

developer.android.com/sdk/installing/index.html?pkg=studio

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# Installing Android Studio

Android Studio provides everything you need to start developing apps for Android, including the Android Studio IDE and the Android SDK tools.

**Note:** If you have not yet downloaded Android Studio, [download](#) it now.

Before installing Android Studio, make sure you have JDK 6 or higher installed—the JRE alone is not sufficient. When developing for Android 5.0 (API level 21) and higher, you will need to install JDK 7. To check if you have the correct version of the JDK installed, open a terminal and type `javac -version`. If the JDK is not available or the version is lower than version 6, download the [Java SE Development Kit 7](#).

**To set up Android Studio on Linux:** [\[Show instructions for all platforms\]](#)

1. Unpack the `.zip` file you downloaded to an appropriate location for your applications.
2. To launch Android Studio, open a terminal, navigate to the `android-studio/bin/` directory, and execute `studio.sh`.  
You may want to add `android-studio/bin/` to your PATH environmental variable so that you can start Android Studio from any directory.
3. If the SDK is not already installed, follow the setup wizard to install the SDK and any necessary SDK tools.

**Note:** To support 32-bit apps on a 64-bit machine, you will need to install the `ia32-libs`, `lib32ncurses5-dev`, and `lib32stdc++6` packages.

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages](#)

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[Optional: Adding SDK Packages](#)

```
yschoe@brain:~/src$ unzip android-studio-ide-141.2456560-linux.zip
```

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[Optional: Adding SDK Packages](#)

```
yschoe@brain:~/src$ cd android-studio/bin/
creating: android-studio/lib/libpty/macosx/x86_64/
inflating: android-studio/lib/libpty/macosx/x86_64/libpty.dylib
inflating: android-studio/lib/kryo-2.22.jar
inflating: android-studio/lib/automaton.jar
inflating: android-studio/lib/httpclient-4.3.6.jar
creating: android-studio/lib/rt/
inflating: android-studio/lib/rt/jps-plugin-system.jar
extracting: android-studio/lib/rt/required_for_dist.txt
inflating: android-studio/lib/idea.jar
inflating: android-studio/lib/markdownj-core-0.4.2-SNAPSHOT.jar
inflating: android-studio/NOTICE.txt
creating: android-studio/license/
inflating: android-studio/license/asm_license.txt
inflating: android-studio/license/winp_license.txt
inflating: android-studio/license/growl_license
inflating: android-studio/license/sanselan_license.txt
inflating: android-studio/license/jdom_license.txt
inflating: android-studio/license/log4j_license.txt
inflating: android-studio/license/jaxen_license.txt
inflating: android-studio/license/xmlrpc_license.txt
inflating: android-studio/license/XStream_license.txt
inflating: android-studio/license/gson_license.txt
inflating: android-studio/license/svnkit_license.txt
inflating: android-studio/license/junit_license.txt
inflating: android-studio/license/oromatcher_license.txt
inflating: android-studio/license/swingx_license.txt
inflating: android-studio/license/jayatana_license.txt
inflating: android-studio/license/miglayout_swing_license.txt
inflating: android-studio/license/ant_license.txt
inflating: android-studio/license/xerces_license.txt
inflating: android-studio/license/microba_license.txt
inflating: android-studio/license/picoContainer_license.txt
inflating: android-studio/license/jaxb_license.txt
inflating: android-studio/license/sqljet_license.txt
inflating: android-studio/license/jgoodies_forms_license.txt
inflating: android-studio/license/nanoxml_license.txt
inflating: android-studio/license/kryo_license.txt
inflating: android-studio/license/yourkit_license-redist.txt
inflating: android-studio/license/javahelp_license.html
inflating: android-studio/license/javolution_license.txt
yschoe@brain:~/src$ cd android-studio/bin/
```

