

Dependencies in a Maven project

4.1 dependency

Now let's look at another thing that made maven so popular - dependency management.

If you want to add some library to your Maven project, you just **need to add it to the pom file, in the dependencies section** . It looks to the point of being simple.

Let's add the latest version of Spring and Hibernate to our project. Here's what it will look like:

```
<dependencies>

  <dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-core</artifactId>
    <version>5.3.18</version>
  </dependency>

  <dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-core</artifactId>
    <version>6.0.0.Final</version>
  </dependency>

</dependencies>
```

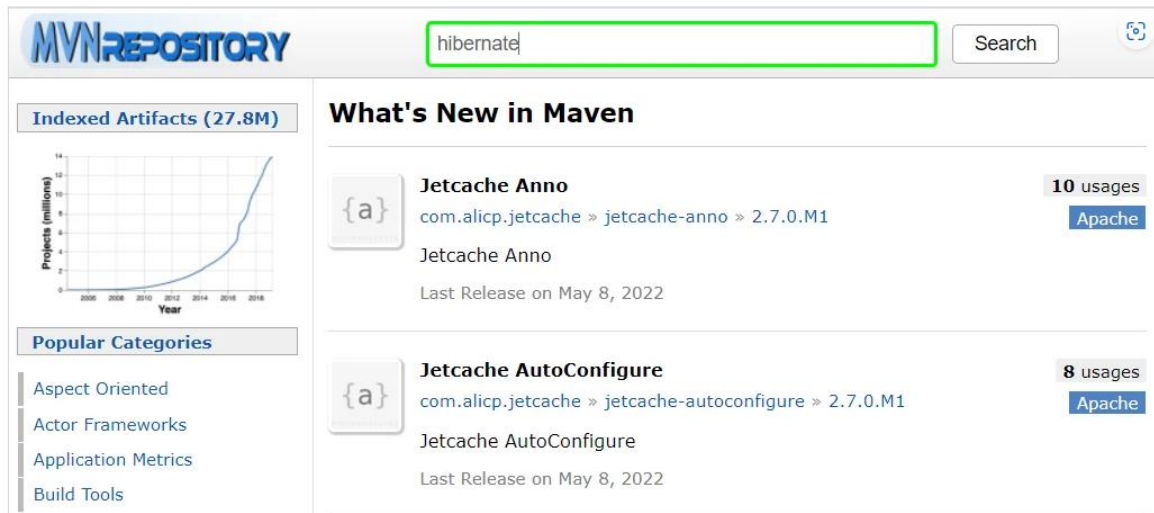
That's it, **you don't need to do anything else** . If you add these lines to your project, IDEA will immediately download the required libraries. A few seconds after that, you can use their classes in your code.

An important point: if you upload the project to GitHub or send it to someone as an archive, this person is guaranteed to be able to build it. All information on libraries, dependencies and build scripts is already hardwired into the project.

4.2 How to search for libraries in the Maven Repository

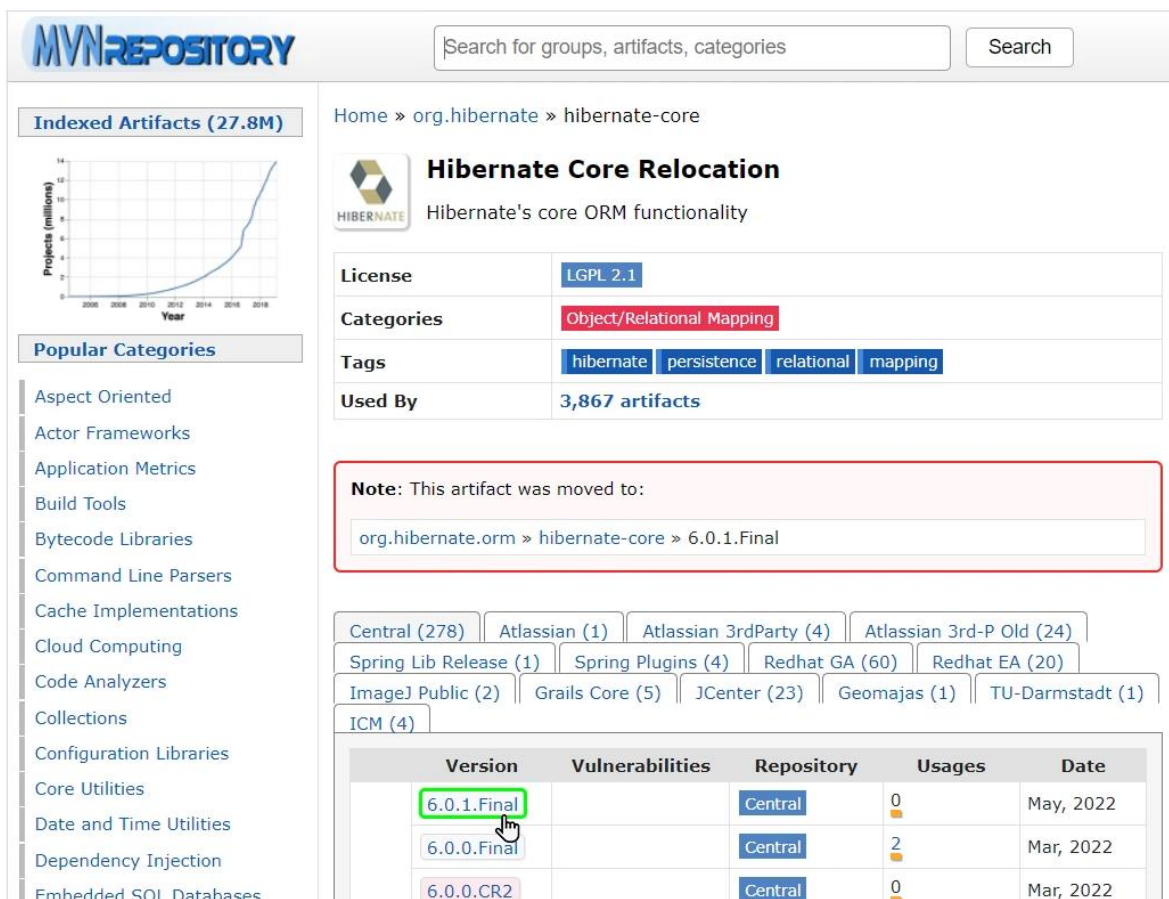
By the way, I added the XML of these two libraries to my pom.xml in less than a minute. Not bad, right? Now I will teach you how to quickly add any library to the project.

