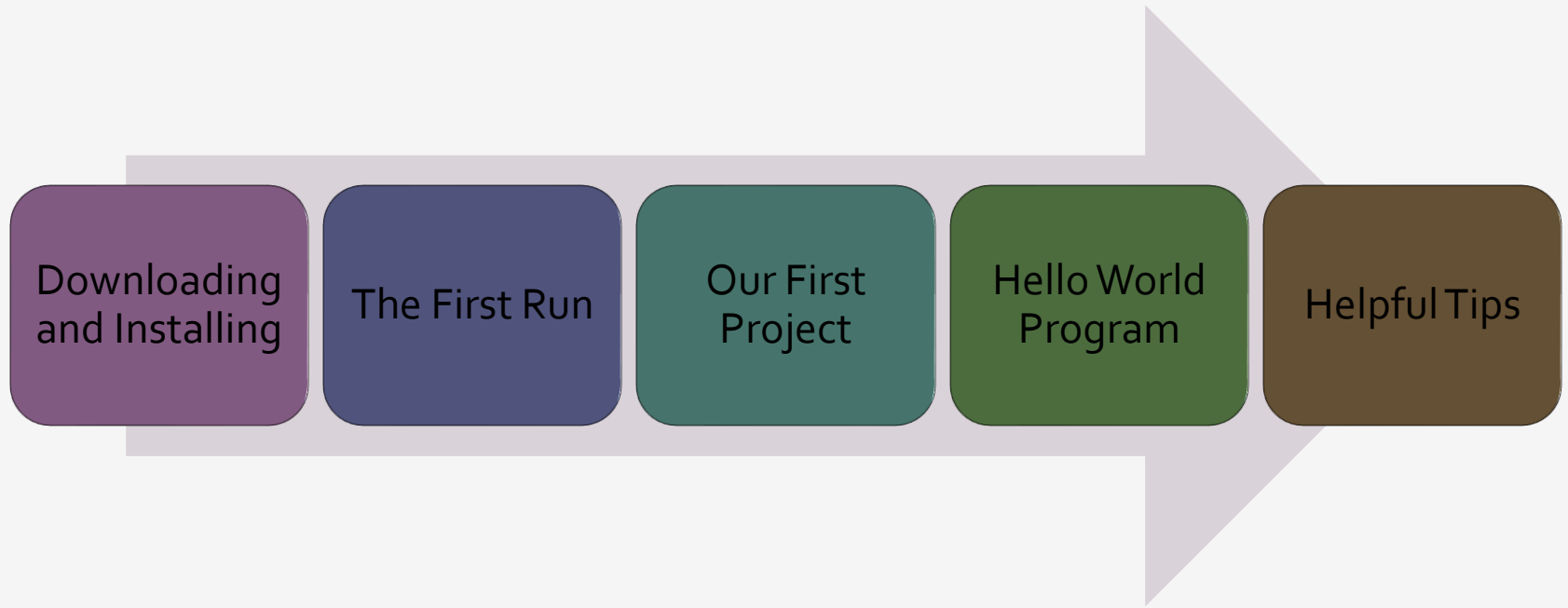


Intro To The IntelliJ IDEA IDE For Java

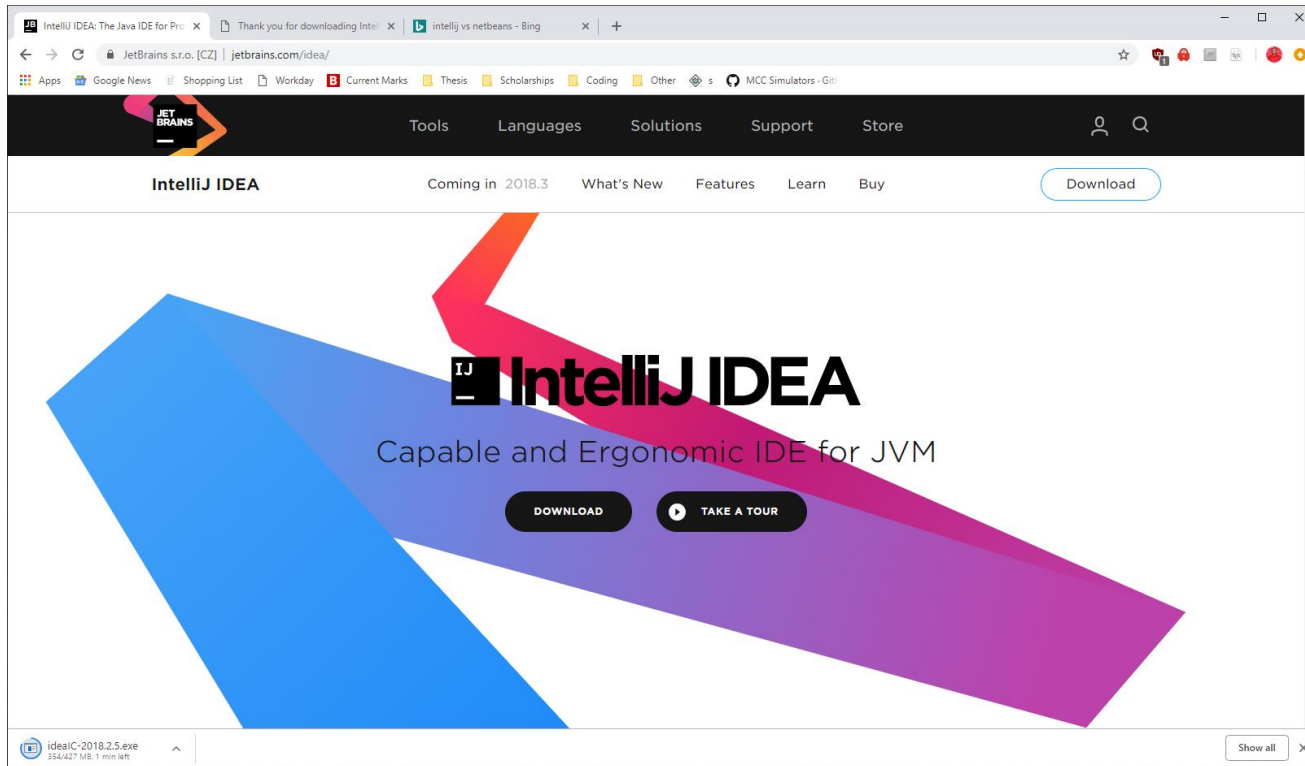
*Date: September 13th 2019
By: Michael Dubé
Email: md1201@brocku.ca*



Contents

Based on the 2018.2 Release of IntelliJ IDEA IDE

DOWNLOADING AND INSTALLING



*STEP 1
PROCEED TO JETBRAINS.COM/IDEA
SELECT DOWNLOAD*

Download IntelliJ IDEA: The Java IDE

Thank you for downloading IntelliJ IDEA

intellij vs netbeans - Bing

JetBrains s.r.o. [CZ] | jetbrains.com/idea/download/#section=windows

Apps Google News Shopping List Workday Current Marks Thesis Scholarships Coding Other MCC Simulators - Git

IntelliJ IDEA Coming in 2018.3 What's New Features Learn Buy [Download](#)

Download IntelliJ IDEA

Windows macOS Linux

Ultimate

For web and enterprise development

[DOWNLOAD](#) [.EXE](#)

Free trial

Community

For JVM and Android development

[DOWNLOAD](#) [.EXE](#)

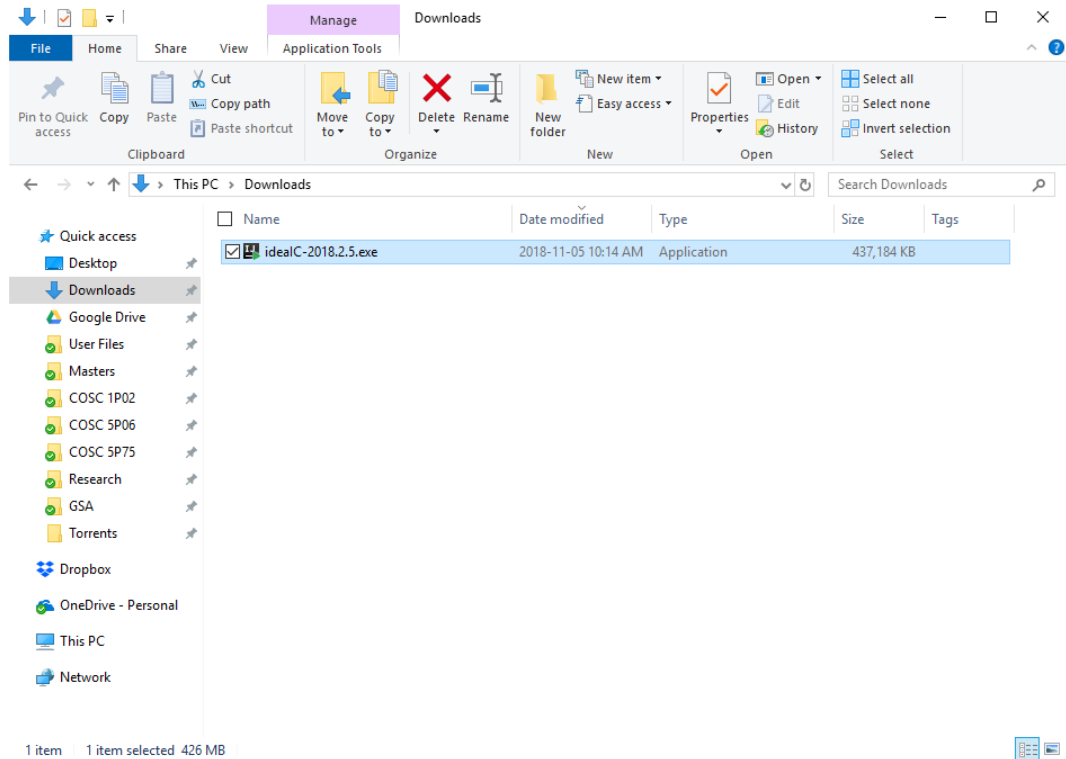
Free, open-source

Version: 2018.2.5
Build: 182.4892.20
Released: October 15, 2018
[Release notes](#)

[System requirements](#)
[Installation instructions](#)
[Previous versions](#)

