Desarrollo de aplicaciones para Android

FISOL-2010-Tapachula, Chiapas

Contenido

- Mercado de telefonos móviles
- ¿Que es Android?
- Arquitectura del Sistema operativo
- Estructura de una aplicación
- Herramientas de desarrollo
- Ejemplo “Hola Android”

¡¡Luchadores al ring!!

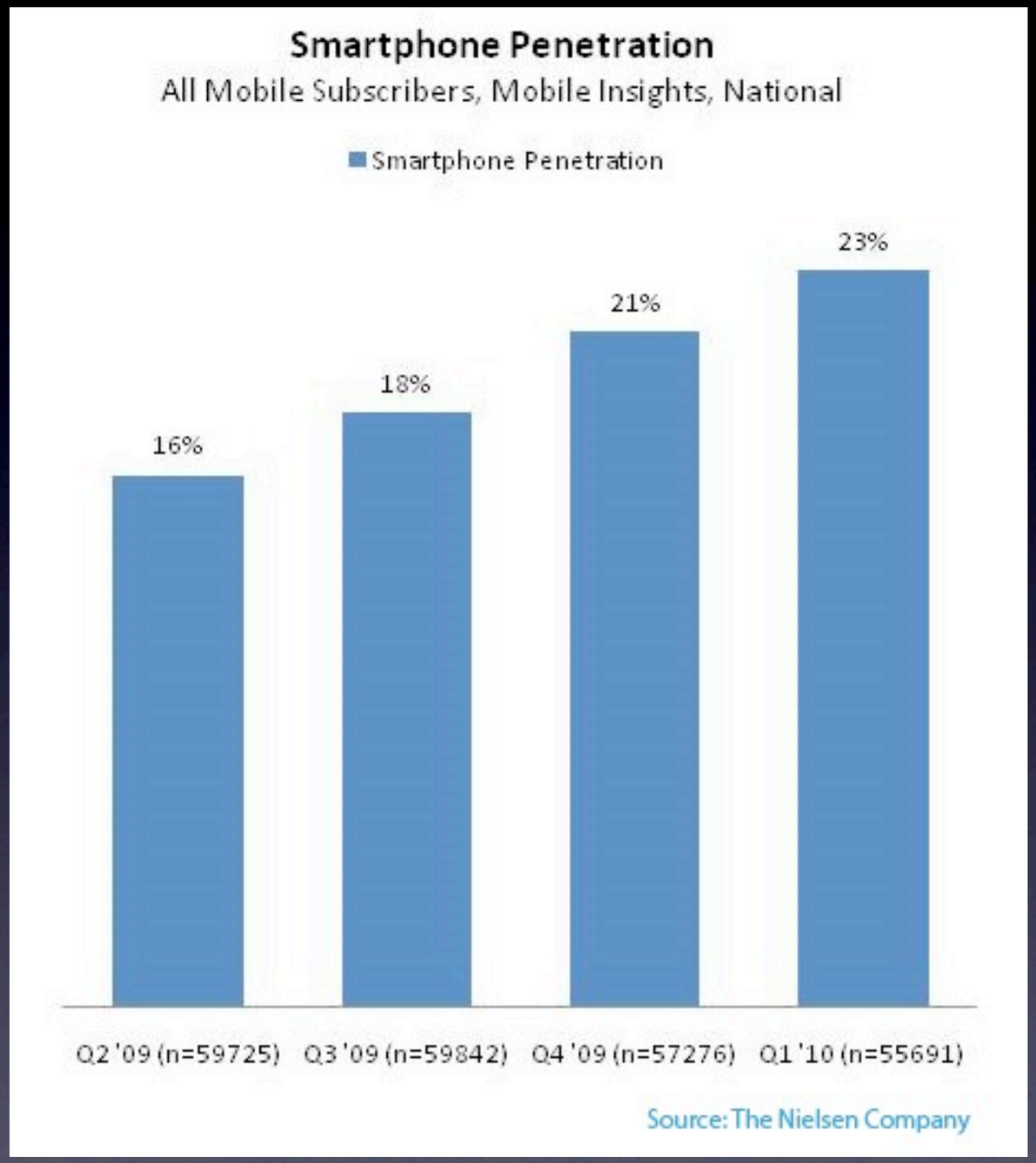
