Android fundamentals

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Android 1.0

- 23 September 2008.
- Notification bar
- Gmail integration
- Android market

Android 1.1

- February 9, 2009
- it patched a ton of bugs
- The ability to roll out updates over the air

Android 1.5 *Cupcake*

- April, 30 2009
- An on-screen keyboard.
- Extensible widgets
- Clipboard
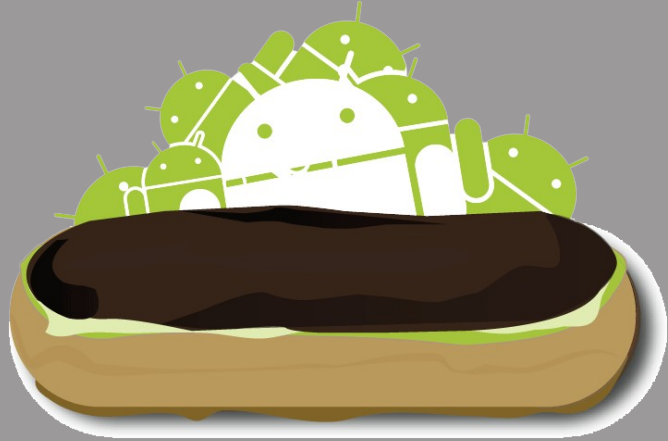- Video capture and playback

Android 1.6 *Donut*

- September, 15, 2009
- CDMA support
- Support for WVGA resolutions
  - 800 x 480
  - 848 x 480
  - 852 x 480
- Quick search box
- New Market
  - It started using green-white color scheme
  - New tabs:
    - Top free apps
    - Top paid apps

2.0/2.1 Android *Eclair*

- October 26, 2009
- Multiple account support.
- Google Maps Navigation.
- Quick Contact.
- Revamped browser.
- Live wallpapers.
- Speech-to-text.

2.2 Android *Froyo*

- May, 20, 2010
- Just-In-Time (JIT) optimization
- Wi-Fi hotspot functionality
- Flash support
- V8 Javascript integration in browser app
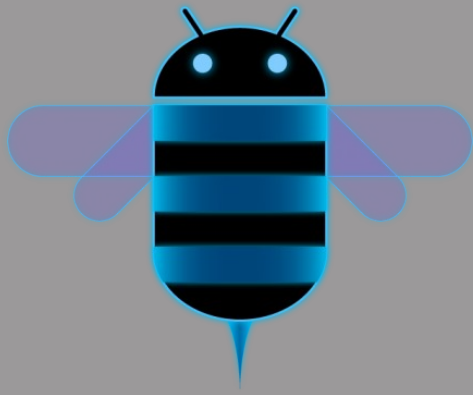- Install application to sd card

2.3 Android *Gingerbread*

- December 6, 2010
- Improved copy and paste function
- Better battery and app management tools
- Support for front-facing cameras.
- NFC support

3.x Android *Honeycomb*

Motorola XOOM

New direction
on
new foundations

4.x Android
Ice cream sandwitch

- Continuation of Honeycomb
- November 14 2011
- Android Beam
- Face unlock
- Data usage analysis
- New calendar and mail apps

Install a new android development environment

First step,
Install Java JDK

Ubuntu: sudo apt-get install sun-java6-jdk
Windows: Download JDK from here, and run .exe

