

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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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 Using Toolchains
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	apache-maven-3.3.9-bin.tar.gz	apache-maven-3.3.9-bin.tar.gz.md5	apache-maven-3.3.9-bin.tar.gz.asc
Binary zip archive	apache-maven-3.3.9-bin.zip	apache-maven-3.3.9-bin.zip.md5	apache-maven-3.3.9-bin.zip.asc
Source tar.gz archive	apache-maven-3.3.9-src.tar.gz	apache-maven-3.3.9-src.tar.gz.md5	apache-maven-3.3.9-src.tar.gz.asc
Source zip archive	apache-maven-3.3.9-src.zip	apache-maven-3.3.9-src.zip.md5	apache-maven-3.3.9-src.zip.asc

- [Release Notes](#)

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

1. mvn -v

Gradle

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/>

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

- Address Bar:** JetBrains s.r.o. (CZ) https://www.jetbrains.com/idea/download/#section=linux
- Page Content:** The IntelliJ IDEA download page. It features the IntelliJ logo and navigation links for ALL TOOLS, IDEs, .NET & VISUAL STUDIO, TEAM TOOLS, LANGUAGES, STORE, SUPPORT, WE ARE JETBRAINS, and a search bar.
- Download Section:** A large "Download IntelliJ IDEA" button is centered. Below it, tabs for macOS, Windows, and Linux are shown, with "Linux" being the active tab.
- Ultimate Edition:** Described as "Web, mobile and enterprise development". It includes a "DOWNLOAD" button and ".TAR.GZ" link, noting a "Free 30-day trial, 573 MB".
- Community Edition:** Described as "Java, Groovy, Scala and Android development". It includes a "DOWNLOAD" button and ".TAR.GZ" link, noting a "Free download, 392 MB".
- ToolBox App Pop-up:** A small window in the bottom right corner encourages users to get the ToolBox App to download IntelliJ IDEA.
- Firefox Status Bar:** Shows a message about data collection and a "Choose What I Share" button.

Eclipse

Offical Website

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

download

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

Eclipse Downloads - Mozilla Firefox

Eclipse Downloads https://www.eclipse.org/downloads/ Search Create account Log in Google Custom Search

GETTING STARTED MEMBERS PROJECTS MORE

Download Eclipse Technology that is right for you

RAPIDclipse™ THE VISUAL ECLIPSE BEST GUI BUILDER NEW HIBERNATE TOOLS WEB • MOBILE • DESKTOP • CLOUD DOWNLOAD FREE

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.