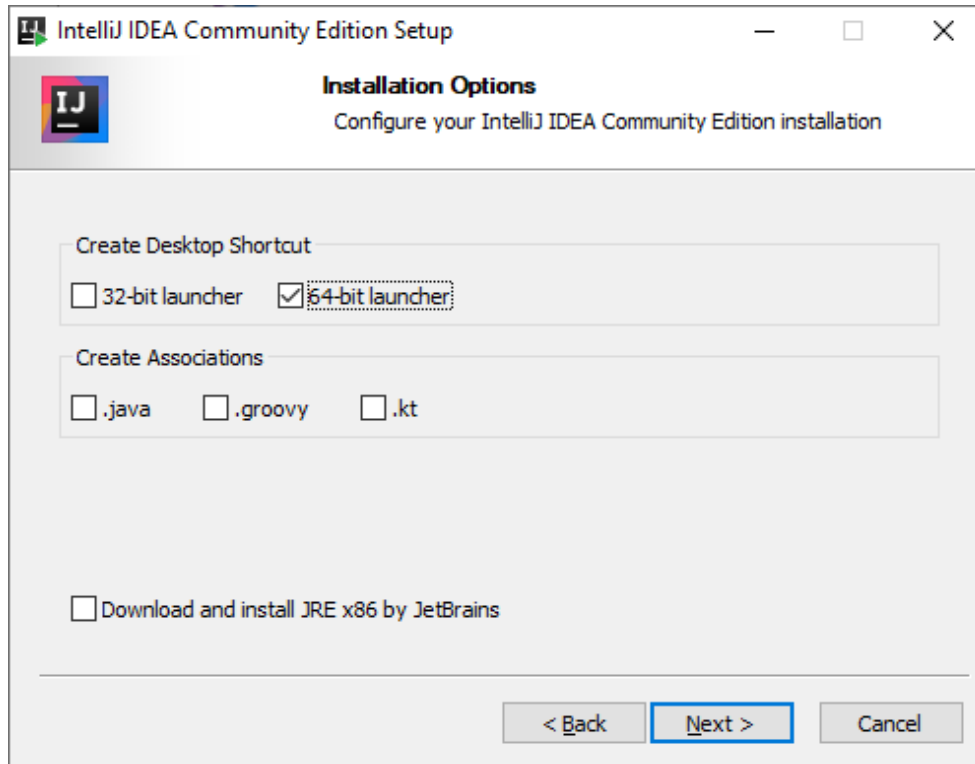
License	Commercial	Open-source, Apache 2.0 ?
Java, Kotlin, Groovy, Scala	✓	✓
Android ?	✓	✓
Maven, Gradle, SBT	✓	✓
Git, SVN, Mercurial, CVS, TFS	✓	✓
Detecting Duplicates ?	✓	

STEP 2
DOWNLOAD THE COMMUNITY VERSION

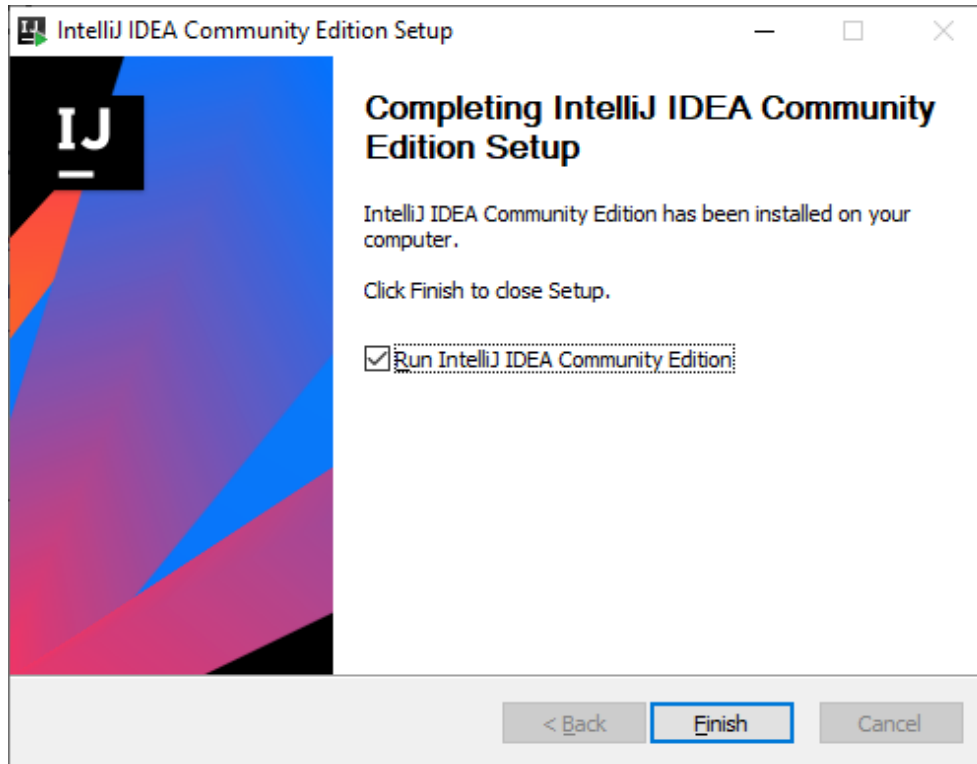


STEP 3

RUN THE INSTALLER

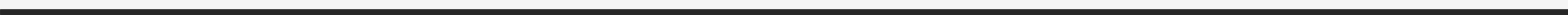


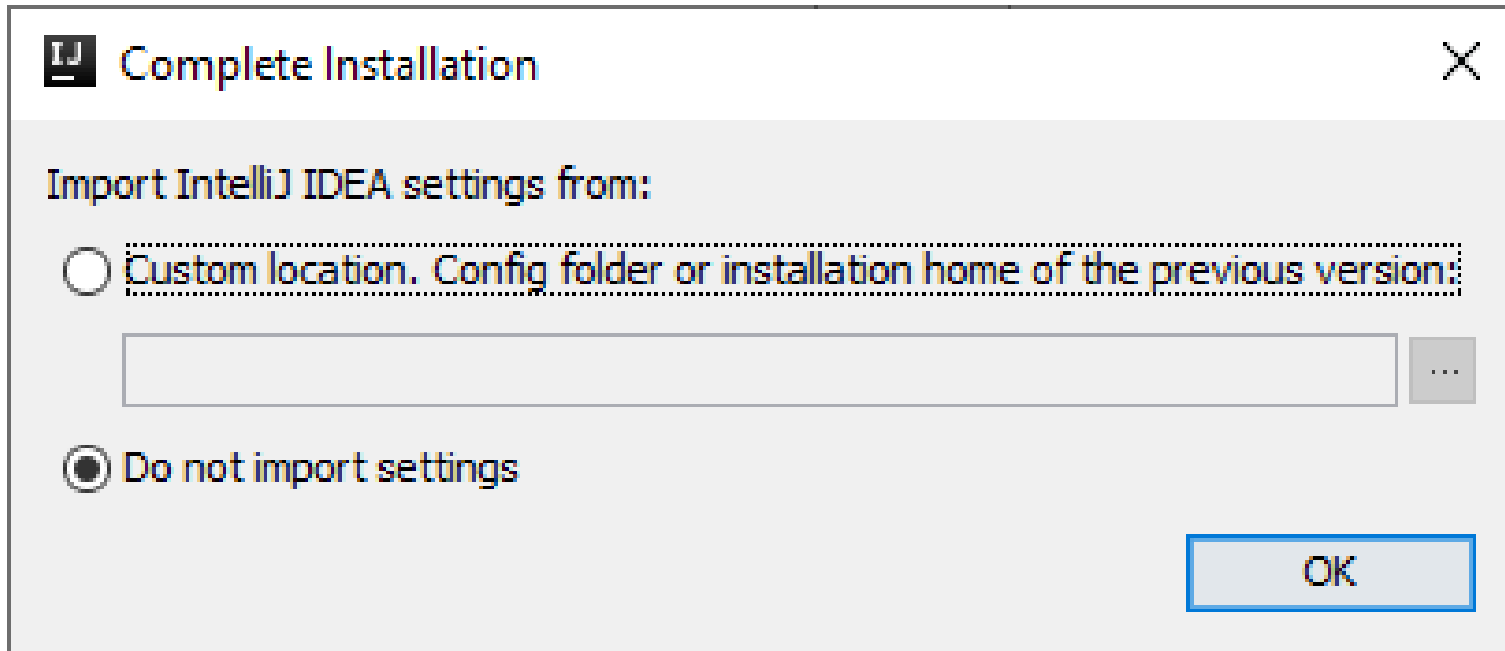
STEP 4
SELECT DESIRED SHORTCUTS AND ASSOCIATIONS