Both: Setup the **PATH** and **JAVA_HOME** environment variables

Second step,
Install IDE

Which IDE:
- NetBeans
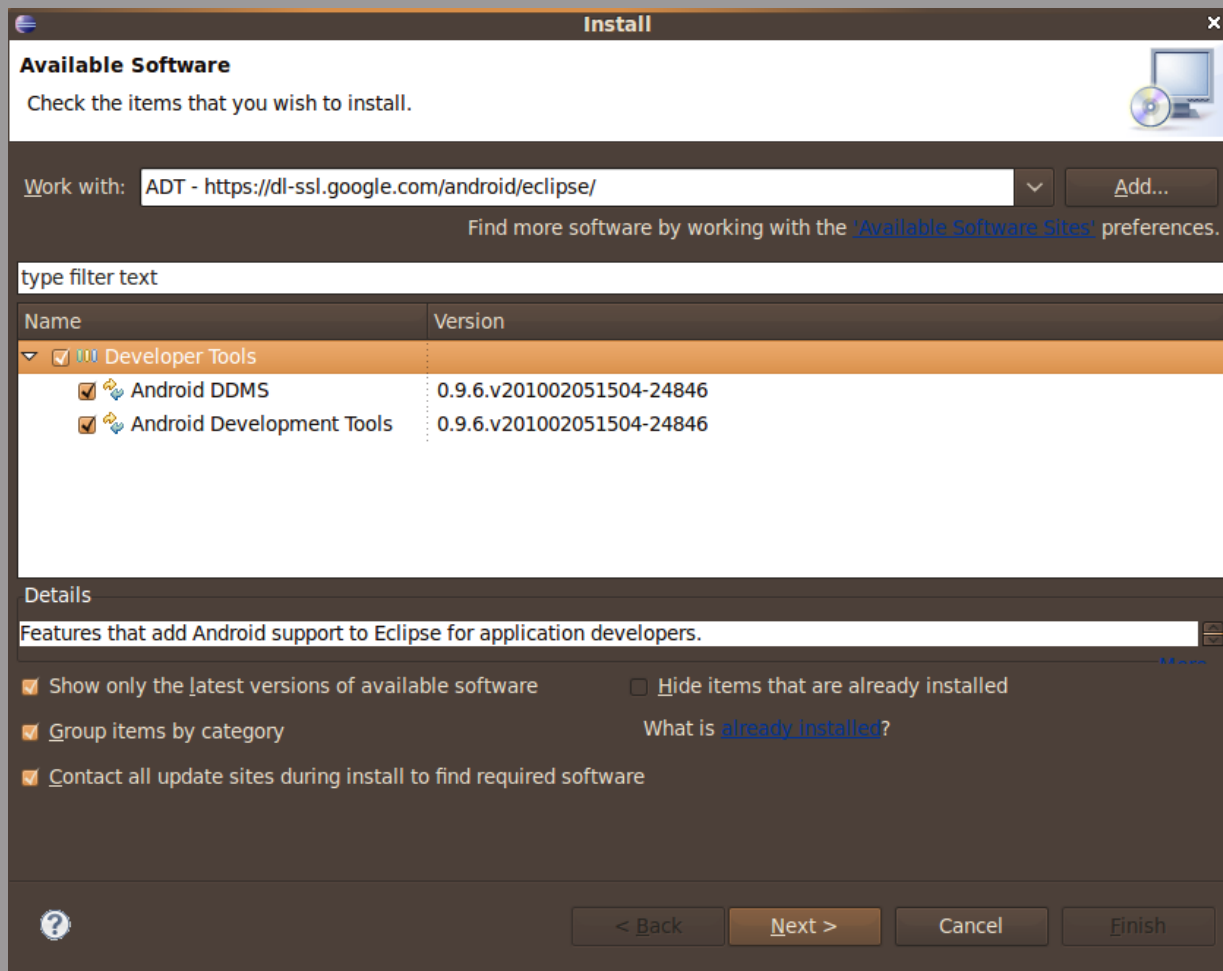- Eclipse ← *Now I use this*
- IntelliJ

Third step, Install ADT
(Android Development Tools)

- Launch eclipse
- Select: Help->Install new software
- Click „Add" button
- Add new source:
  - Name: ADT (optional)
  - Location: https://dl-ssl.google.com/android/eclipse/

Install ADT 2.

- Restart Eclipse

Fourth step,
Install Android SDK
(Android Software Development Kit)

- Download from here
- Extract .zip or .tar file to
  - In Ubuntu for example: /usr/local/
    - sudo nano ~/.bashrc
    - export PATH=${PATH}:<path to your $SDK_ROOT/tools>
  - In Windows for example: c:\program files
    - Go to the Control Panel, and select the System (Windows Vista/7)
    - Select the Advanced settings
    - Click on Advanced system settings on the left.

Install Android SDK 2.

Ubuntu:
- Open terminal and type: *android*

Windows:
- Launch SDK Manager.exe in SDK's folder
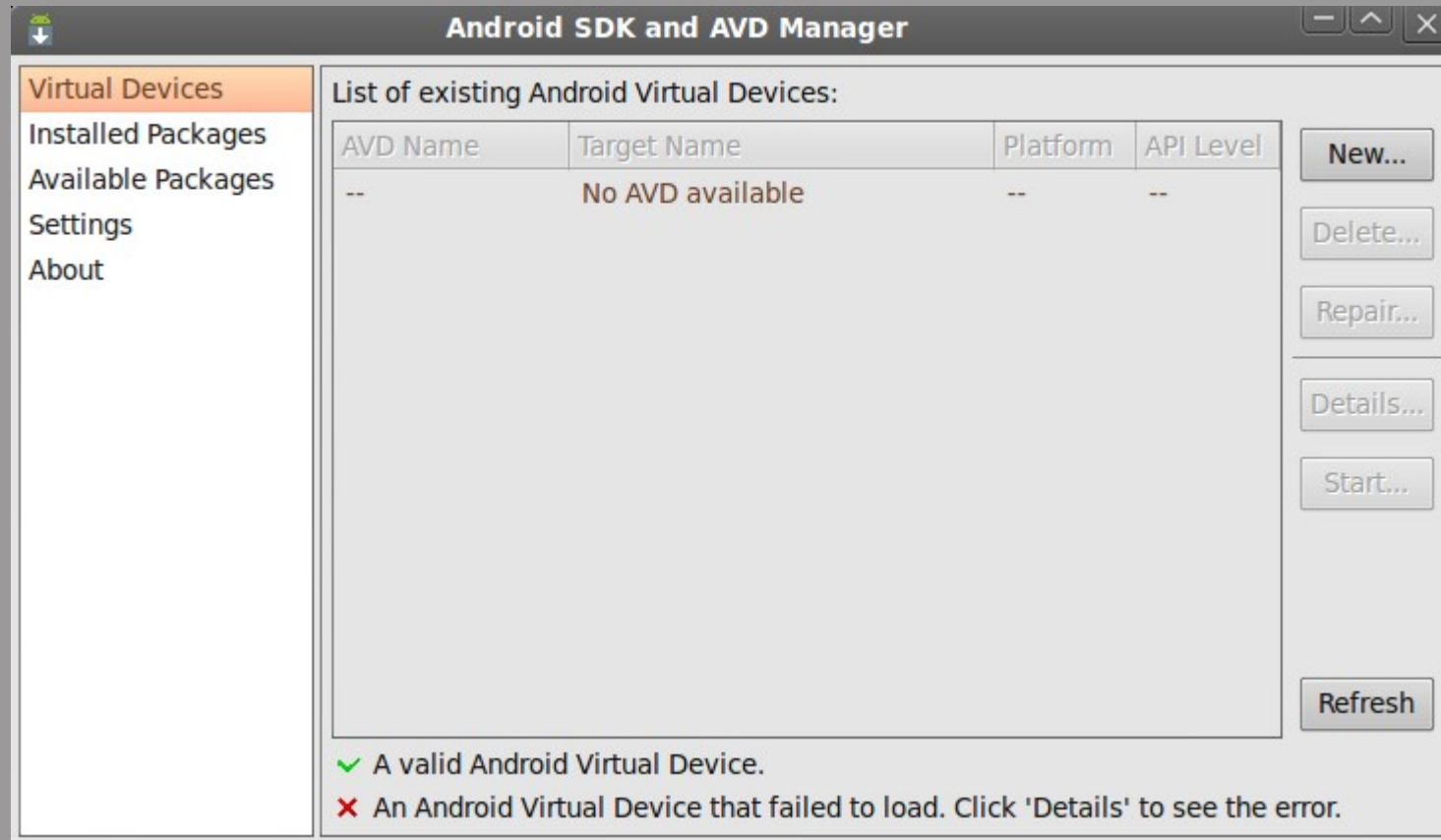
Install Android SDK 3.

