

Maven Tutorial

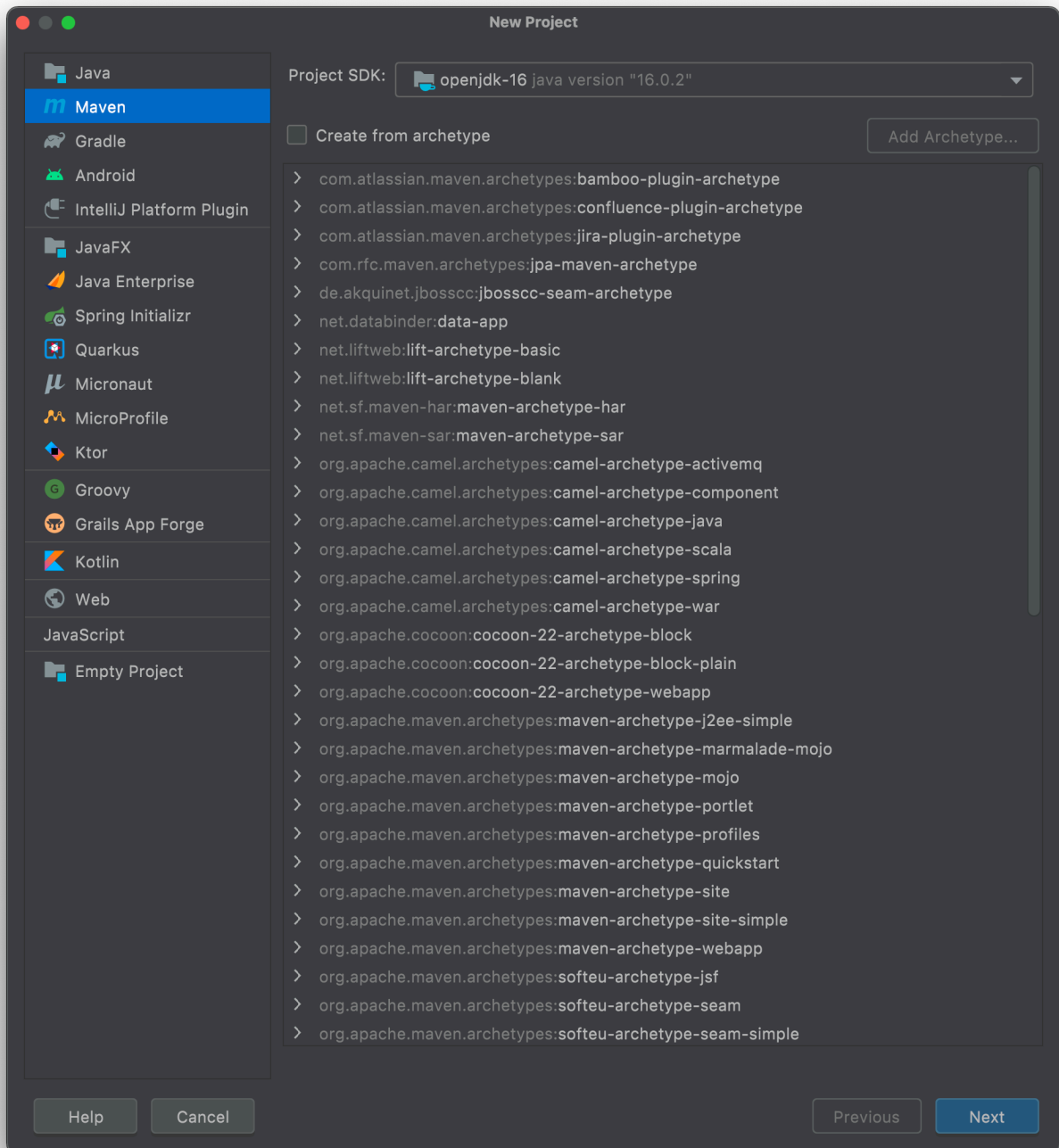
Contributors:

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Create a new project with Maven

