INSTRUCTIONS FOR INSTALLING JAVA ANS JGRASP ON YOUR COMPUTER

Go to: http://www.sun.com

This will take you to an Oracle website. Oracle now owns Sun’s Java. Scroll down and choose:
Product Downloads for Developers:

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- Solaris
- Java
- MySQL

- Networking
- Find Sun Software Partners

DOWNLOAD INFORMATION

- Product downloads for Developers
- Latest licensed Sun product downloads

INFORMATION FOR CUSTOMERS AND PARTNERS

- Oracle and Sun Overview and FAQ (PDF) for customers and partners

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Scroll down and find Java SE

Browse by Category:

Java

- Java EE & GlassFish Server
- Java SE (includes JavaFX) Early Access
- Java ME
- Java Runtime Environment (JRE)

Database

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This will take you to the following website:


Scroll until you see JDK 7 Docs:

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Here are the Java SE downloads in detail:

<table>
<thead>
<tr>
<th>Java Platform, Standard Edition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Java SE 7u4</strong></td>
</tr>
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<td>This release includes the first Oracle JDK release for Mac OS X. JavaFX 2.1 is now bundled with the JDK on Windows and Mac. We also include bug fixes and performance improvements. Learn more ▶</td>
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<td>“What Java Do I Need?” You must have a copy of the JRE (Java Runtime Environment) on your system to run Java applications and applets. To develop Java applications and applets, you need the JDK (Java Development Kit), which includes the JRE.</td>
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- **JDK**
  - JDK 7 Docs
    - Installation Instructions
    - ReadMe
    - ReleaseNotes
    - Oracle License
    - Java SE Products
    - Third Party Licenses
    - Certified System Configurations

- **JRE**
  - JRE 7 Docs
    - Installation Instructions
    - ReadMe
    - ReleaseNotes
    - Oracle License
    - Java SE Products
    - Third Party Licenses
    - Certified System Configurations

Click on Installation Instructions and find the Instructions for Microsoft Windows (or your operating system)

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JDK 7 and JRE 7 Installation Guide

Do you want to run Java programs, or do you want to develop Java programs? If you want to run Java programs, but not develop them, download the Java Runtime Environment, or JRE. The JRE includes the JDK, so you do not have to download both separately.

We support the following platforms:

- Oracle Solaris Operating System
- Microsoft Windows
- Linux
- Mac

supported processors and browsers, see Oracle JDK 7 and JRE 7 Supported Systems Configurations.

Oracle Solaris Operating System

- JDK 7 Installation on the Oracle Solaris OS - both 32-bit and 64-bit
- JRE 7 Installation on the Oracle Solaris OS - both 32-bit and 64-bit

In order to run Java applets within a browser, you must install the JRE plugin manually. Instructions for that process are available here:

- Manual Plugin Installation for Oracle Solaris

Microsoft Windows

- Windows System Requirements for JDK and JRE - lists minimum processor, disk space, and memory requirements for the JDK and JRE for Microsoft Windows
- JDK Installation for Microsoft Windows - describes how to install the JDK on 32-bit and 64-bit Microsoft Windows operating systems
- JRE Installation for Microsoft Windows - describes how to install the JRE on 32-bit and 64-bit Microsoft Windows operating systems
- Online Installation and Java Version FAQ - lists frequently asked questions for Windows online installation of the JRE as well as for Java Update
- JRE Installer Options - describes how to install the JRE silently through command-line options
- Patch-in-Place and Static JRE Installation - describes how to install the JRE in a patch-in-place or static configuration.
- Java SE Runtime Environment Update Scenarios - describes various scenarios to demonstrate the behavior of the JRE update process.
- AutoDownload Files - lists various JRE releases and the .cab files that can be used for autodownloading them.

Find Microsoft Windows Then

Click on JDK Installation for Microsoft Windows

And read the instructions / or Print the Instructions
**INSTRUCTIONS FOR INSTALLING JAVA ANS JGRASP ON YOUR COMPUTER**

**Installation Instructions**

In this procedure, you will run the self-installing executable file to unpack and install the JDK. As part of the JDK, this installation includes an contains a private JRE for use only by its tools; see Private Versus Public JRE for more information.

Install the JDK by doing the following:

- **Downloading the Installer**
- **Running the JDK Installer**
  - Installing the JDK Silently
  - Updating the PATH Variable (Optional)
- **Starting to Use the JDK**

**Downloading the Installer**

If you save the self-installing executable file to disk without running it from the download page at the web site, note that its byte size provided have downloaded the full, uncorrupted software file.

**Running the JDK Installer**

You must have administrative permissions in order to install the JDK on Microsoft Windows.

The file `jdk-7\version\windows-i586-i.exe` is the JDK installer for 32-bit systems. The file `jdk-7\version\windows-x64.exe` is the JDK installer for 64-bit systems. You can download the installer directly from the web site, double-click the installer’s icon. Then, follow the instructions the installer provides. The installer may also delete the downloaded file to recover disk space.

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NEXT, Go back to the page and this time click on DOWNLOAD

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**Here are the Java SE downloads in detail:**

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<td></td>
<td><strong>Oracle License</strong></td>
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<td></td>
<td><strong>.java source</strong></td>
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</tr>
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Then choose the right Installer and run the Installer through the Wizard.
**INSTRUCTIONS FOR INSTALLING JAVA ANS JGRASP ON YOUR COMPUTER**

- Java Magazine

**Java SE Development Kit 7u4**

You must accept the Oracle Binary Code License Agreement for Java SE to download this software.

Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.

<table>
<thead>
<tr>
<th>Product / File Description</th>
<th>File Size</th>
<th>Download</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linux x86 (32-bit)</td>
<td>64.09 MB</td>
<td>jdk-7u4-linux-i586.rpm</td>
</tr>
<tr>
<td>Linux x86 (32-bit)</td>
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<td>jdk-7u4-linux-i386.tar.gz</td>
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<tr>
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<td>jdk-7u4-linux-x64.rpm</td>
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<tr>
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<td>jdk-7u4-linux-x64.tar.gz</td>
</tr>
<tr>
<td>Mac OS X (64-bit)</td>
<td>97.28 MB</td>
<td>jdk-7u4-macosx x64.dmg</td>
</tr>
<tr>
<td>Solaris x86 (32-bit)</td>
<td>137.42 MB</td>
<td>jdk-7u4-solaris-i586.tar.gz</td>
</tr>
<tr>
<td>Solaris x86 (32-bit)</td>
<td>82.01 MB</td>
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<tr>
<td>Solaris SPARC (32-bit)</td>
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<tr>
<td>Solaris x64 (64-bit)</td>
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<td>jdk-7u4-solaris-x64.tar.gz</td>
</tr>
<tr>
<td>Windows x86 (32-bit)</td>
<td>87.97 MB</td>
<td>jdk-7u4-windows-i586.exe</td>
</tr>
<tr>
<td>Windows x64 (64-bit)</td>
<td>92.33 MB</td>
<td>jdk-7u4-windows-x64.exe</td>
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Click on the right installer and then choose Downloading the Installer

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INSTRUCTIONS FOR INSTALLING JAVA ANS JGRASP ON YOUR COMPUTER

You are looking for downloading the Installer and then Running the JDK Installer.

Choose:

Windows x86 (32-bit) 87.97 MB  jdk-7u4-windows-i586.exe

http://www.oracle.com/technetwork/java/javase/downloads/jdk-7u4-downloads-1591156.html

When the Wizard comes up with questions just continue until you have completed the installation.

SECTION 2

SETTING PATH

When totally completed you should set the Path: Follow instructions from the documentation page. First find your Java folder so that you are clear on the Path. It is usually C and then Windows <something> and then Program Files and then Java and then bin

Where you must substitute the correct item for <something>.

The instructions remember are part of


Scroll until you see:
INSTRUCTIONS FOR INSTALLING JAVA ANS JGRASP ON YOUR COMPUTER

Here are the Java SE downloads in detail:

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Click on Installation Instructions and find the Instructions for Microsoft Windows

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• AutoDownload FAQ - Lists various JRE releases and the Java files that can be used for auto-downloading them

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Then scroll down until you see Updating the PATH Environment Variable (Optional)

When you set the path, the variable name is javac

The “C:\Windows .... “ depends on your computer.

Path instructions are copied here for your convenience, but you must use the correct path for your computer.

--------------------------------------------------
Updated the PATH Environment Variable (Optional)

You can run the JDK without setting the PATH environment variable, or you can optionally set it so that you can conveniently run the JDK executable files (javac.exe, java.exe, javadoc.exe, and so forth) from any directory without having to type the full path of the command. If you do not set the PATH variable, you need to specify the full path to the executable file every time you run it, such as:

```
C:\> "C:\Program Files\Java\jdk1.7.0\bin\javac" MyClass.java
```

It is useful to set the PATH variable permanently so it will persist after rebooting.

To set the PATH variable permanently, add the full path of the jdk1.7.0\bin directory to the PATH variable. Typically, this full path looks something like C:\Program Files\Java\jdk1.7.0\bin. Set the PATH variable as follows on Microsoft Windows:

1. Click Start, then Control Panel, then System.
2. Click Advanced, then Environment Variables.
3. Add the location of the bin folder of the JDK installation for the PATH variable in System Variables. The following is a typical value for the PATH variable:

```
C:\WINDOWS\system32;C:\WINDOWS;C:\Program Files\Java\jdk1.7.0\bin
```

Note:

- The PATH environment variable is a series of directories separated by semicolons (;) and is not case-sensitive. Microsoft Windows looks for programs in the PATH directories in order, from left to right.
- You should only have one bin directory for a JDK in the path at a time. Those following the first instance are ignored.
- If you are not sure where to add the path, add it to the right of the value of the PATH variable.
- The new path takes effect in each new command window you open after setting the PATH variable.

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NOTE:

When totally complete, go to the following website to make certain that you have installed correctly:


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INSTRUCTIONS FOR INSTALLING JAVA AND JGRASP ON YOUR COMPUTER

SECTION 3  INSTALL JGRASP

jGRASP is a fundamental development tool that will make developing Java easier.

After you have downloaded Java SE development kit, go to the following website

http://www.jgrasp.org/

On the left, click on Download

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Fill out the requested information.

Under jGRASP 1.8.8_16. Click on jGRASP.exe for Windows button.
INSTRUCTIONS FOR INSTALLING JAVA AND JGRASP ON YOUR COMPUTER

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Let JGRASP install on your home computer.

You are now ready to create programs, compile them, and test them on your home computer.

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If you have any trouble at all, go to Mendel 292 for help with this installation, path setting, and jGrasp installations.