



## **Java Foundation with Data Structures**

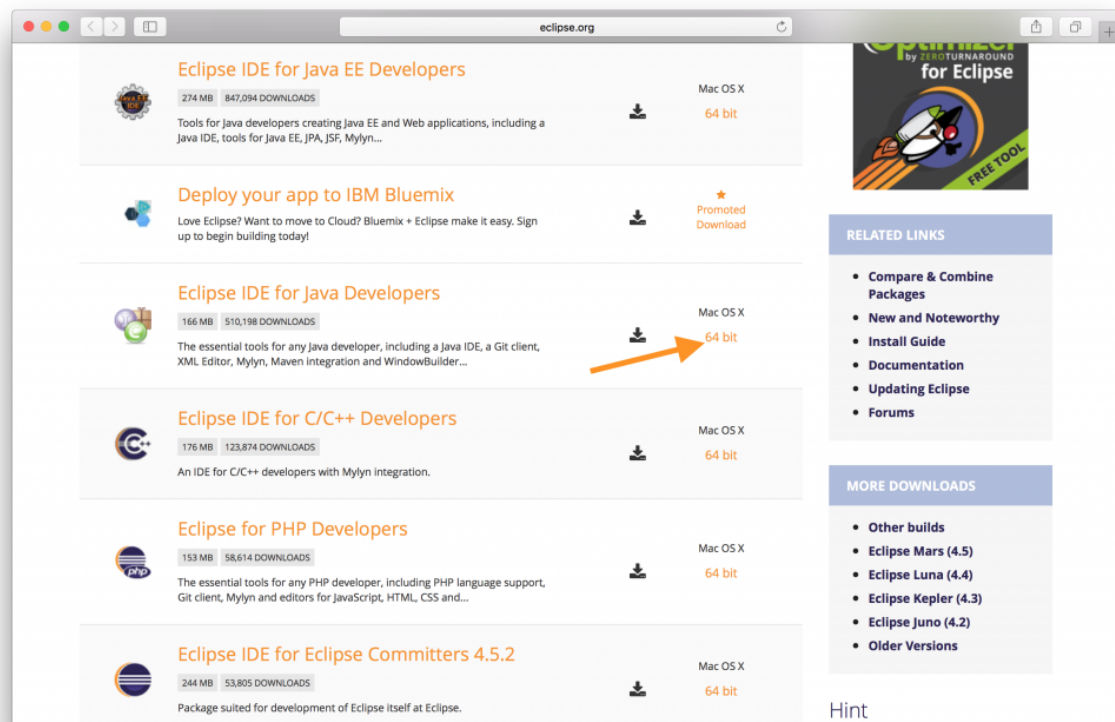
**Topic: Installation Guide for JDK and eclipse (mac and Linux)**

JDK Installation Video: <https://youtu.be/pxi3ily4F5A>

Eclipse Installation Video: <https://youtu.be/vOF35qsWn8M>

## Installing Eclipse and JDK:

1. To download Eclipse IDE, copy the link <http://www.eclipse.org/downloads/> into your browser and hit enter.
2. Out of all the listed options, we need to install “Eclipse IDE for java developers”. Click the 64-bit download link as shown in the image below.



3. Upon clicking the 64-bit option, you would be redirected to a download page where you can choose the server nearest to you so that you can download faster. Simply click the download button at the left panel as shown below. Your download will start automatically.

## Eclipse downloads - Select a mirror

All downloads are provided under the terms and conditions of the [Eclipse Foundation Software User Agreement](#) unless otherwise specified.

Download from: **China - Dalian Neusoft University of Information** (å=šèzä,œè½~äzæ~ä!é™c) (http)

File: eclipse-java-mars-2-macosx-cocoa-x86\_64.tar.gz

Checksums:

[Download](#)

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Rapid downloads of Eclipse packages. Free downloads of Spring Tool Suite for Spring, Spring Boot, Cloud Foundry, and AspectJ.

