

Prerequisites for Android Development



Redirection Notice

This page will redirect to <https://www.jetbrains.com/idea/help/prerequisites-for-android-development.html>.

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Before you install IntelliJ IDEA 12 and proceed to writing your first hello-world Android application, there are a few things to check.

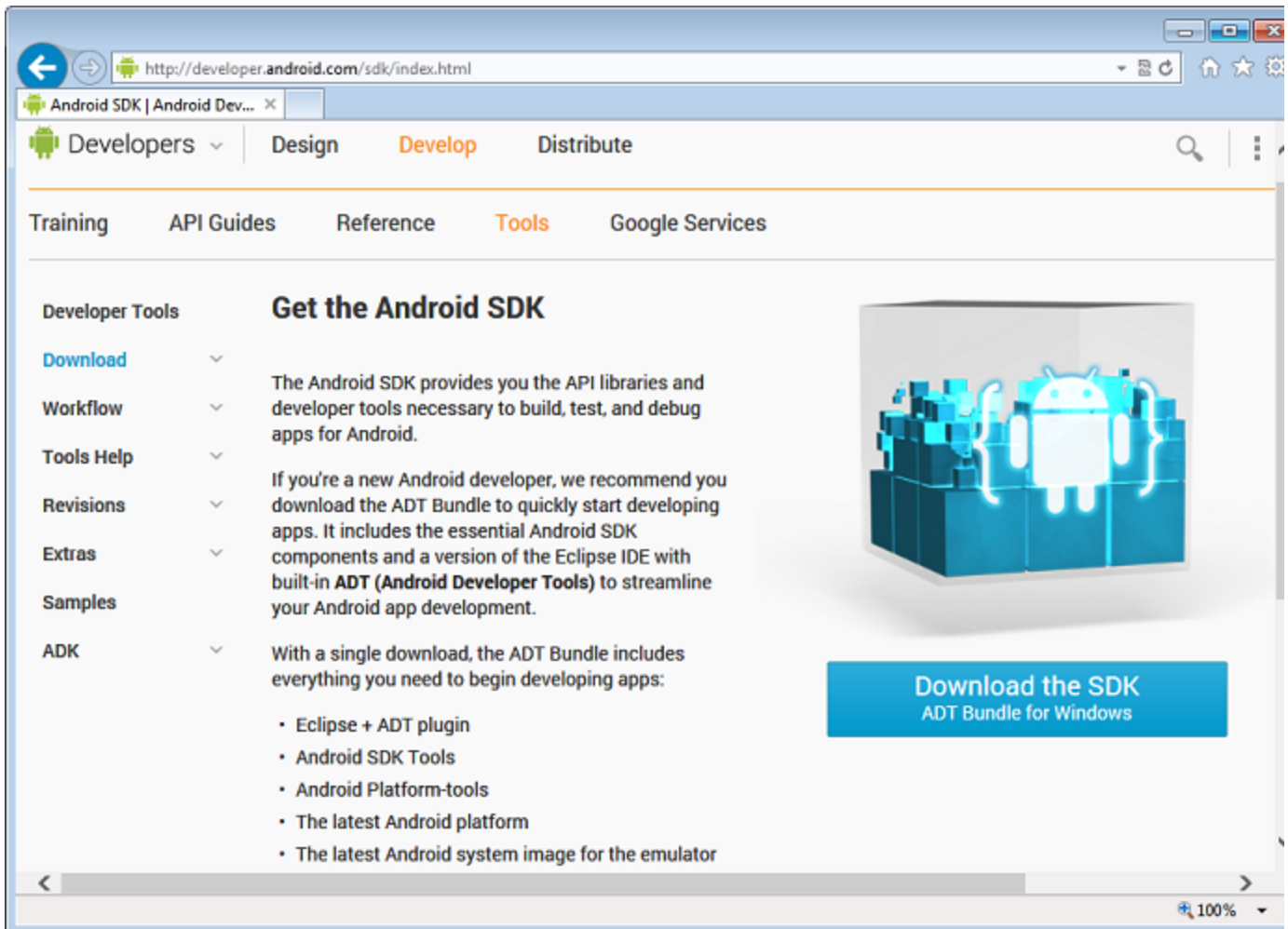
1. Download and install the Java SDK

You can get the latest Java SDK from the [Oracle's web site](#).

