Java-Installation Version 2015-07-20

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Java* Runtime Environment Installation

The Java Runtime Environment (Java JRE) is needed to run a Java application or a browser embedded Java applet on your computer.

Which Java-version is on my computer?

To find out, if Java is installed on the computer, and if yes, which version, you first have to open the control panel:

Windows XP

→ Control Panel → Programs

Windows Vista/7

→ Control Panel → Programs → Programs and Features

or → Control Panel → Uninstall a program
In the control panel (category view) click on **Programs** (Windows XP) or **Uninstall a Program** (Windows Vista/7/8.1)

Find the programs with names starting with “Java”.

If you don’t find the Java icon or a name like “Java 8 Update 45” or “Java 7 Update 51”, then Java is probably not installed. Continue reading at **How to install Java**.

It is recommended to use the newest update of Java 8 or Java 7. If you want to use Java in a web browser you need a 32 bit Java version for a 32 bit web browser and a 64 bit version for a 64 bit web browser. It is possible to have both versions on your computer. Officially Windows XP is no longer supported, but Java 7 and Java 8 work all the same with Windows XP.

Which Java-version is on my computer? - 4
OS X 10.10 (Yosemite)

Open the system preferences and try to find the Java icon:
Open Java by click on the Java icon and click on the **About...** button of the Java Control Panel:
Linux Mint 17 (Qiana) KDE 64-bit

Under Linux you can install IcedTea instead of Java. Open the software manager:
Enter the word “icedtea” into the search box and press **Enter**. In this case the Software Manager finds 2 available plugins, one for 64-Bit browsers (for example Firefox) and one for 32 Bit browsers (for example Chromium). Both are not yet installed (the hook on the left side of the icons is missing).
OpenSuse 12.2 KDE 32-bit, 13.1 KDE 64-bit

Under Linux you can install IcedTea instead of Java. Open the software manager:
Enter the word “icedtea” into the search box and press Enter. In this case the Software Manager finds the plugin “icedtea-web”. It is not yet installed (the hook on the left side of the package name is missing).
How to install Java

Windows XP/Vista/7/8.1

To install Java you have to be an administrator. Download a Java installation file for Windows. You can download it, for example, from http://www.java.com/en/download/
Click on Free Java Download and then on Agree and Start Free Download.
When you use the web browser Chrome you will get a warning that the Jave plugin will not work with this web browser. For the time being you can ignore this warning. For more information see https://java.com/en/download/faq/chrome.xml
Click on Save File. After the download is finished you can close your web browser. In your download folder click on jxpiinstall.exe (in some systems the file extension “.exe” is not shown).
Now the installation starts. After a security warning you have to accept the licence agreement by pressing the Install button.
Then in many cases the installation routine tries to persuade you to set Yahoo as your homepage and default search engine. Yahoo is not needed for the functioning of Java. Therefore you can safely deselect this option.
The rest of the installation runs automatically:

The installation program will ask for your permission to restore the Java security prompts. You may check or uncheck the check box and click **Next**. A few seconds later the installation is finished. You can click **Close**.
Now you can close the window. Your web browser will be started, and you can verify your Java version:

Click on **Verify Java version**.

There may be a security prompt. You may check or uncheck the check box and click **Run**.

If you recently completed your Java software installation, **restart your browser** (close all browser windows and re-open) to enable the newly installed Java version in the browser. Javascript must also be enabled.
If everything is OK with your installation there will be a message similar to the picture on the right. If the checking procedure finds old Java versions in addition to the newest version it will help you to deinstall it/them. In that case you should click the corresponding link.

**Verified Java Version**

- Congratulations!
- You have the recommended Java installed (Version 8 Update 51).

**Windows Users**: Improve the security of your computer by checking for old versions of Java and removing them using the Java Uninstall Tool.
OS X 10.10 (Yosemite)

To install Java you have to be an administrator. Download a Java installation file for OS X. You can download it, for example, from http://www.java.com/en/download/

When you click on Agree and Start Free Download the installation file will be downloaded.

When you use the web browser Chrome you will get a warning that the Java plugin will not work with this web browser. For the time being you can ignore this warning.