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#### Genuitec

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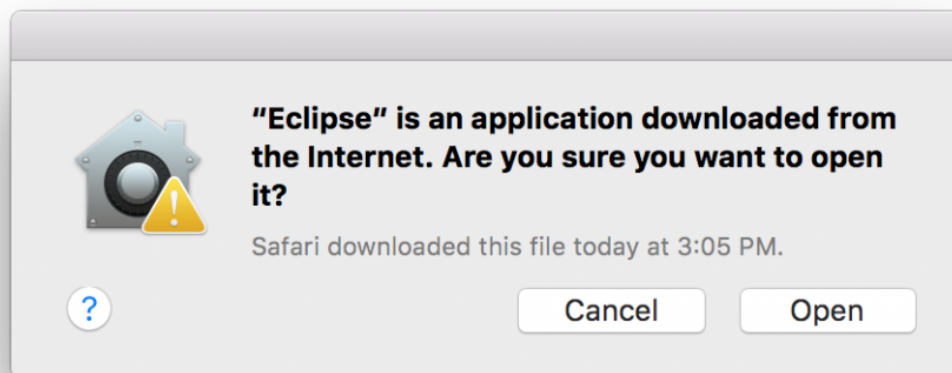
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#### OTHER OPTIONS FOR THIS FILE

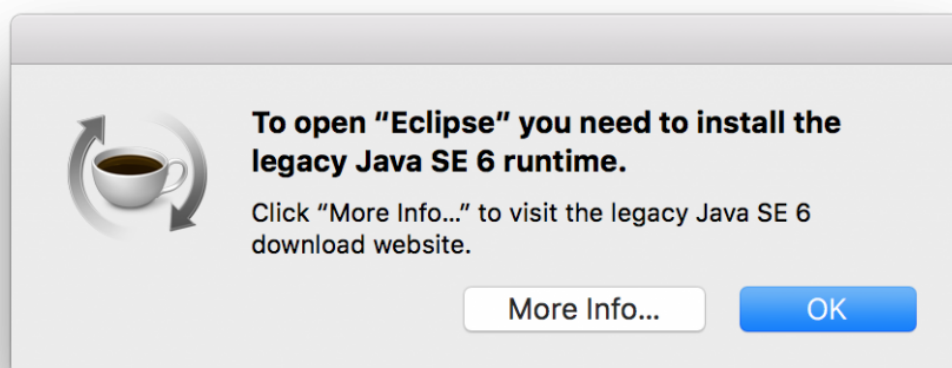
- All mirrors (xml)
- Direct link to file (download starts immediately from best mirror)

#### RELATED LINKS

- Once the download is done. Go to the download folder, you would find a file named "**eclipse-java-mars-2-macosx-cocoa-x86\_64.tar**" (the file name may be different based on the version you download but it should be a tar file starting with word eclipse).
- Drag the zipped file to the desktop and double click to open it. The file would be unzipped with default archive utility and you would find an eclipse icon on the desktop. Open finder, select applications and then drag the eclipse icon from the desktop the application folder in finder.
- Installation is done, you can now launch the eclipse by clicking the icon in applications. Alternatively, you can drag the icon from applications to the dock so that you can launch it directly from the desktop.
- The first time you launch the application, you would get the following warning, just click "open".



8. The next pop up would have a message "To open eclipse you need to install the legacy Java SE 6 runtime". The pop up would look like this. Click ok.



9. Go to the link <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html> the page would look like the below screenshot. Accept License Agreement and download the file mapped to Mac OS X x64. In my case it is "jdk-7u79-macosx-x64.dmg", you may find it different based on the java version you are trying to install.