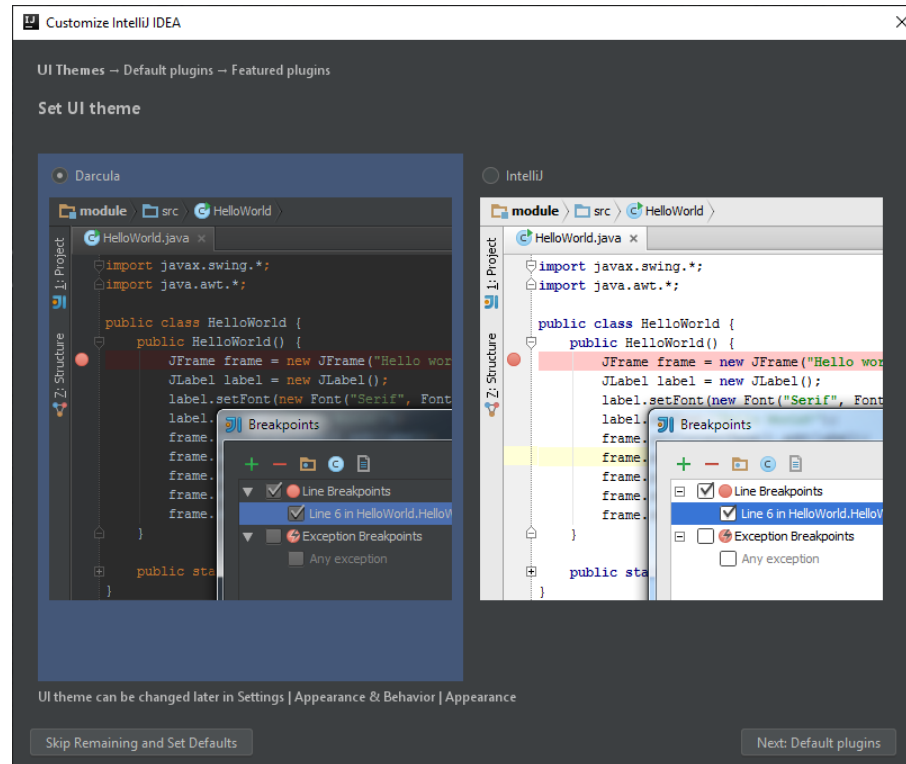
STEP 5
RUN THE IDE AND CLICK FINISH

*THE FIRST
RUN*



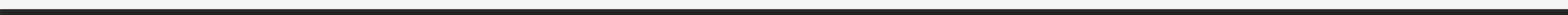


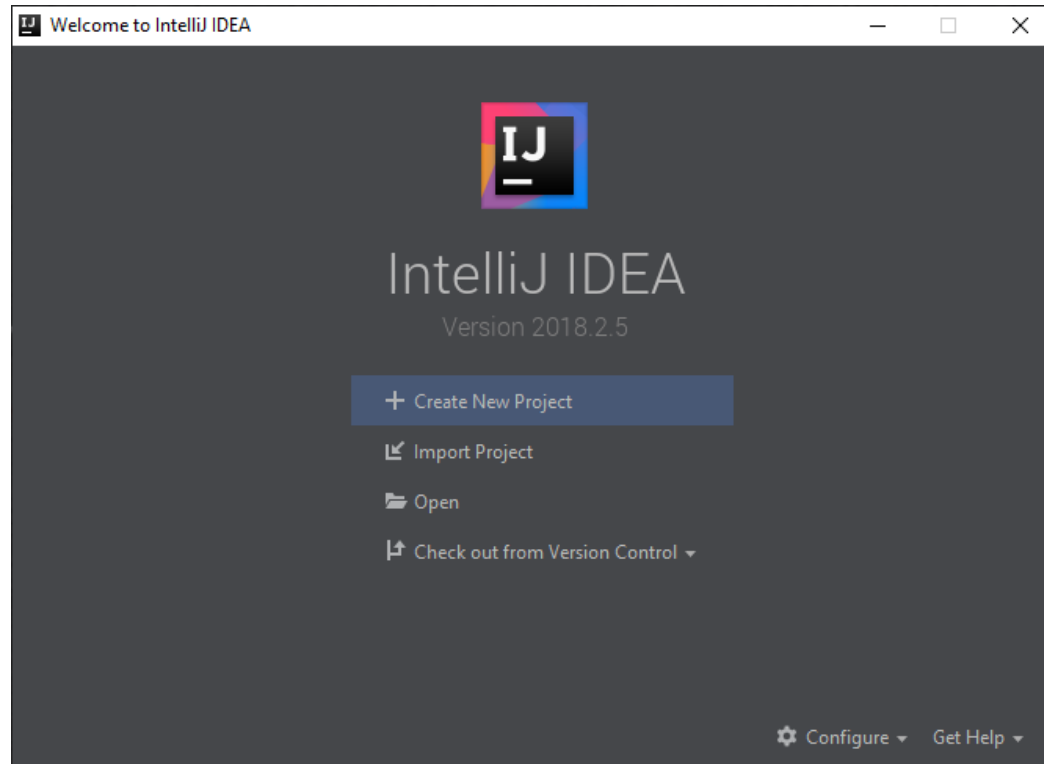
*STEP 1
DO NOT IMPORT SETTINGS AND SELECT OK*



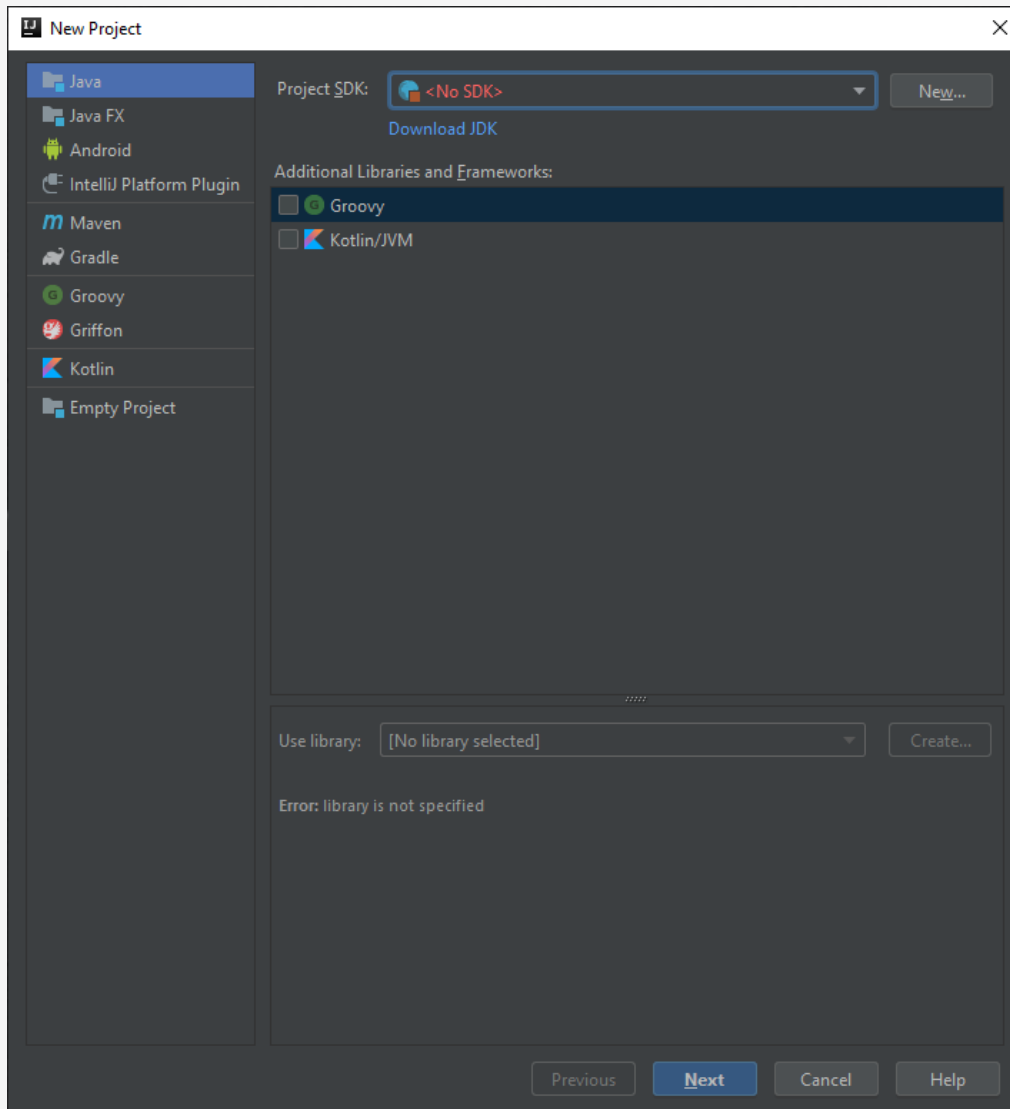
STEP 3
SELECT SKIP REMAINING AND SET DEFAULTS

*OUR FIRST
PROJECT*





STEP 1
SELECT CREATE NEW PROJECT



Step 2 *Select SDK or* *Download JDK*

- We will pretend that you didn't have an SDK to choose. If you did, click [here](#) to skip to Slide 20
- Select Download JDK

Java SE 8u221

Java SE 8u221 includes important bug fixes. Oracle strongly recommends that all Java SE 8 users upgrade to this release.

[Learn more](#) ▶

- [Installation Instructions](#)
- [Release Notes](#)
- [Oracle License](#)
- [Java SE Licensing Information User Manual](#)
 - [Includes Third Party Licenses](#)
- [Certified System Configurations](#)
- [Readme Files](#)
 - [JDK ReadMe](#)
 - [JRE ReadMe](#)

JDK

[DOWNLOAD](#) ↓

Server JRE

[DOWNLOAD](#) ↓

JRE

[DOWNLOAD](#) ↓

Which Java package do I need?

- **Software Developers: JDK** (Java SE Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.
- **Administrators running applications on a server: Server JRE** (Server Java Runtime Environment) For deploying Java applications on servers. Includes tools for JVM monitoring and tools commonly required for server applications, but does not include browser integration (the Java plug-in), auto-update, nor an installer. [Learn more](#) ▶
- **End user running Java on a desktop: JRE:** (Java Runtime Environment). Covers most end-users needs. Contains everything required to run Java applications on your system.

STEP 3
DOWNLOAD JAVA SE 8U221 JDK
(NEWEST JAVA 8 JDK)

The screenshot shows the Oracle Java SE Development Kit 8 Downloads page. The page is titled "Java SE Development Kit 8 Downloads" and includes a navigation menu with options like Overview, Downloads, Documentation, Community, Technologies, and Training. The main content area features a section for "Java SE Development Kit 8 Downloads" with a description of the JDK and a list of download links for various operating systems and architectures. A license agreement section is visible, with "Accept License Agreement" selected.

Java SE Development Kit 8 Downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

See also:

- Java Developer Newsletter: From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- Java Developer Day hands-on workshops (free) and other events
- Java Magazine

JDK 8u191 checksum
JDK 8u192 checksum

Java SE Development Kit 8u191

You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

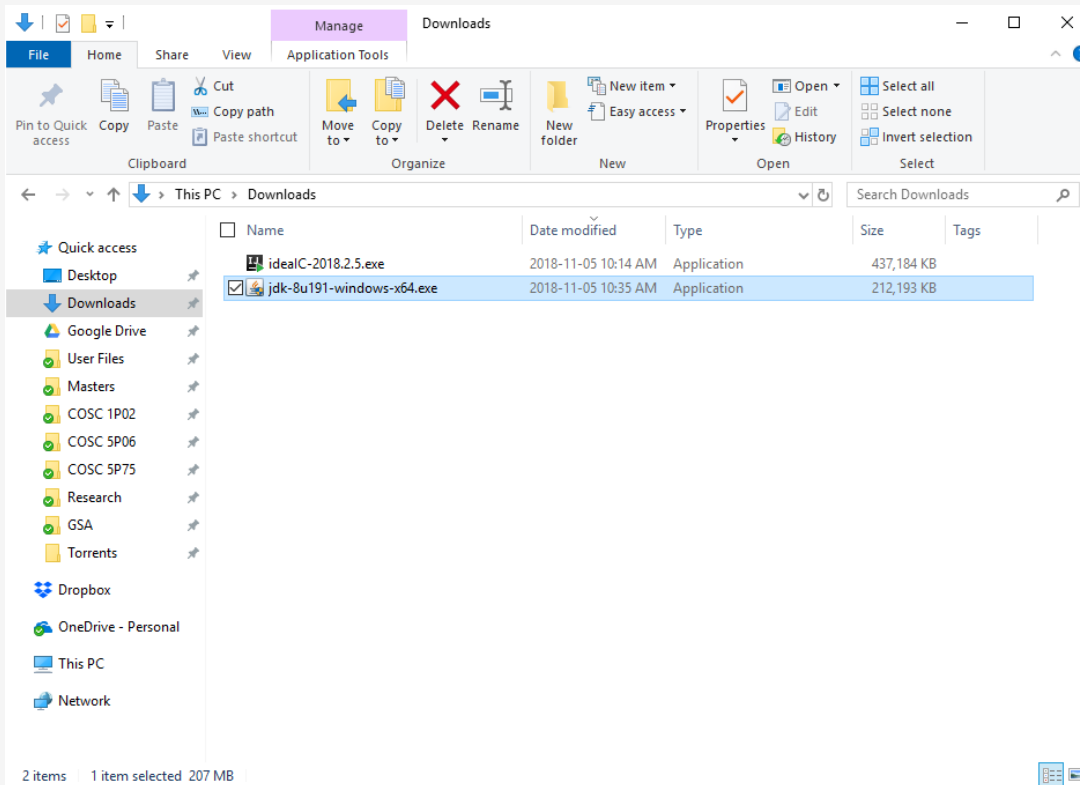
Accept License Agreement Decline License Agreement

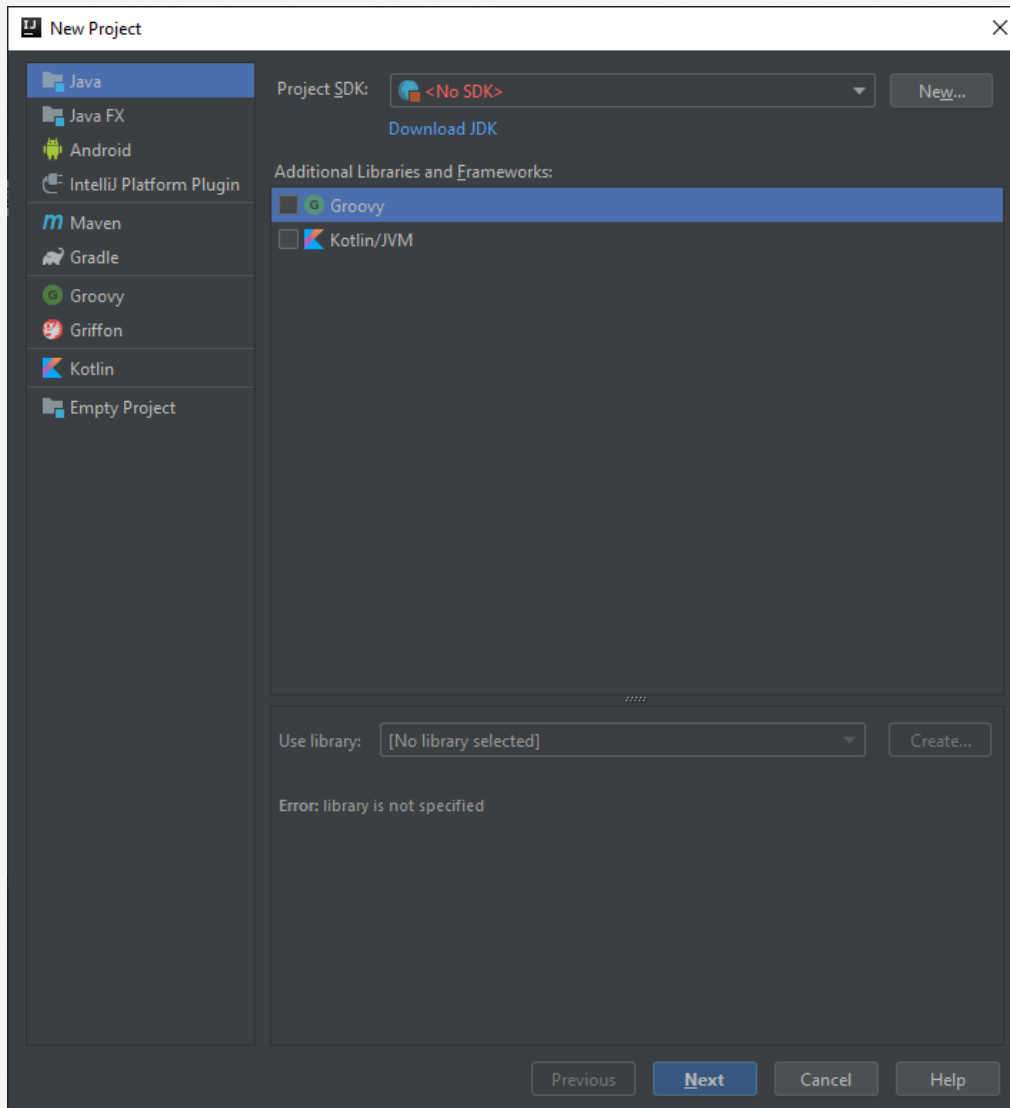
Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	72.97 MB	jdk-8u191-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.92 MB	jdk-8u191-linux-arm64-vfp-hflt.tar.gz
Linux x86	170.89 MB	jdk-8u191-linux-i586.rpm
Linux x86	185.69 MB	jdk-8u191-linux-i586.tar.gz
Linux x64	167.99 MB	jdk-8u191-linux-x64.rpm
Linux x64	182.87 MB	jdk-8u191-linux-x64.tar.gz
Mac OS X x64	245.92 MB	jdk-8u191-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	133.04 MB	jdk-8u191-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	94.28 MB	jdk-8u191-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	134.04 MB	jdk-8u191-solaris-x64.tar.Z
Solaris x64	92.13 MB	jdk-8u191-solaris-x64.tar.gz
Windows x86	197.34 MB	jdk-8u191-windows-i586.exe
Windows x64	207.22 MB	jdk-8u191-windows-x64.exe

Java SE Development Kit 8u191 Demos and Samples Downloads

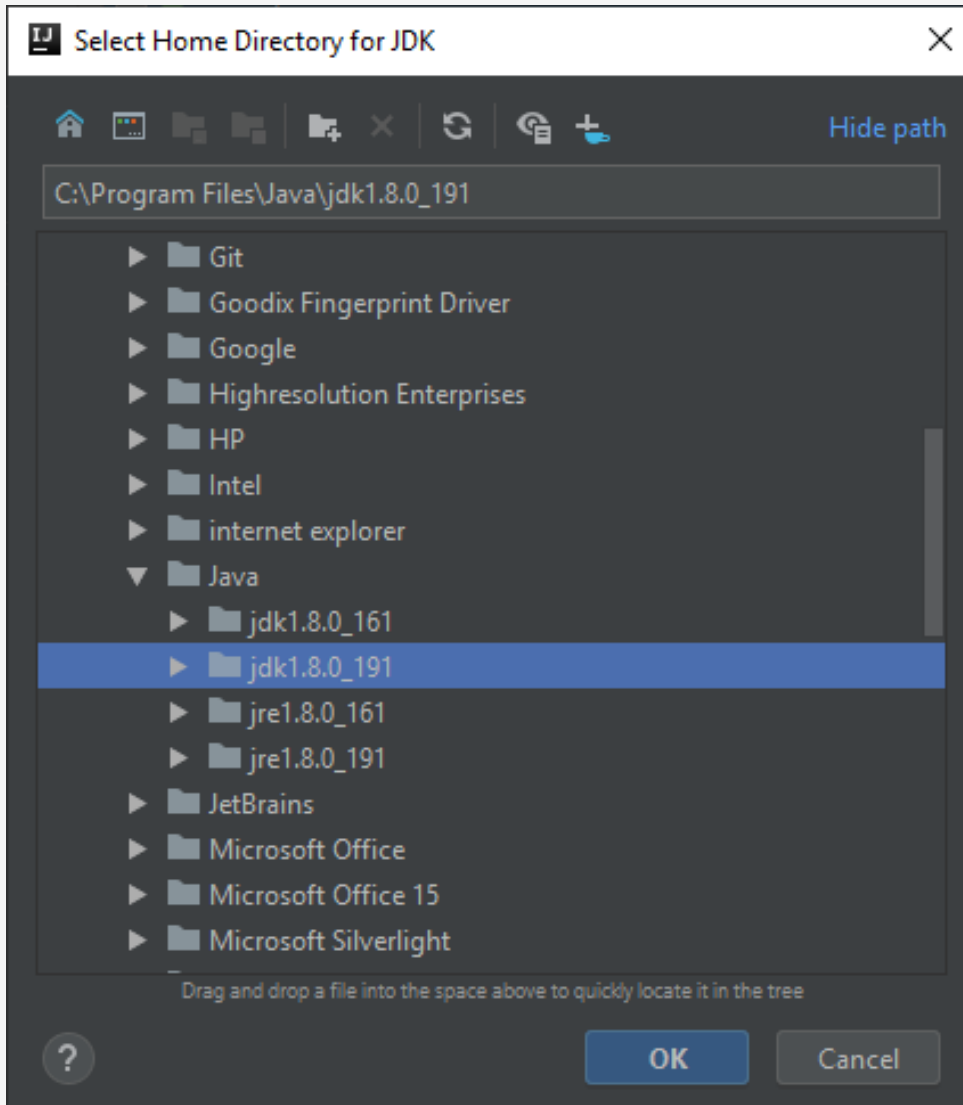
STEP 4
ACCEPT THE LICENCE AGREEMENT AND SELECT
PROPER DOWNLOAD BASED ON YOUR SYSTEM

