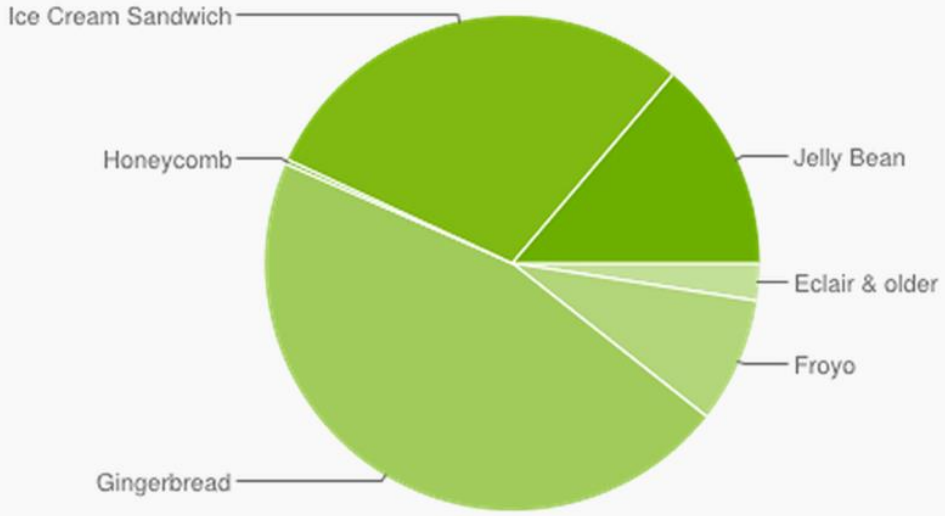
建立第一個 ANDROID 應用程式

Android Version

Version	Codename	API	Distribution
1.6	Donut	4	0.2%
2.1	Eclair	7	2.2%
2.2	Froyo	8	8.1%
2.3 - 2.3.2	Gingerbread	9	0.2%
2.3.3 - 2.3.7		10	45.4%
3.1	Honeycomb	12	0.3%
3.2		13	1.0%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	29.0%
4.1	Jelly Bean	16	12.2%
4.2		17	1.4%

