

# Maven

Maven lets you automatically build projects, dependencies, and documentation. This section walks you through setting up Maven with Perfecto. A sample project is available here: <https://github.com/PerfectoMobileSA/PerfectoSampleProject>

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## 1 | Get started

In this step, you install Java and Maven.

1. Download and install [JDK 8](#).
2. Set up the `JAVA_HOME` environment variable to point to the JDK 8 installation folder.
3. Download one of the following Maven archives from <https://maven.apache.org/download.cgi>:
  - **Windows:** The binary zip file
  - **Mac:** The source tar.gz file
4. Specify the path to Maven as follows:

Windows	Mac
a. Set up the <code>MAVEN_HOME</code> environment variable to point to the JDK 8 installation folder.	Update your <code>.bash_profile</code> (create this file if it does not exist) with the following:
b. Add <code>%MAVEN_HOME%\bin</code> to the <code>PATH</code> environment variable.	<pre>export M2_HOME=/Users/&lt;UserName&gt;/&lt;path to maven&gt; export PATH=\$PATH:\$M2_HOME/bin</pre>

5. Launch a command line window and run the following command to verify that the installation was successful:

```
mvn -version
```

## 2 | Create and configure a Maven project

In this step, you create a Maven project and add the repositories, dependencies, and plugins required to run it with Perfecto.

1. In your IDE, create a Maven project.
2. Open the `pom.xml` file and update it as follows. A sample `pom.xml` file that includes all Perfecto and Smart Reporting dependencies is available [here](#).
  - a. Add the following repositories.

```

<repositories>
  <repository>
    <id>repol.perfectomobile.com</id>
    <name>Perfecto mobile</name>
    <url>https://repol.perfectomobile.com/public/repositories/maven<
/ url>
  </repository>
  <repository>
    <id>central</id>
    <name>Repol</name>
    <url>http://repol.maven.org/maven2</url>
    <releases>
      <enabled>true</enabled>
    </releases>
    <snapshots>
      <enabled>false</enabled>
      <updatePolicy>never</updatePolicy>
    </snapshots>
  </repository>
</repositories>

<pluginRepositories>
  <pluginRepository>
    <id>central</id>
    <name>Repol</name>
    <url>http://repol.maven.org/maven2</url>
    <releases>
      <enabled>true</enabled>
    </releases>
    <snapshots>
      <enabled>false</enabled>
      <updatePolicy>never</updatePolicy>
    </snapshots>
  </pluginRepository>
</pluginRepositories>

```

b. Add the following dependencies.

```

<dependency>
  <groupId>com.perfecto.reporting-sdk</groupId>
  <artifactId>reportium-java</artifactId>
  <version>RELEASE</version>
</dependency>
<dependency>
  <groupId>com.perfecto.reporting-sdk</groupId>
  <artifactId>reportium-testng</artifactId>
  <version>RELEASE</version>
</dependency>
<dependency>
  <groupId>com.perfectomobile</groupId>
  <artifactId>pm-webdriver</artifactId>
  <version>RELEASE</version>
</dependency>
<dependency>
  <groupId>com.perfectomobile</groupId>
  <artifactId>http-client</artifactId>
  <version>RELEASE</version>
</dependency>
<dependency>
  <groupId>dom4j</groupId>
  <artifactId>dom4j</artifactId>
  <version>1.6.1</version>
</dependency>
<dependency>
  <groupId>jaxen</groupId>
  <artifactId>jaxen</artifactId>
  <version>1.1.6</version>
</dependency>

```

```

<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-lang3</artifactId>
  <version>3.4</version>
</dependency>
<dependency>
  <groupId>commons-io</groupId>
  <artifactId>commons-io</artifactId>
  <version>2.4</version>
</dependency>
<dependency>
  <groupId>ch.qos.logback</groupId>
  <artifactId>logback-classic</artifactId>
  <version>1.1.5</version>
</dependency>
<dependency>
  <groupId>ch.qos.logback</groupId>
  <artifactId>logback-core</artifactId>
  <version>1.1.5</version>
</dependency>
<dependency>
  <groupId>org.slf4j</groupId>
  <artifactId>slf4j-api</artifactId>
  <version>1.7.16</version>
</dependency>
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-api</artifactId>
  <version>3.14.0</version>
</dependency>
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-support</artifactId>
  <version>3.14.0</version>
</dependency>
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-core</artifactId>
  <version>[2.9.10,)</version>
</dependency>
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>
  <version>[2.9.10,)</version>
</dependency>
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-annotations</artifactId>
  <version>[2.9.10,)</version>
</dependency>
<dependency>
  <groupId>io.appium</groupId>
  <artifactId>java-client</artifactId>
  <version>3.4.1</version>
</dependency>
<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
  <version>23.0</version>
</dependency>

```

3. Add the following plugin to your list of plugins:

```
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-resources-plugin</artifactId>
<version>2.6</version>
  <configuration>
    <encoding>UTF-8</encoding>
  </configuration>
</plugin>
```

4. To confirm that the dependencies have downloaded properly, execute the Maven goals - clean install.