First, there is a **central public Maven repository** on the Internet , which stores millions of libraries. It is located at the link <https://mvnrepository.com/> , you can search for the library you need directly in it.



The screenshot shows the Maven Repository homepage. The search bar at the top contains the text "hibernate". The left sidebar includes a line graph titled "Indexed Artifacts (27.8M)" showing growth from 2005 to 2018, and a list of "Popular Categories" such as Aspect Oriented, Actor Frameworks, Application Metrics, and Build Tools. The main content area is titled "What's New in Maven" and lists two recent updates: "Jetcache Anno" and "Jetcache AutoConfigure", both by com.alicp.jetcache, version 2.7.0.M1, with a last release date of May 8, 2022. The Jetcache Anno entry shows 10 usages and the Jetcache AutoConfigure entry shows 8 usages, both under the Apache license.

Secondly, it can be even simpler - immediately write to Google "**maven hibernate**", follow the first link and you will get:



The screenshot shows the Maven Repository page for the artifact "org.hibernate » hibernate-core". The page title is "Hibernate Core Relocation" with the description "Hibernate's core ORM functionality". The license is LGPL 2.1, and the categories are Object/Relational Mapping. The tags include hibernate, persistence, relational, and mapping. It is used by 3,867 artifacts. A red-bordered note states: "Note: This artifact was moved to: org.hibernate.orm » hibernate-core » 6.0.1.Final". Below this, there is a list of repositories and their artifact counts: Central (278), Atlassian (1), Atlassian 3rdParty (4), Atlassian 3rd-P Old (24), Spring Lib Release (1), Spring Plugins (4), Redhat GA (60), Redhat EA (20), ImageJ Public (2), Grails Core (5), JCenter (23), Geomajas (1), TU-Darmstadt (1), and ICM (4). At the bottom, a table lists the versions of the artifact:

Version	Vulnerabilities	Repository	Usages	Date
6.0.1.Final		Central	0	May, 2022
6.0.0.Final		Central	2	Mar, 2022
6.0.0.CR2		Central	0	Mar, 2022

Select the desired version and click on it. Sometimes the latest version contains the Beta suffix, then go for something older.

I chose version 6.0.0.Final and went to the last page.

Home » org.hibernate » hibernate-core » 6.0.1.Final

Hibernate Core Relocation » 6.0.1.Final

Hibernate's core ORM functionality

License	LGPL 2.1
Categories	Object/Relational Mapping
Organization	Hibernate.org
HomePage	https://hibernate.org/orm
Date	(May 06, 2022)
Files	pom (1 KB) View All
Repositories	Central
Used By	3,867 artifacts

Note: This artifact was moved to:

[org.hibernate.orm » hibernate-core » 6.0.1.Final](#)

Maven Leiningen Gradle Gradle (Short) Gradle (Kotlin) SBT Ivy Grape

```
<!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
<dependency>
  <groupId>org.hibernate</groupId>
  <artifactId>hibernate-core</artifactId>
  <version>6.0.1.Final</version>
  <type>pom</type>
</dependency>
```

☒ Include comment with link to declaration

The green box here is the code that you need to copy into your pom.xml. All.