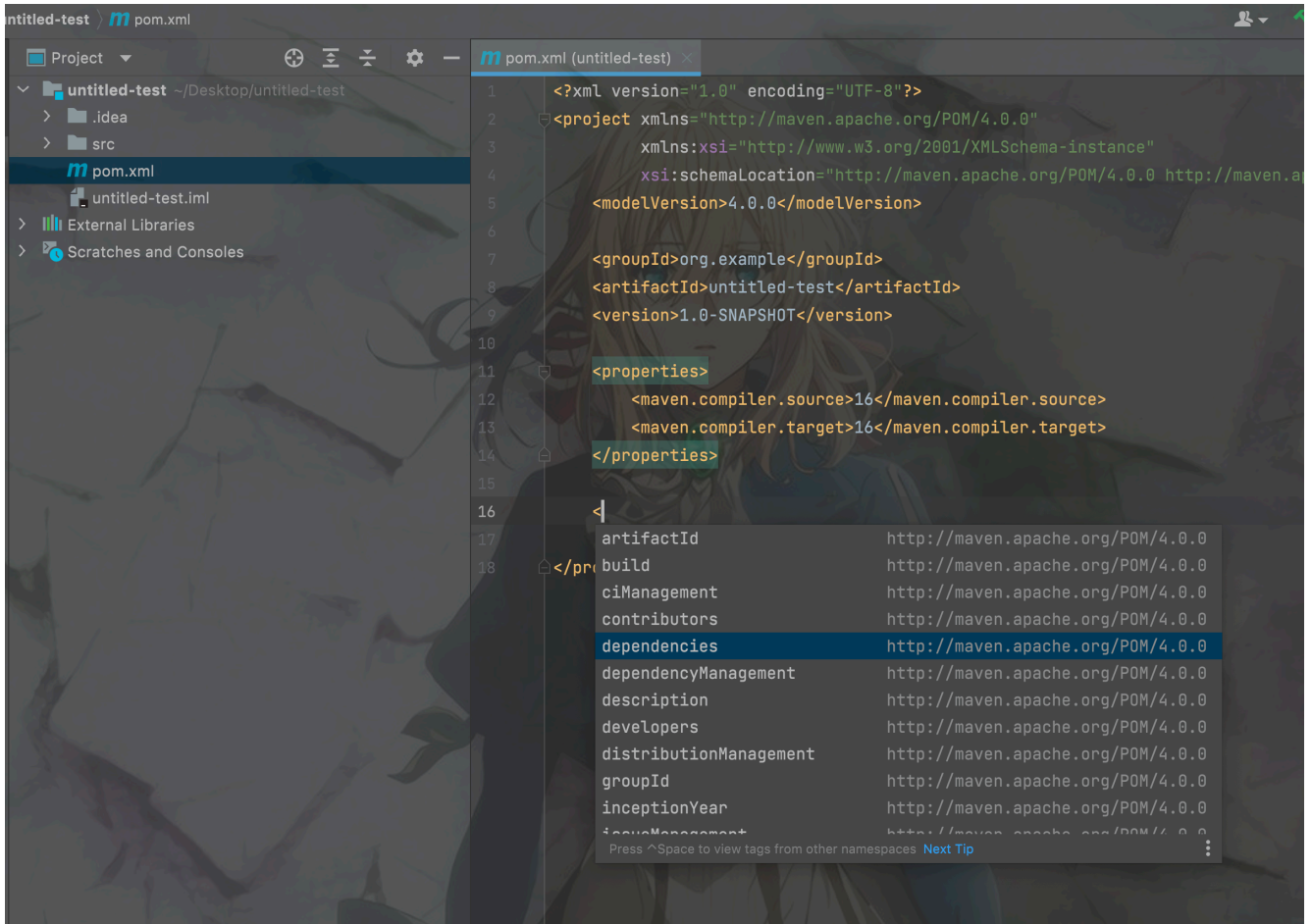
Official: https://www.jetbrains.com/help/idea/maven-support.html#create_new_maven_project

1. In IDEA, click File -> New -> Project
2. Select **Maven**



3. IDEA will do the rest.

4. Modify `pom.xml` to add dependencies.



```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>org.example</groupId>
    <artifactId>untitled-test</artifactId>
    <version>1.0-SNAPSHOT</version>

    <properties>
        <maven.compiler.source>16</maven.compiler.source>
        <maven.compiler.target>16</maven.compiler.target>
    </properties>

    <dependencies>
        <!-- Add your dependency here -->
    </dependencies>

</project>
```

5. Add postgresql driver and gson

How to find maven configurations for some dependency?

Google: `maven+dependency name`, then you will get what you need.