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You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages](#)

```
yschoe@brain:~/src/android-studio/bin$ ./studio.sh
inflating: android-studio/lib/libpty/macosx/x86_64/libpty.dylib
inflating: android-studio/lib/kryo-2.22.jar
inflating: android-studio/lib/automaton.jar
inflating: android-studio/lib/httpclient-4.3.6.jar
creating: android-studio/lib/rt/
inflating: android-studio/lib/rt/jps-plugin-system.jar
extracting: android-studio/lib/rt/required_for_dist.txt
inflating: android-studio/lib/idea.jar
inflating: android-studio/lib/markdownj-core-0.4.2-SNAPSHOT.jar
inflating: android-studio/NOTICE.txt
creating: android-studio/license/
inflating: android-studio/license/asm_license.txt
inflating: android-studio/license/winp_license.txt
inflating: android-studio/license/growl_license
inflating: android-studio/license/sanselan_license.txt
inflating: android-studio/license/jdom_license.txt
inflating: android-studio/license/log4j_license.txt
inflating: android-studio/license/jaxen_license.txt
inflating: android-studio/license/xmlrpc_license.txt
inflating: android-studio/license/XStream_license.txt
inflating: android-studio/license/gson_license.txt
inflating: android-studio/license/svnkit_license.txt
inflating: android-studio/license/junit_license.txt
inflating: android-studio/license/oromatcher_license.txt
inflating: android-studio/license/swingx_license.txt
inflating: android-studio/license/jayatana_license.txt
inflating: android-studio/license/miglayout_license.txt
inflating: android-studio/license/ant_license.txt
inflating: android-studio/license/xerces_license.txt
inflating: android-studio/license/microba_license.txt
inflating: android-studio/license/picoContainer_license.txt
inflating: android-studio/license/jaxb_license.txt
inflating: android-studio/license/sqljet_license.txt
inflating: android-studio/license/jgoodies_forms_license.txt
inflating: android-studio/license/nanoxml_license.txt
inflating: android-studio/license/kryo_license.txt
inflating: android-studio/license/yourkit_license-redist.txt
inflating: android-studio/license/javahelp_license.html
inflating: android-studio/license/javolution_license.txt
yschoe@brain:~/src$ cd android-studio/bin/
yschoe@brain:~/src/android-studio/bin$ ./studio.sh
```



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# Installing Android Studio

Android Studio provides everything you need to set up and use the Android SDK tools.

**Note:** If you have not yet downloaded Android Studio, please download it first.

**JDK Required**

'tools.jar' seems to be not in Studio classpath. Please ensure JAVA\_HOME points to JDK rather than JRE.

```

yschoe@brain:~/src/android-studio/bin$ ./studio.sh
creating: android-studio/lib/rt/
inflating: android-studio/lib/rt/jps-plugin-system.jar
extracting: android-studio/lib/rt/required_for_dist.txt
inflating: android-studio/lib/idea.jar
inflating: android-studio/lib/markdown-core-0.4.2-SNAPSHOT.jar
inflating: android-studio/NOTICE.txt
creating: android-studio/license/
inflating: android-studio/license/asm_license.txt
inflating: android-studio/license/winp_license.txt
inflating: android-studio/license/growl_license.txt
inflating: android-studio/license/sanselan_license.txt
inflating: android-studio/license/jdom_license.txt
inflating: android-studio/license/log4j_license.txt
inflating: android-studio/license/jaxen_license.txt
inflating: android-studio/license/xmlrpc_license.txt
inflating: android-studio/license/eclipse_license.txt
inflating: android-studio/license/XStream_license.txt
inflating: android-studio/license/gson_license.txt
inflating: android-studio/license/svnkit_license.txt
inflating: android-studio/license/oronatcher_license.txt
inflating: android-studio/license/swingx_license.txt
inflating: android-studio/license/jayatana_license.txt
inflating: android-studio/license/miglayout_swing_license.txt
inflating: android-studio/license/ant_license.txt
inflating: android-studio/license/xerces_license.txt
inflating: android-studio/license/microba_license.txt
inflating: android-studio/license/picoContainer_license.txt
inflating: android-studio/license/jaxb_license.txt
inflating: android-studio/license/sqljet_license.txt
inflating: android-studio/license/jgoodies_forms_license.txt
inflating: android-studio/license/nanoxml_license.txt
inflating: android-studio/license/kryo_license.txt
inflating: android-studio/license/yourkit_license-redist.txt
inflating: android-studio/license/javahelp_license.html
inflating: android-studio/license/javolution_license.txt
yschoe@brain:~/src$ cd android-studio/bin/
yschoe@brain:~/src/android-studio/bin$ ./studio.sh

JDK Required: 'tools.jar' seems to be not in Studio classpath.
Please ensure JAVA_HOME points to JDK rather than JRE.

```

You can now start developing apps in Android Studio.

