

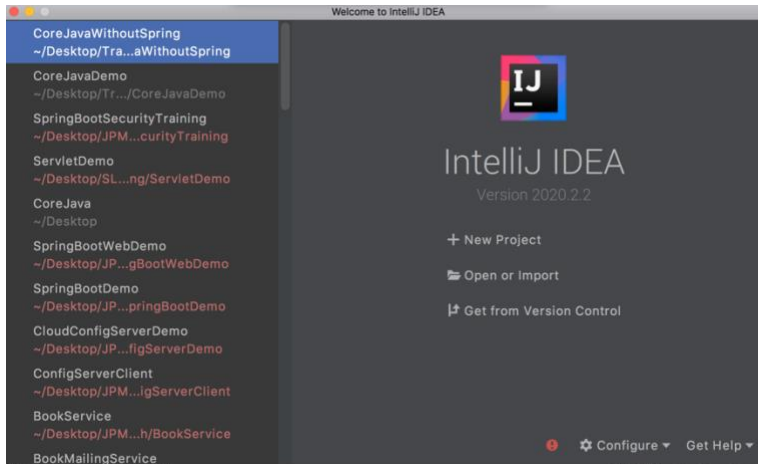
# Basic Spring Project - IntelliJ

1. IntelliJ : Download **community edition** for respective OS  
<https://www.jetbrains.com/idea/download/#section=windows>

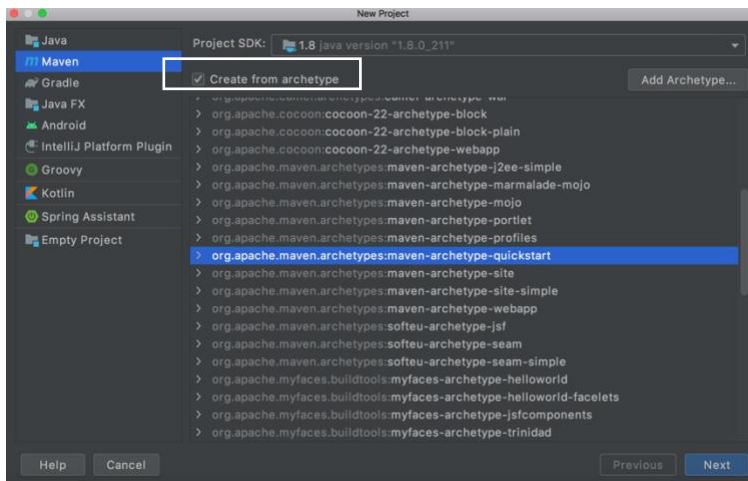
## Maven Project: IntelliJ

### a. QuickStart Maven Project

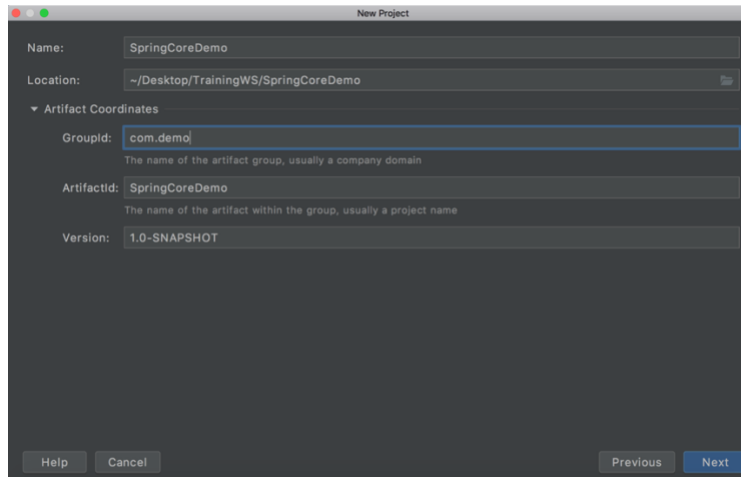
Open IntelliJ and select New Project [MAC]