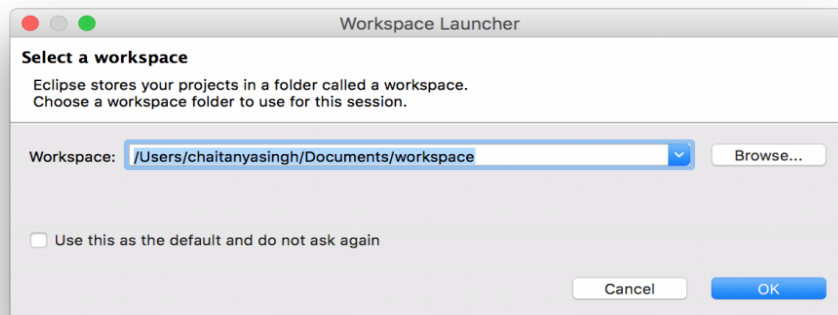
## Java SE Development Kit 7u79

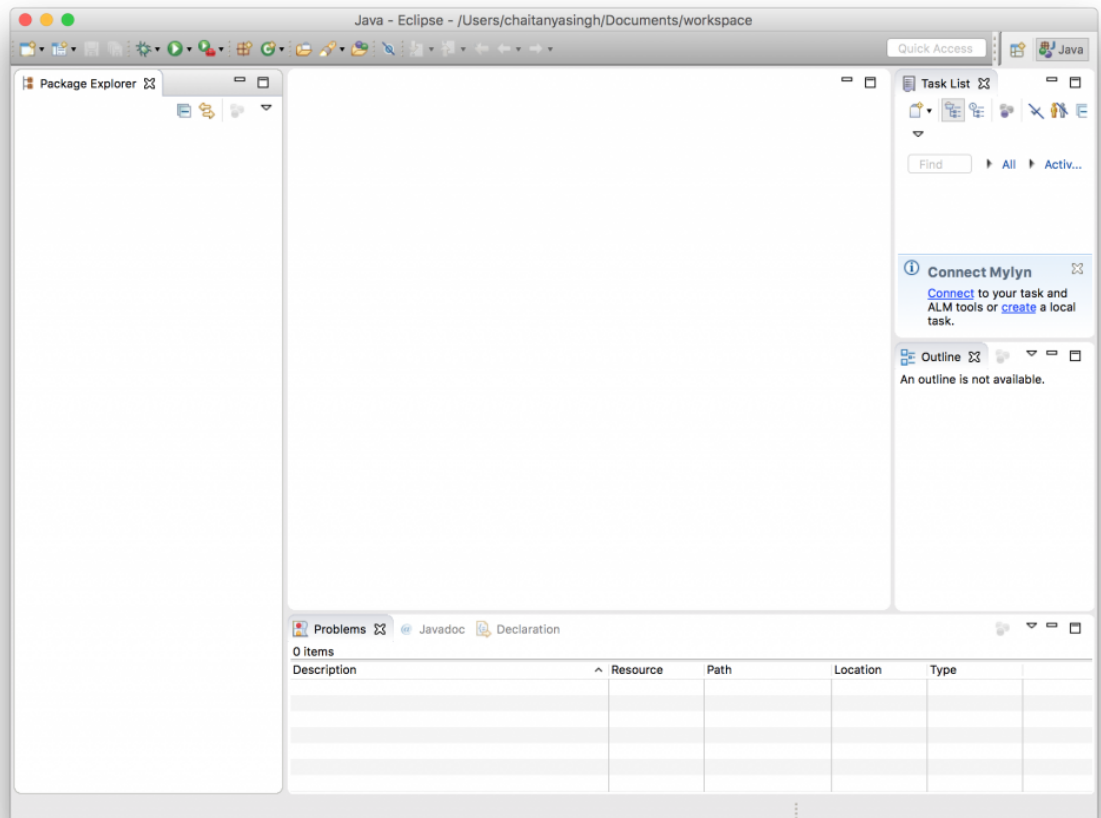
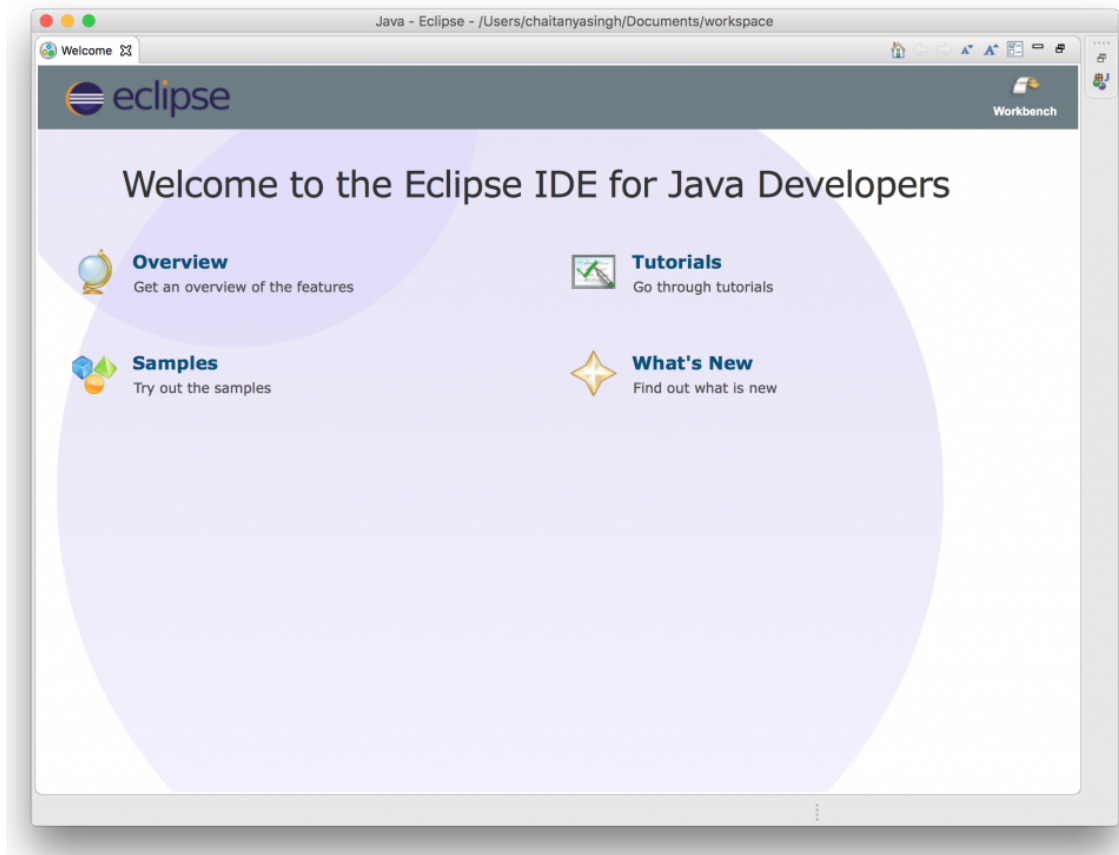
You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