Teléfonos

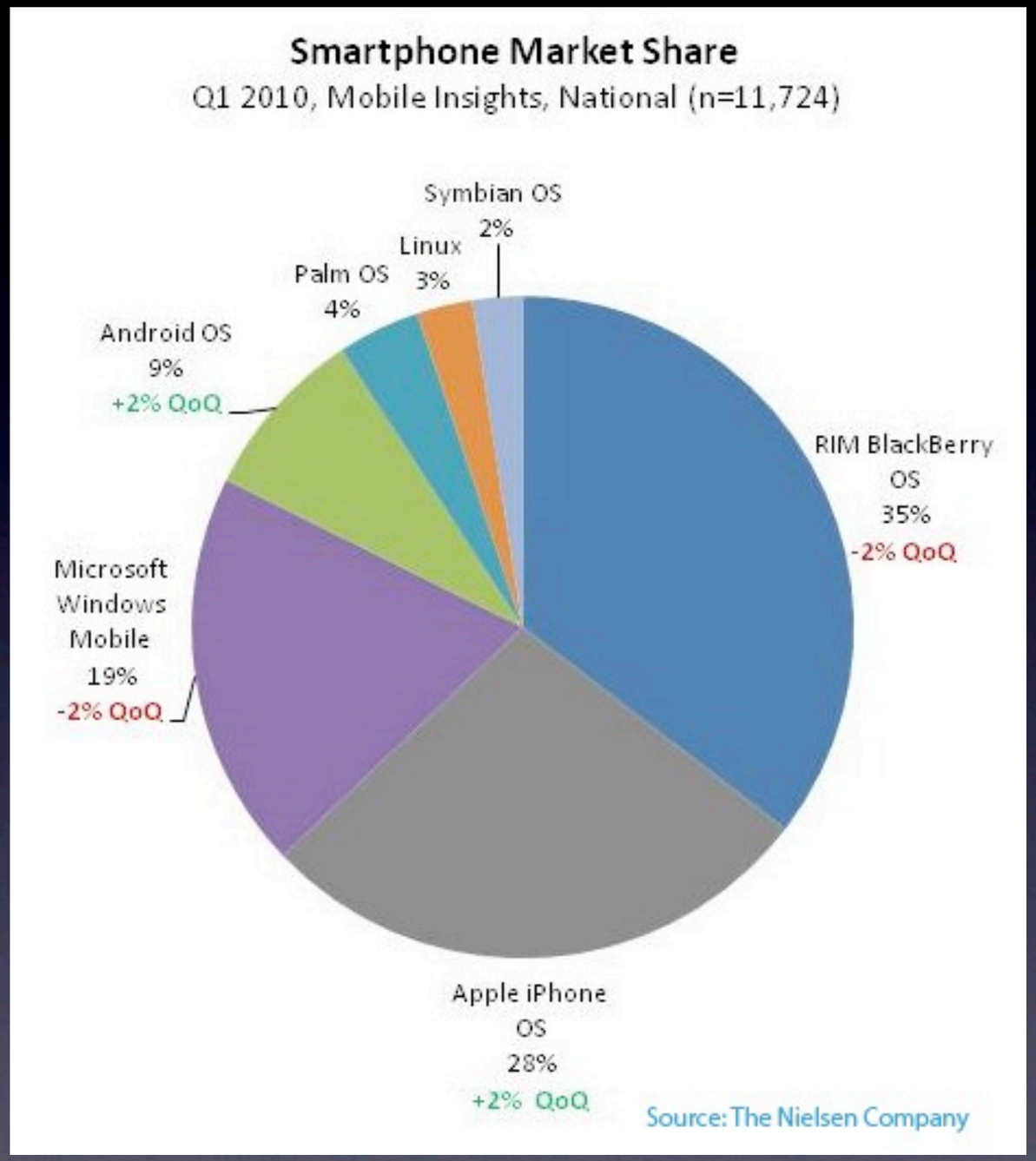
Flexibilidad en desarrollo

Algunas estadísticas

iPhone vs. Android Phones

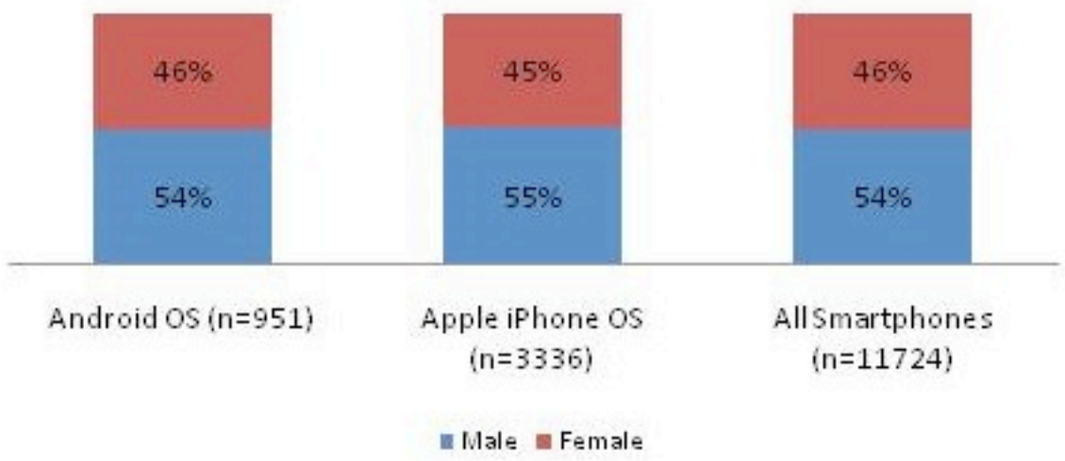
¡¡Hagan sus apuestas!!


Smartphone Penetration
All Mobile Subscribers, Mobile Insights, National
Smartphone Penetration
16%
18%
21%
23%
Q2 '09 (n=59725)
Q3 '09 (n=59842)
Q4 '09 (n=57276)
Q1 '10 (n=55691)
Source: The Nielsen Company


Smartphone Market Share
Q1 2010, Mobile Insights, National (n=11,724)
Symbian OS
2%
Linux
3%
Palm OS
4%
Android OS
9%
+2% QoQ
RIM BlackBerry
OS
35%
-2% QoQ
Microsoft
Windows
Mobile
19%
-2% QoQ
Apple iPhone
OS
28%
+2% QoQ
Source: The Nielsen Company