Gson:

```
<!-- https://mvnrepository.com/artifact/com.google.code.gson/gson -->
<dependency>
  <groupId>com.google.code.gson</groupId>
  <artifactId>gson</artifactId>
  <version>2.8.8</version>
</dependency>
```

PostgreSQL Driver:

```
<!-- https://mvnrepository.com/artifact/org.postgresql/postgresql -->
<dependency>
  <groupId>org.postgresql</groupId>
  <artifactId>postgresql</artifactId>
  <version>42.2.24</version>
</dependency>
```

6. `pom.xml`:

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>org.example</groupId>
  <artifactId>untitled-test</artifactId>
  <version>1.0-SNAPSHOT</version>

  <properties>
    <maven.compiler.source>16</maven.compiler.source>
    <maven.compiler.target>16</maven.compiler.target>
  </properties>

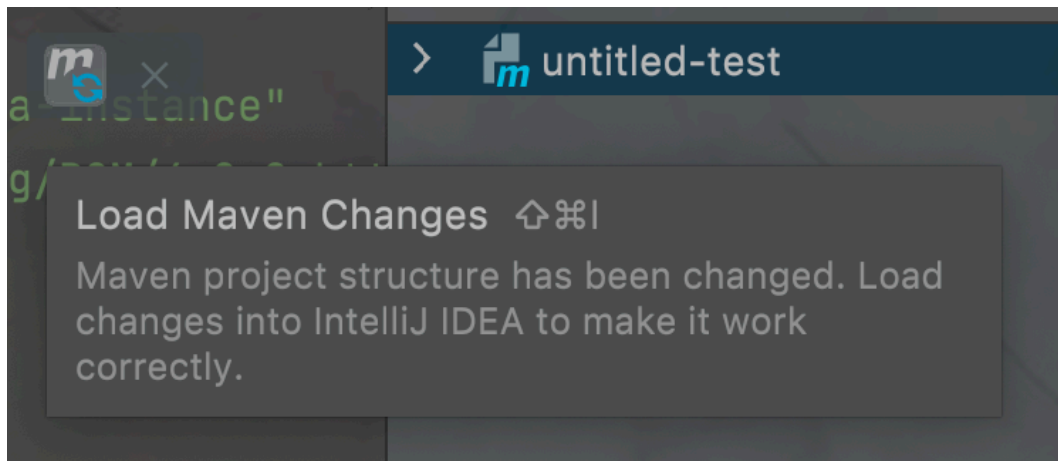
  <dependencies>
    <!-- https://mvnrepository.com/artifact/com.google.code.gson/gson -->
    <dependency>
      <groupId>com.google.code.gson</groupId>
      <artifactId>gson</artifactId>
      <version>2.8.8</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.postgresql/postgresql -->
```

```
<dependency>
  <groupId>org.postgresql</groupId>
  <artifactId>postgresql</artifactId>
  <version>42.2.24</version>
</dependency>
</dependencies>