Optional: Adding SDK Packages >

Terminal

```

yschoe@brain:~/src/android-studio/bin$ sudo apt-get install default-jdk
[sudo] password for yschoe:
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package jdk
yschoe@brain:~/src/android-studio/bin$ sudo apt-get install openjdk-7-jre
[sudo] password for yschoe:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
python-pycurl
Suggested packages:
libcurl4-gnutls-dev python-pycurl-dbg
The following NEW packages will be installed:
python-pycurl python-software-properties
0 upgraded, 2 newly installed, 0 to remove and 8 not upgraded.
Need to get 67.5 kB of archives.
After this operation, 358 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu/ trusty/main python-pycurl amd64 7.19.3-0ubuntu3 [47.9 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/universe python-software-properties all 0.92.37.7 [19.6 kB]
Fetched 67.5 kB in 0s (156 kB/s)
Selecting previously unselected package python-pycurl.
(Reading database ... 80%

```

This will install the Java Runtime Environment (JRE). If you instead need the Java Development Kit (JDK), which is usually needed to compile Java applications (for example, with `javac`), and IntelliJ IDEA execute the following command:

```
sudo apt-get install default-jdk
```

That is everything that is needed to install Java.

All other steps are optional and must only be executed when needed.

### Installing OpenJDK 7 (optional)

To install OpenJDK 7, execute the following command:

```
sudo apt-get install openjdk-7-jre
```

This will install the Java Runtime Environment (JRE). If you instead need the Java Development Kit (JDK), which is usually needed to compile Java applications (for example, with `javac`), and IntelliJ IDEA execute the following command:

```
sudo apt-get install openjdk-7-jdk
```

### Installing Oracle JDK (optional)

The Oracle JDK is the official JDK; however, it is no longer available for Ubuntu.

You can still install it using apt-get. To install any version, first add the repository:

```

sudo apt-get install python-software-properties
sudo add-apt-repository ppa:webupd8team/java
sudo apt-get update

```

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email@example.com

Complete Installation

Selection	Path	Priority	Status
* 0	/usr/lib/jvm/java-7-oracle/jre/bin/java	1062	auto mode
1	/usr/lib/jvm/java-6-openjdk-amd64/jre/bin/java	1061	manual
mode			
2	/usr/lib/jvm/java-7-oracle/jre/bin/java	1060	manual
mode			

Press enter to keep the current choice[\*], or type selection number: 1

```

yschoe@brain:~/src/android-studio/bin$ sudo update-alternatives --config java
There are 2 choices for the alternative java (providing /usr/bin/java).

Selection    Path                                          Priority  Status
-----
* 0          /usr/lib/jvm/java-7-oracle/jre/bin/java    1071     auto m
mode
1           /usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java 1071     manual
mode

```

You can now choose the number to use as default. This can be done by typing the selection number, or by typing `sudo update-alternatives --config javac`.

It is the same for `javac`.

**Complete Installation**

You can import your settings from a previous version of Studio.

command:  I want to import my settings from a custom location

Specify config folder or installation home of the previous version of Studio:

I do not have a previous version of Studio or I do not want to import my settings

Selection	Path	Priority	Status
0	/usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java	1071	auto mode
* 1	/usr/lib/jvm/java-7-openjdk-amd64/jre/bin/java	1071	manual
mode			
2	/usr/lib/jvm/java-7-oracle/jre/bin/java	1060	manual
mode			

Press enter to keep the current choice[\*], or type selection number: 2

```

yschoe@brain:~/src/android-studio/bin$ sudo update-alternatives --config java
There are 2 choices for the alternative java (providing /usr/bin/java) in manual mode
yschoe@brain:~/src/android-studio/bin$
yschoe@brain:~/src/android-studio/bin$ ./studio.sh

```

It returns something like:

Selection	Path	Priority	Status
* 0	/usr/lib/jvm/java-7-oracle/jre/bin/java	1062	auto mode
1	/usr/lib/jvm/java-6-openjdk-amd64/jre/bin/java	1061	manual
mode			
2	/usr/lib/jvm/java-7-oracle/jre/bin/java	1060	manual
mode			

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Android Studio Setup Wizard

Welcome Android Studio

**System Health**  
IBus prior to 1.5.11 may cause input problem. See [IDEA-78860](#) for details.  
[Do not show again.](#)

Welcome back! This setup wizard will validate your current Android SDK and development environment setup. You will have the option to download a new Android SDK or use an existing installation. Once the setup wizard completes, you can import an existing Android app into Android Studio or start a new Android project.

