

# Eclipse Tutorial

## Programming Environment Setup Installing Eclipse and Java JDK

Versions: Java 1.8, Eclipse Mars 4.5

For more tutorials:

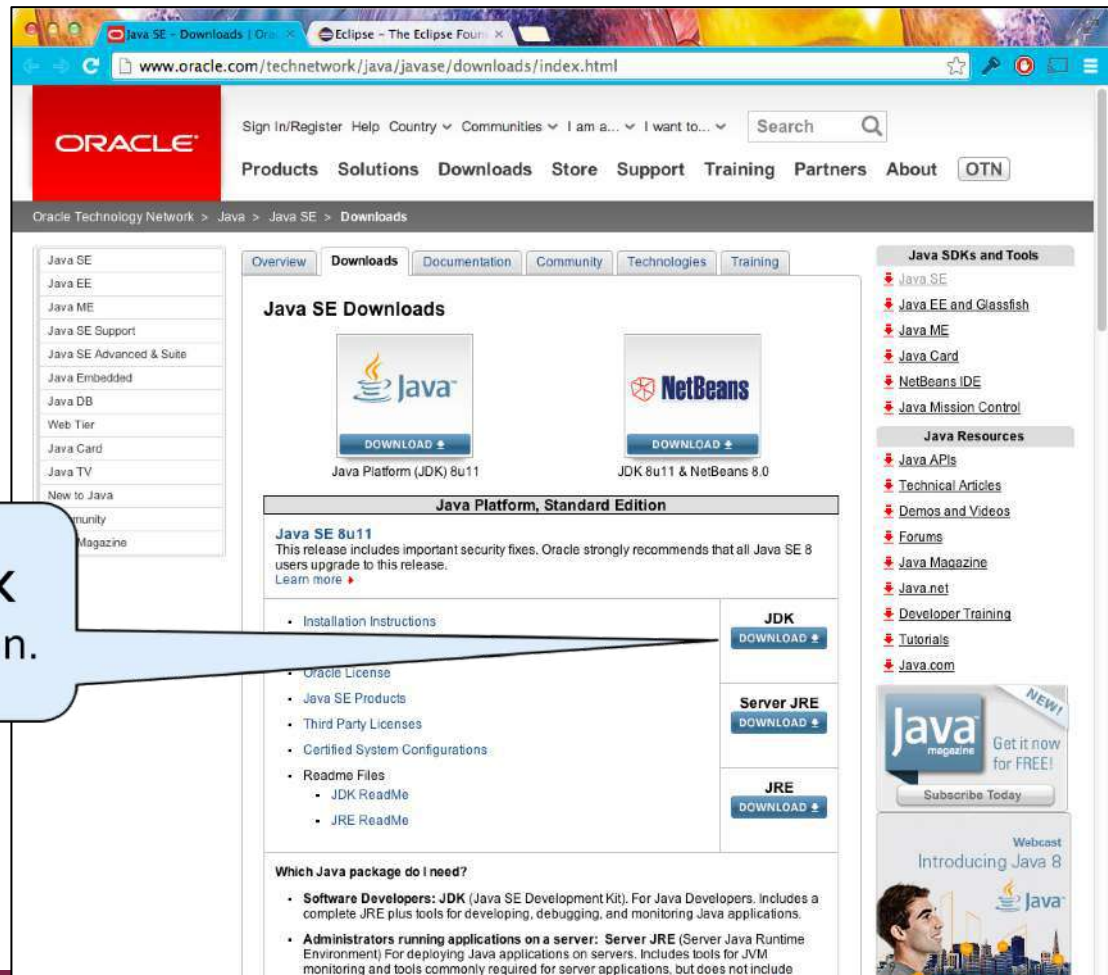
<http://cs.uwlax.edu/~jjhursey/teaching/tutorial/eclipse/>

Professor J. Hursey

# Install the Java Development Kit (JDK)

- Download Website:  
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- Select the  
JDK Download

Click on the **JDK Download** button.



# Install the Java Development Kit (JDK)

If you are running Windows Vista, 7, or 8 you probably want the "Windows x64" version.

If you are running an earlier version then you may want the "Windows x86" version.

Accept the License Agreement

Select the proper download for your system.

The screenshot shows the Oracle Java SE Development Kit 8 Downloads page. The page includes a navigation bar with links like Sign In/Register, Help, Country, Communities, I am a..., I want to..., Search, Products, Solutions, Downloads, Store, Support, Training, Partners, About, and OTN. The main content area is titled "Java SE Development Kit 8 Downloads" and contains a thank you message, a description of the JDK, and a list of links to see also. Below this is a section for "Java SE Development Kit 8u11" with a license agreement section and a table of download links for various operating systems and architectures.

**Java SE Development Kit 8 Downloads**

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

See also:

- Java Developer Newsletter (tick the checkbox under Subscription Center > Oracle Technology News)
- Java Developer Day hands-on workshops (free) and other events
- Java Magazine

