for project, file, search, and other functions. The Project tool window on the left shows a hierarchy with "HelloWorld" at the root, containing ".idea", "out", "src", and "HelloWorld.iml". The "src" folder is expanded, showing "Main.java" which contains the following code:

```
public class Main {  
    public static void main(String args[]) {  
        System.out.println("Hello World!");  
    }  
}
```

A large blue arrow points from the bottom of the code editor down to the Run tool window. The Run tool window displays the output of the run command: "C:\Program Files\Java\jdk1.8.0_60\bin\java" ... followed by "Hello World!" and "Process finished with exit code 0". A status message at the bottom says "Compilation completed successfully in 6s 305ms (moments ago)".

22

Hello World! is printed to console.

*Let's look at where our
Main.class
file lives...*

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

HelloWorld >

Project HelloWorld C:\Users\sdrohan.WIT\IdeaProjects\HelloWorld

```
public class Main {  
    public static void main(String args[]) {  
        System.out.println("Hello World!");  
    }  
}
```

.idea
out
production
HelloWorld
Main.class
src
Main
HelloWorld.iml
External Libraries

Main

7:1 CRLF UTF-8

Main.class is the **bytecode** of Main.Java

Questions?