2. Download and install the Android SDK

You get the Android Development Tools (ADT) bundle from the [Google's web site](#).

Note that the official download page for Android presents various options for download.

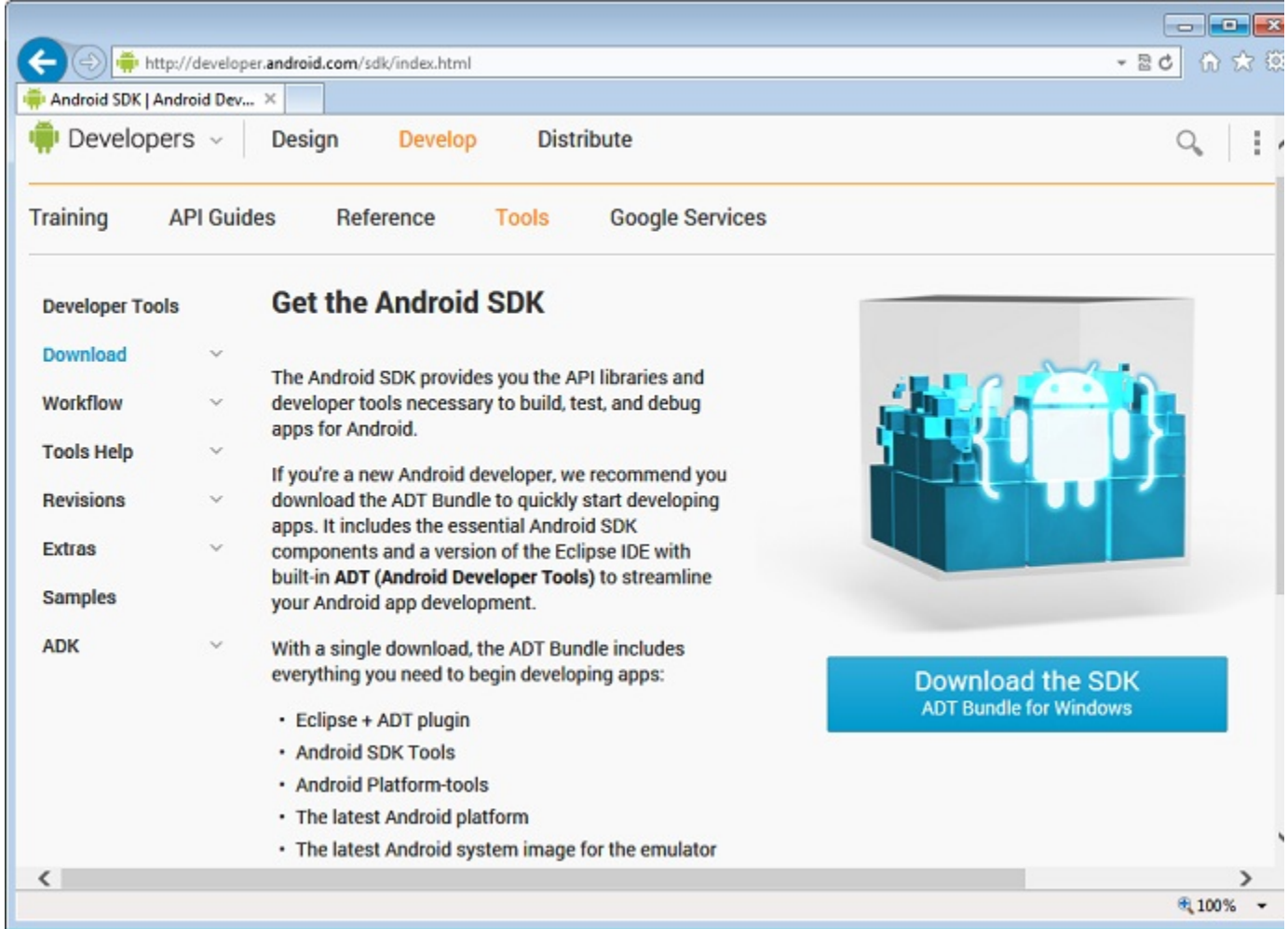


The screenshot shows a web browser window displaying the Android SDK download page. The address bar shows the URL <http://developer.android.com/sdk/index.html>. The page has a navigation menu with 'Developers', 'Design', 'Develop', and 'Distribute'. Below the menu, there are links for 'Training', 'API Guides', 'Reference', 'Tools', and 'Google Services'. The main content area is titled 'Get the Android SDK' and includes a description of the SDK, a list of components included in the ADT Bundle, and a prominent blue button labeled 'Download the SDK' with the subtitle 'ADT Bundle for Windows'. The list of components includes: Eclipse + ADT plugin, Android SDK Tools, Android Platform-tools, The latest Android platform, and The latest Android system image for the emulator.

