

JDK Installation Guide (Windows)

Step 1: Download the Java JDK

1. **Visit the official Oracle website:** Open your preferred browser and go to the [Oracle JDK download page](#).
 2. **Select the correct JDK version:** Java Development Kit (JDK) versions may vary, so make sure to download the latest stable release. Scroll down to find the Windows download section.
 3. **Choose your Windows installer:** For Windows, there are usually two options, **x64 Installer** (for 64-bit) and **x86 Installer** (for 32-bit, though this is rarely needed today). Select the x64 installer if you have a 64-bit operating system, as most modern systems are 64-bit.
 4. **Accept the license agreement:** After selecting the version, click the “Download” button. You may be prompted to accept Oracle’s license agreement before downloading.
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Step 2: Install the Java JDK

1. **Run the installer:** Once downloaded, go to your “Downloads” folder and double-click on the installer file (e.g., `jdk-XX_windows-x64_bin.exe` where “XX” is the JDK version).
2. **Follow the installation wizard:**
 - Click **Next** to proceed through the wizard.
 - Choose the installation location if you'd like to change it (the default is usually fine for most users).
 - Click **Next** to begin the installation.
3. **Wait for the installation to complete:** The installer will now install the JDK. Once done, you'll see a completion message.
4. **Verify the installation path:** Note the installation directory (e.g., `C:\Program Files\Java\jdk-XX`) since you'll need this later.

Step 3: Set up the JAVA_HOME Environment Variable

1. Access Environment Variables:

- Right-click on **This PC** or **My Computer** on your desktop and choose **Properties**.
- Click on **Advanced system settings** on the left sidebar.
- In the System Properties window, go to the **Advanced** tab and click **Environment Variables**.

2. Create JAVA_HOME:

- Under **System Variables**, click **New**.
- In the **Variable name** field, type **JAVA_HOME**.
- In the **Variable value** field, enter the JDK installation path (e.g., **C:\Program Files\Java\jdk-XX**).
- Click **OK** to save.

3. Update the Path variable:

- In the Environment Variables window, locate the **Path** variable under System Variables and select it, then click **Edit**.
- Click **New** and add **%JAVA_HOME%\bin** to the list. This allows you to run Java commands in the Command Prompt from any location.
- Click **OK** to save and close all open windows.

Step 4: Verify the Installation

1. **Open Command Prompt:** Press **Win + R**, type **cmd**, and hit **Enter** to open the Command Prompt.
2. **Check the Java version:** Type **java -version** and press **Enter**. You should see the installed Java version displayed, which confirms that Java has been installed correctly.
3. **Check the javac version:** Next, type **javac -version** and press **Enter**. This will confirm that the Java compiler is also set up and accessible.

Your Java JDK installation on Windows is now complete! With the JDK installed and JAVA_HOME set up correctly, you're ready to start developing Java applications on your Windows system.