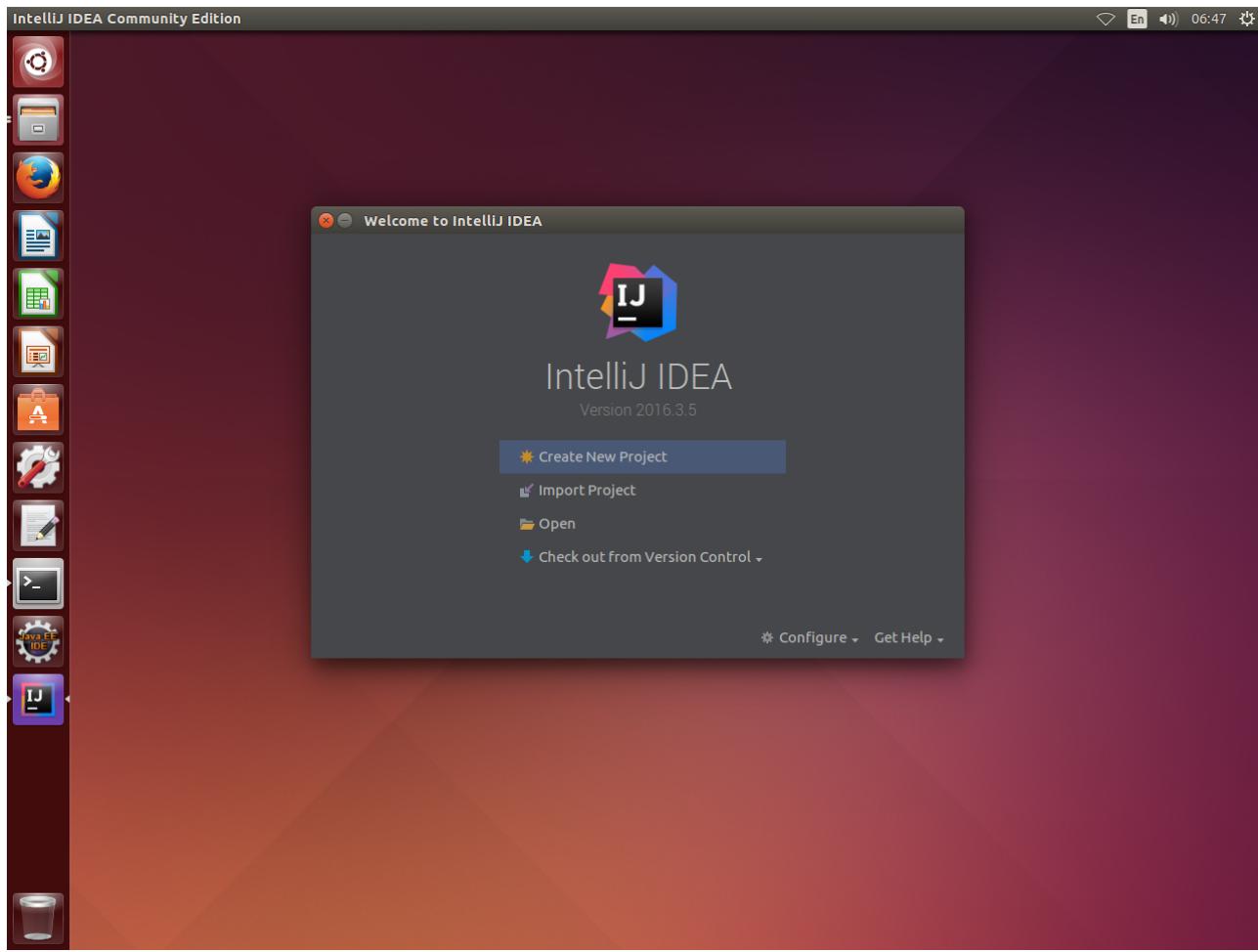
ORION

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

Runtime Platforms

The screenshot shows the Eclipse Downloads page on Mozilla Firefox. On the left, there's a vertical sidebar with icons for different Eclipse projects like Java EE IDE, JBoss Tools, and others. The main content area features a large blue banner with the text 'Download Eclipse Technology that is right for you'. To the right of the banner is an advertisement for 'RAPIDclipse™ THE VISUAL ECLIPSE' with a 'DOWNLOAD FREE' button. Below the banner, there's a red bar with the text '2 Weeks until Eclipse Converge and Devoxx US, in San Jose, CA, March 20-23, 2017' and a 'REGISTER TODAY!' button. The page is divided into sections for 'Tool Platforms' (featuring Eclipse Neon), 'Eclipse Che', and 'ORION'. Each section has a logo, a brief description, and a 'DOWNLOAD' or 'REGISTER' button. At the bottom, there's a 'Runtime Platforms' section with a progress bar.

