

# Prepear

## Java

The screenshot shows a Firefox browser window with the following details:

- Address Bar:** www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
- Page Content:** The main content is titled "Java SE Development Kit 8 Downloads". It includes a note about accepting the Oracle Binary Code License Agreement, a "See also:" section with links to developer newsletters, Java Day workshops, and Java Magazine, and a "JDK 8u121 checksum" link.
- Left Sidebar:** A sidebar titled "Java SE" lists various Java editions: Java SE, Java EE, Java ME, Java SE Support, Java SE Advanced & Suite, Java Embedded, Java DB, Web Tier, Java Card, Java TV, New to Java, Community, and Java Magazine.
- Right Sidebar:** Titled "Java SDKs and Tools", it lists links to Java SE, Java EE and Glassfish, Java ME, Java Card, NetBeans IDE, Java Mission Control, Java APIs, Technical Articles, Demos and Videos, Forums, Java Magazine, Java.net, Developer Training, Tutorials, and Java.com.
- Bottom Navigation:** Includes a "Choose What I Share" button.

## Maven

The screenshot shows a Firefox browser window with the address bar set to <https://maven.apache.org/download.cgi>. The main content area displays the Apache Maven 3.3.9 download page. On the left, there is a sidebar with various links under categories like MAIN, ABOUT MAVEN, DOCUMENTATION, COMMUNITY, and SUPPORT. The 'Download' link is currently selected. The main content includes a brief introduction, a note about mirrors, and a 'System Requirements' section with tables for Java Development Kit (JDK), Memory, Disk, and Operating System. Below this is a 'Files' section with a table of download links, checksums, and signatures. At the bottom, there is a note about Mozilla data collection and a 'Choose What I Share' button.

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COMMUNITY

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How to Contribute

Maven Repository

Getting Help

Apache Maven 3.3.9

Apache Maven 3.3.9 is the latest release and recommended version for all users.

The currently selected download mirror is <http://ftp.meisei-u.ac.jp/mirror/apache/dist/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available. You may also consult the [complete list of mirrors](#).

Other mirrors:

## System Requirements

Java Development Kit (JDK)	Maven 3.3 requires JDK 1.7 or above to execute - it still allows you to build against 1.3 and other JDK versions by <a href="#">Using Toolchains</a>
Memory	No minimum requirement
Disk	Approximately 10MB is required for the Maven installation itself. In addition to that, additional disk space will be used for your local Maven repository. The size of your local repository will vary depending on usage but expect at least 500MB.
Operating System	No minimum requirement. Start up scripts are included as shell scripts and Windows batch files.

## Files

Maven is distributed in several formats for your convenience. Simply pick a ready-made binary distribution archive and follow the [installation instructions](#). Use a source archive if you intend to build Maven yourself.

In order to guard against corrupted downloads/installations, it is highly recommended to [verify the signature](#) of the release bundles against the public KEYS used by the Apache Maven developers.

	Link	Checksum	Signature
Binary tar.gz archive	<a href="#">apache-maven-3.3.9-bin.tar.gz</a>	<a href="#">apache-maven-3.3.9-bin.tar.gz.md5</a>	<a href="#">apache-maven-3.3.9-bin.tar.gz.asc</a>
Binary zip archive	<a href="#">apache-maven-3.3.9-bin.zip</a>	<a href="#">apache-maven-3.3.9-bin.zip.md5</a>	<a href="#">apache-maven-3.3.9-bin.zip.asc</a>
Source tar.gz archive	<a href="#">apache-maven-3.3.9-src.tar.gz</a>	<a href="#">apache-maven-3.3.9-src.tar.gz.md5</a>	<a href="#">apache-maven-3.3.9-src.tar.gz.asc</a>
Source zip archive	<a href="#">apache-maven-3.3.9-src.zip</a>	<a href="#">apache-maven-3.3.9-src.zip.md5</a>	<a href="#">apache-maven-3.3.9-src.zip.asc</a>

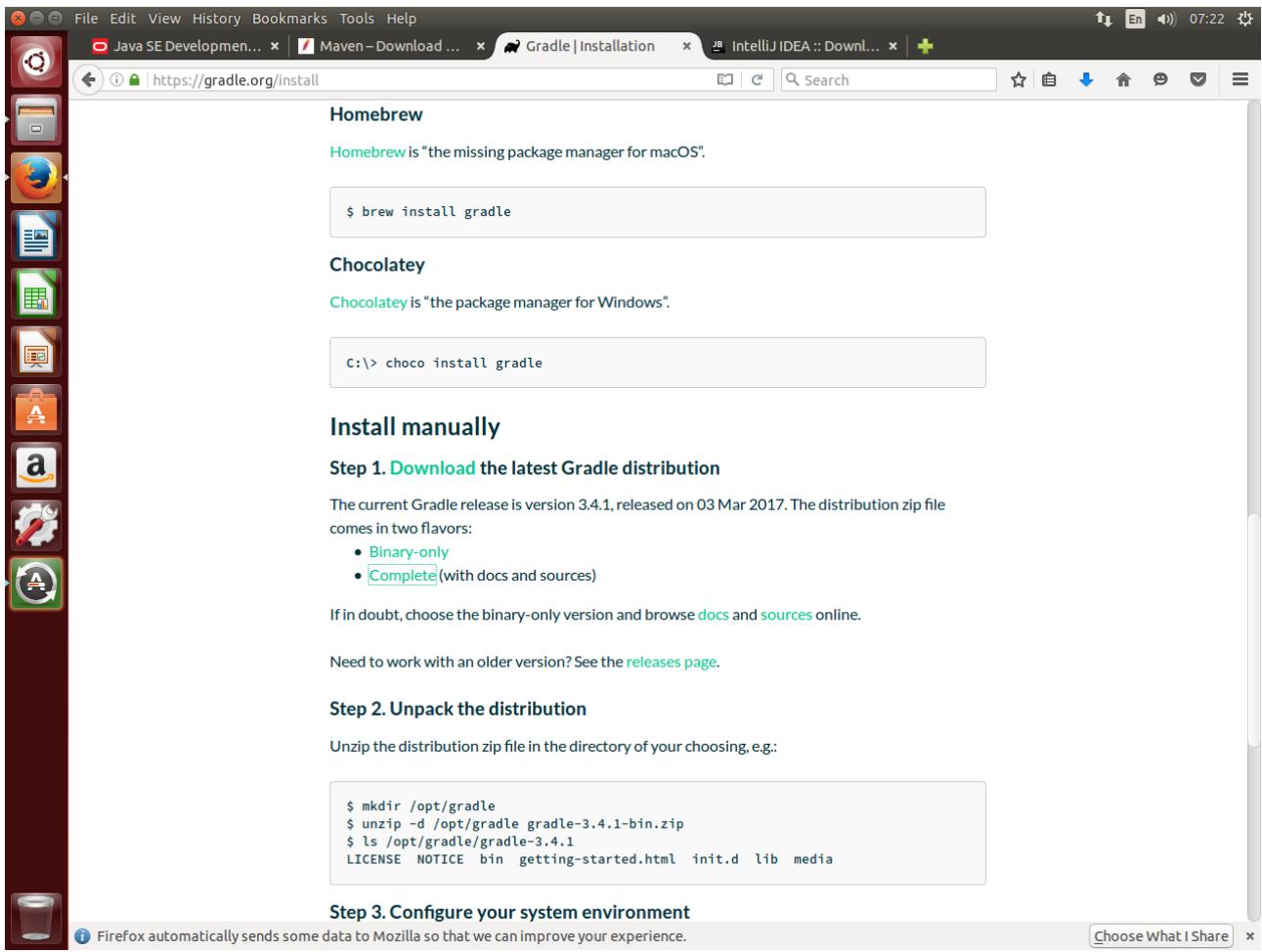
- [Release Notes](#)