STEP 5 RUN THE INSTALLER



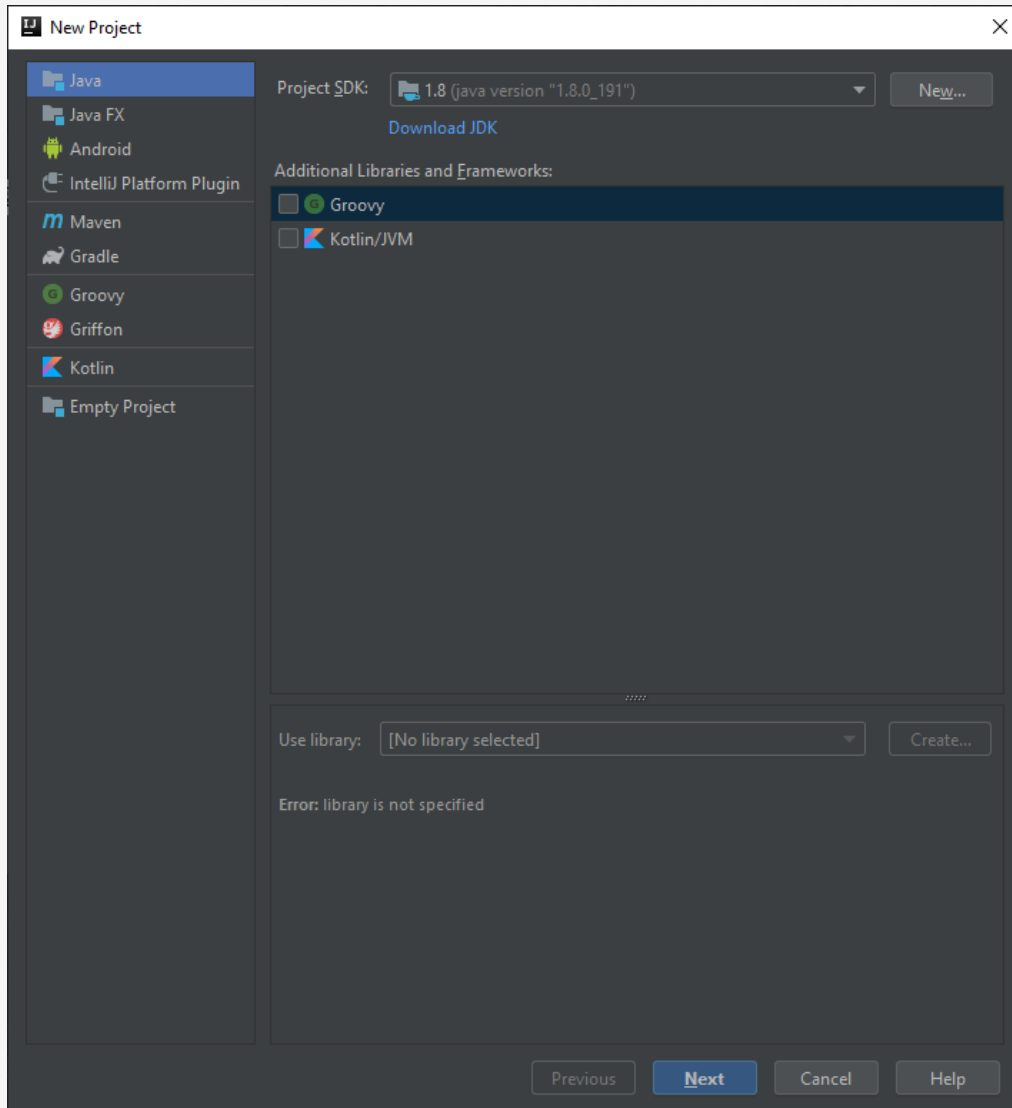


*STEP 6
SDK MAY NOT SHOW
UP SO USE THE
NEW... BUTTON TO
FIND THE INSTALL*

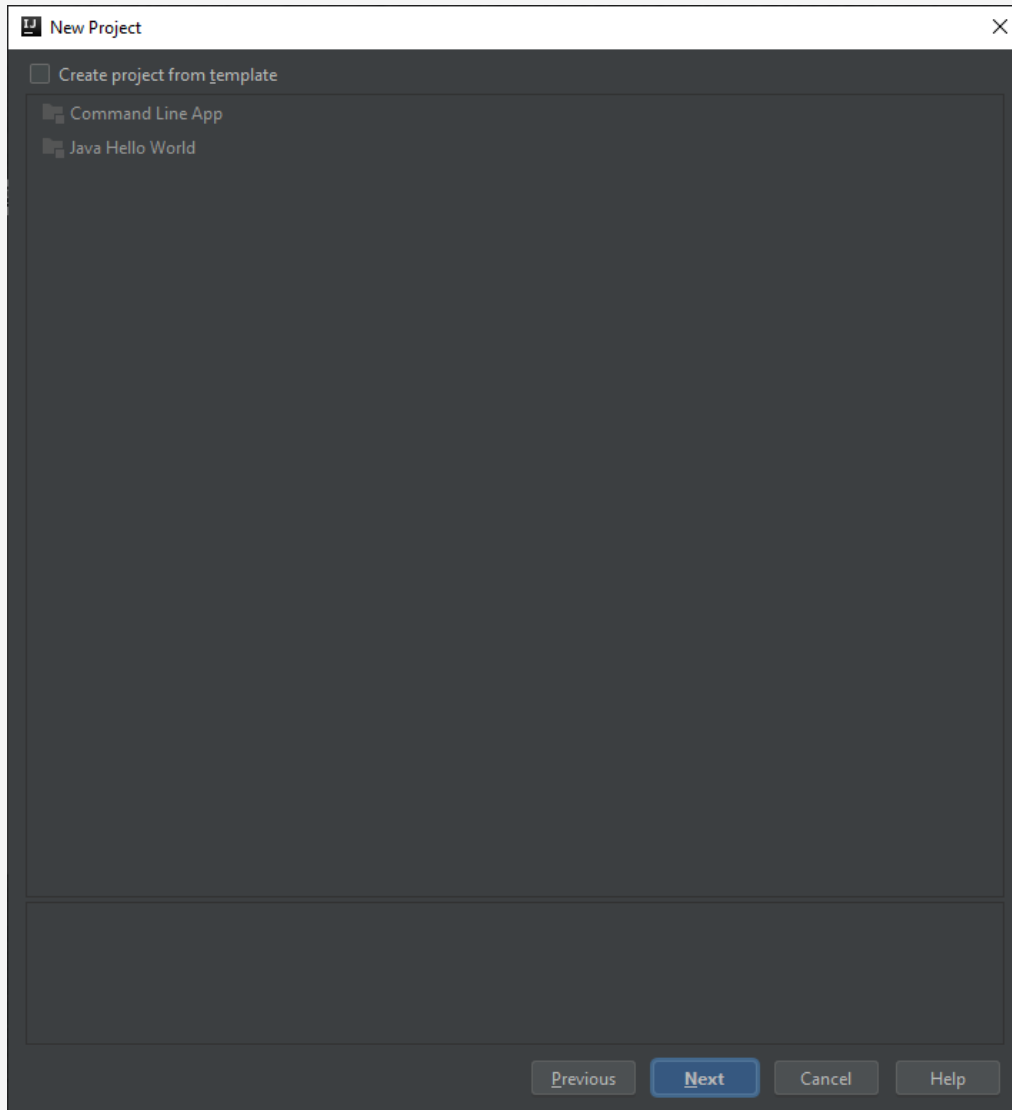


STEP 7
SELECT THE JDK
AND SELECT OK

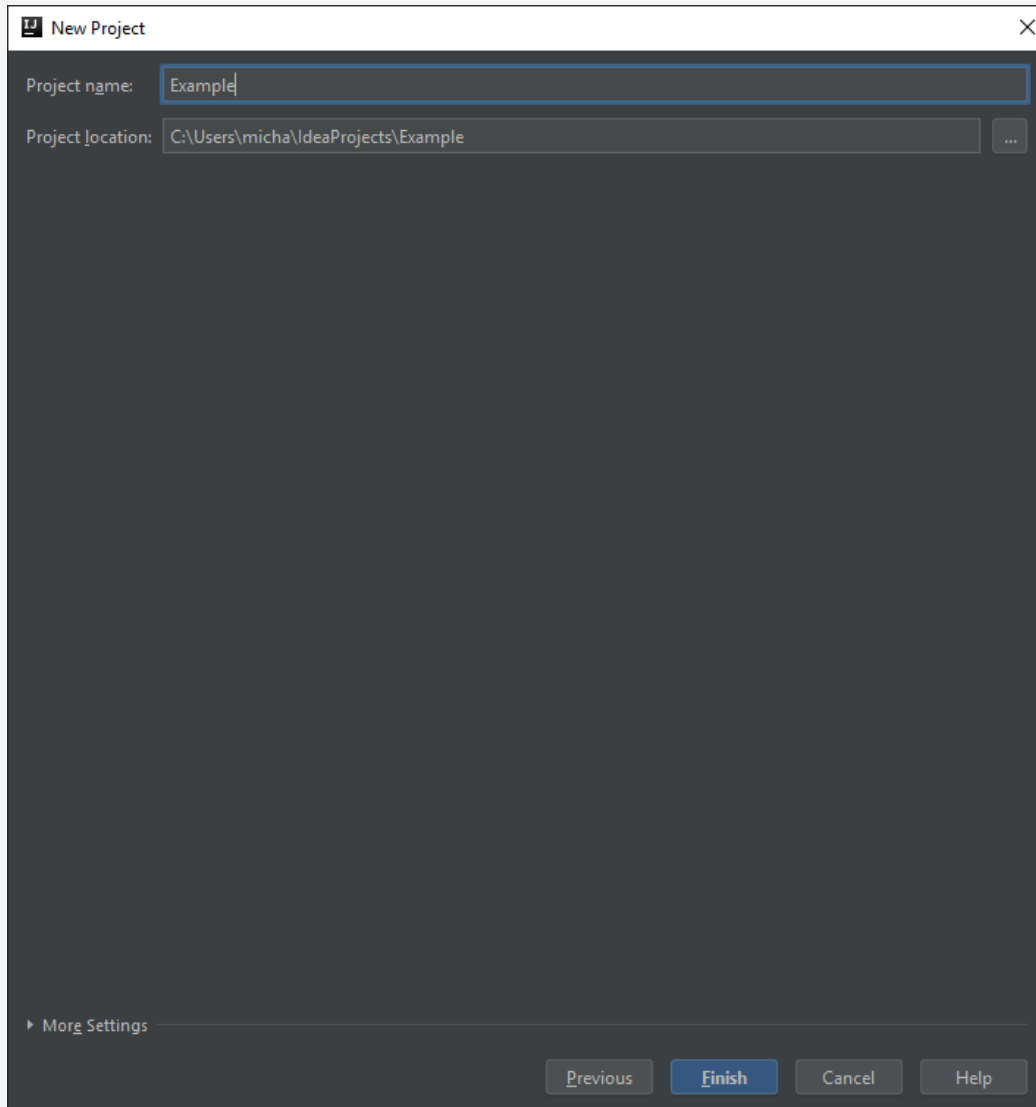
- Location is likely:
C:\Program Files\Java