JDK MD5 Checksum

**Looking for JDK 8 on ARM?**  
JDK 8 for ARM downloads have moved to the JDK 8 for ARM download page.

**Java SE Development Kit 8u11**

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

☐ Accept License Agreement ☒ Decline License Agreement

Product / File Description	File Size	Download
Linux x86	133.58 MB	<a href="#">jdk-8u11-linux-i586.rpm</a>
Linux x86	152.55 MB	<a href="#">jdk-8u11-linux-i586.tar.gz</a>
Linux x64	133.89 MB	<a href="#">jdk-8u11-linux-x64.rpm</a>
Linux x64	151.65 MB	<a href="#">jdk-8u11-linux-x64.tar.gz</a>
Mac OS X x64	207.82 MB	<a href="#">jdk-8u11-macosx-x64.dmg</a>
Solaris SPARC 64-bit (SVR4 package)	135.66 MB	<a href="#">jdk-8u11-solaris-sparcv9.tar.Z</a>
Solaris SPARC 64-bit	96.14 MB	<a href="#">jdk-8u11-solaris-sparcv9.tar.gz</a>
Solaris x64 (SVR4 package)	135.7 MB	<a href="#">jdk-8u11-solaris-x64.tar.Z</a>
Solaris x64	93.18 MB	<a href="#">jdk-8u11-solaris-x64.tar.gz</a>
Windows x86	151.81 MB	<a href="#">jdk-8u11-windows-i586.exe</a>
Windows x64	155.29 MB	<a href="#">jdk-8u11-windows-x64.exe</a>

**Java SE Development Kit 8u11 Demos and Samples Downloads**

# Install the Java Development Kit (JDK)

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- After downloading the JDK, follow the instructions to install it on your system.



# Install the Eclipse IDE

(IDE = Integrated Development Environment)

- Download Website:

<http://www.eclipse.org/downloads/>

The screenshot shows the Eclipse Downloads website. The browser address bar displays <https://www.eclipse.org/downloads/>. The page has a dark header with 'HOME / DOWNLOADS' and a navigation bar with 'Packages' and 'Developer Builds'. A pink notice box states: 'Mac OS X users please note: Eclipse requires Mac OS X 10.5 (Leopard) or greater. You might get a warning on some installations due to recent changes how Apple treats signatures. Please see [this post](#) for a possible solution.' The main content area is titled 'Package Solutions' and lists two options for Mac OS X (Cocoa):

Package Solution	Size	Downloads	Architecture
Eclipse IDE for Java EE Developers	268 MB	2,252,127	64 bit
Eclipse IDE for Java Developers	162 MB	1,242,972	64 bit

Below these are links for 'Eclipse Mars (4.5) Release for Mac OS X (Cocoa)' and 'Eclipse IDE for C/C++ Developers'. On the right sidebar, there is a 'Promoted Plugin' for 'Webclipse - New!' and a 'Try the New Eclipse Installer' banner. A 'RELATED LINKS' section at the bottom right includes links to 'Compare & Combine Packages', 'New and Noteworthy', 'Install Guide', and 'Documentation'.

Select the Eclipse IDE for Java Developers download



# Install the Eclipse IDE – Mac OS X

The screenshot shows the Eclipse Downloads page in a web browser. The browser's address bar displays <https://www.eclipse.org/downloads/>. The page has a dark header with 'HOME / DOWNLOADS' and a navigation bar with 'Packages' and 'Developer Builds'. A pink note box states: 'Mac OS X users please note: Eclipse requires Mac OS X 10.5 (Leopard) or greater. You might get a warning on some installations due to recent changes how Apple treats signatures. Please see [this post](#) for a possible solution.'

The 'Package Solutions' section lists three options:

- Eclipse IDE for Java EE Developers**: 268 MB, 2,252,127 DOWNLOADS. Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn... The download link is for 'Mac OS X 64 bit'.
- Eclipse IDE for Java Developers**: 162 MB, 1,242,972 DOWNLOADS. The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven integration and WindowBuilder... The download link is for 'Mac OS X 64 bit'.
- Eclipse IDE for C/C++ Developers**: (partially visible)

On the right, a 'Promoted Plugin' section features 'Webclipse - New!' with the description: 'Adding REST Inspect, Hot Reload, JavaScript Debug and more to your Eclipse, for free.'

Two callouts are present:

- A blue speech bubble pointing to the download links says: 'Select the proper download for your system.'
- A red box at the bottom right says: 'If you are running on Mac OS X then you will most likely want the "Mac OS X 64 Bit" version.'

# Install the Eclipse IDE – MS Windows

The screenshot shows the Eclipse Downloads page for Windows 32-bit. The browser address bar shows the URL <https://www.eclipse.org/downloads/?osType=win32>. The page has a navigation bar with links: GETTING STARTED, MEMBERS, PROJECTS, and MORE. Below this is a search bar labeled "Google™ Custom Search". The main content area is titled "Package Solutions" and lists three options:

- Eclipse IDE for Java EE Developers**: 269 MB, 2,252,127 DOWNLOADS. Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...
- Eclipse IDE for Java Developers**: 163 MB, 1,242,972 DOWNLOADS. The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven integration and WindowBuilder...
- Eclipse IDE for C/C++ Developers**: 175 MB, 384,478 DOWNLOADS.

Each option has a "Windows" dropdown menu and a download icon. The "Eclipse IDE for Java EE Developers" option is selected, and the "Windows" dropdown is open, showing "32 bit" and "64 bit" options. The "32 bit" option is highlighted.

Select the proper download for your system.

If you are running Windows Vista, 7, or 8 you probably want the "Windows 64 Bit" version.

If you are running an earlier version then you may want the "Windows 32 Bit" version.

# Install the Eclipse IDE

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- After downloading Eclipse, follow the instructions to install it on your system.





# Other Useful Links

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- Prof. Allen has a webpage with more detailed information:
  - <http://cs.uwlax.edu/~mallen/index.php/cs120resources.html>
- Wondering if you have a 32 Bit or 64 Bit system?
  - **Windows Users:**
    - <http://support.microsoft.com/kb/827218>
  - **Mac OS X Users:**
    - <http://support.apple.com/kb/HT3696>
- Other links
  - <http://www.vogella.com/articles/Eclipse/article.html>