Firefox automatically sends some data to Mozilla so that we can improve your experience.

1.

mvn -v

## Gradle



The screenshot shows a Mac OS X desktop environment. A Firefox browser window is open, displaying the official Gradle installation guide at <https://gradle.org/install>. The browser's address bar shows the URL. The sidebar on the left contains icons for various applications, including Java SE Development Kit, Maven, Gradle, and IntelliJ IDEA.

**Homebrew**  
Homebrew is "the missing package manager for macOS".  

```
$ brew install gradle
```

**Chocolatey**  
Chocolatey is "the package manager for Windows".  

```
C:\> choco install gradle
```

**Install manually**

**Step 1. Download the latest Gradle distribution**  
The current Gradle release is version 3.4.1, released on 03 Mar 2017. The distribution zip file comes in two flavors:

- [Binary-only](#)
- [Complete](#) (with docs and sources)

If in doubt, choose the binary-only version and browse [docs](#) and [sources](#) online.

Need to work with an older version? See the [releases page](#).

**Step 2. Unpack the distribution**  
Unzip the distribution zip file in the directory of your choosing, e.g.:  

```
$ mkdir /opt/gradle  
$ unzip -d /opt/gradle gradle-3.4.1-bin.zip  
$ ls /opt/gradle/gradle-3.4.1  
LICENSE NOTICE bin getting-started.html init.d lib media
```

**Step 3. Configure your system environment**

Firefox automatically sends some data to Mozilla so that we can improve your experience. [Choose What I Share](#)

1. gradle -v

## IDEA

Offical Website

<https://www.jetbrains.com/idea/>

download

<https://www.jetbrains.com/idea/>

File Edit View History Bookmarks Tools Help

Java SE Developmen... | Maven - Download ... | Gradle | Installation | IntelliJ IDEA :: Downl...

JetBrains s.r.o. (CZ) https://www.jetbrains.com/idea/download/#section=linux

ALL TOOLS IDEs .NET & VISUAL STUDIO TEAM TOOLS LANGUAGES STORE SUPPORT WE ARE JETBRAINS

IntelliJ IDEA Coming in 2017.1 PUBLIC PREVIEW What's New Features Learn Buy Download

Version: 2016.3.5 Build: 163.13906.18 Released: March 7, 2017

System requirements Installation Instructions Previous versions

macOS Windows Linux

## Download IntelliJ IDEA

**Ultimate**

Web, mobile and enterprise development

[DOWNLOAD](#) [.TAR.GZ](#)

Free 30-day trial, 573 MB

**Community**

Java, Groovy, Scala and Android development

[DOWNLOAD](#) [.TAR.GZ](#)

Free download, 392 MB

Get the [ToolBox App](#) to download IntelliJ IDEA and its future updates.

Cookies help us improve our web content and deliver a personalized experience. By using this website, you agree to our use of cookies.  
Type 'man cookies' to [learn more](#) or 'exit' to close.  
~ root#

Choose What I Share

## Eclipse

Eclipse Downloads - Mozilla Firefox

Eclipse Downloads

https://www.eclipse.org/downloads/

eclipse

GETTING STARTED MEMBERS PROJECTS MORE

Download Eclipse Technology that is right for you

2 Weeks until Eclipse Converge and DevOxx US, in San Jose, CA, March 20-23, 2017

REGISTER TODAY!

Tool Platforms

Get Eclipse Neon

Install your favorite Eclipse packages.

[DOWNLOAD 64 BIT](#)

Download Packages

Eclipse Che

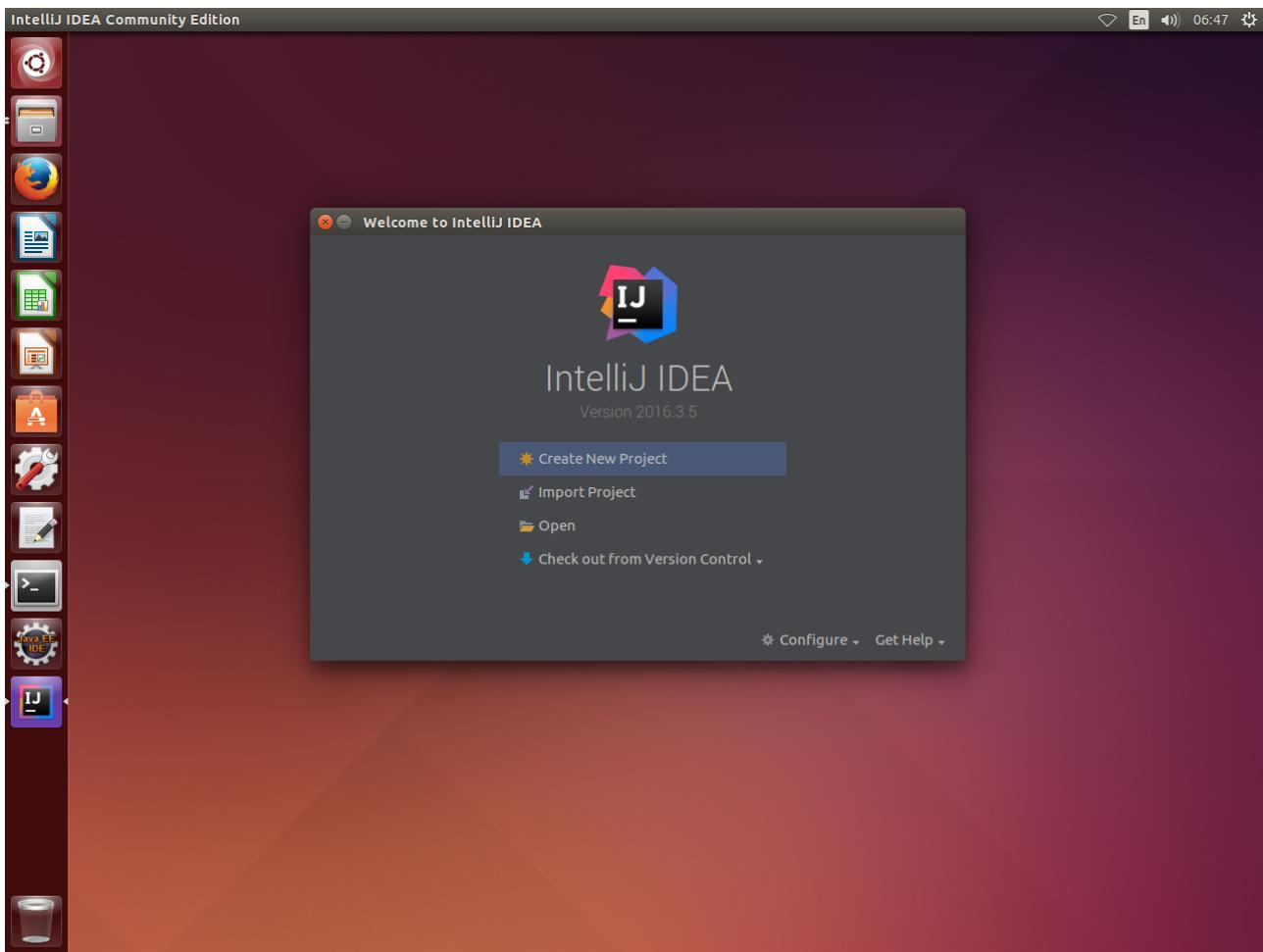
Eclipse Che is a developer workspace server and cloud IDE.

ORION

A modern, open source software development environment that runs in the cloud.