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

Optional: Adding SDK Packages >



Android Studio Setup Wizard

System Health  
IBus prior to 1.5.11 may cause input problem. See [IDEA-78860](#) for details.  
[Do not show again.](#)

### Install Type

Choose the type of setup you want for Android Studio:

- Standard**  
Android Studio will be installed with the most common settings and options.  
Recommended for most users.
- Custom**  
You can customize installation settings and components installed.

[Previous](#) [Next](#) [Cancel](#) [Finish](#)

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

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[Do not show again.](#)

### Verify Settings

If you want to review or change any of your installation settings, click Previous.

**Current Settings:**

**Standard**

**Destination Folder:**  
/home/yschoe/src/adt-bundle-linux-x86\_64-20140702/sdk

**Total Download Size:**  
597 MB

**Sdk Components to Download:**

Android SDK Build-tools, revision 23.0.2	37.3 MB
Android SDK Platform-tools, revision 23.1.0	2.73 MB
Android SDK Tools, revision 24.4.1	312 MB
Google Repository, revision 24	67.5 MB
Local Maven repository for Support Libraries, revision 26	178 MB

[Previous](#) [Next](#) [Cancel](#) [Finish](#)

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[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

System Health  
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[Do not show again.](#)

### Emulator Settings

We have detected that your system can run the Android emulator in an accelerated performance mode.

Linux-based systems support virtual machine acceleration through the KVM (Kernel-mode Virtual Machine) software package.

Search for install instructions for your particular Linux configuration ([Android KVM Linux Installation](#)), and that KVM is enabled for faster Android emulator performance.

[Previous](#) [Next](#) [Cancel](#) [Finish](#)

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[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

System Health  
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[Do not show again.](#)

### Downloading Components

Downloading Android SDK Build-tools, revision 23.0.2

[Show Details](#)

[Previous](#) [Next](#) [Cancel](#) [Finish](#)

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

System Health  
 IBus prior to 1.5.11 may cause input problem. See [IDEA-78860](#) for details.  
 Do not show again.

Downloading Components

```

Installing Archives:
Preparing to install archives
Installing Android SDK Build-tools, revision 23.0.2
Installed Android SDK Build-tools, revision 23.0.2
Installing Local Maven repository for Support Libraries, revision 26
Installed Local Maven repository for Support Libraries, revision 26
Installing Google Repository, revision 24
Installed Google Repository, revision 24
Installing Android SDK Platform-tools, revision 23.1.0
Stopping ADB server succeeded.
Installed Android SDK Platform-tools, revision 23.1.0
Installing Android SDK Tools, revision 24.4.1
Installed Android SDK Tools, revision 24.4.1
Stopping ADB server succeeded.
Starting ADB server succeeded.
Done. 5 packages installed.
Android SDK is up to date.
  
```

Previous Next Cancel **Finish**

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

System Health  
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 Do not show again.

Welcome

Recent Projects

No Project Open Yet

Quick Start

- Start a new Android Studio project
- Open an existing Android Studio project
- VCS Check out project from Version Control
- Import project (Eclipse ADT, Gradle, etc.)
- Import an Android code sample
- Configure
- Docs and How-Tos

Android Studio 1.5.1 Build #141.2456560. Check for updates now.

Note: To support 32-bit apps on a 64-bit machine, you will need to install the ia32-libs, lib32ncurses5-dev, and lib32stdc++6 packages.

Previous Next Cancel **Finish**

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

Create New Project

New Project  
 Android Studio

Configure your new project

Application name:

Company Domain:

Package name:  [Edit](#)

Project location:

The application name for most apps begins with an uppercase letter

Previous **Next** Cancel Finish

You can now start developing apps in Android Studio! Later on, you may want to add packages or update them.

[Optional: Adding SDK Packages >](#)

Android Studio Setup Wizard

Create New Project

Target Android Devices

Select the form factors your app will run on

Different platforms may require separate SDKs

Phone and Tablet  
 Minimum SDK: 
 Lower API levels target more devices, but have fewer features available.  
 By targeting API 15 and later, your app will run on approximately 97.3% of the devices that are active on the Google Play Store.  
[Help me choose](#)

Wear  
 Minimum SDK:

TV  
 Minimum SDK:

Android Auto

Glass  
 Minimum SDK:

Previous **Next** Cancel Finish

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