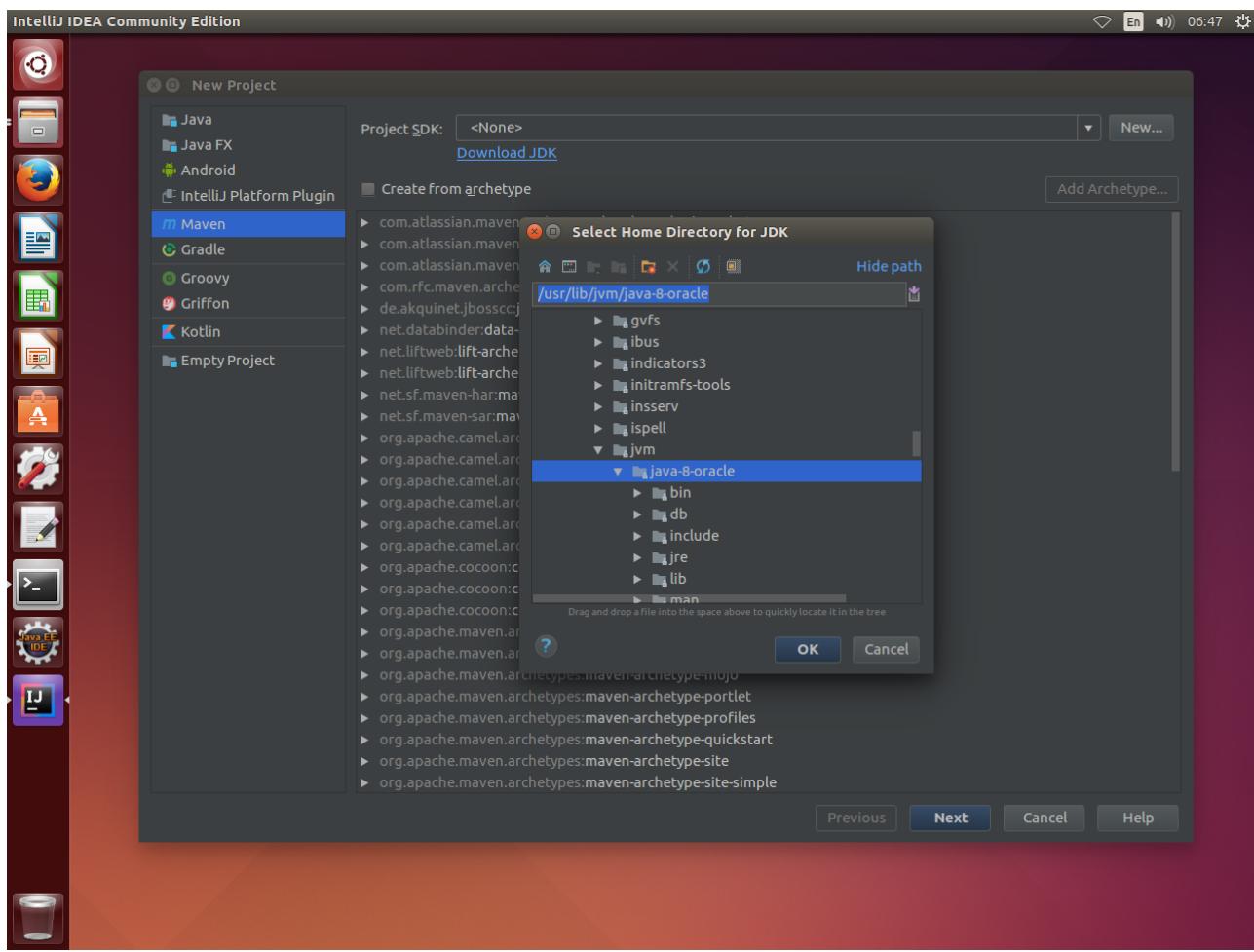
Idea Develop



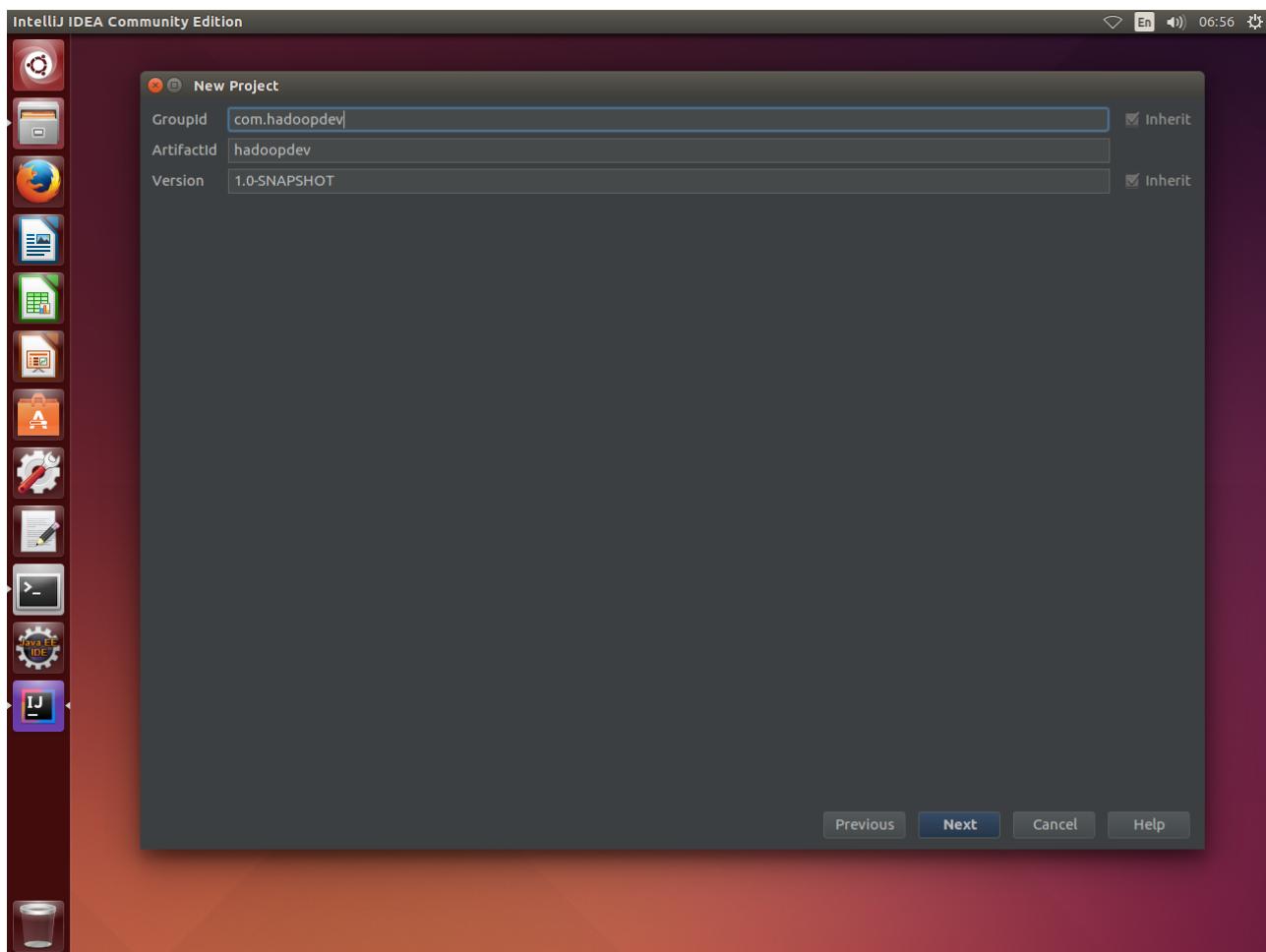
在左侧栏中，选择 Maven

配置JDK

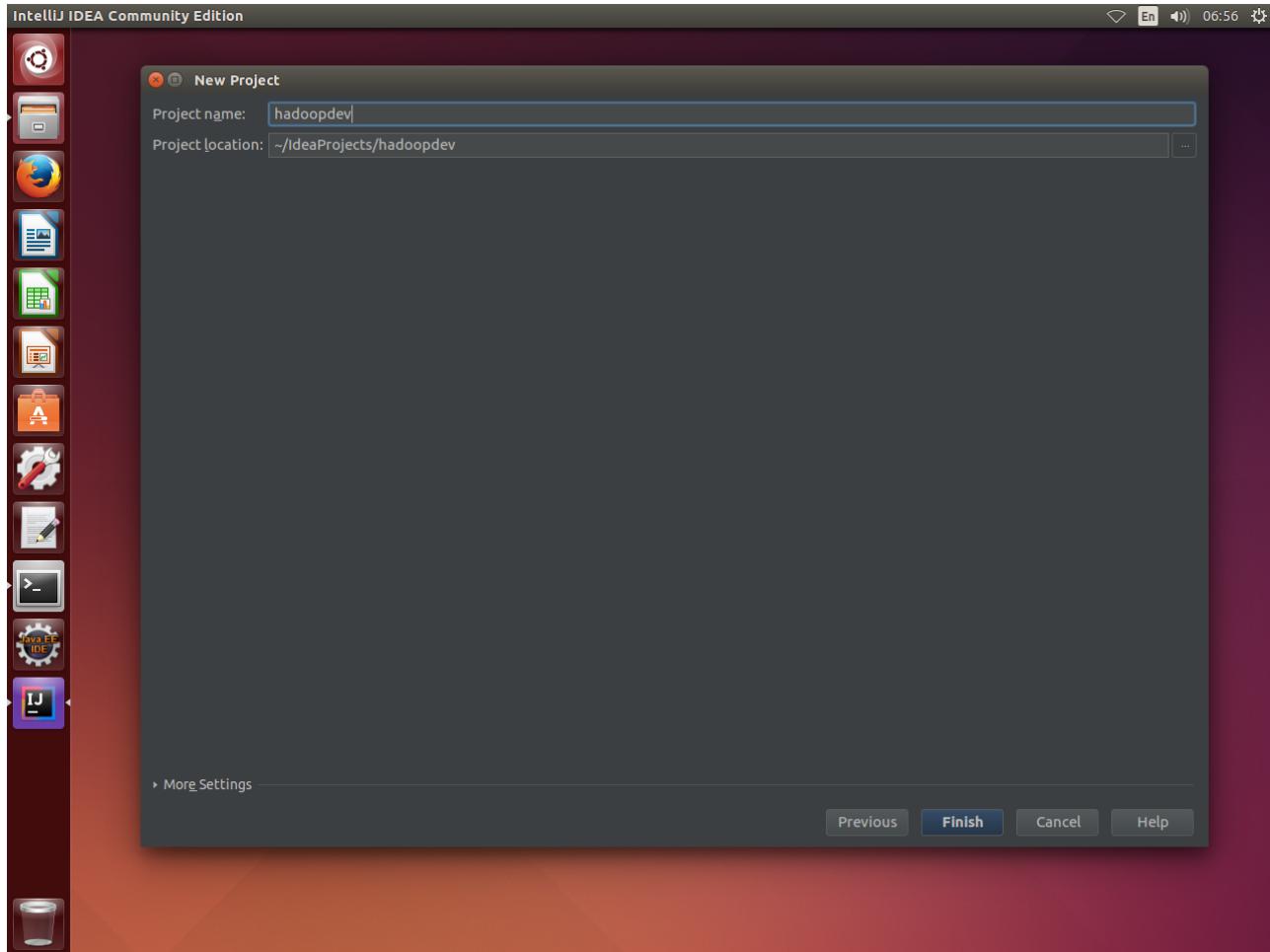
Next



配置 GroupId , ArtifactId , Version



配置 Project name , Project location



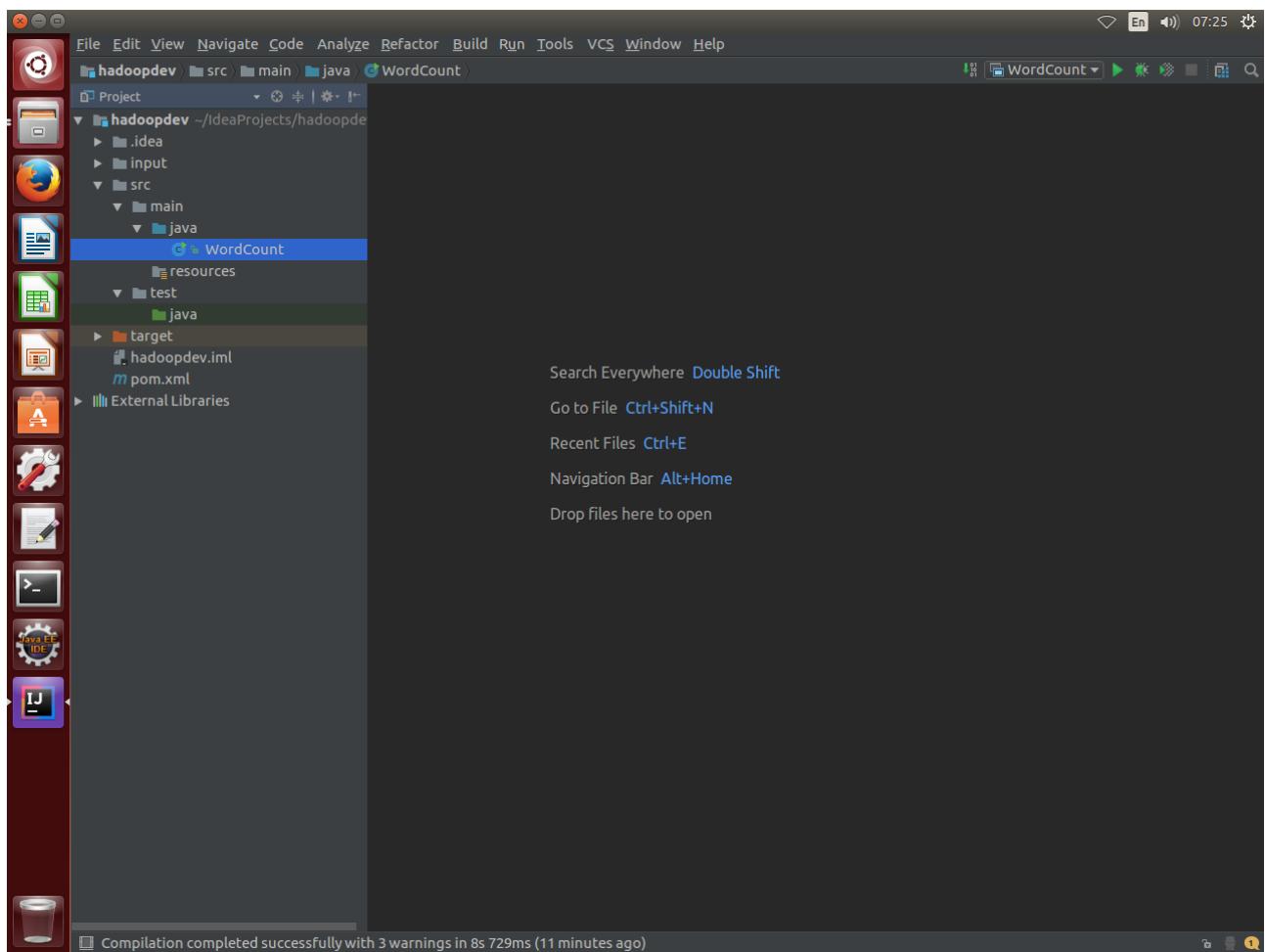
等待

自动打开 Hadoop Project

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