*STEP 8
SELECT
NEXT*



Step 9
Select Next

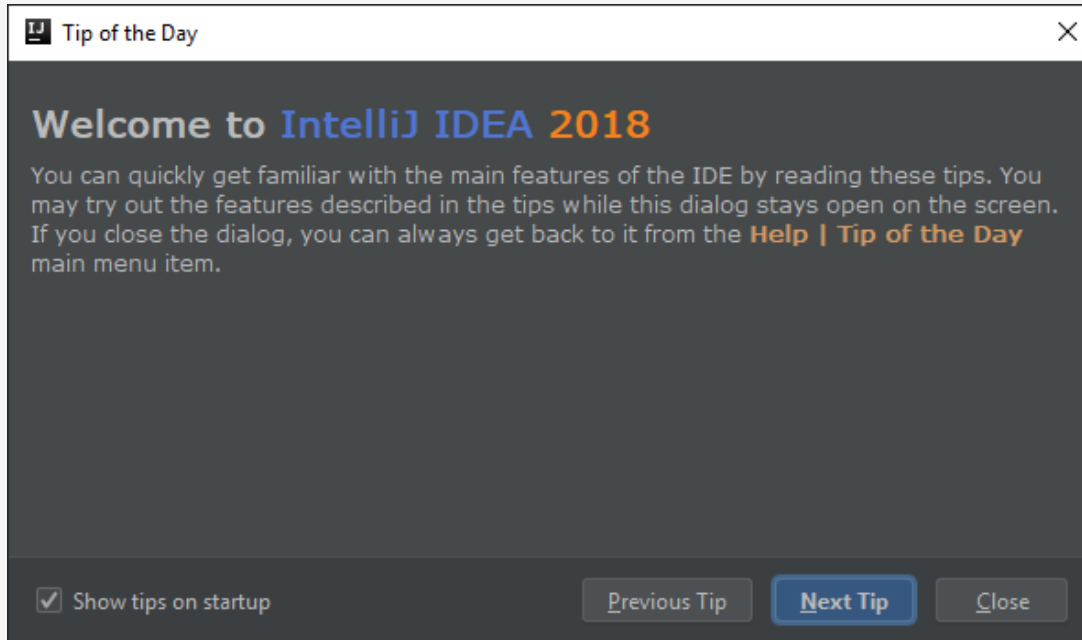


Step 10
Name and set
location of project
then select Finish

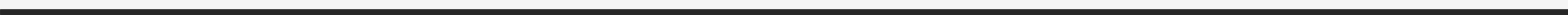
- Be sure to make a folder matching the name of the project

Step 11

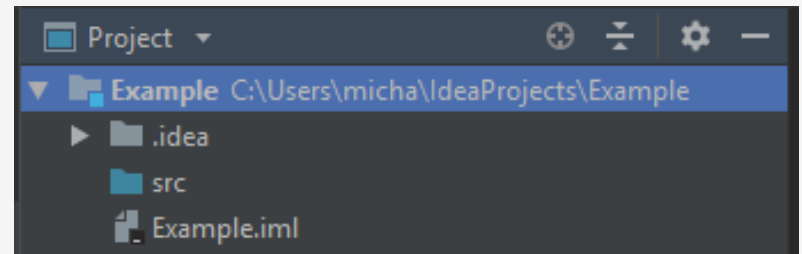
Dismiss the Tip of The Day Popup



*HELLO WORLD
PROGRAM*

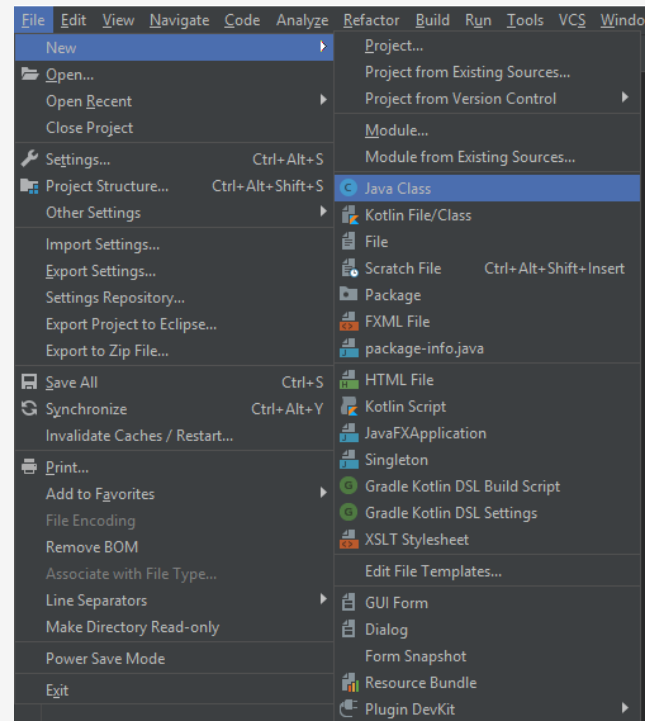


- Files needed by IntelliJ IDEA are stored in .idea
- We will now make a Java file



The left sidebar outlines the project folder. Classes go within the src folder.

- The class dialogue will popup, call the class Example.java
- The src folder will now contain this java file



Step 1
Click File > New > Java Class



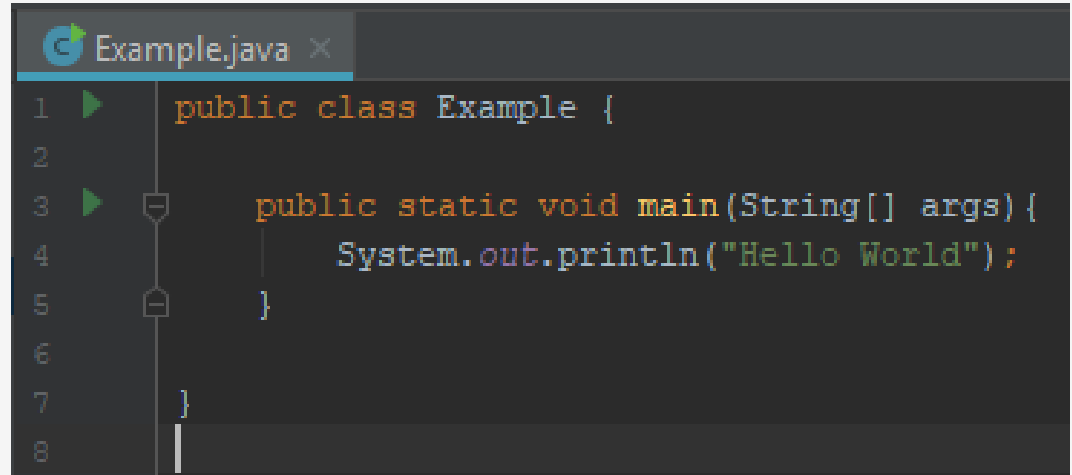
Step 2

Add the reserved method, main, to the Example class

- Add following method within Example Class braces

```
public static void main
(String[] args){
    // Program
    // Or new instance of
        this class (below)
    // Example e = new
        Example
}
```

Step 3
Add the
“Hello
World”
statement

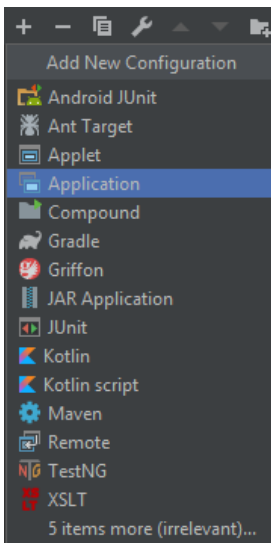
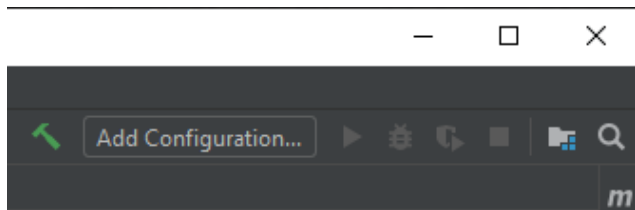
A screenshot of an IDE window titled 'Example.java'. The code is as follows:

```
1 public class Example {  
2  
3     public static void main(String[] args){  
4         System.out.println("Hello World");  
5     }  
6  
7 }  
8
```

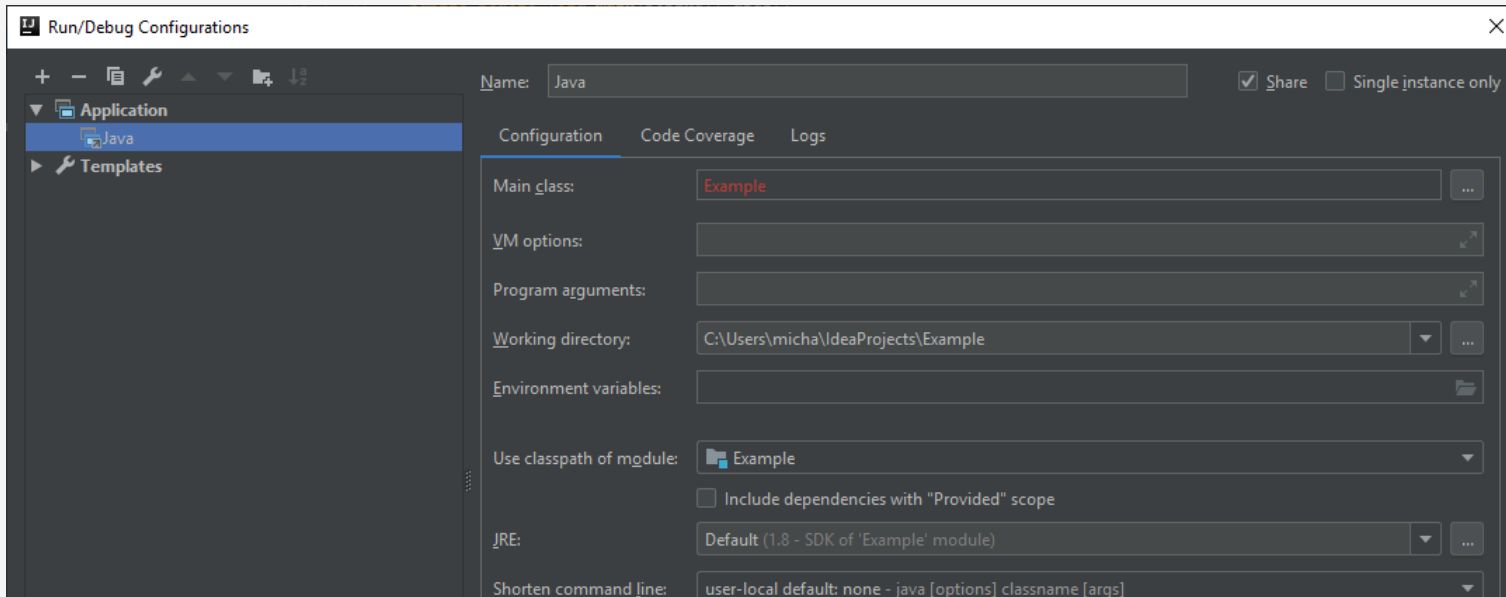
- Type "sout" then press the tab key
- Add "Hello World" as an argument