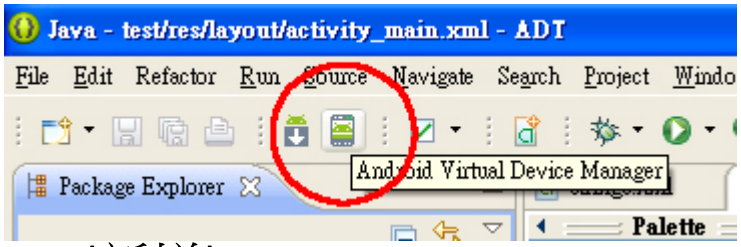


Data collected during a 14-day period ending on February 4, 2013

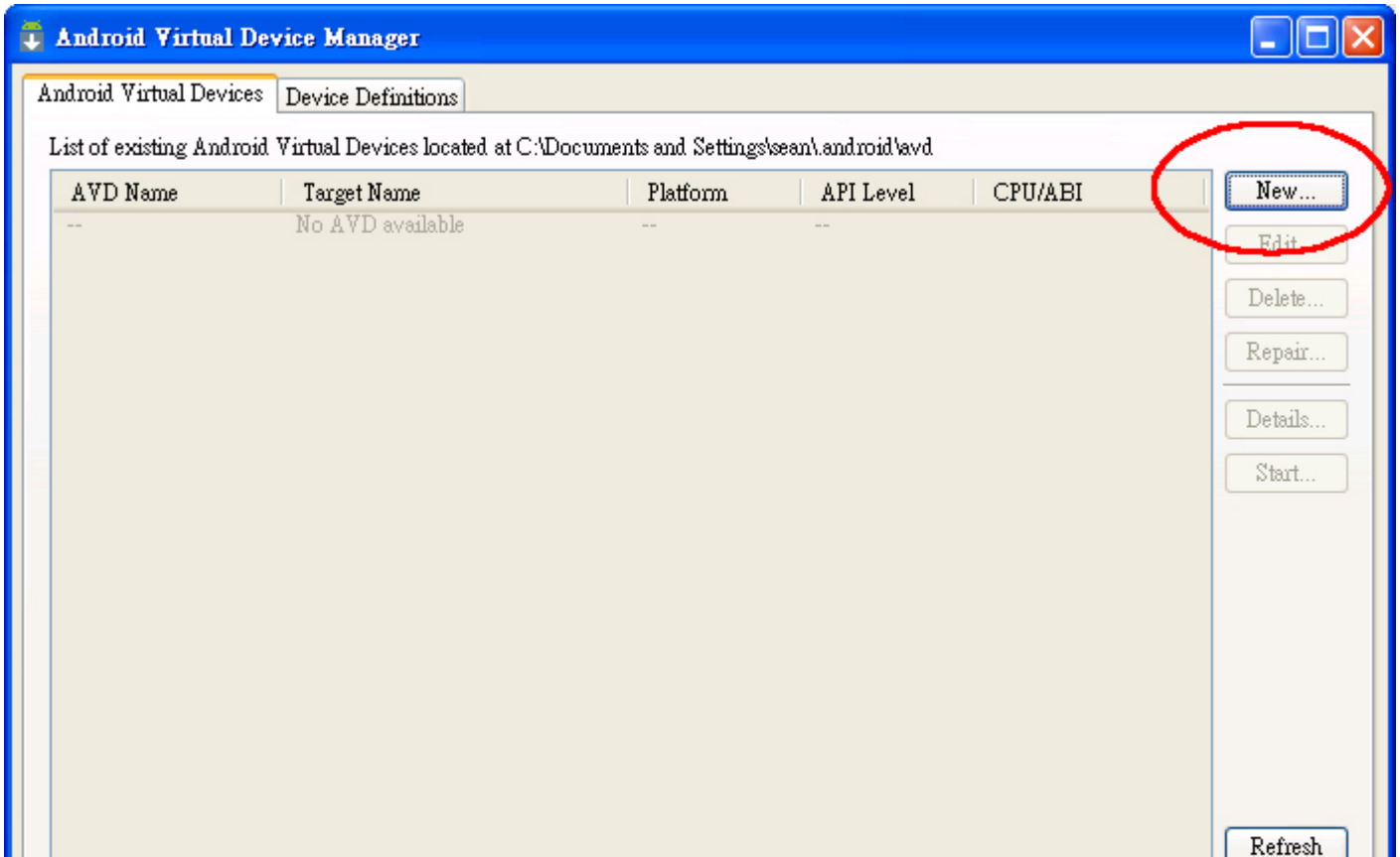
模擬器是用電腦去模擬一隻手機
可以用來測試我們的程式

建立與啟動ANDROID模擬器

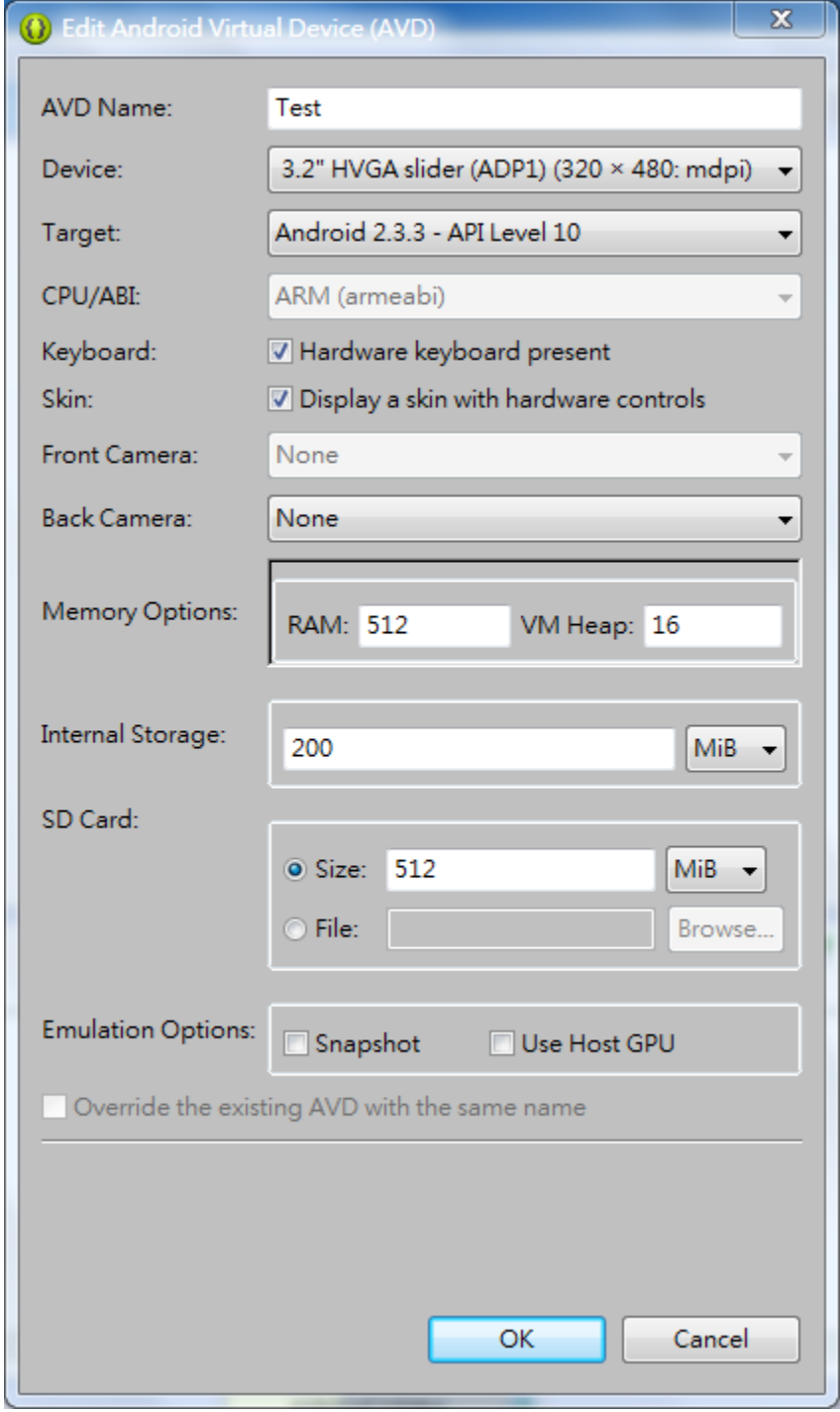
- 按畫面上方Android Virtual Device Manager(虛擬裝置管理員)
- 或 Window→AVD Manager

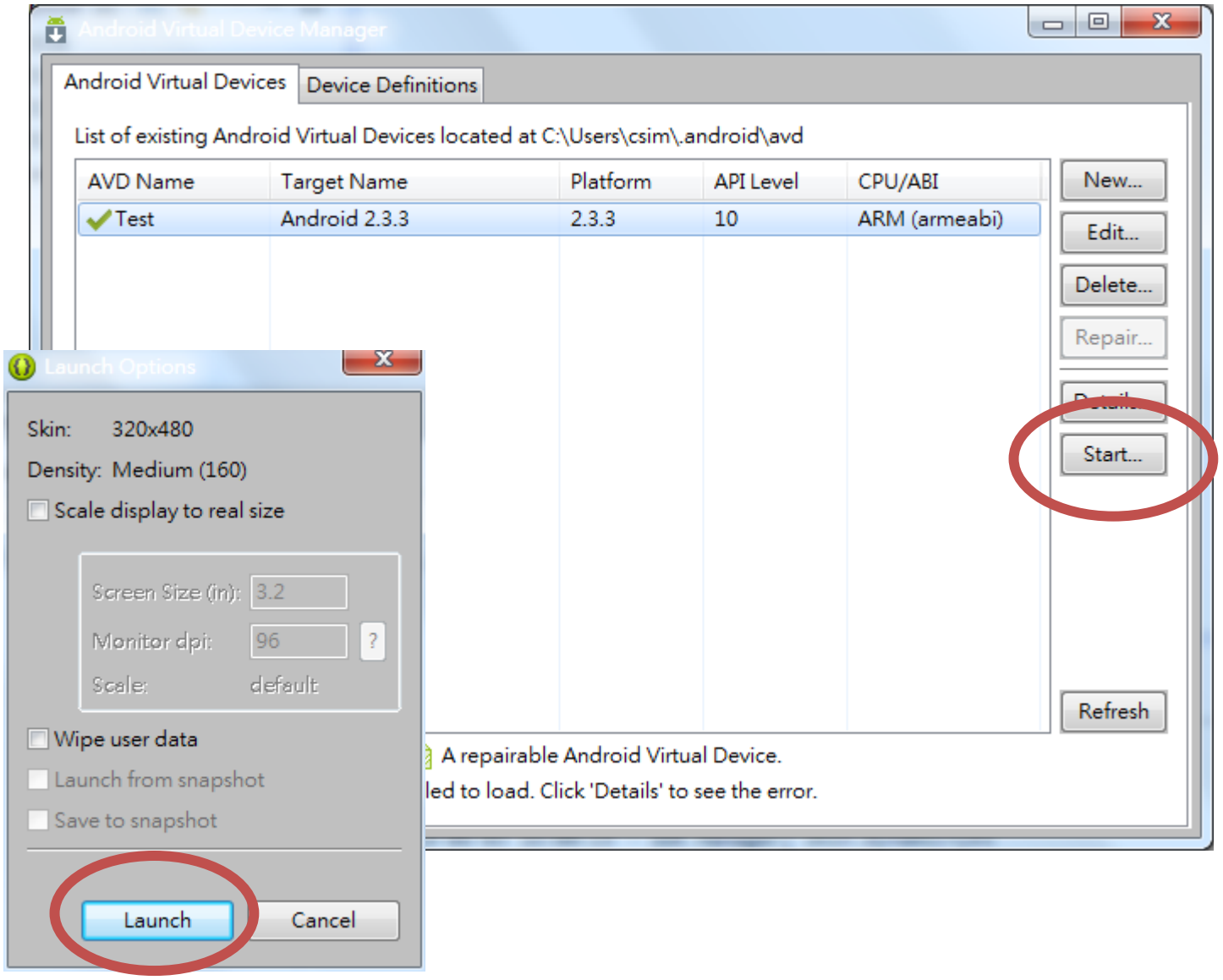


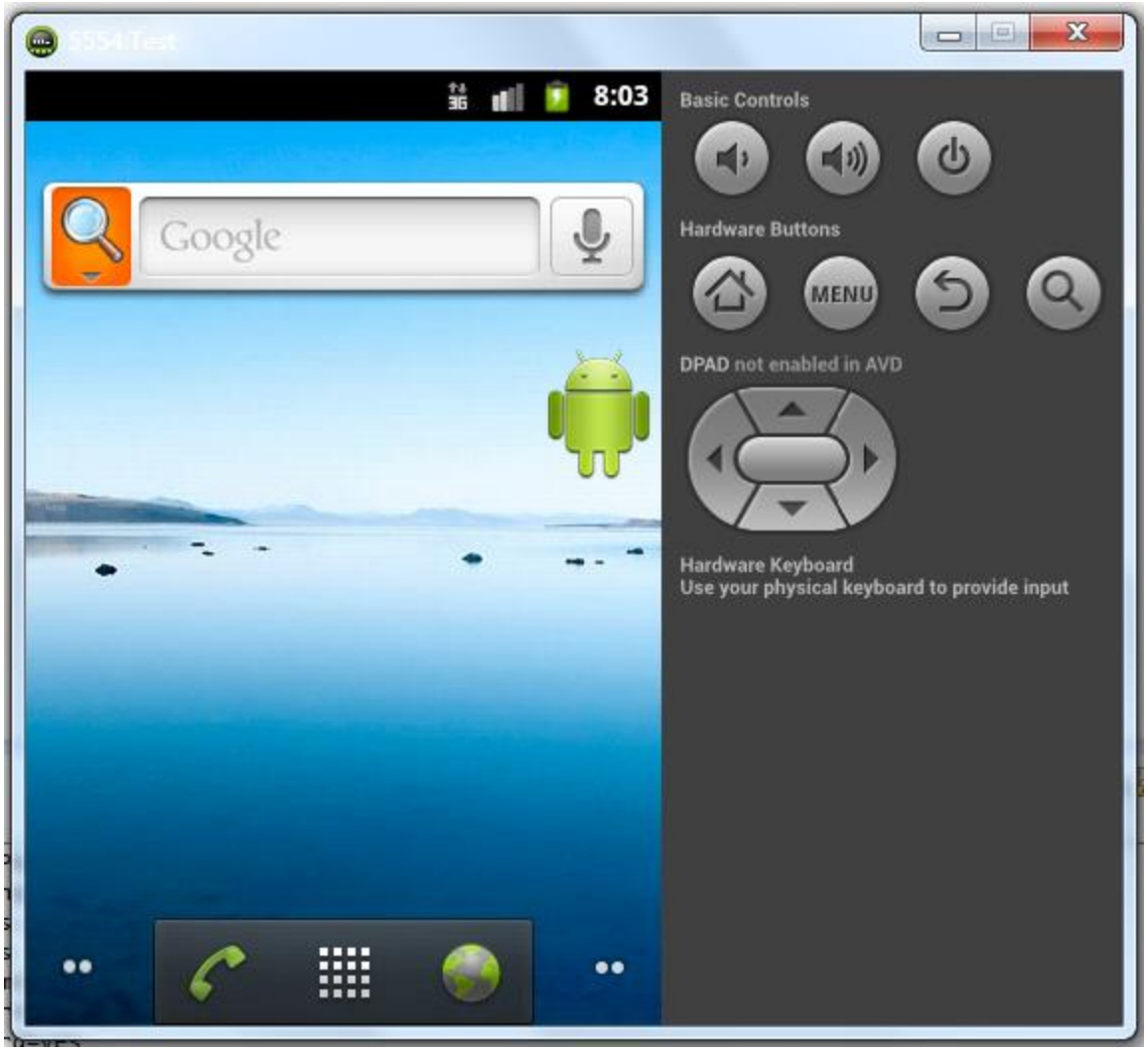
- 按下視窗右邊的New(新增)



- AVD Name 可以自取，名稱隨便輸入都可以
- Device：可以選不同的裝置，差別只是畫面大小
  - 手機常用的為 HVGA(320X480)
- Target：選擇Android的版本(2.3.3或4.0)
- RAM：512MB
- SD Card：512MB
- 按下OK→右側點擊Start，點擊Launch啟動模擬器(啟動時間依不同電腦速度不同)
- 可以建立多個支援不同 Android 作業系統版本和硬體的多個模擬器

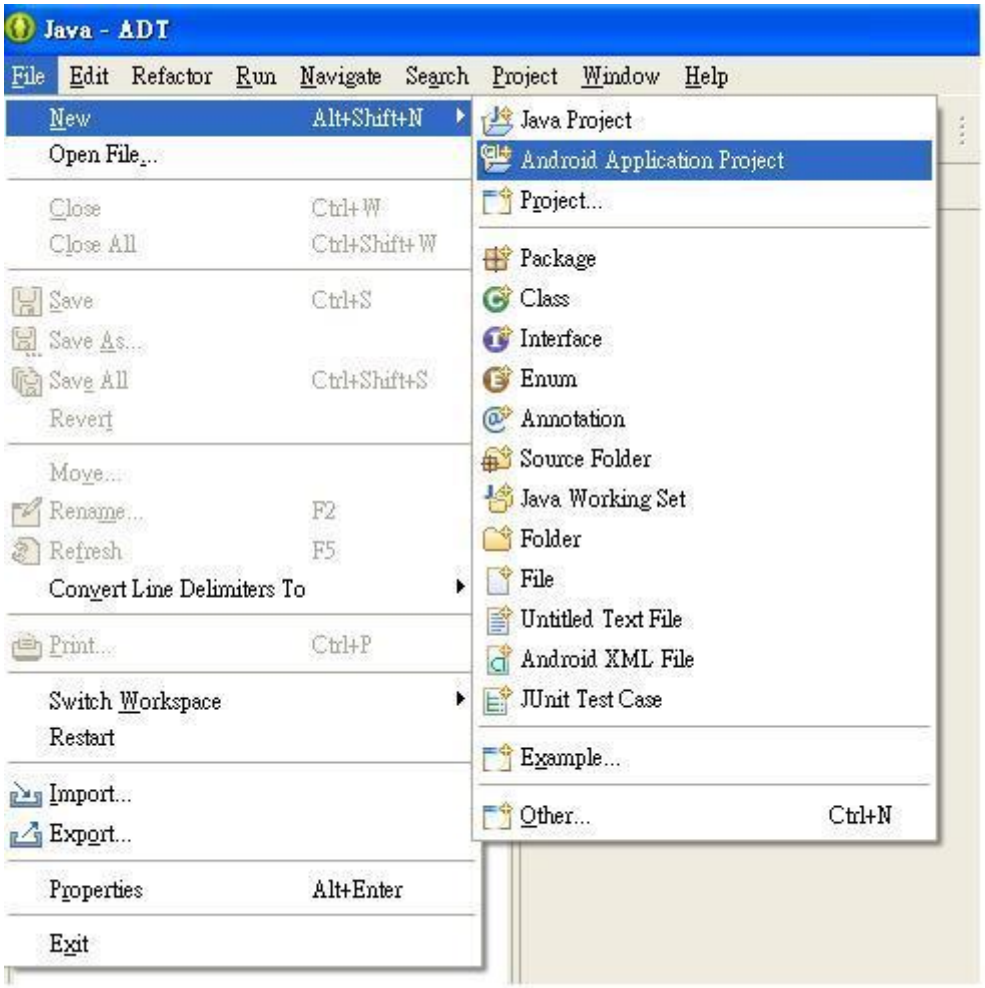



Android Virtual Device Manager
Android Virtual Devices
Device Definitions
List of existing Android Virtual Devices located at C:\Users\csim\.android\avd
AVD Name
Target Name
Platform
API Level
CPU/ABI
Test
Android 2.3.3
2.3.3
10
ARM (armeabi)
New...
Edit...
Delete...
Repair...
Start...
Refresh
A repairable Android Virtual Device.
led to load. Click 'Details' to see the error.
Launch Options
Skin: 320x480
Density: Medium (160)
Scale display to real size
Screen Size (in): 3.2
Monitor dpi: 96
Scale: default
Wipe user data
Launch from snapshot
Save to snapshot
Launch
Cancel

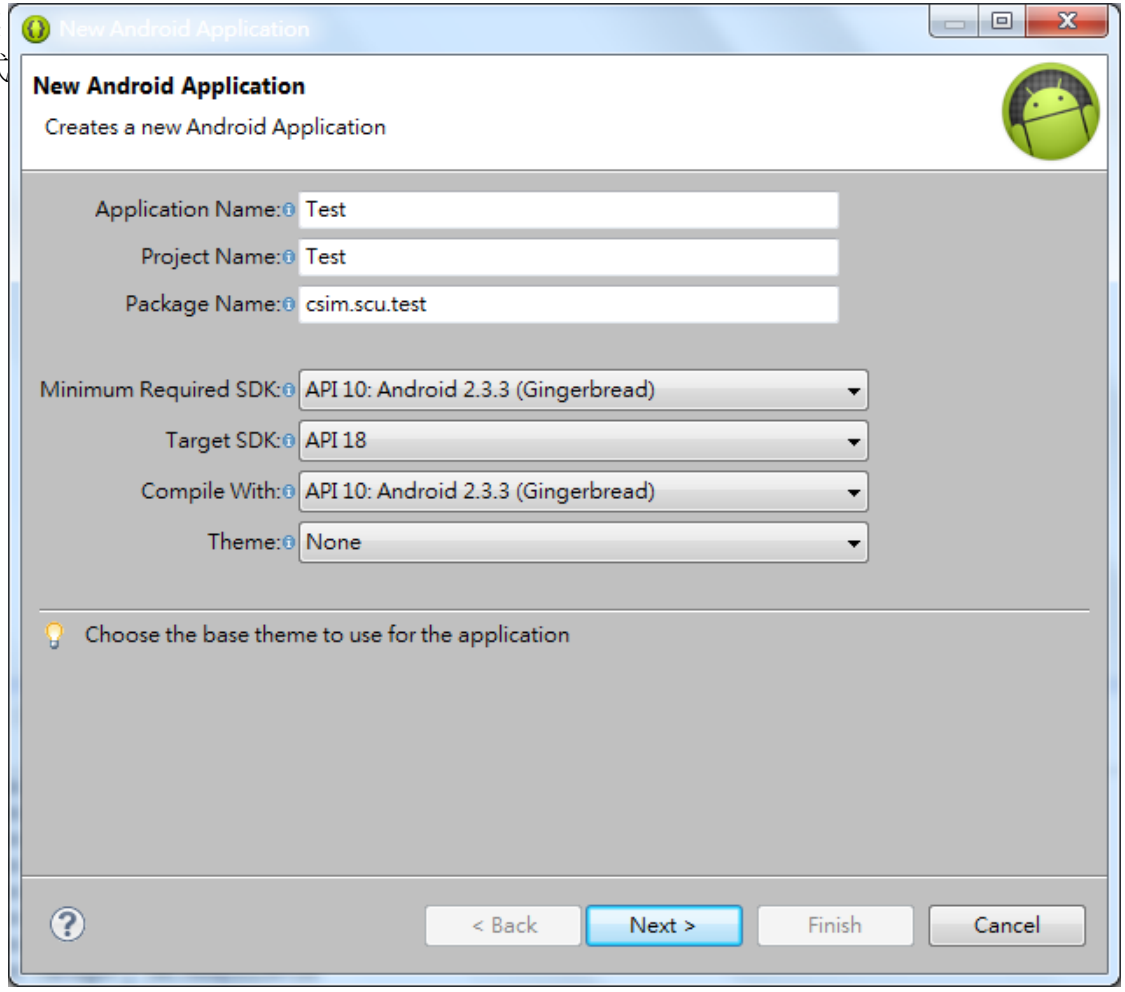

5554:Test
8:03
Google
Basic Controls
Hardware Buttons
MENU
DPAD not enabled in AVD
Hardware Keyboard
Use your physical keyboard to provide input

建立第一個ANDROID應用程式

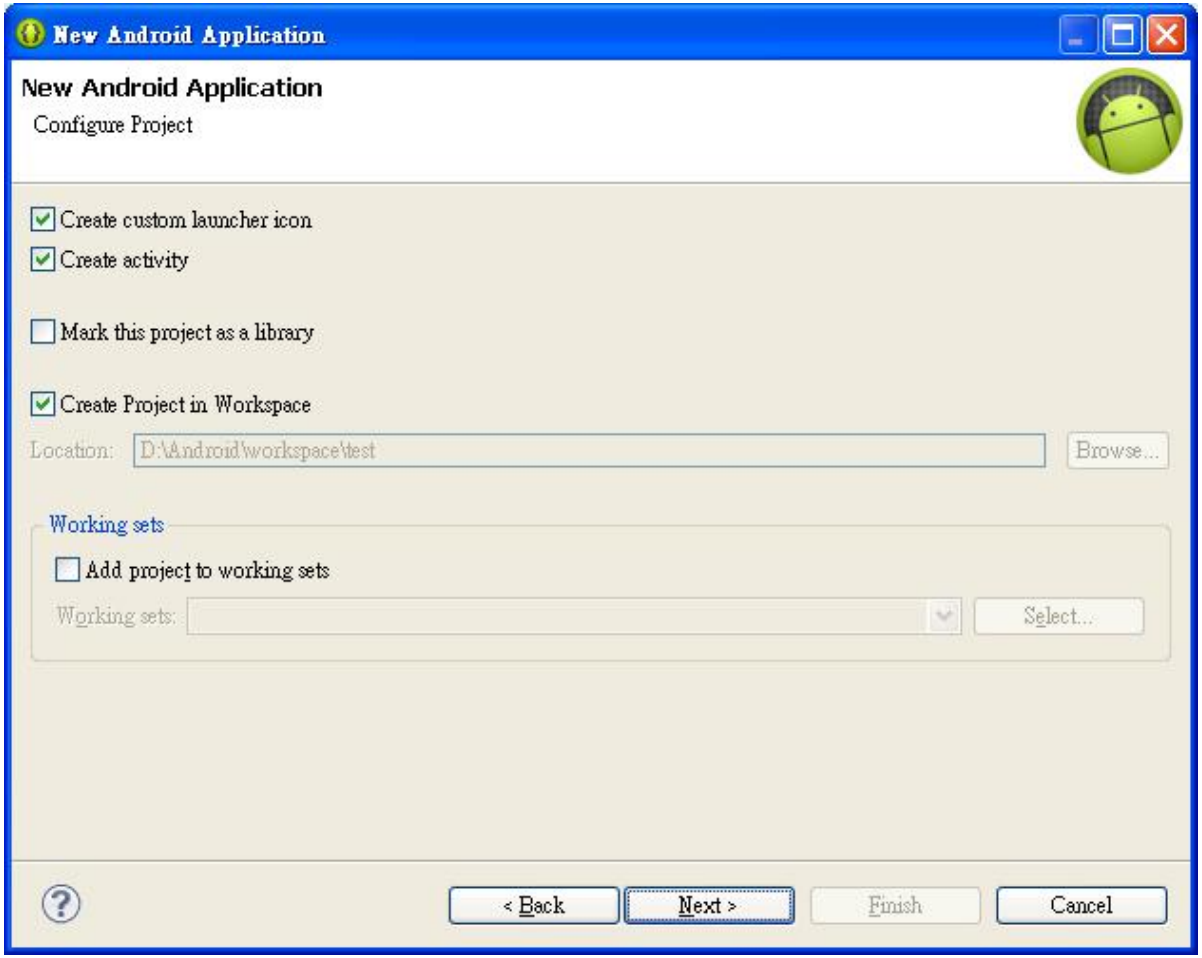
- 點選右上角New→Android Application Project
- 開啟一個新的Android APP專案



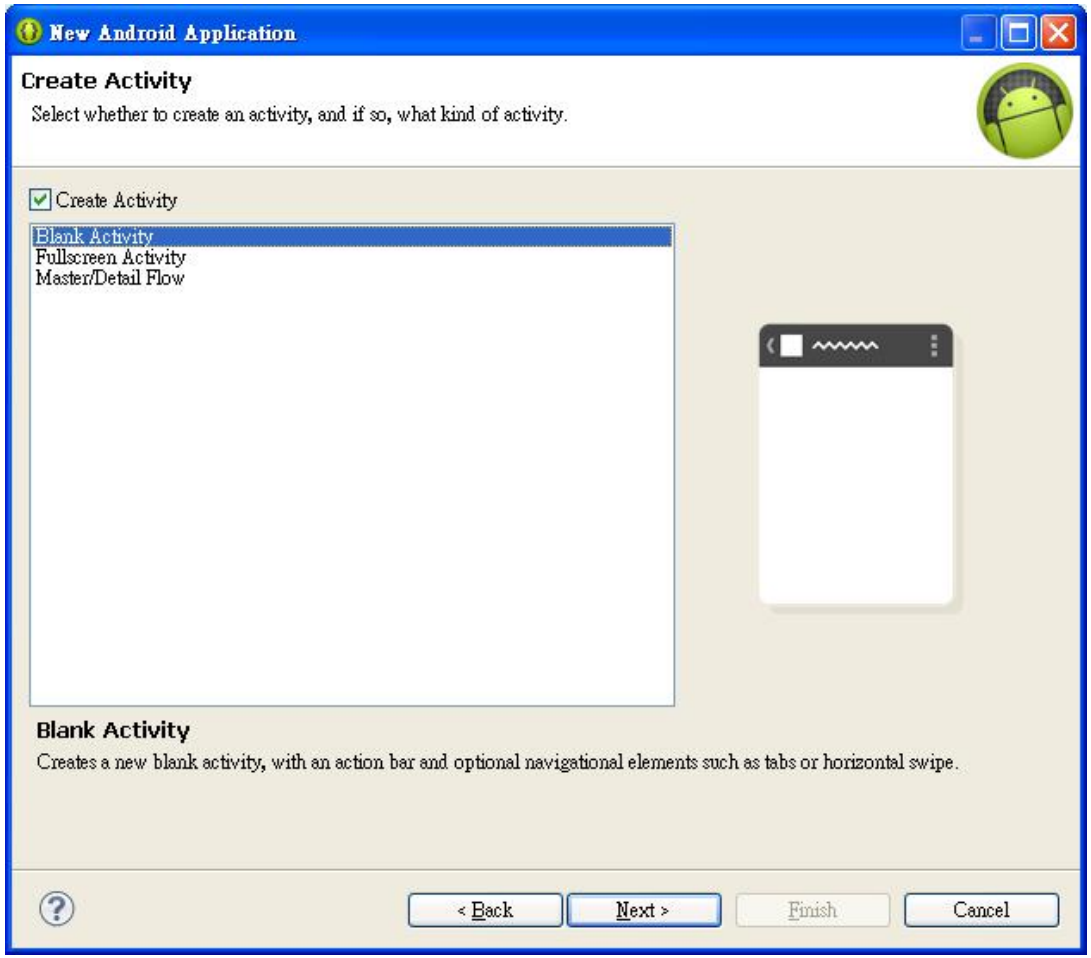
- Application Name：應用程式名稱，出現在APP標題列(Test)
- Project Name：設定專案的名稱，和Application Name同名
- Package Name：使用小寫英文字母開頭，以相反的網域名稱作為套件名稱
  - csim.scu.test
- Minimum Required SDK：最小可執行版本(2.3.3)
- Target SDK：選擇Android作業系統的版本(4.0)
  - 新版作業系統會支援舊版作業系統的應用程式
  - 如果選4.0版，表示之前的版本不能執行此程式
- 若是要下載其他Android的版本
- 可以按畫面上方Windows→ Android SDK Manager裡去下載