- Select „Settings" menu on the left side and check the first checkbox „Force https://... sources to be fetched using http://..."
- Then select „Available Packages" in the left menu
- Check package which you want to install
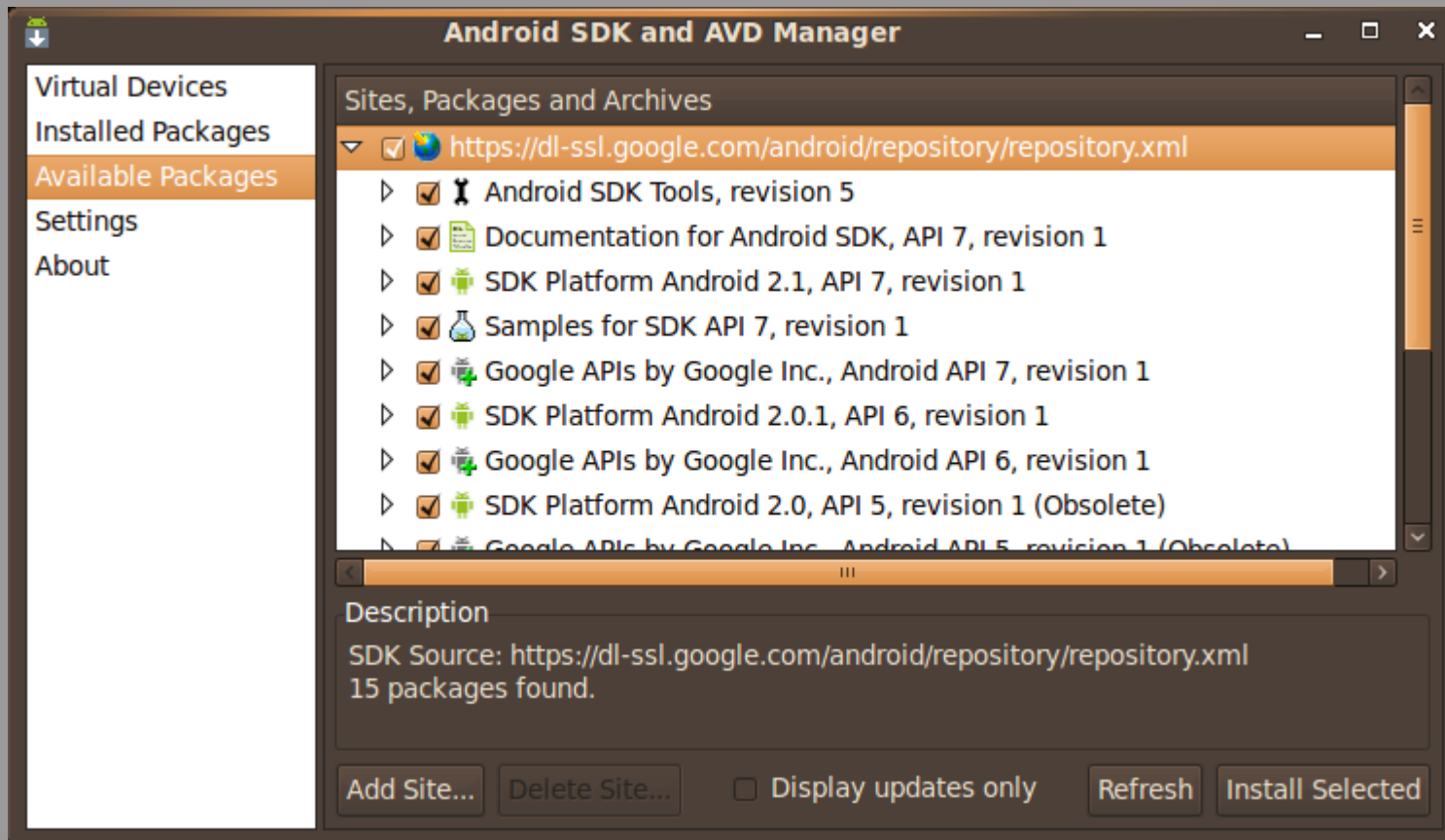
Install Android SDK 4.