The default ADT bundle for Windows, as well as for other platforms, includes Eclipse and the Android plugin. If you plan to use IntelliJ IDEA as your Android IDE, then you might want to opt for a smaller download and just pick up the Android SDK and platform tools.

Downloading the Android SDK alone

By simply scrolling down the web page in the figure above, you can find specific instructions for getting the Android SDK to use with an existing IDE for a variety of software platforms, as in the figure below.



The screenshot shows a web browser window displaying the Android Developer website. The address bar shows the URL <http://developer.android.com/sdk/index.html>. The page has a navigation menu with 'Developers', 'Design', 'Develop', and 'Distribute'. Below this is another menu with 'Training', 'API Guides', 'Reference', 'Tools', and 'Google Services'. The main content area is titled 'Get the Android SDK' and includes a 'Download' button. To the right of the text is a 3D graphic of the Android robot on a stack of blue blocks. Below the graphic is a blue button that says 'Download the SDK' and 'ADT Bundle for Windows'.

Developer Tools

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- ADK

Get the Android SDK

The Android SDK provides you the API libraries and developer tools necessary to build, test, and debug apps for Android.

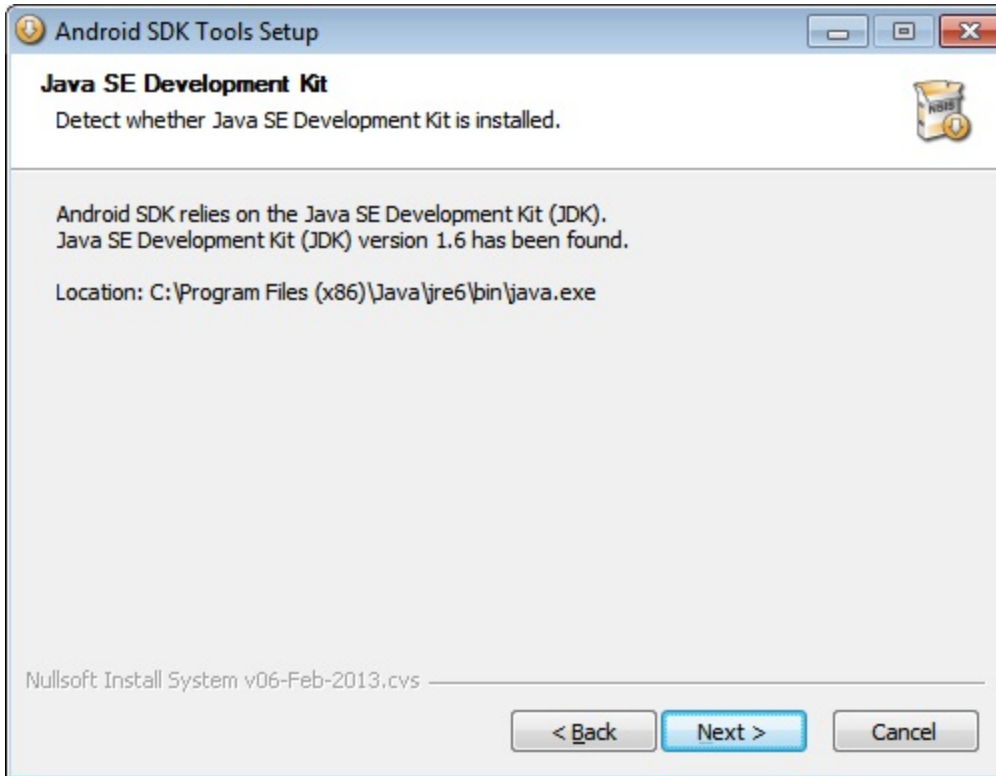
If you're a new Android developer, we recommend you download the ADT Bundle to quickly start developing apps. It includes the essential Android SDK components and a version of the Eclipse IDE with built-in **ADT (Android Developer Tools)** to streamline your Android app development.