Step 4

Prepare Configuration



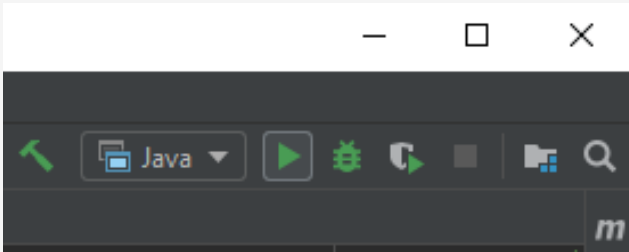
- Select Add Configuration...
- Select the plus sign at the top left
 - Select Application
- Name Configuration Java
- Select Share checkbox
- Set the Main class to Example
- Select Apply and OK



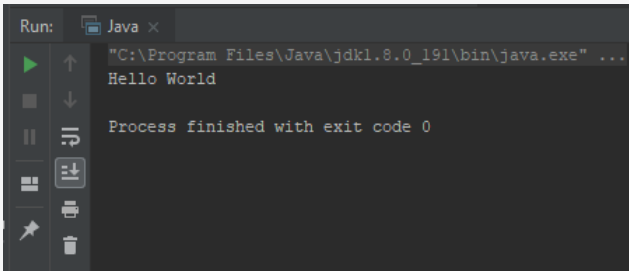
*THE CONFIGURATION
SHOULD LOOK AS SO*

Step 5

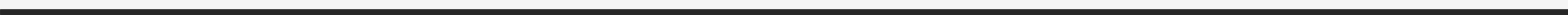
Run the application

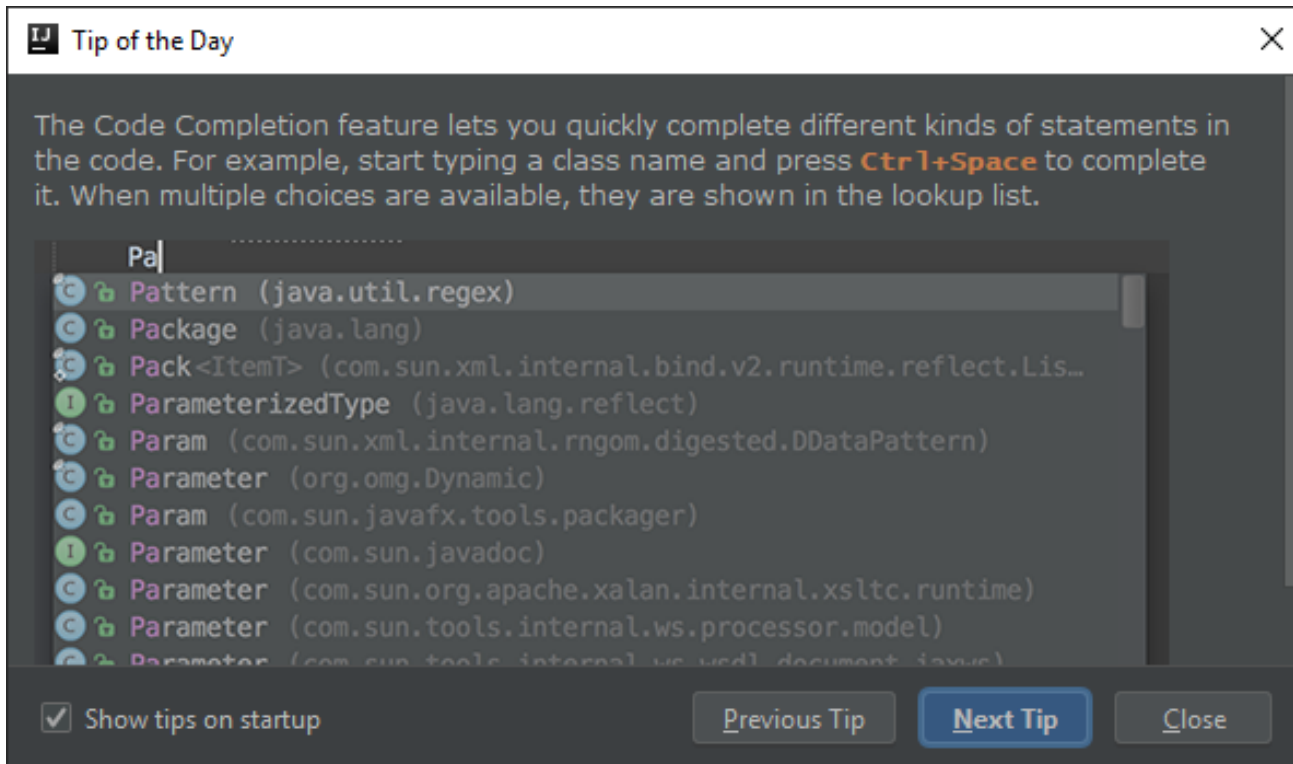


- By selecting the play button
- Program output appears at the bottom



HELPFUL TIPS





Teaches you about IntelliJ IDEA features at your own pace

TIP OF THE DAY

The screenshot shows an IDE interface with a search window titled "Find in Path". The search criteria are "System", with 2 matches in 2 files. The matches are:

- Example.java 6: `System.out.println("Hello World");`
- newTest.java 4: `System.out.println("I am a computer");`

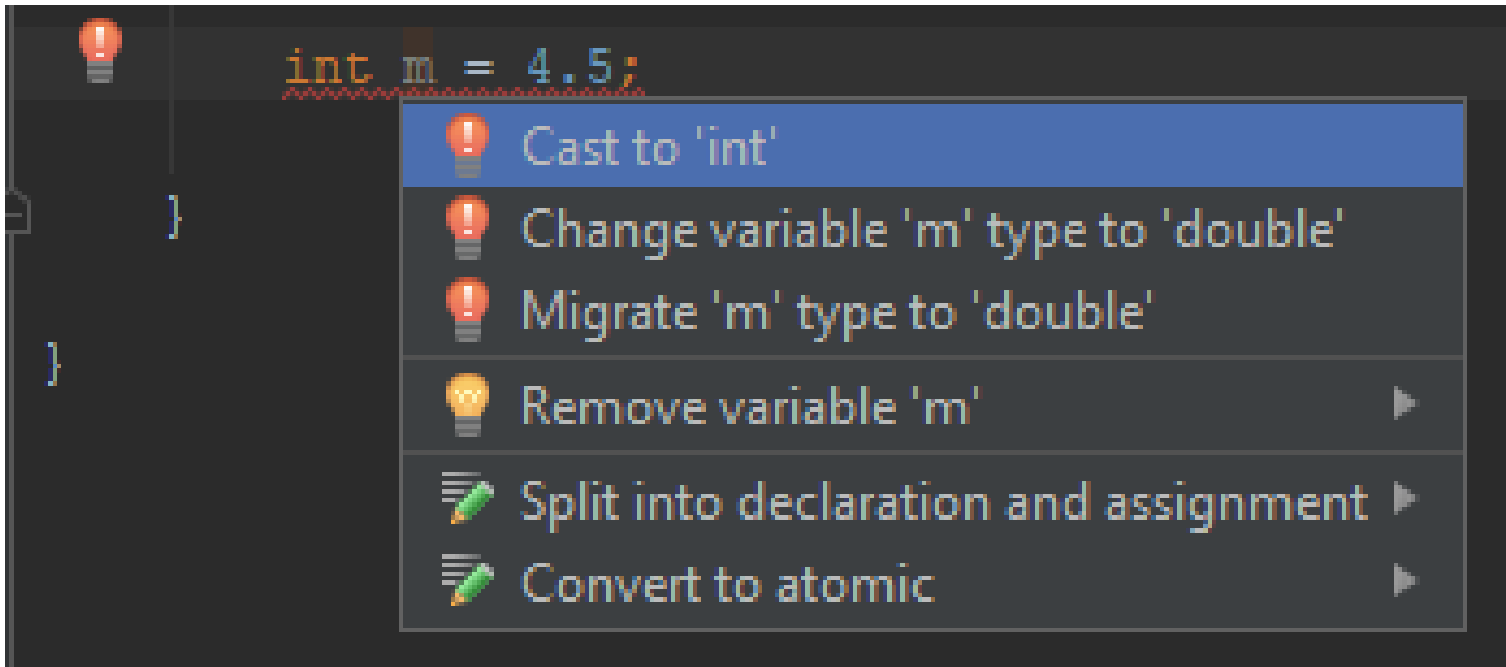
The main editor shows the code for `src/Example.java`:

```
1 import java.util.ArrayList;
2
3 public class Example {
4
5     public static void main(String[] args) {
6         System.out.println("Hello World");
7
8         ArrayList<Integer> l;
9         l = new ArrayList<>();
10
11         //     newTest t = new newTest();
12         //
13         //     double m = 4.5;
14
15     }
16
17 }
18
```

At the bottom of the IDE, there is a gear icon, a "Ctrl+Enter" button, and an "Open in Find Window" button.