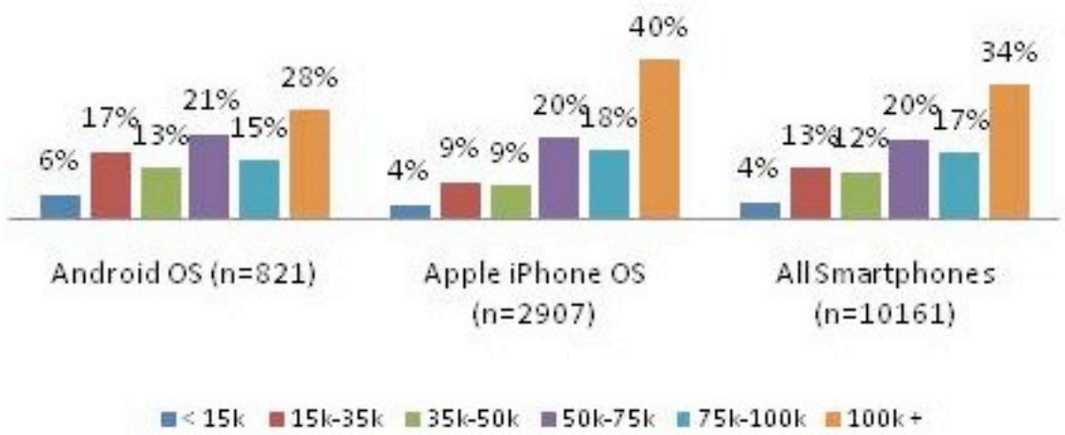
Gender

Q1 2010, Mobile Insights, National



Income

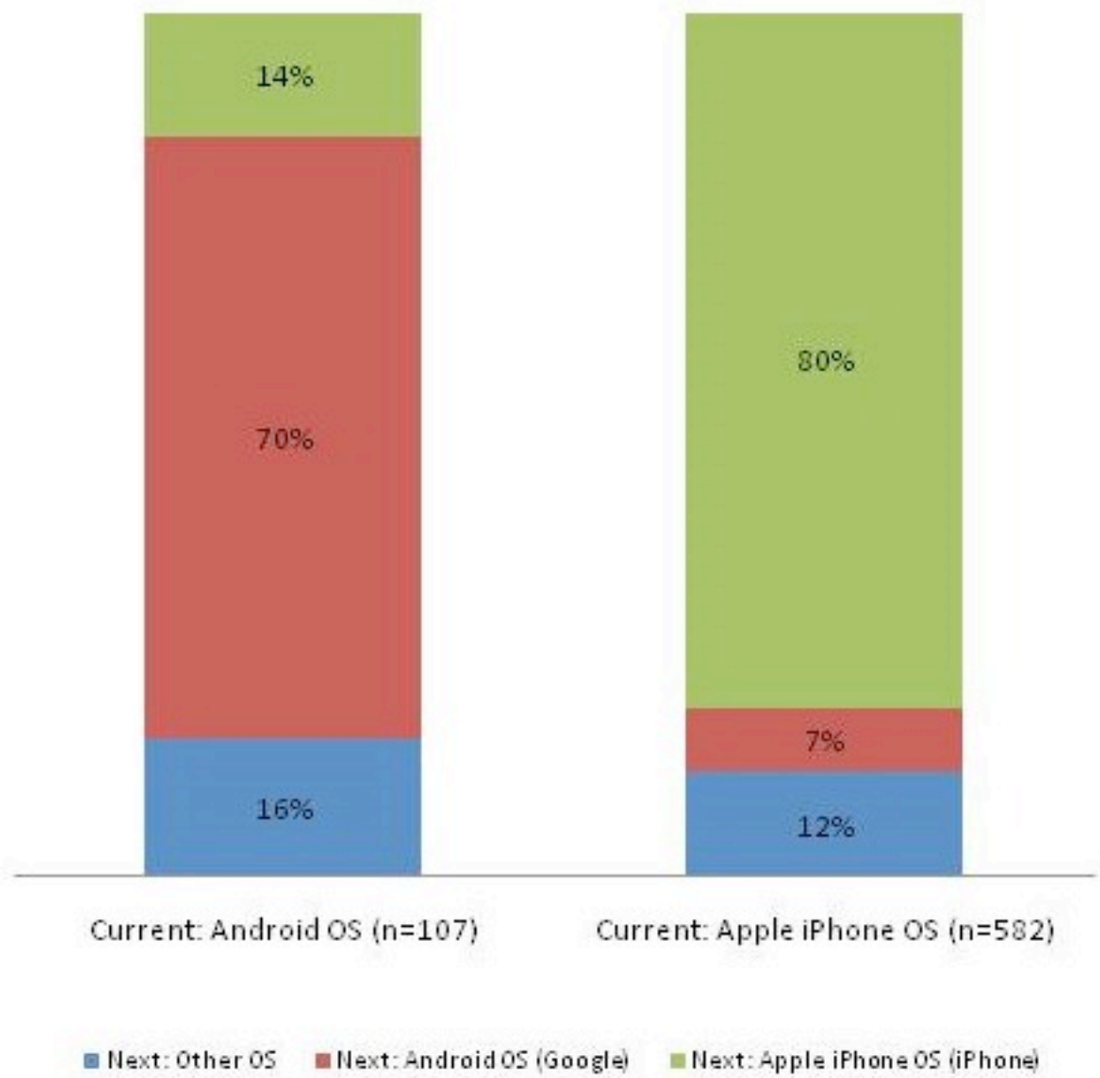
Q1 2010, Mobile Insights, National



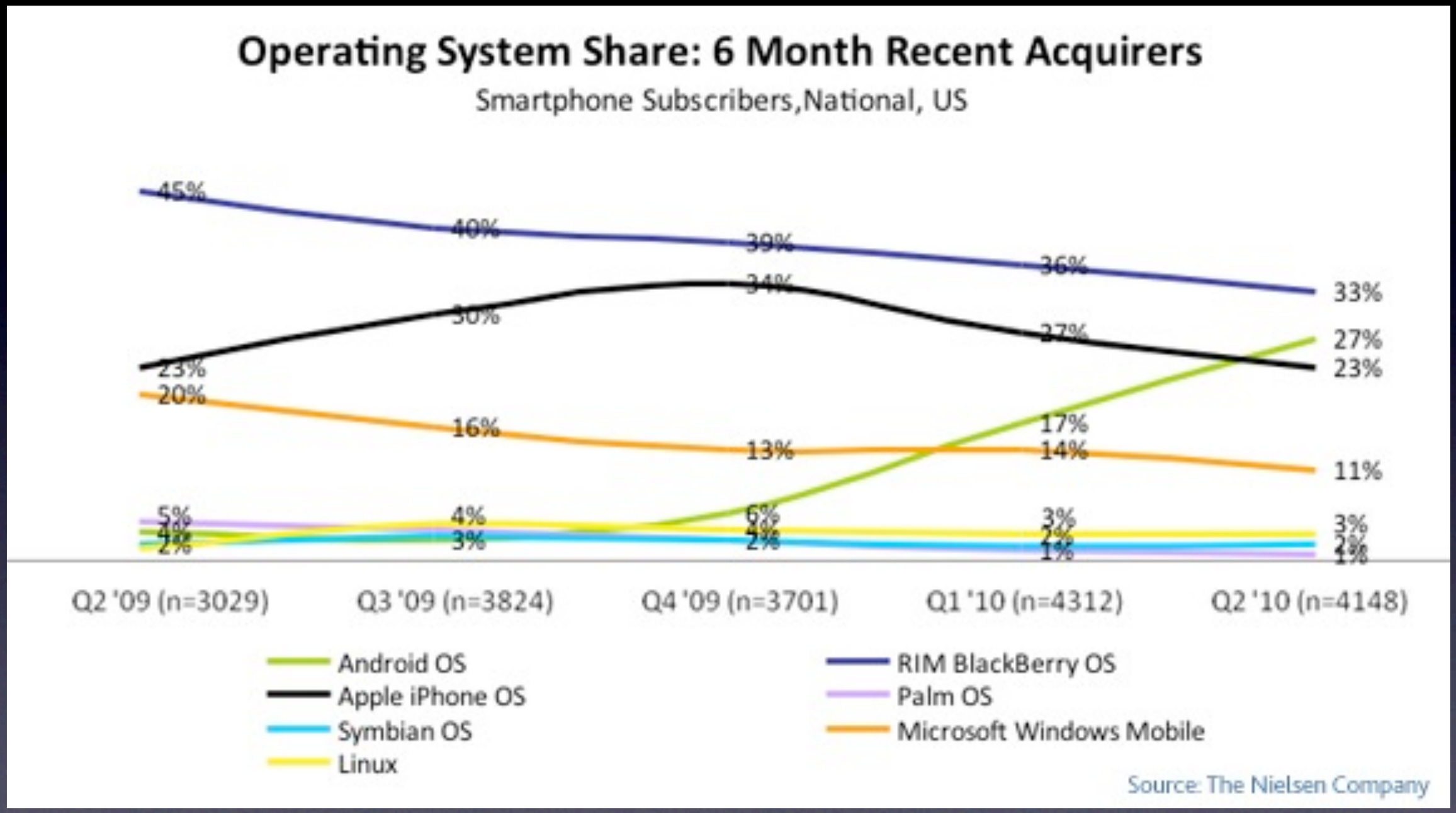