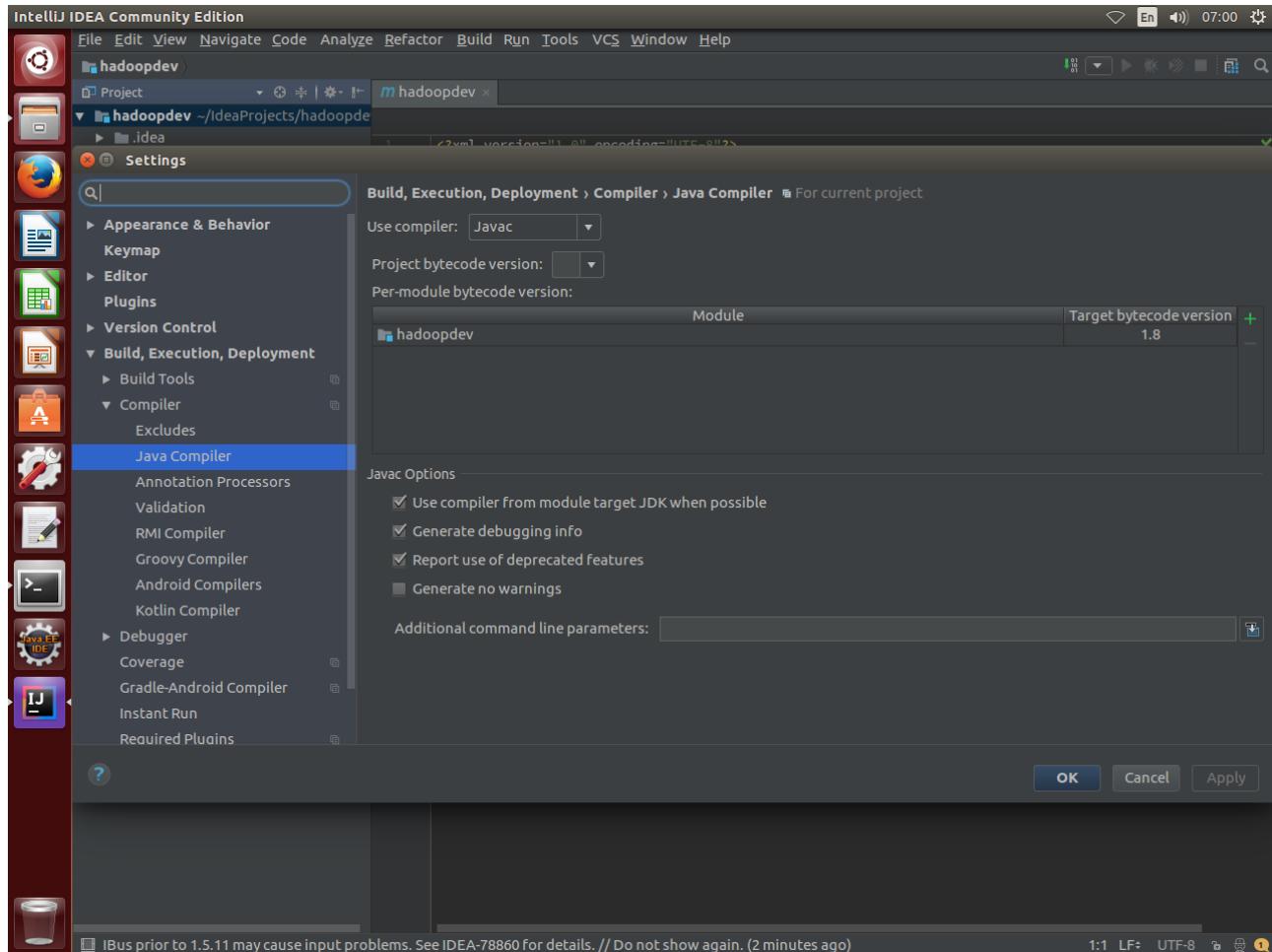
- File Menu:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Toolbar:** Includes icons for file operations, search, and navigation.
- Project Bar:** Shows the project name "hadoopdev" and its location "~/ideaProjects/hadoopdev".
- Project Structure:** The project tree shows a .idea folder, a src folder containing main and test subfolders, and an External Libraries folder.
- Code Editor:** The main editor window displays the contents of the pom.xml file, which defines a Maven project with groupId "com.hadoopdev", artifactId "hadoopdev", and version "1.0-SNAPSHOT".
- Status Bar:** Shows "IBus prior to 1.5.11 may cause input problems. See IDEA-78860 for details. // Do not show again." and "1:1 LF: UTF-8".

