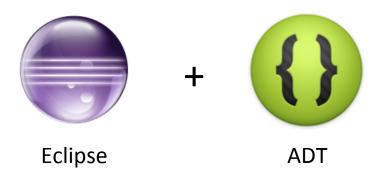


IDE & Android SDK

IDE





Android Studio

Android SDK

Packages Tools				
SDK Path: D:\Neois\Installer\AndroidSDK\android-sdk-windows				
Packages				
ı∰ı Name	API	Rev.	Status	
△ □ in Tools				
Android SDK Tools		23.0.5	₹ Installed	
Android SDK Platform-tools		21	₹ Installed	
Android SDK Build-tools		21.1.1	☐ Not installed	
☐ 🗲 Android SDK Build-tools		21.1	Not installed	
Android SDK Build-tools		21.0.2	₹ Installed	
Android SDK Build-tools		21.0.1	戻 Installed	
		21	☐ Not installed	
☐ 🗲 Android SDK Build-tools		20	戻 Installed	
☐ 🥓 Android SDK Build-tools		19.1	☐ Not installed	
☐ 🗲 Android SDK Build-tools		19.0.3	Not installed	
☐ <table-cell-columns> Android SDK Build-tools</table-cell-columns>		19.0.2	☐ Not installed	
☐		19.0.1	Not installed	
☐ 🥓 Android SDK Build-tools		19	☐ Not installed	
☐ 🚣 Android SDK Build-tools		18.1.1	Not installed	
☐ <table-cell-columns> Android SDK Build-tools</table-cell-columns>		18.1	☐ Not installed	
☐ 🥓 Android SDK Build-tools		18.0.1	☐ Not installed	
Android SDK Build-tools		17	Installed	
■ □ □ Android 5.0 (API 21)				
☐ in Documentation for Android SDK	21	1	🔯 Installed	
☐ 🖷 SDK Platform	21	1	Installed	
Android TV ARM EABI v7a System Image	21	1	🕏 Installed	
Android TV Intel x86 Atom System Image	21	1	Installed	
☐ 📠 ARM EABI v7a System Image	21	1	Installed	
Islanda Intel x86 Atom_64 System Image	21	1	Installed	
Intel x86 Atom System Image	21	1	Registration Installed	
🗌 🛱। Google APIs	21	1	🔯 Installed	
☐ ■ Google APIs ARM EABI v7a System Image	21	2	Installed	

IDE & Android SDK

IDE

Write Code

Syntax Check

Code Refactoring

UI Preview

Version Control

Android SDK

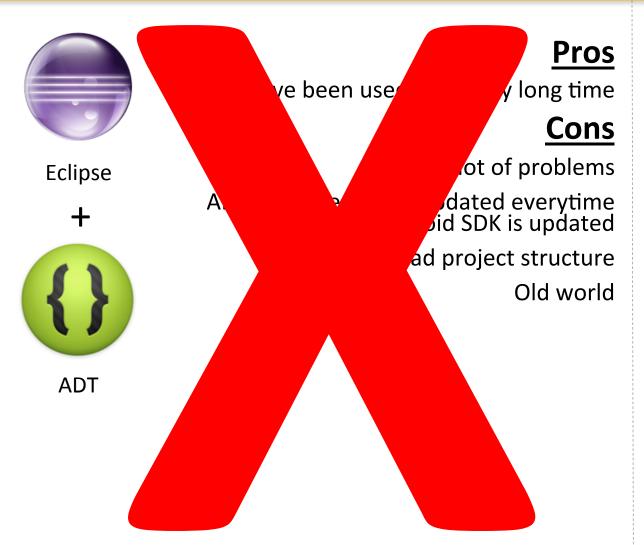
Compile

Deploy

Signing

Emulator

Why Android Studio but not Eclipse?



Pros

Well-designed project structure focusing on Android Project

Dependencies: Smart way to use library

Excellent UI previewing for fighting with Fragmentation



Faster

Multiple-APK generation

Advanced code completion and refactoring

Google updates Android Studio first then ADT

New world

Cons

RAM consuming

Installation

- Install JDK 1.8 (Why 1.8?)
- Setup JAVA HOME
 - Windows Only
 - Start menu > Computer > System Properties > Advanced System Properties. Then open Advanced tab > Environment Variables and add a new system variable JAVA HOME that points to your JDK folder, for example C:\Program Files\Java \jdk1.7.0_21.
- Install Android Studio
- Download Packages via SDK Manager
 - Have some coffee ... instant noodle ... watch some movie ... take a nap ... may be for a whole night
 - * If you have a copy of Android SDK, you can just copy it to your machine

SDK Package

Tools

■ Tools	
Android SDK Tools	24.3.3 R Installed
☐	22 🔯 Installed
Android SDK Build-tools	22.0.1 R Installed
Android SDK Build-tools	22 🔯 Installed
Android SDK Build-tools	21.1.2 R Installed
☐	20 Not installed
☐	19.1 Not installed