How to create an Android Virtual Device in Eclipse?

- Firstly, setup SDK location in *Preferences->Android*
- Launch AVD Manager: *Window->AVD Manager*

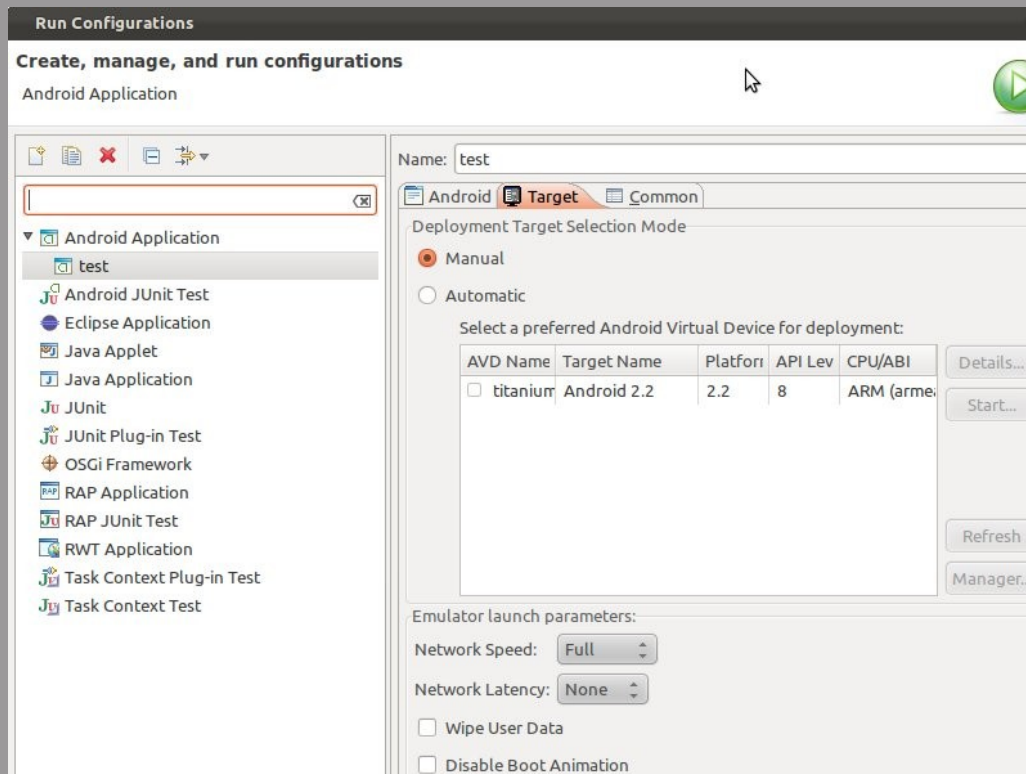# Install Android SDK 5.

Use your device for develop

Windows:

- Just install the usb driver in ADV

Linux:

- sudo nano /etc/udev/rules.d/51-android.rules
- Search producer code here
- service udev restart

Eclipse:

- Run → Run Configuration

My phone is in the top section

Merry Christmas