With a single download, the ADT Bundle includes everything you need to begin developing apps:

- Eclipse + ADT plugin
- Android SDK Tools
- Android Platform-tools
- The latest Android platform
- The latest Android system image for the emulator

Download the SDK
ADT Bundle for Windows

Once you have successfully downloaded the Android SDK for the platform of choice, you unzip it in a folder or just run the installer, if any. For the Windows platform, you find a convenient installer. As first thing the installer checks if the Java SDK is installed.



Next, you indicate the destination folder of the Android SDK files and proceeds with installation. Take a note of the installation path as IntelliJ IDEA needs to know about it to successfully compile your applications.

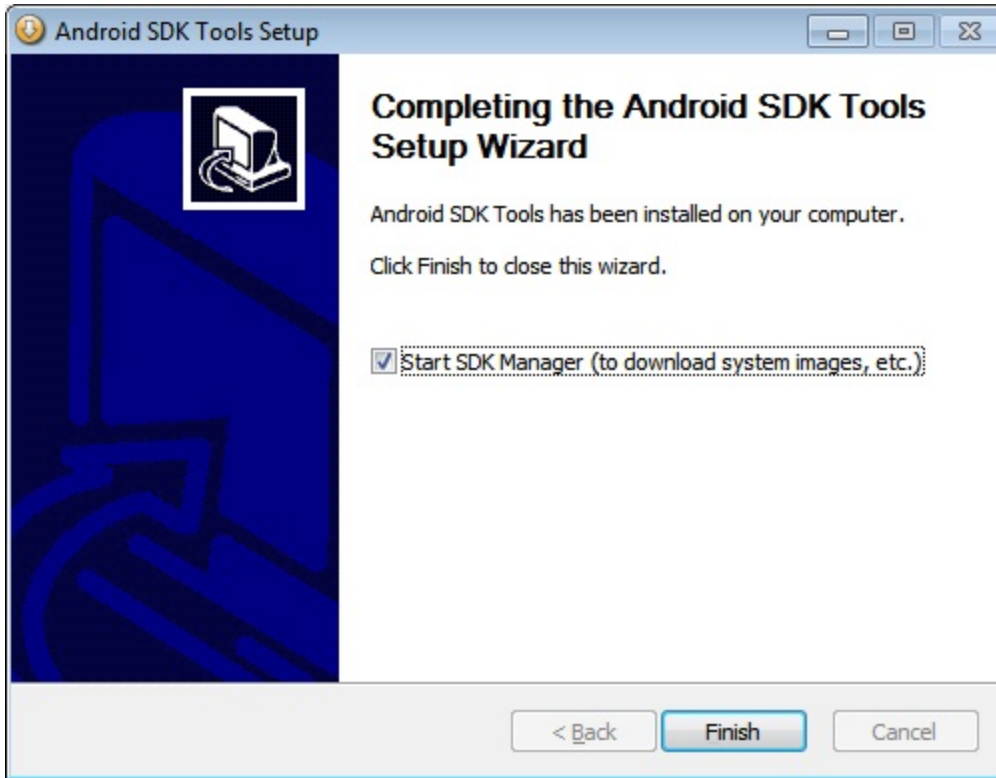
3. Configure Android platforms

Right after the successful completion of the setup wizard, the Android SDK is still not complete. It does contain all basic SDK tools, but it doesn't contain any platform specific tooling. In brief, it is not fully configured to let you build applications within IntelliJ IDEA or any other IDE.