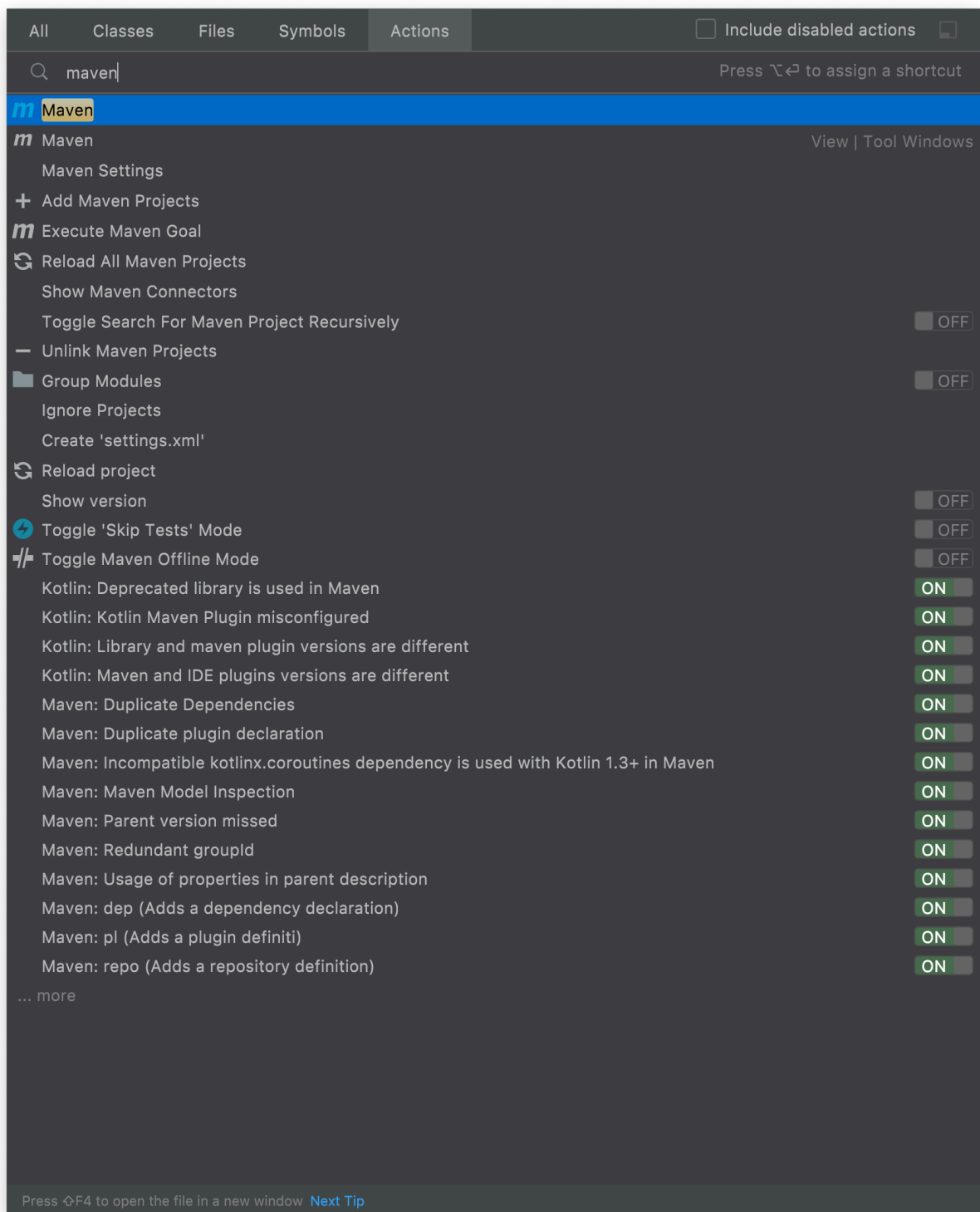
</project>
```

7. Load Maven Changes

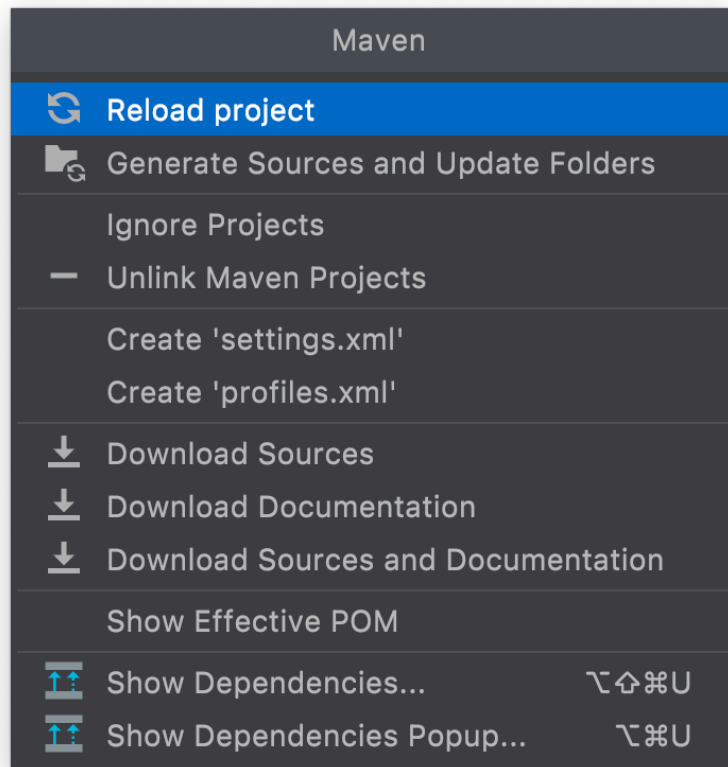


When there is no red in the dependencies section, all dependencies are resolved.

8. If you can't find this button, there is a shortcut in idea based IDE to find an action.
Press the RIGHT SHIFT twice, input `maven`, then use TAB to switch tabs to **Actions**.



You will find the Maven action, then press ENTER to open it.



Select **Reload Project** and maven will resolve all dependencies.

Add Maven support to existing project

<https://www.jetbrains.com/help/idea/convert-a-regular-project-into-a-maven-project.html>

If you have Internet connection issue

Thanks to GFW.

Get a good proxy which brings you to the Internet, then see: <https://blog.csdn.net/c5113620/article/details/103064538>