Ctrl+Shift+F or *Ctrl+Shift+R*

- Find or Replace throughout the entire project
- Allows you to edit instances within search popup



```
int m = 4.5;
```

- Cast to 'int'
- Change variable 'm' type to 'double'
- Migrate 'm' type to 'double'
- Remove variable 'm'
- Split into declaration and assignment
- Convert to atomic

ALT+ENTER RESOLVES ISSUES

Alt+Enter to import a class

```
Example.java x
1 public class Example {
2
3     public static void main(String[] args){
4         System.out.println("Hello World");
5
6         ArrayList<Integer> l;
7     }
8
9 }
10
```

- When you use a new Class you normally have to import the class. Just press Alt+Enter on the unknown class.
- Sometimes IntelliJ will import the class without this trick

```
Example.java x
1 import java.util.ArrayList;
2
3 public class Example {
4
5     public static void main(String[] args){
6         System.out.println("Hello World");
7
8         ArrayList<Integer> l;
9     }
10
11 }
```

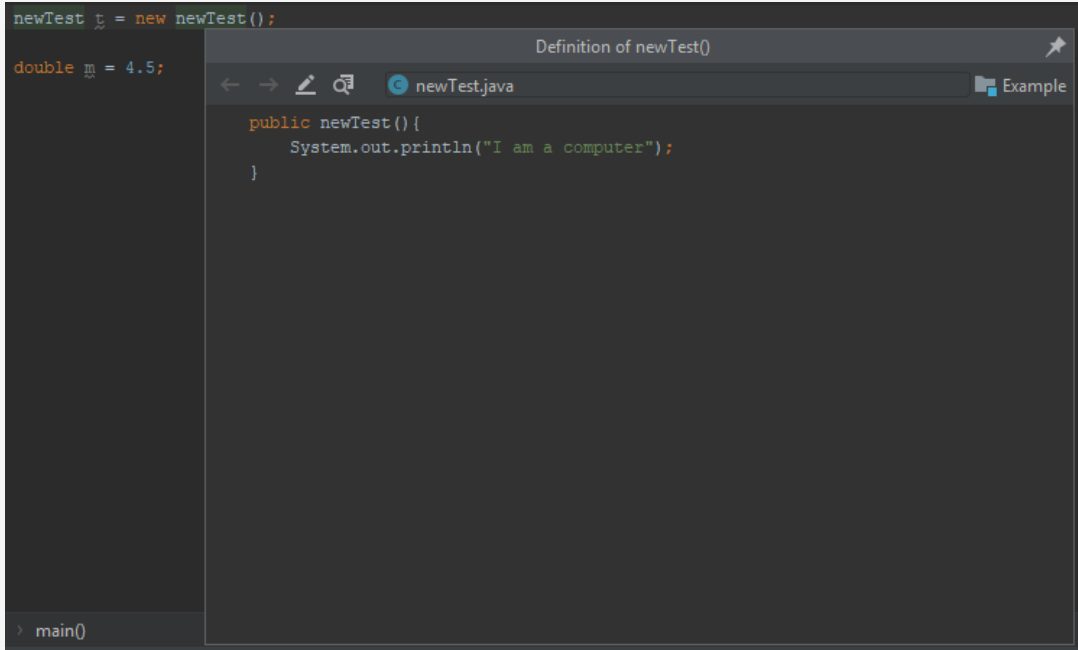
Ctrl+Shift+Space

- Helps with auto completion

```
Example.java x
1 import java.util.ArrayList;
2
3 public class Example {
4
5 public static void main(String[] args) {
6     System.out.println("Hello World");
7
8     ArrayList<Integer> l;
9     l = new
10 }
11
12 }
```

```
Example.java x
1 import java.util.ArrayList;
2
3 public class Example {
4
5 public static void main(String[] args) {
6     System.out.println("Hello World");
7
8     ArrayList<Integer> l;
9     l = new
10 }
11
12 }
13 }
- ArrayList<> (java.util)
- BakedArrayList (sun.swing)
- FinalArrayList (com.sun.xml.internal.messaging.saaj.util)
- FinalArrayList<> (com.sun.istack.internal)
- Lister.Pack (com.sun.xml.internal.bind.v2.runtime.reflect.List...)
Press Ctrl+Shift+Space once more to find arrays of Integer
```

Ctrl+Shift+I

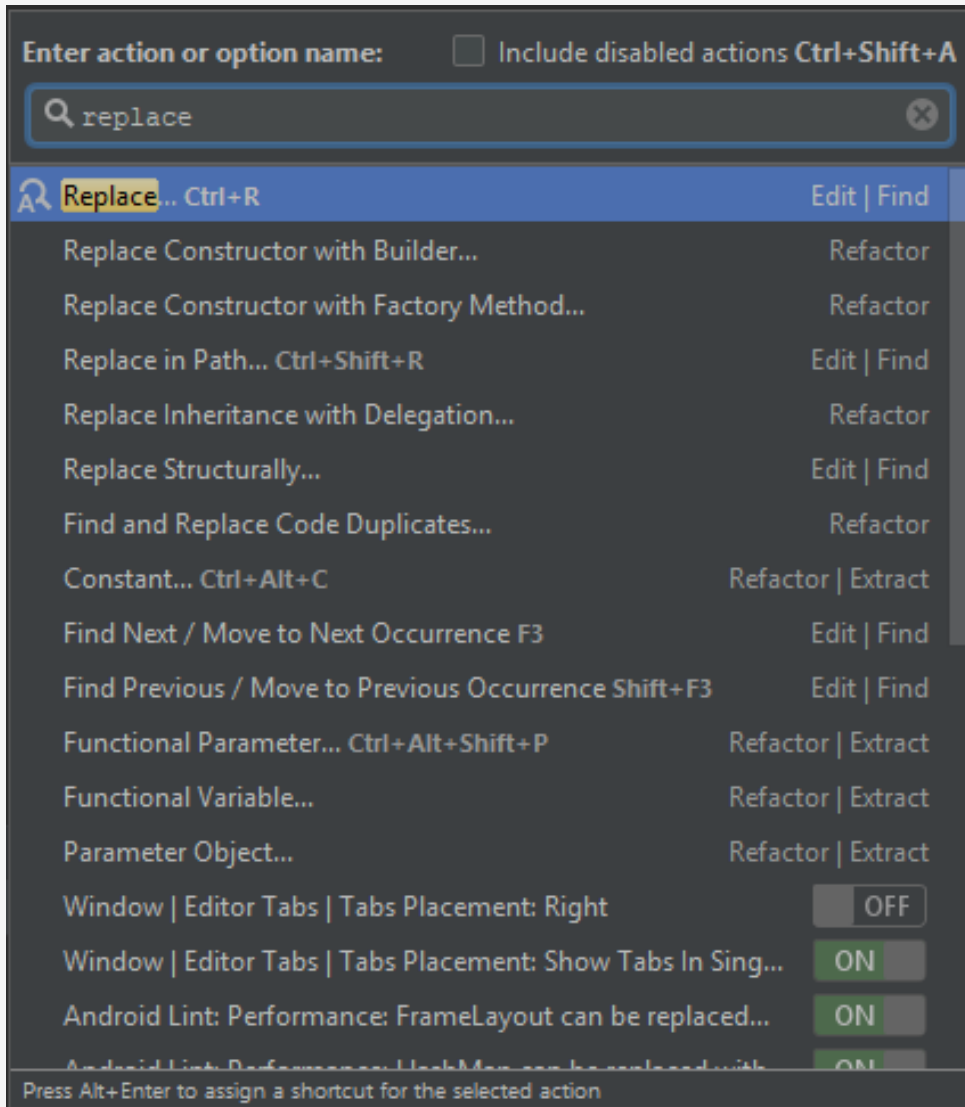


The screenshot shows an IDE window titled "Definition of newTest()". The code in the window is:

```
public newTest() {  
    System.out.println("I am a computer");  
}
```

On the left side of the window, there is a toolbar with icons for navigation and editing. The "edit" icon (a pencil) is highlighted, indicating that the code is ready to be edited. The main editor area shows the code for the `newTest()` method. The background editor shows a snippet of code: `newTest n = new newTest();` and `double m = 4.5;`. The bottom left corner shows a breadcrumb: `> main()`.

- This provides you with information about where your cursor is, allowing you to see the code behind what is selected
- You can also edit the code by selecting the edit button



Ctrl+Shift+A

- Allows you to search the potential actions available on IntelliJ IDEA

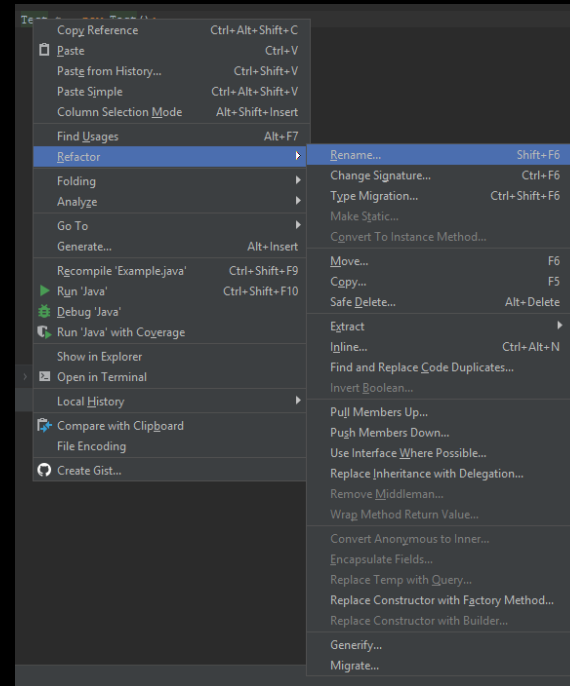
Ctrl+/

- Comment or uncomment a line of code

```
Example.java x newTest.java x
1 import java.util.ArrayList;
2
3 public class Example {
4
5     public static void main(String[] args) {
6         System.out.println("Hello World");
7
8         ArrayList<Integer> l;
9         l = new ArrayList<>();
10
11         newTest t = new newTest();
12
13         double m = 4.5;
14
15     }
16
17 }
```

```
Example.java x newTest.java x
1 import java.util.ArrayList;
2
3 public class Example {
4
5     public static void main(String[] args) {
6         System.out.println("Hello World");
7
8         ArrayList<Integer> l;
9         l = new ArrayList<>();
10
11         // newTest t = new newTest();
12         //
13         // double m = 4.5;
14
15     }
16
17 }
```

```
Example.java x Test.java x
1 import java.util.ArrayList;
2
3 public class Example {
4
5     public static void main(String[] args){
6         System.out.println("Hello World");
7
8         ArrayList<Integer> l;
9         l = new ArrayList<>();
10
11         Test t = new Test();
12
13     }
14
15 }
```



Makes removing, moving and renaming variables, methods and classes across a project quick and simple

ADVANCED REFACTORING

```
Test t = new Test();
test
Test
Press Shift+F6 to show dialog with more options
```

```
newTest t = new newTest();
```

Example src Example

Project ▾

- Example C:\Users\micha\IdeaProjects\Example
 - .idea
 - out
 - src
 - Example
 - newTest
 - Example.iml
 - External Libraries
 - Scratches and Consoles

Example.java x newTest.java x

```

1  import java.util.ArrayList;
2
3  public class Example {
4
5  public static void main(String[] args) {
6      System.out.println("Hello World");
7
8      ArrayList<Integer> l;
9      l = new ArrayList<>();
10
11     newTest t = new newTest();
12
13 }
14
15 }
```


Reformat the Project

Ctrl+Alt+L

- Reformats the entire file based on the formatting rules
- Formatting rules at File > Settings > Editor > Code Style > Java



Live Templates

- 'sout' + Tab results in `System.out.println();`
 - Others at File > Settings > Editor > Live Templates
- 

Have a great weekend!