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

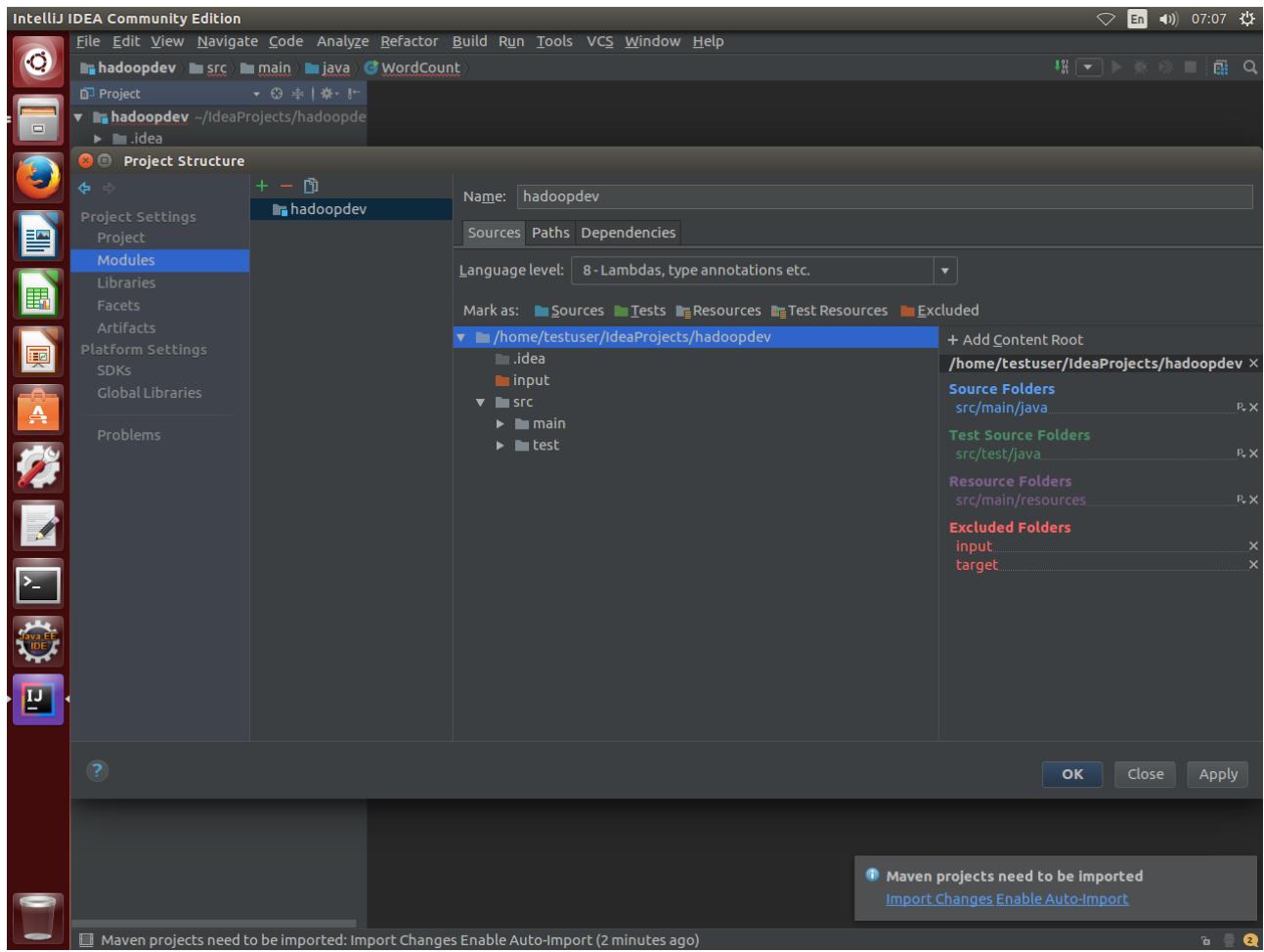
更改项目的 Target bytecode version



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

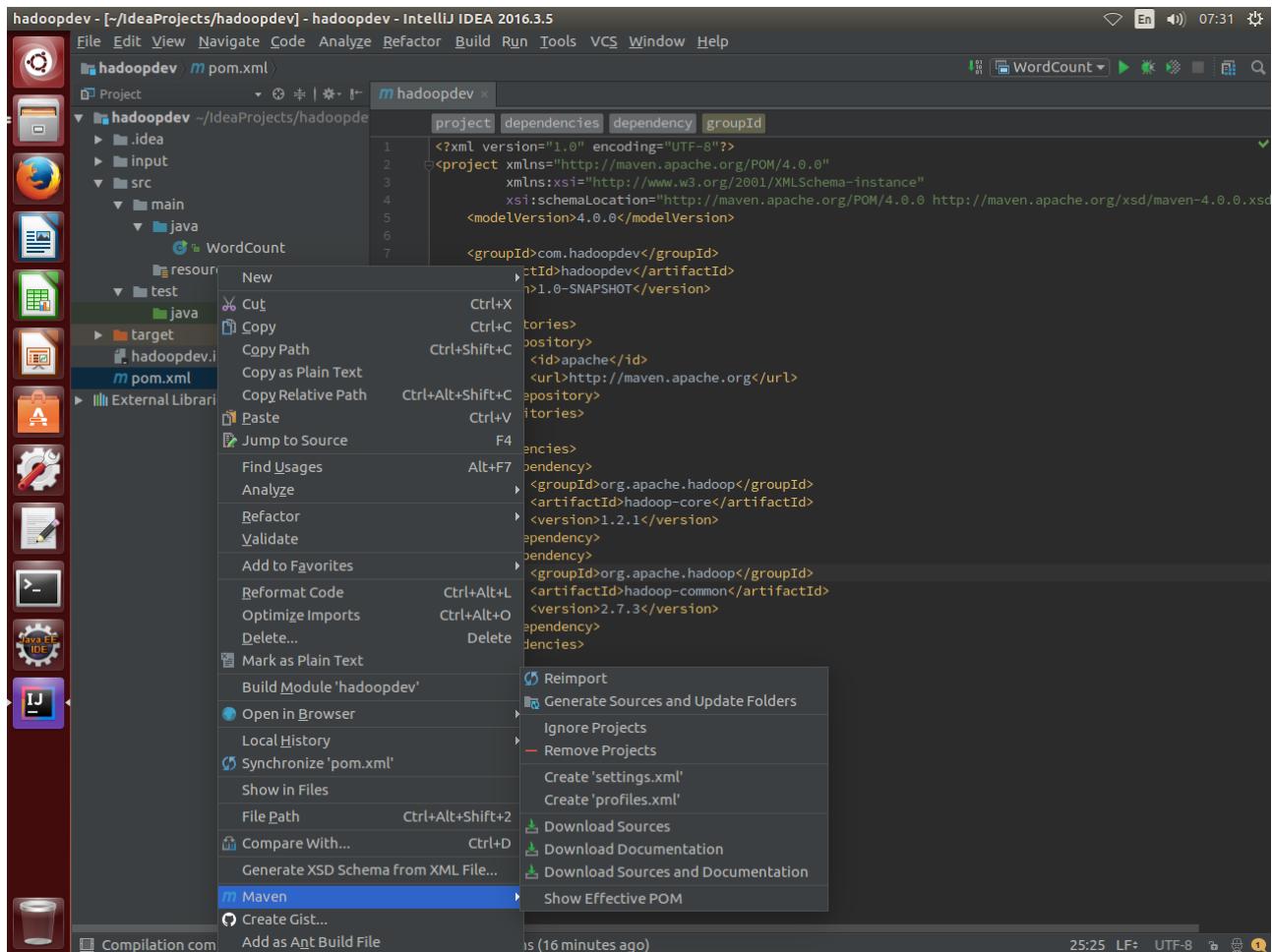
更改项目的 Language Level

将 input 目录设置为 Excluded

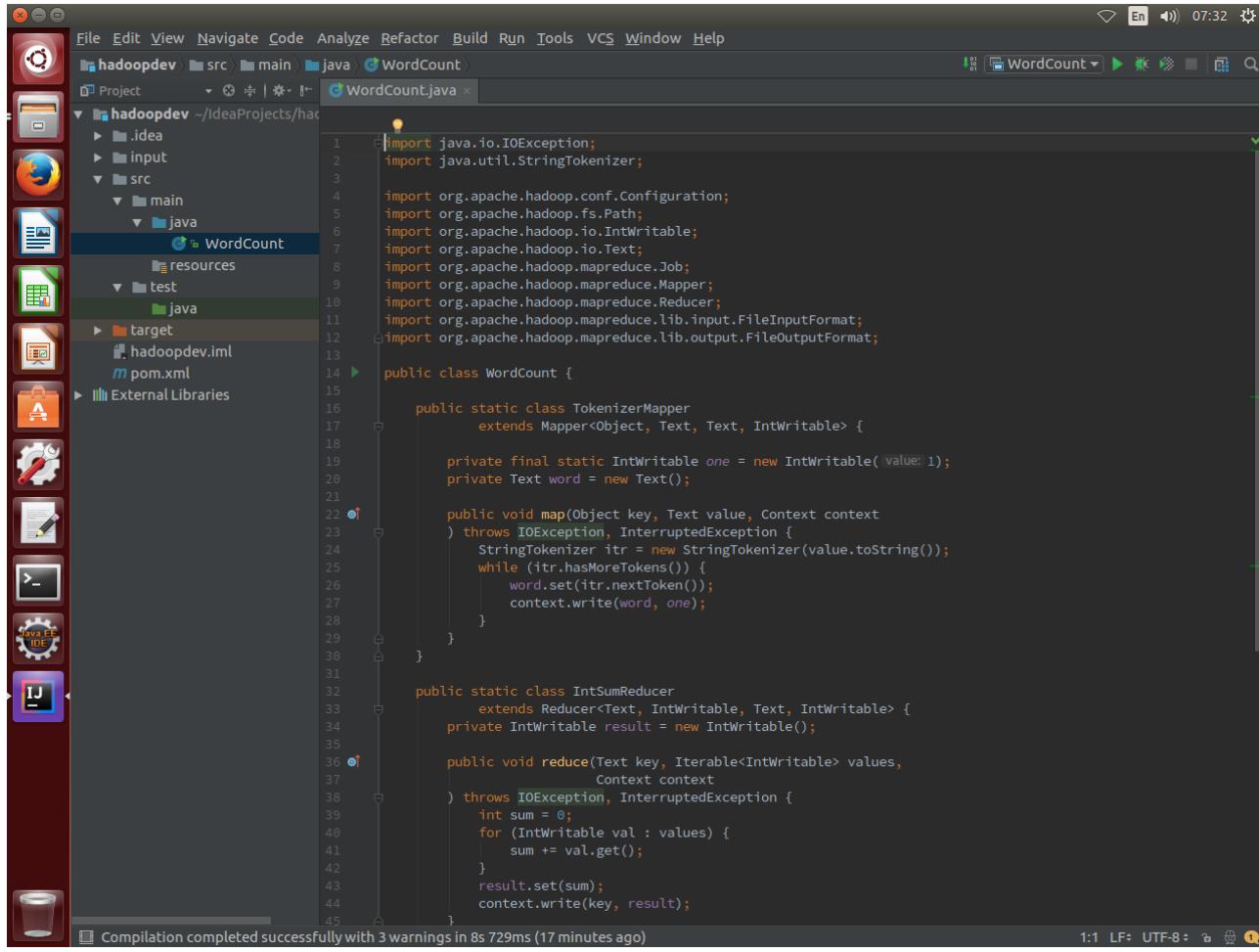


更改Maven配置文件 pom.xml

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 Menu:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Toolbar:** Includes icons for file operations, search, and navigation.
- Project Structure:** Shows a project named "hadoopdev" with a "src" directory containing "main" and "test" packages, and "java" sub-directories for each. A "WordCount" class is selected in the main package.
- Code Editor:** Displays the Java code for the WordCount class, which includes imports for Hadoop API classes and two inner classes: TokenizerMapper and IntSumReducer.