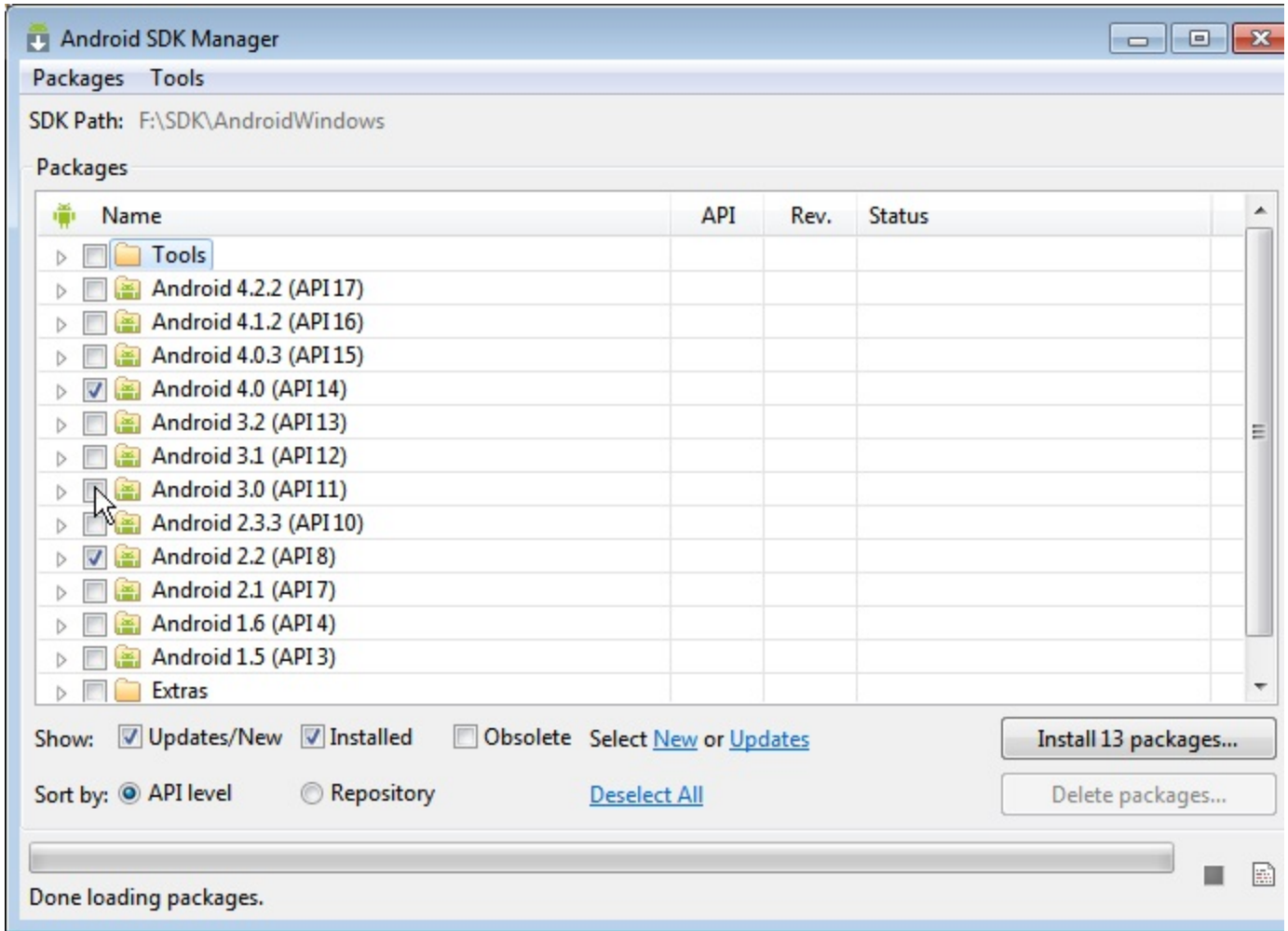
Using the SDK Manager

As there are quite a few different Android platforms out there (e.g., Android 2.2, Android 3.0, Android 4.0 and so forth). You need to install binaries and tools for each of the platforms you intend to build applications for.

The final step of the Android setup wizard, however, just offers to launch the tool that walks you through the selection of the Android platforms of choice.



Through the SDK Manager you select the Android platforms of choice and the tool downloads all necessary files and samples. The figure below shows the SDK Manager tool in action. You select the platforms you are interested in and click Install packages to install related packages.



You can launch SDK Manager at any time. However, you need to launch the SDK Manager at least once before you can successfully compile a single Android application.

You can add new platforms at any time by simply launching the SDK Manager from the installation folder. You use the SDK Manager tool also to uninstall one or more Android packages.

4. Download and install IntelliJ IDEA

Download and install either [IntelliJ IDEA Ultimate](#) or [IntelliJ IDEA Community Edition](#). If you're only interested in Android development you can just download [IntelliJ IDEA Community Edition](#).

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