SDK Package: Tools

Android SDK Tools

- Debugging Tools
- Emulator
- Basic Utilities

Android SDK Platform-tools

- Device Connector
- Android SDK Build-tools
 - Cross Compiler
 - APK Packer

Install them all and always update to the latest

SDK Package: Android X

Android 5.1.1 (API 22)				
☐ ☐ Documentation for Android SDK	22	1	戻 Installed	
☐ I i SDK Platform	22	2	🔯 Installed	Core
Samples for SDK	22	6	🔯 Installed	
Android TV ARM EABI v7a System Image	22	1	Not installed	
Android TV Intel x86 Atom System Image	22	1	Not installed	
Android Wear ARM EABI v7a System Image	22	2	Not installed	
Android Wear Intel x86 Atom System Image	22	2	Not installed	
☐ ■ ARM EABI v7a System Image	22	1	Not installed	
Intel x86 Atom_64 System Image	22	1	Not installed	
Intel x86 Atom System Image	22	1	Not installed	
🗌 ।क्ष्मा Google APIs	22	1	Not installed	
☐ Google APIs ARM EABI v7a System Image	22	1	Not installed	
☐ Google APIs Intel x86 Atom_64 System Image	22	1	Not installed	
☐ Google APIs Intel x86 Atom System Image	22	1	Not installed	
Sources for Android SDK	22	1	🔯 Installed	

SDK Package: Back to Android X

Q: What is API Level?

△ □ 🔁 Android 5.1. (API 22)			
☐ 🛅 Documentation for Android SDK	22	1	Installed
☐ i∰i SDK Platform	22	2	Installed
Samples for SDK	22	6	Installed
Android TV ARM EABI v7a System Image	22	1	─ Not installed
Android TV Intel x86 Atom System Image	22	1	─ Not installed
Android Wear ARM EABI v7a System Image	22	2	─ Not installed
Android Wear Intel x86 Atom System Image	22	2	─ Not installed
□ ■ ARM EABI v7a System Image	22	1	─ Not installed
Intel x86 Atom_64 System Image	22	1	─ Not installed
Intel x86 Atom System Image	22	1	─ Not installed
🔲 ।क्नाँ Google APIs	22	1	─ Not installed
☐ Google APIs ARM EABI v7a System Image	22	1	Not installed
☐ I Google APIs Intel x86 Atom_64 System Image	22	1	─ Not installed
☐ Google APIs Intel x86 Atom System Image	22	1	Not installed
Sources for Android SDK	22	1	戻 Installed

API Level

New API Level

=

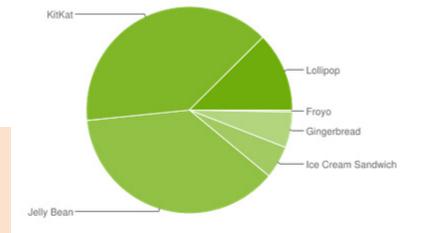
New APIs added & Some Old APIs deprecated

+

Some New UIs added & Some New Uis deprecated

Fragmentation: Software

Version	Codename	API	Distribution
2.2	Froyo	8	0.3%
2.3.3 - 2.3.7	Gingerbread	10	5.6%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	5.1%
4.1.x	Jelly Bean	16	14.7%
4.2.x		17	17.5%
4.3		18	5.2%
4.4	KitKat	19	39.2%
5.0	Lollipop	21	11.6%
5.1		22	0.8%



Data collected during a 7-day period ending on June 1, 2015. Any versions with less than 0.1% distribution are not shown.

SDK Package: Extras

Extras		
☐	15	Installed
☐	22.2	Installed
Google AdMob Ads SDK	11	Installed
 Google Cloud Messaging for Android Library 	3	Installed
Google USB Driver	11	Installed
Google Play services for Fit Preview	1	Installed
Google Play services	25	Installed
Google Repository	19	Installed
Google Play Billing Library	5	Installed
Google Play Licensing Library	2	Installed
Google Play APK Expansion Library	3	Installed
Android Auto API Simulators	1	Installed
☐ 🔂 Google Web Driver	2	Installed
 Intel x86 Emulator Accelerator (HAXM installer) 	5.3	Installed
☐	1	Installed
☐ 🔃 Ndk Bundle	1	Installed
Usb Driver	3	戻 Installed

Must

Windows Only

SDK Package: Extras

Extras		
☐ 🔂 Android Support Repository	15	🔯 Installed
☐ ☐ Android Support Library	22.2	Installed
Google AdMob Ads SDK	11	Installed
Google Cloud Messaging for Android Library	3	Installed
Google USB Driver	11	Installed
Google Play services for Fit Preview	1	Installed
Google Play services	25	Installed
Google Repository	19	Installed
Google Play Billing Library	5	Installed
Google Play Licensing Library	2	Installed
Google Play APK Expansion Library	3	Installed
Android Auto API Simulators	1	
Google Web Driver	2	
☐ Intel x86 Emulator Accelerator (HAXM installer)	5.3	Installed
	1	Installed
☐ 🔃 Ndk Bundle	1	Installed
Usb Driver	3	Installed

Install them all and always odate to the latest

Packages: Support Library

- Android Support Repository
- Android Support Library

An API extension allows you to use new-age APIs in older platform

- ActionBar
- Fragment
- Theming

Provides some advanced and popular APIs

- DrawerLayout
- ViewPager
- etc.

Packages: Google Play services

- Google Repository
- Google Play Services

Access Google's services APIs

- Google Maps
- In-App Purchase
- User Authentication
- Google+
- etc.