- Status Bar:** Compilation status: "Compilation completed successfully with 3 warnings in 8s 729ms (17 minutes ago)".
- Bottom Right:** Encoding: "1:1 LF", "UTF-8", and other small icons.

```
import java.io.IOException;
import java.util.StringTokenizer;

import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.Job;
import org.apache.hadoop.mapreduce.Mapper;
import org.apache.hadoop.mapreduce.Reducer;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

public class WordCount {

    public static class TokenizerMapper
        extends Mapper<Object, Text, Text, IntWritable> {

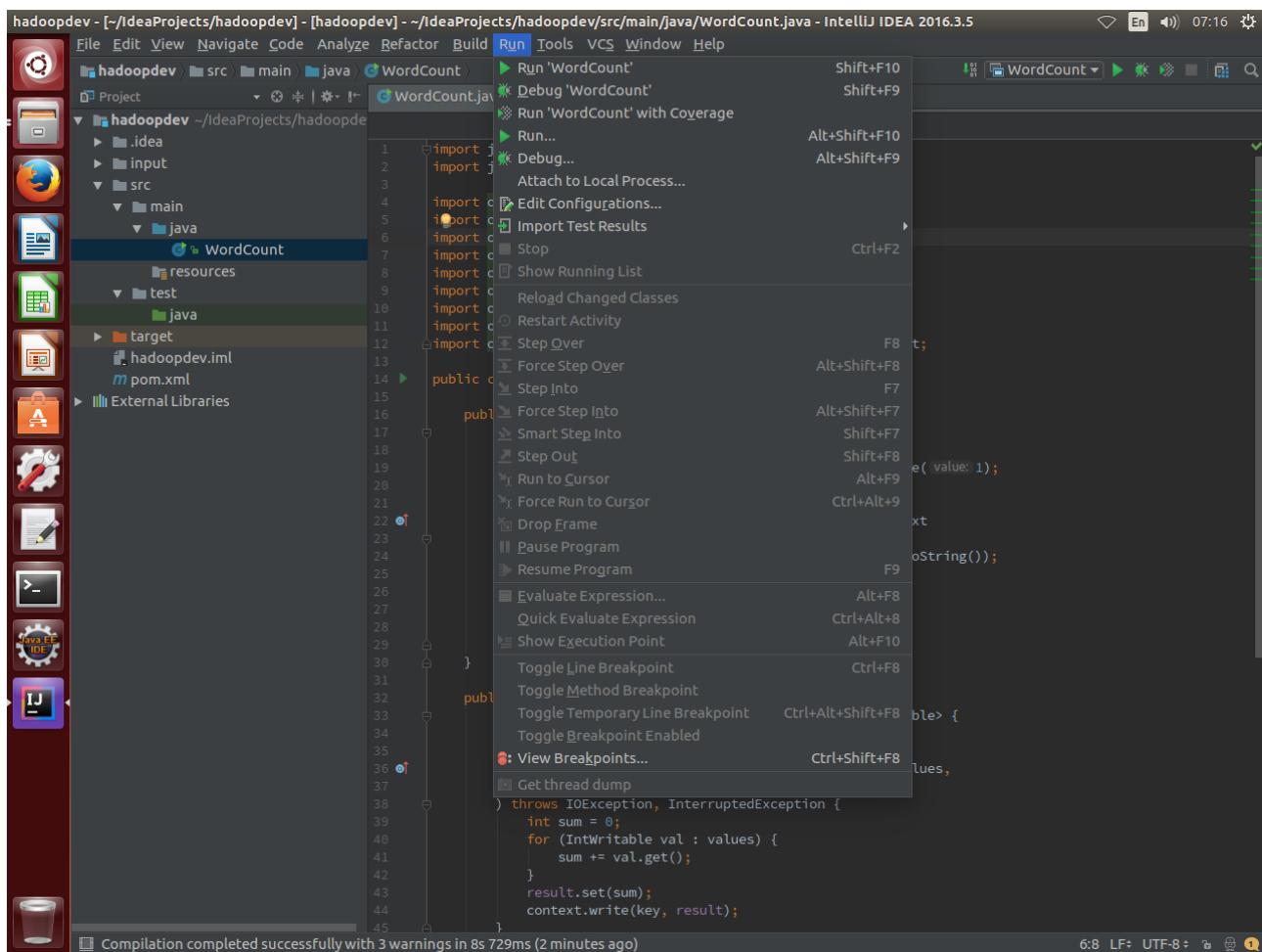
        private final static IntWritable one = new IntWritable(1);
        private Text word = new Text();

        public void map(Object key, Text value, Context context
        ) throws IOException, InterruptedException {
            StringTokenizer itr = new StringTokenizer(value.toString());
            while (itr.hasMoreTokens()) {
                word.set(itr.nextToken());
                context.write(word, one);
            }
        }
    }

    public static class IntSumReducer
        extends Reducer<Text, IntWritable, Text, IntWritable> {
        private IntWritable result = new IntWritable();

        public void reduce(Text key, Iterable<IntWritable> values,
                           Context context
        ) throws IOException, InterruptedException {
            int sum = 0;
            for (IntWritable val : values) {
                sum += val.get();
            }
            result.set(sum);
            context.write(key, result);
        }
    }
}
```

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