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Product / File Description	File Size	Download
Linux x86	130.4 MB	<a href="#">jdk-7u79-linux-i586.rpm</a>
Linux x86	147.6 MB	<a href="#">jdk-7u79-linux-i586.tar.gz</a>
Linux x64	131.69 MB	<a href="#">jdk-7u79-linux-x64.rpm</a>
Linux x64	146.4 MB	<a href="#">jdk-7u79-linux-x64.tar.gz</a>
Mac OS X x64	196.89 MB	<a href="#">jdk-7u79-macosx-x64.dmg</a>
Solaris x86 (SVR4 package)	140.79 MB	<a href="#">jdk-7u79-solaris-i586.tar.Z</a>
Solaris x86	96.66 MB	<a href="#">jdk-7u79-solaris-i586.tar.gz</a>
Solaris x64 (SVR4 package)	24.67 MB	<a href="#">jdk-7u79-solaris-x64.tar.Z</a>
Solaris x64	16.38 MB	<a href="#">jdk-7u79-solaris-x64.tar.gz</a>
Solaris SPARC (SVR4 package)	140 MB	<a href="#">jdk-7u79-solaris-sparc.tar.Z</a>
Solaris SPARC	99.4 MB	<a href="#">jdk-7u79-solaris-sparc.tar.gz</a>
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Windows x86	138.31 MB	<a href="#">jdk-7u79-windows-i586.exe</a>
Windows x64	140.06 MB	<a href="#">jdk-7u79-windows-x64.exe</a>

10. Once the download is complete, run the file and follow the installation instruction.
11. Once the installation is done, open the Eclipse, it should run fine now. The welcome window would look similar to the one shown below. Click Workbench at the top right corner.





# Installing Eclipse and JDK in Linux:

Installation Video: [https://www.youtube.com/watch?v=Vc3z48\\_Gx3E](https://www.youtube.com/watch?v=Vc3z48_Gx3E)

## Guide:

### 1. Installing JDK

- a. Open Terminal from Application Dash or press Ctrl+Alt+T
- b. Update repository:  

```
sudo add-apt-repository ppa:openjdk-r/ppa # only Ubuntu 17.4 and earlier sudo apt update
```
- c. Optional: To search available distributions of `openjdk`, use the following command:  

```
apt search openjdk
```
- d. Install the appropriate version with the following command:  

```
sudo apt install openjdk-8-jdk sudo apt install openjdk-8-source #this is optional, the jdk source code
```
- e. For `JAVA_HOME` (Environment Variable) type command as shown below, in "Terminal" using your installation path...  

```
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk
```

(Note: `/usr/lib/jvm/java-8-openjdk` is symbolically used here just for demonstration. You should use your path as per your installation.)
- f. For `PATH` (Environment Variable) type command as shown below, in Terminal:  

```
export PATH=$PATH:$JAVA_HOME/bin
```
- g. To check your installation:  

```
java -version
```

### 2. Installing Eclipse:

- Install Java on Ubuntu/Debian

```
$ sudo apt install default-jre
```

For installing Eclipse IDE in your system, first, open a browser and go to [Eclipse's official download](#) page and download the latest version of the tar package specific to your installed Linux distribution architecture.

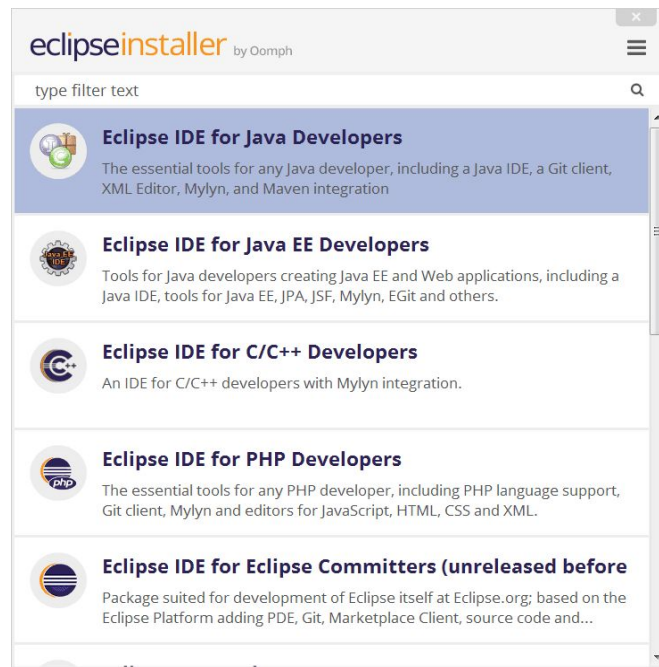
- After the download completes, navigate to the directory where the archive package has been downloaded, usually Downloads directories from your home, and issue the below commands to start installing Eclipse IDE.

```
$ tar -xvf eclipse-inst-linux64.tar.gz
```

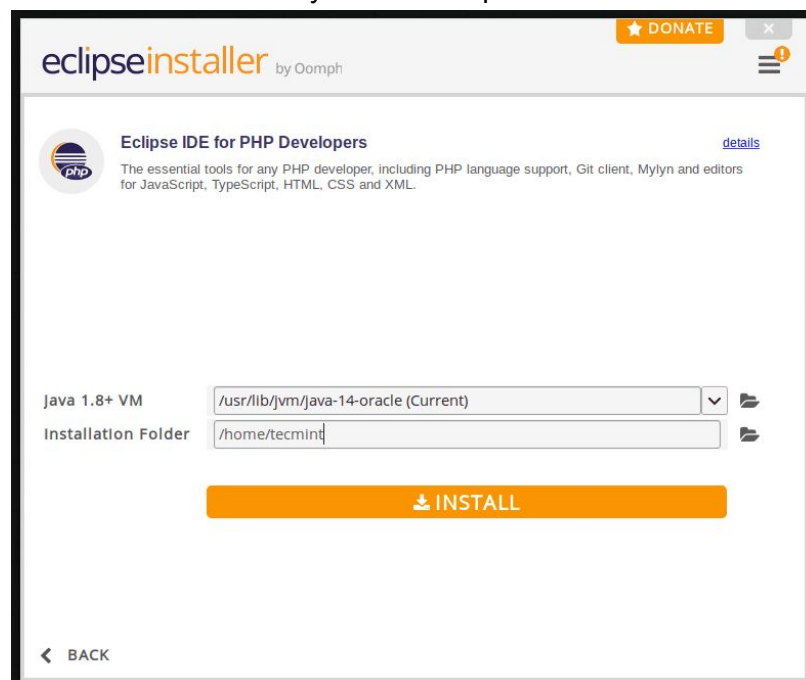
```
$ cd eclipse-installer/
```

```
$ sudo ./eclipse-inst
```

- The new Eclipse Installer lists the IDE's available to Eclipse users. You can choose and click on the IDE package.



- Next, choose the folder where you want Eclipse to be installed.



- Once the installation is finished you can now launch Eclipse.





### Eclipse IDE for PHP Developers

[details](#)

The essential tools for any PHP developer, including PHP language support, Git client, Mylyn and editors for JavaScript, TypeScript, HTML, CSS and XML.

Java 1.8+ VM

/usr/lib/jvm/java-14-oracle (Current) ▼

Installation Folder

/home/tecmin

▶ LAUNCH

show readme

Launch '/home/tecmin/eclipse/eclipse'

open in system explorer

◀ BACK