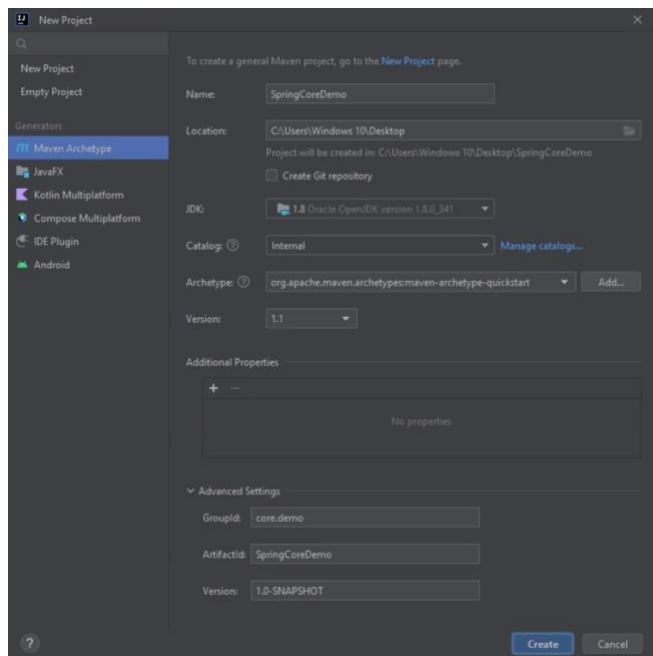
Select maven , tick the **checkbox** and select the archetype as highlighted:



Click next and enter the project name. Click on Artifact Coordinates and change the group id. Rest keep the defaults and click next -> next -> Finish



FOR WINDOWS:



Once the project is created update the java version in pom.xml file as follows:

1. JDK 8 and below : Just update the version with the one installed on your machine as follows



```
14
15 <properties>
16   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
17   <maven.compiler.source>1.8</maven.compiler.source>
18   <maven.compiler.target>1.8</maven.compiler.target>
19 </properties>
20
```

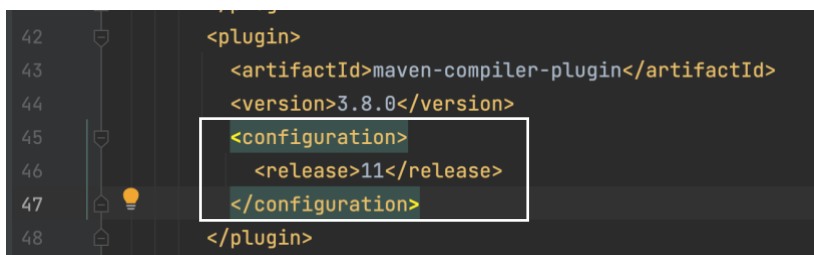
2. For JDK 9 and beyond : Update the version and also update the compiler plugin as follows:

```
<java.version>17</java.version>
```



```
14
15 <properties>
16   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
17   <java.version>11</java.version>
18 </properties>
19
```

To update the compiler plugin , add release as shown below:



```
42 <plugin>
43   <artifactId>maven-compiler-plugin</artifactId>
44   <version>3.8.0</version>
45   <configuration>
46     <release>11</release>
47   </configuration>
48 </plugin>
```

If the above plugin is not there, then add it as shown below within the <build> tag.

**The <build> tag will be in the last just before the closing </project> tag**

```
<build>
  <pluginManagement>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.13.0</version>
        <configuration>
          <release>17</release>
        </configuration>
      </plugin>
    </plugins>
  </pluginManagement>
</build>
```

```

<build>
  <pluginManagement><!-- lock down plugins versions to avoid using
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.0</version>
      <configuration>
        <release>11</release>
      </configuration>
    </plugin>
  </plugins>
</pluginManagement>
</build>

```

3. Next step is to add below in properties tag:  
`<spring.version> 6.2.6</spring.version>`
4. Next step is to add spring dependencies as follows within the `<dependencies>` tag

```

<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-context</artifactId>
  <version>${spring.version}</version>
</dependency>

```

Once dependencies are added, click on Maven tab on the right side of the editor and reload maven project as shown below:

