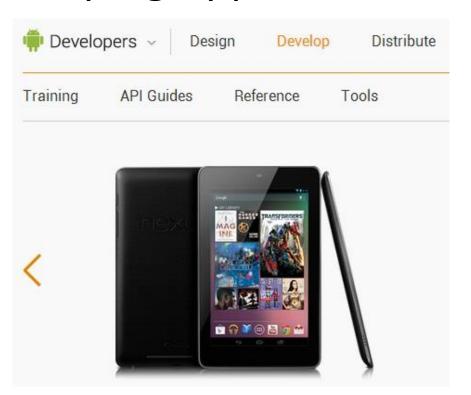


# Developing Apps for Android<sup>™</sup>



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#### **Android Branding Notices:**

http://developer.android.com/distribute/googleplay/promote/brand.html

#### Google Legal Notices:

http://code.google.com/policies.html

https://developer.android.com/legal.html



### Course Instructor



## Don Cowan

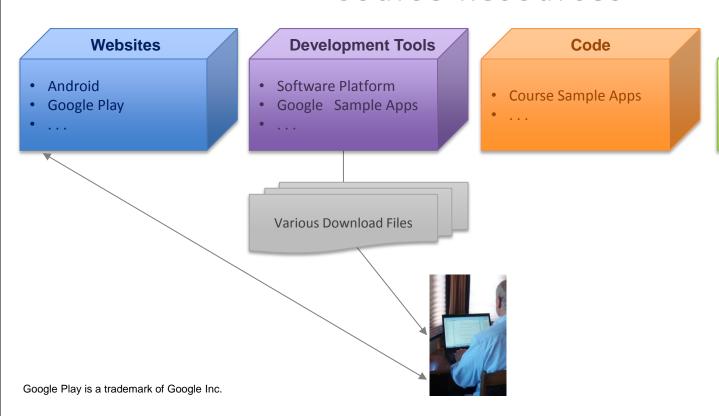
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www.donkcowan.com

www.twitter.com/donkcowan



### Course Resources



#### **Graphics**

- Course Charts
- API Demos Worksheet
- •



### Overview of Android



### **Android Devices**

Phones Tablets

- > 500M Active devices as of 2012
- > 1.3M Activations per day
- > 1800 Different device brand/models
- > 75% Mobile market share

#### Device details at:

http://www.android.com/devices/



### **Countries Supported**

Global

- > 135 Nations supported as of 2012
- > 50 Languages supported
- + Localization tools and support

#### Country details at:

https://support.google.com/googleplay/android-developer/bin/answer.py?hl=en&answer=138294



### **Active Developers**

Global

- > 300K Developers as of 2012
- + Large number of job opportunities
- + Shortage of developers
- + No App publishing manual review

#### Developer support details at:

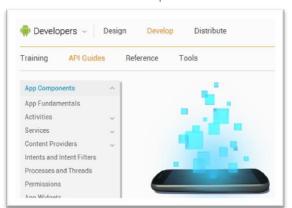
https://support.google.com/googleplay/android-developer/bin/answer.py?hl=en&answer=136758



## Course Overview



#### Android Developers Website



http://developer.android.com/guide/components/index.html



#### **Android** Development System

Android Website Design Guide **Eclipse IDE** Android SDK Android NDK Emulator Java Sample Apps Testing Debugging **Publishing Apps** Google Play **Developer Console** 



#### APP Components and APIs

Activities Services Content Providers Intents Processes Messaging Widgets Manifest



### Connectivity

Bluetooth NFC Wi-Fi Direct USB SIP



#### and Sensors

Maps Geocodina Map Overlays Motion Sensors Position Sensors **Environment Sensors** 





#### App Resources

**XML** Localization Colors Drawables Layouts Strings Dimensions Menu Styles





#### Media and Camera

Playback **Formats** Audio Camera



#### Web **Apps**

WebView Viewport Layout Resizing



#### Remote Access

Server Access JSON Data Google Cloud



#### User Interface

Layouts **Buttons** Text **Spinners** Pickers Input Events Menus Tabs Action Bar Dialogs **Notifications Progress Bars** Seek Bars

Lists Styles and Themes Phone Interface **Email Interface** 

Search

### Storage

Shared Preferences **SQLite Database** Internal Data Storage External Data Storage

Data



#### Animation and Graphics

**Property Animation** View Animation Canvas and Drawables OpenGL Hardware Acceleration



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