Runtime Platforms

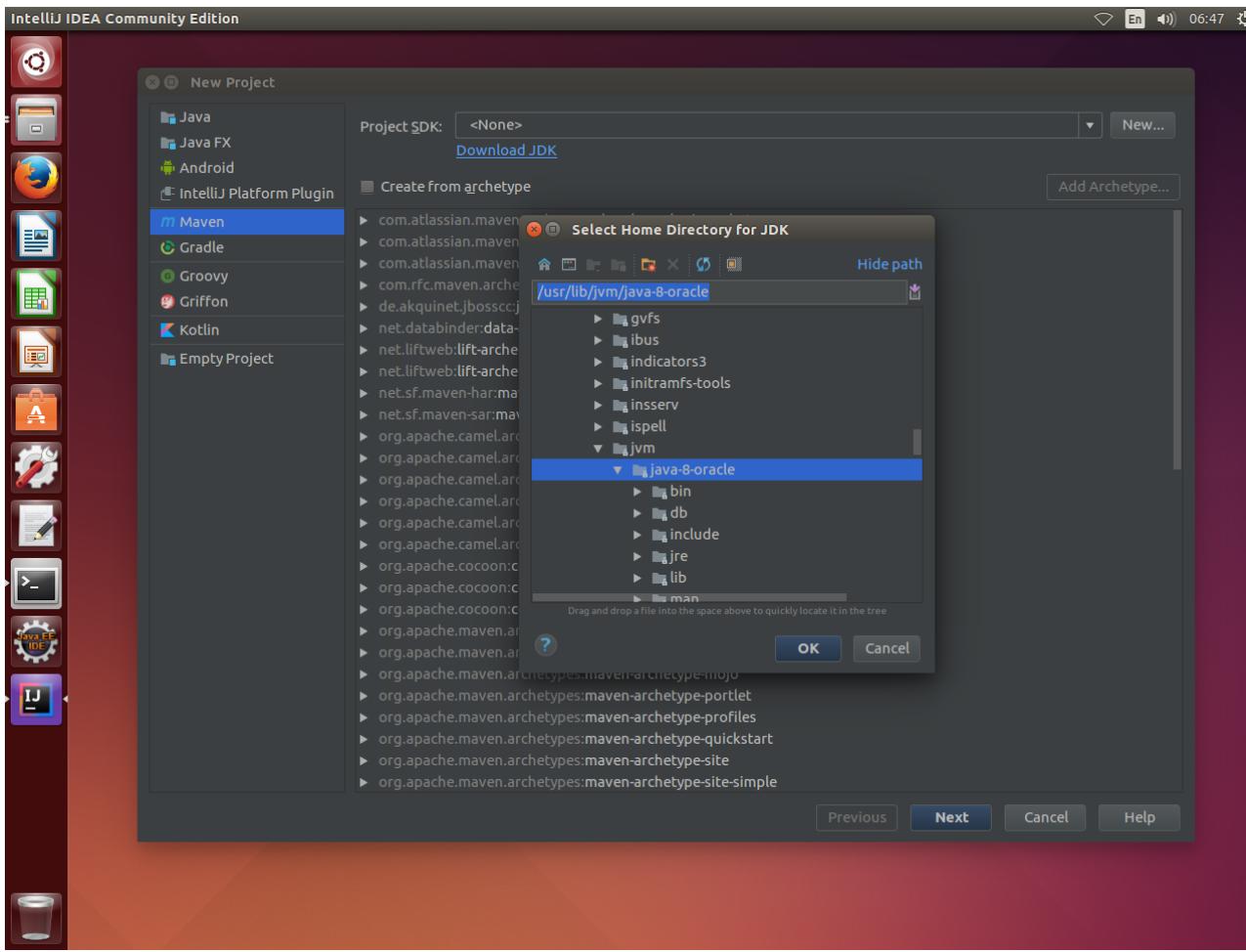
# Idea Develop



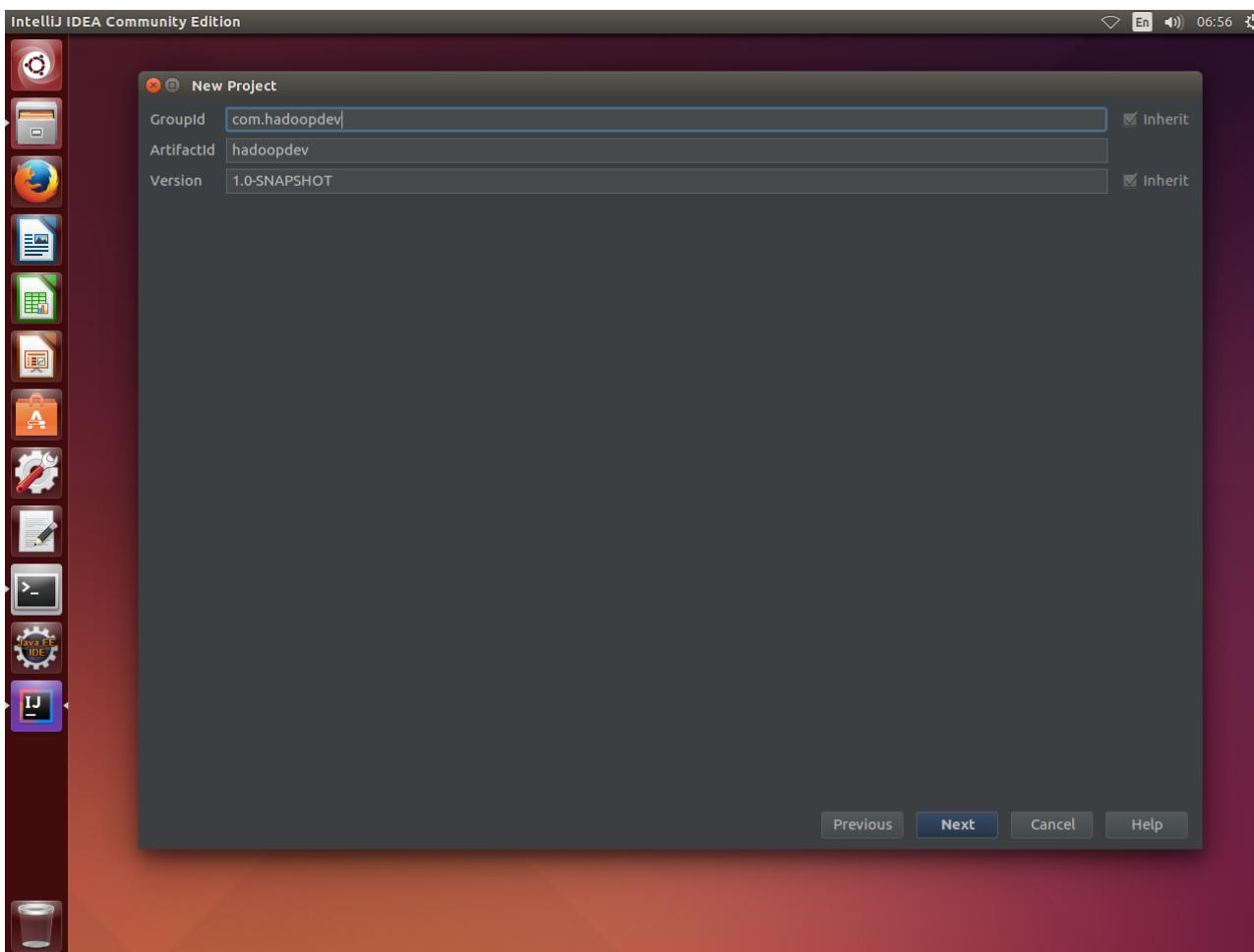
在左侧栏中，选择 Maven

配置JDK

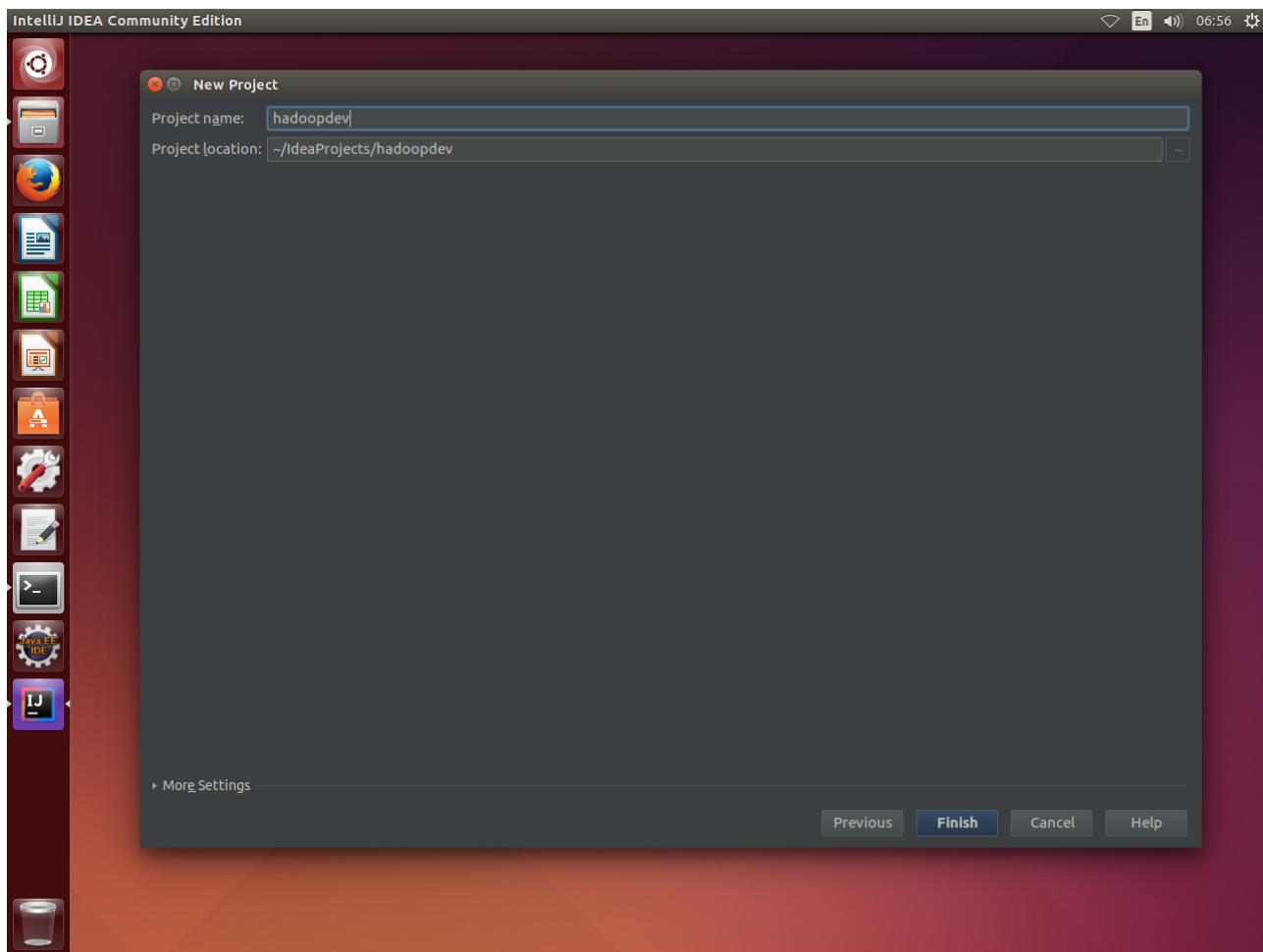
Next



## 配置 GroupId , ArtifactId , Version



## 配置 Project name , Project location



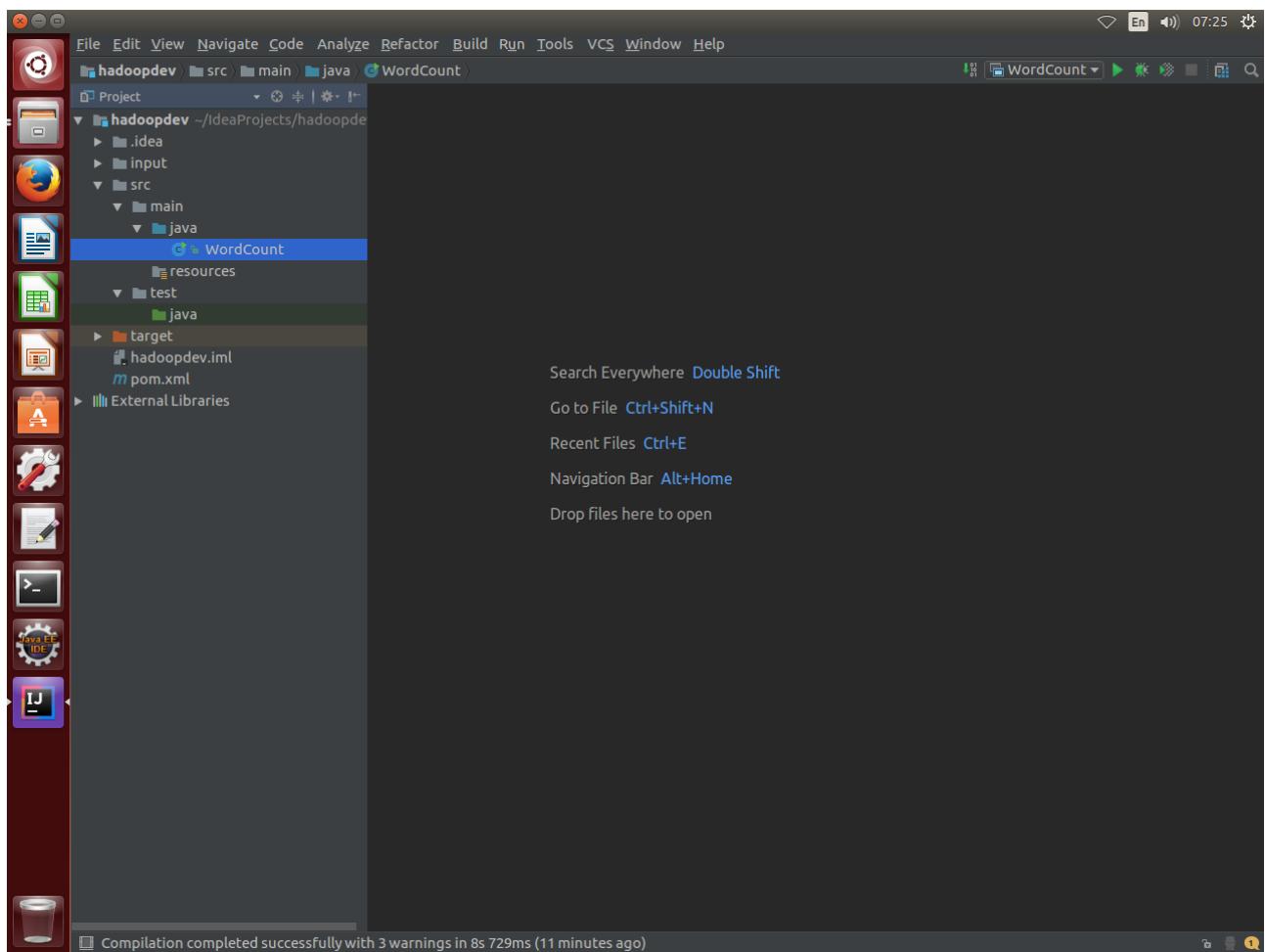
等待

自动打开 Hadoop Project

The screenshot shows the IntelliJ IDEA interface. On the left is the Project tool window, displaying a Maven project named "hadoopdev". The "src" directory contains "main" and "test" packages, each with "java" sub-directories. The "main/java" directory contains files "hadoopdev.java", "hadoopdev.iml", and "pom.xml". The "pom.xml" file is open in the main editor area, showing the following XML code:

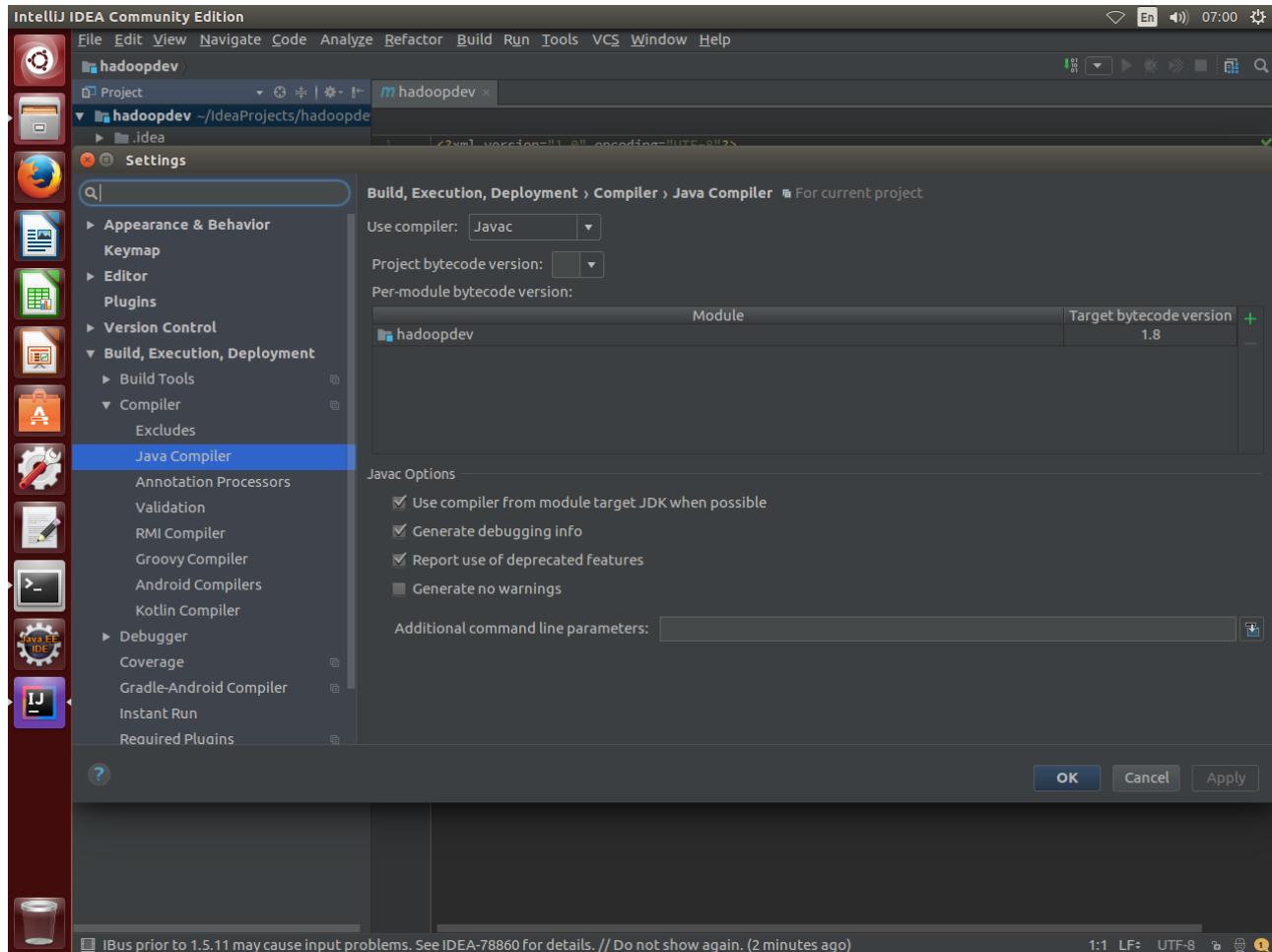
```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <groupId>com.hadoopdev</groupId>
    <artifactId>hadoopdev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

在项目根目录，创建 input 目录（作为Map-Reduce的输入数据）



通过菜单 File -> Settings , 打开设置画面

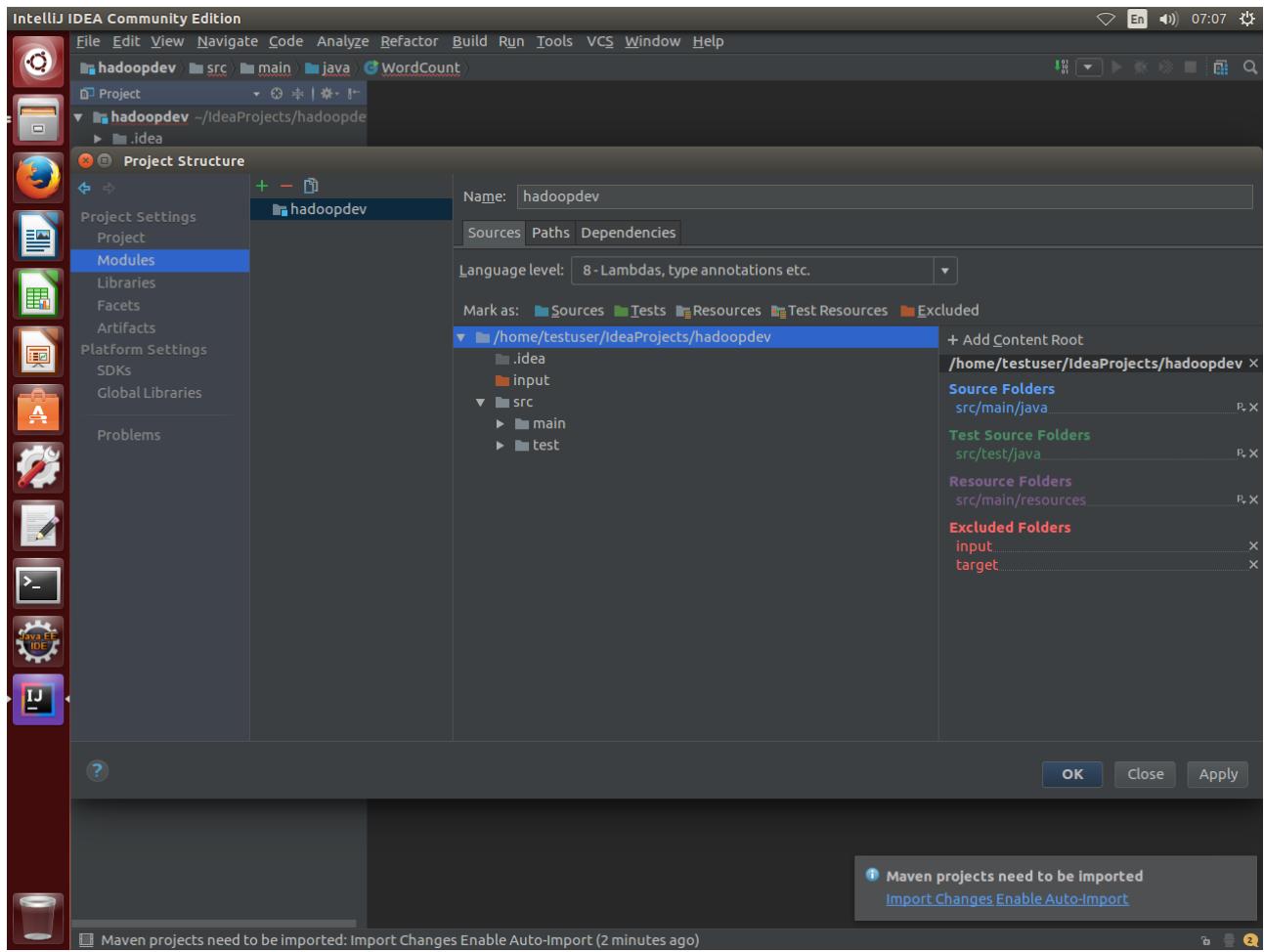
更改项目的 Target bytecode version



通过菜单 File -> Project Structure , 打开项目结构画面

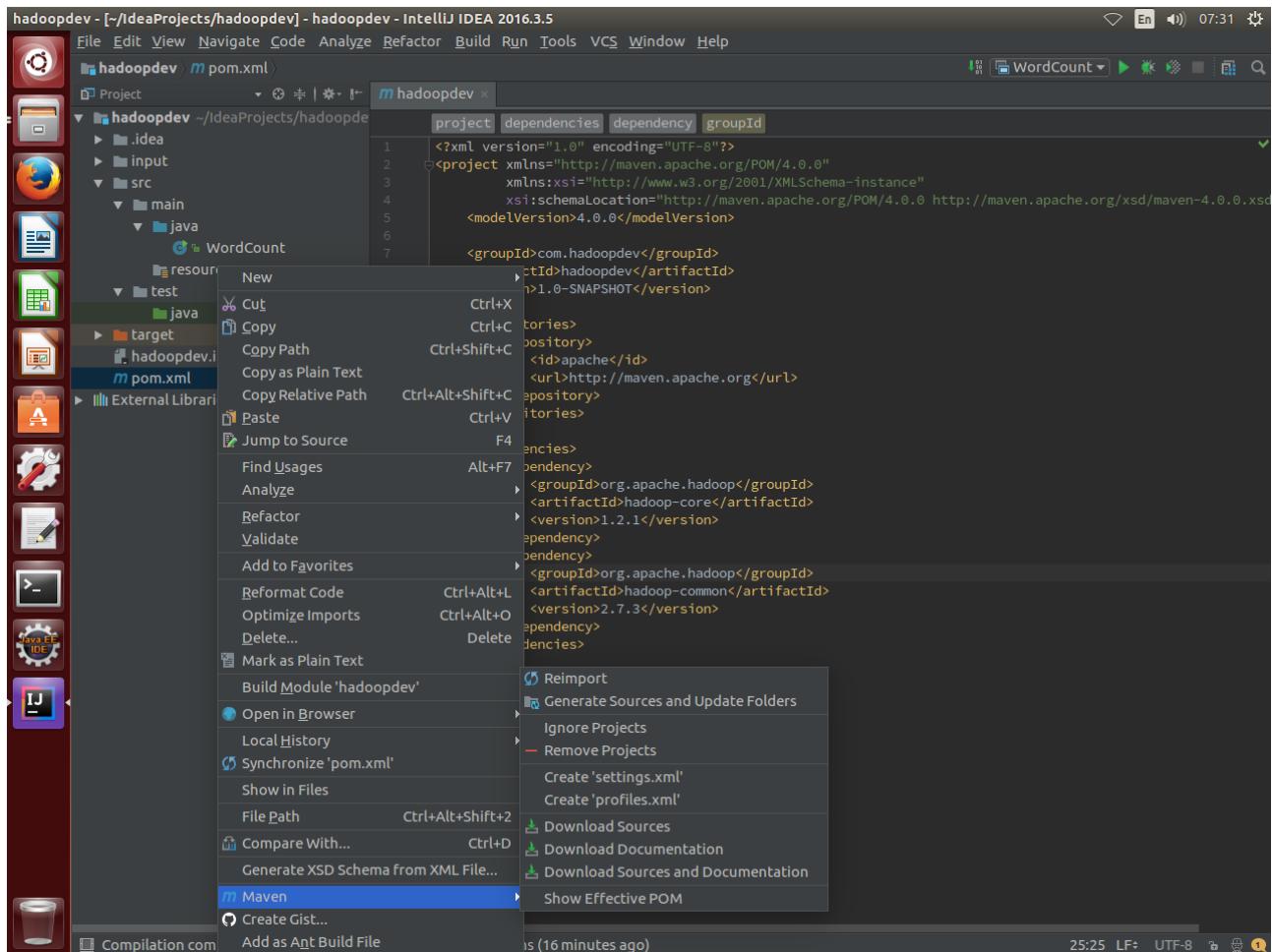
更改项目的 Language Level

将 input 目录设置为 Excluded



## 更改Maven配置文件 pom.xml

鼠标右键点击 pom.xml -> Maven -> Reimport

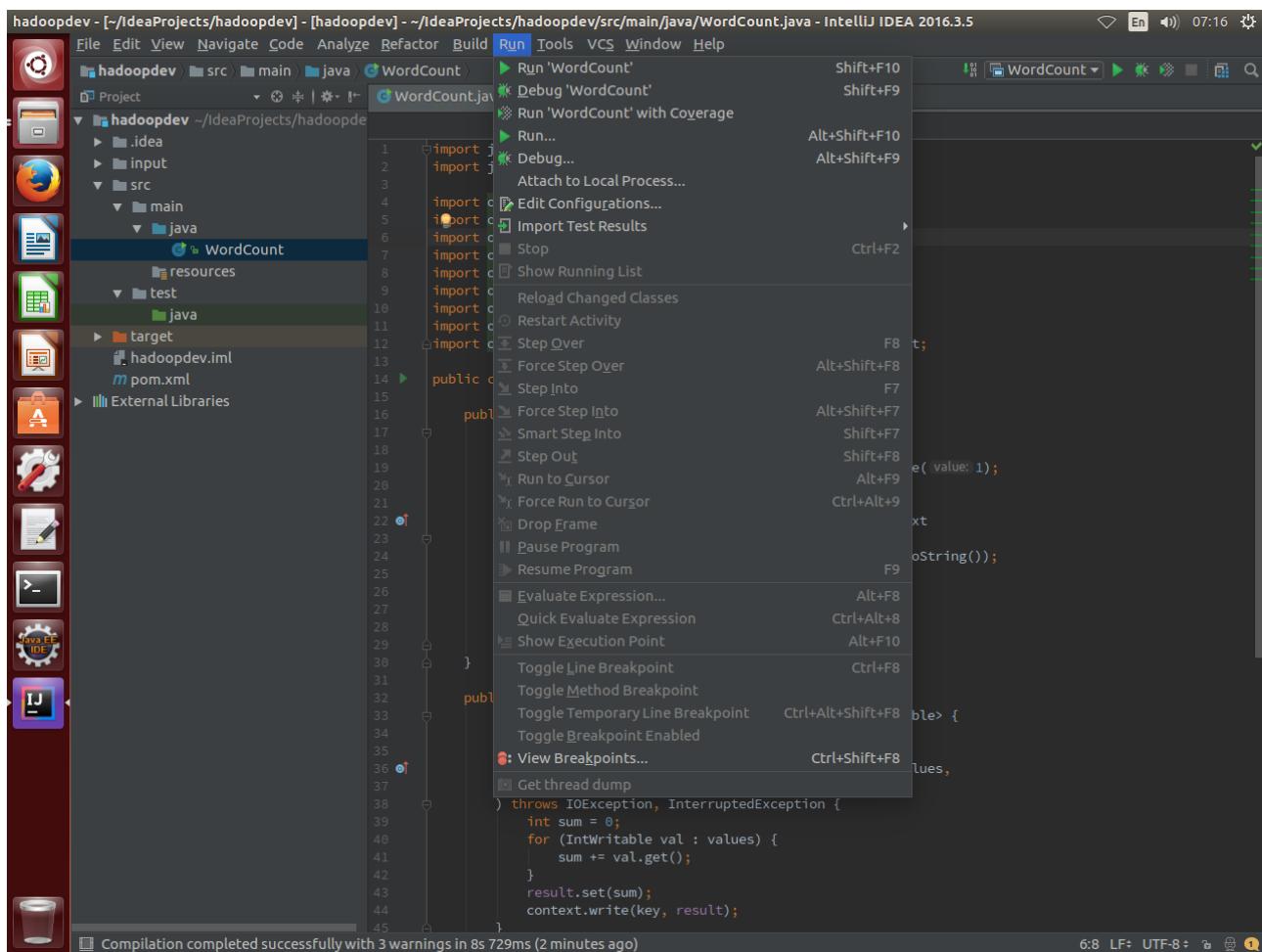


## 追加 Map-Reduce 代码

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Structure:** The project tree on the left shows a directory structure for "hadoopdev" containing ".idea", "input", "src" (with "main" and "java" subfolders), "test", and "target". "WordCount.java" is selected in the "java" folder.
- Code Editor:** The main window displays the Java code for "WordCount.java". The code defines two inner classes: "TokenizerMapper" (extending Mapper<Object, Text, Text, IntWritable>) and "IntSumReducer" (extending Reducer<Text, IntWritable, Text, IntWritable>). The "TokenizerMapper" class has a "map" method that tokenizes the input and emits each word with a value of 1. The "IntSumReducer" class has a "reduce" method that sums up the values for each word and emits the total count.
- Status Bar:** At the bottom, it says "Compilation completed successfully with 3 warnings in 8s 729ms (17 minutes ago)".
- Toolbar:** The top bar includes standard IDE icons for File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help, and a search bar.

通过菜单 Run -> Run 'WordCount' , 运行 WordCount



Map-Reduce 执行完毕

查看执行结果 output/part-r-00000