For more information see https://java.com/en/download/faq/chrome.xml

Click on the icon of the downloaded file and double-click on the small window that now opens:

Click on Continue.
In the next window click on Install and then enter your password:

Now you can close the window. Your web browser will be started, and you can verify you Java version.
Linux Mint 17 (Qiana) KDE 64-bit

Open the Software Manager and search for “IcedTea” (see the corresponding paragraph in the section “Which Java version is on my computer”). Select the 64 bit (icedtea-7 plugin) or the 32 bit plugin (icedtea-7-plugin:i386) according to your web browser version and double-click on the icon on the left.

In the next window click on Install to start the installation.
How to install Java - 19
OpenSuse 12.2 KDE 32-bit, 13.1 KDE 64-bit

Open the Software Manager and search for “IcedTea” (see the corresponding paragraph in the section “Which Java version is on my computer”). Select the check box of the “icedtea-web” package and on “Accept”.

![Software Manager with “IcedTea” package selected](image)

The IcedTea-Web project provides a free software web browser plugin running applets written in the Java programming language and an implementation of Java Web Start, originally based on the Sun Java project.
Enable Java for the Use in Chrome
Since version 42 of the web browser Chrome, plug-ins like Java are disabled as a default. You can enable it in the following way:

Enter “chrome://flags/#enable-npapi” (without quotation marks) in the address bar of the Chrome web browser. Then click the “Enable” link for the “Enable NPAPI” configuration option. If there is only a “Disable” link, the enabling is already done.

Finally click the “Relaunch” button at the bottom of the configuration page.
Security Settings

Windows XP/Vista/7 and OS X 10.10 (Yosemite)

If you want to use Java in your web browser you have to create an exception for each website you want to allow to use Java (some websites are automatically allowed to run Java).

**Windows**: Click on the button and type “configure java” into the search box. If you don’t have an English version of Windows type “java” and look for a corresponding program name.

Open the program by a mouse click.

**OS-X**: Open the System Preferences and click on the Java icon.

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Then click OK.
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Java 3D (Windows)

Java 3D is an extension of Java. With Java 3D it is possible to run java applications with 3-dimensional graphics. Java3D has to be installed after Java. The following websites tell you, if Java3D is already installed and working:
(http://www.chemgapedia.de has to be on your exception site list, see Security Settings).
If your web browser was open during the installation you have to restart the browser before doing the test. After starting the test you maybe have to respond to one or two safety warnings and refresh the display by clicking or pressing F5.

Determination of the Installed Java Version and Java 3D Test

The following applet will detect if you have a suitable Java Runtime environment and Java 3D installed on your system and determines the version number. Java 3D is required, among other things, for the reaction visualization system CAVOC.

Installed Java-Version: 1.8.0_25
Java 3D is installed.

Hint

If you are using multiple displays, Java will probably only run on the primary display.

Attention: You have to repeat the installation of Java 3D after each update of the Java runtime environment.
First remove it and then install it again.
If you do not plan to use a 64 bit web browser, you should use the 32 bit version of Java 3D.
You can download Java 3D, for example, from: 
https://java3d.java.net/binary-builds.html
After downloading you should open your download folder and double-click the installation file (for example: j3d-1_5_2-windows-i586.exe). You have to accept a license agreement:

You have to click **Install**. Then Java 3D will install automatically:
How to uninstall Java Runtime Environment

Windows XP/Vista/7/8.1
Click Start (Windows 8.1: Move mousepointer to the upper right corner and select Settings)
Select Control Panel
Select Programs
Click Programs and Features (Windows XP: Add/Remove Programs)
Select Java by clicking on its icon, and then click the Uninstall button (Windows XP: Remove).
You may need administrator privileges to remove programs.
If the installation does not work

Java seems to have been installed correctly, but the test page tells you that it is not.

Possible reasons:

1. You forgot to restart the web browser after the Java installation.
   Restart the web browser and check again.

2. The Java applets of your web browser have been deactivated.
   Activate the Java applets.

3. You installed a 32 bit version of Java and use a 64 bit web browser or vice-versa.
   Check the versions of Java and web browser and install the other Java version, too.

Java works correctly but Java 3D does not.

Possible reasons:

1. You forgot to restart the web browser after the Java 3D installation.
   Restart the web browser and check again.

2. You are using a computer system with 2 screens. Java 3D works only on the first screen.

3. You installed a 32 bit version of Java 3D and use a 64 bit web browser or vice-versa.
   Check the versions of Java and web browser and install the other Java version, too.

4. You made a Java update after installing Java 3D.
   Deinstall Java 3D and install it again.