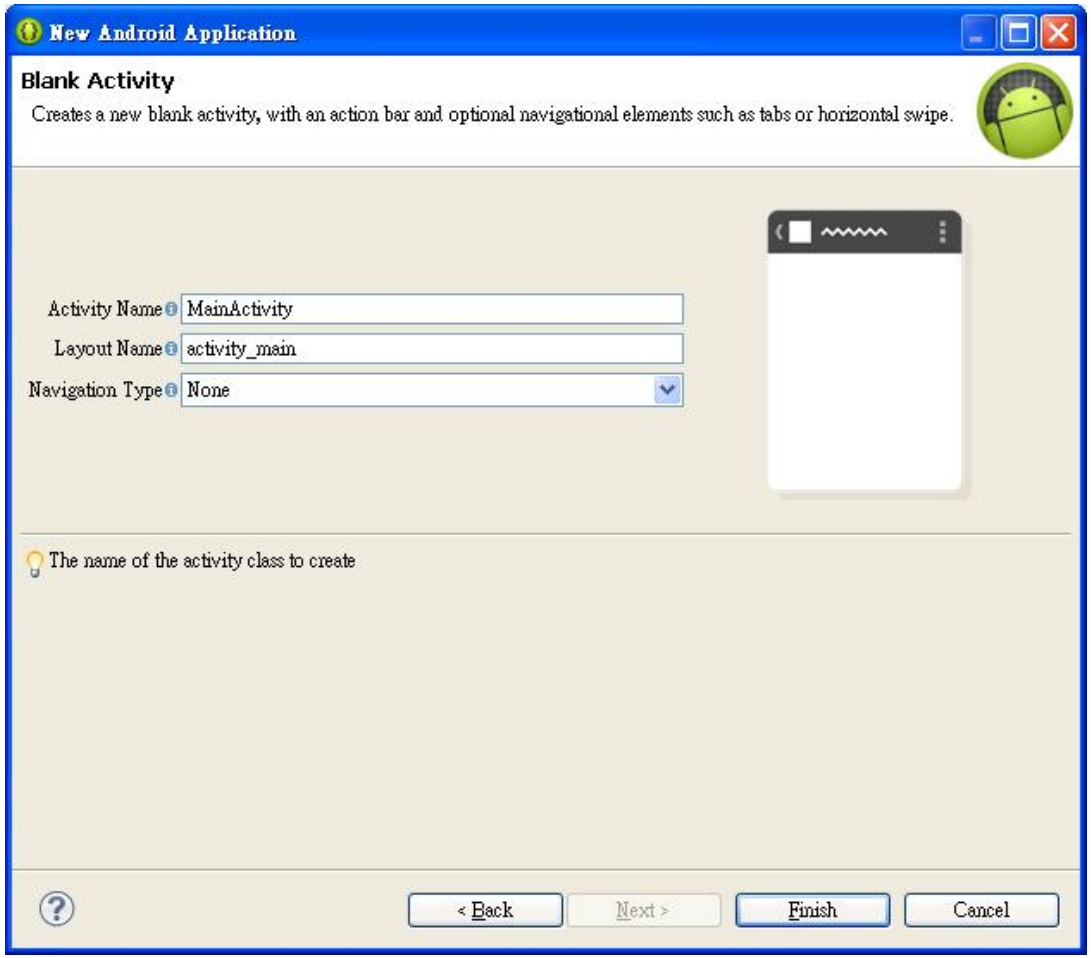
接著要做一些設定
我們不要搞得太複雜，一直按下一步就好



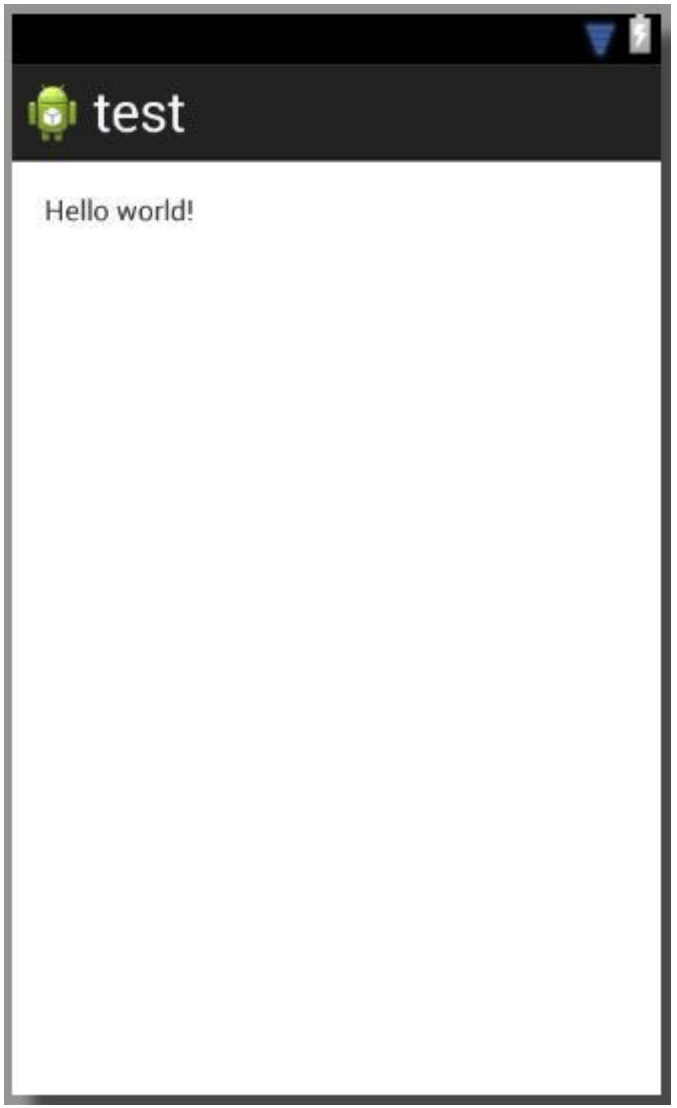
New Android Application
Configure Launcher Icon
Configure the attributes of the icon set
Foreground:
Image
Clipart
Text
Image File:
launcher_icon
Browse...
Trim Surrounding Blank Space
Additional Padding:
0%
Foreground Scaling:
Crop
Center
Shape
None
Square
Circle
Background Color:
Preview:
mdpi:
hdpi:
xhdpi:
xxhdpi:
< Back
Next >
Finish
Cancel


New Android Application
Create Activity
Select whether to create an activity, and if so, what kind of activity.
Create Activity
Blank Activity
Fullscreen Activity
Master/Detail Flow
Blank Activity
Creates a new blank activity, with an action bar and optional navigational elements such as tabs or horizontal swipe.
< Back
Next >
Finish
Cancel

Finash

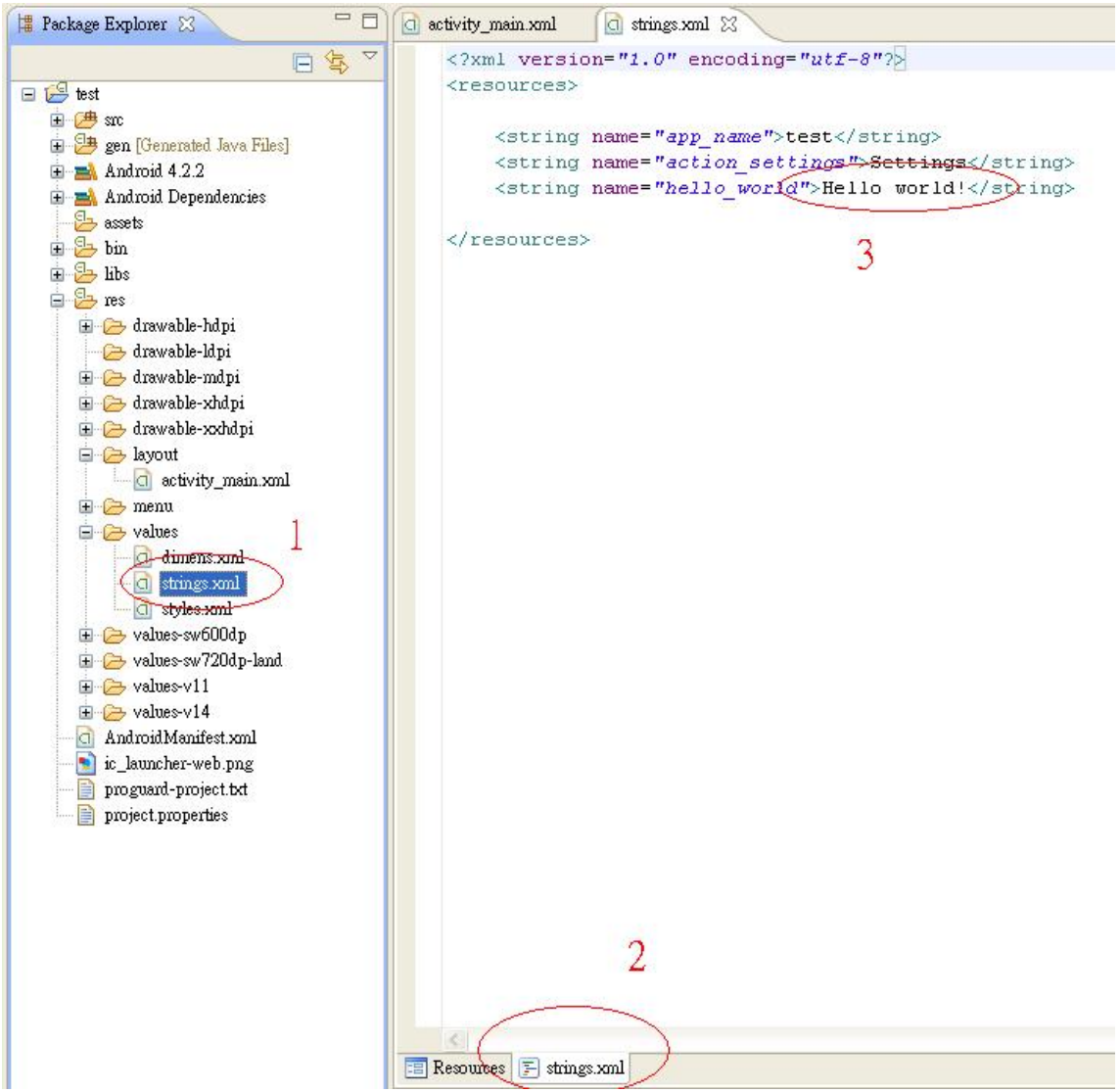

New Android Application
Blank Activity
Creates a new blank activity, with an action bar and optional navigational elements such as tabs or horizontal swipe.
Activity Name
MainActivity
Layout Name
activity_main
Navigation Type
None
The name of the activity class to create
< Back
Next >
Finish
Cancel

- android專案預設程式



- 做字串更改

1. 打開Values底下的strings.xml的檔案
2. 切換到原始碼
3. 發現Hello world!的字串

- 把Hello world!改成Hello CSIM! 吧
- 改完之後記得存檔(ctrl+S)

1. 關閉原來的activity_main.xml
2. 再次開啟activity_main.xml
3. 畫面上的字串已改為Hello CSIM!