Source: The Nielsen Company

Next Desired OS by Current OS

Q1 2010, Mobile Insights, National



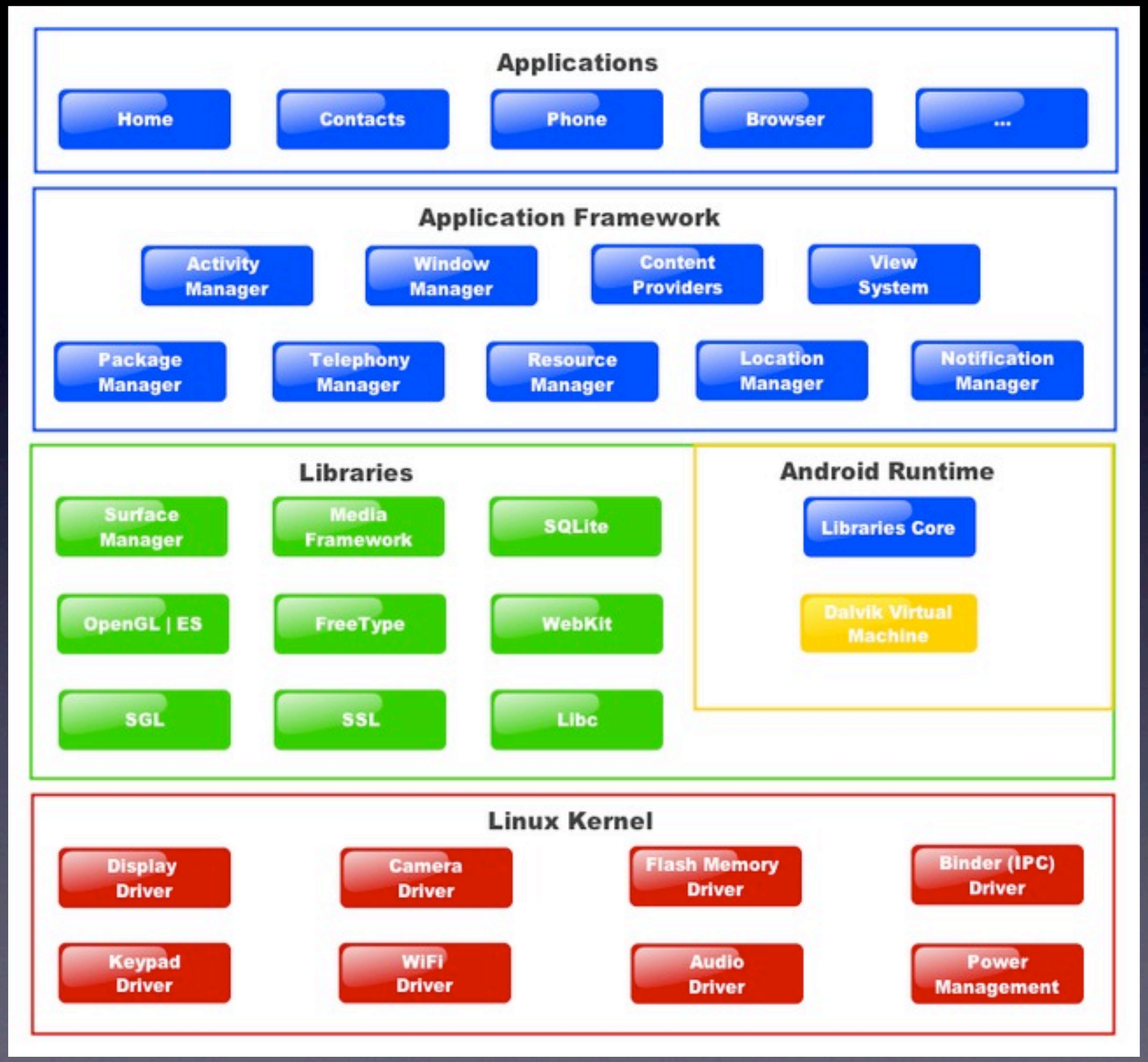
Source: The Nielsen Company


Operating System Share: 6 Month Recent Acquirers
Smartphone Subscribers,National, US
45%
40%
39%
36%
33%
30%
34%
27%
23%
23%
27%
20%
16%
13%
14%
11%
17%
5%
4%
6%
3%
3%
3%
2%
2%
1%
1%
Q2 '09 (n=3029)
Q3 '09 (n=3824)
Q4 '09 (n=3701)
Q1 '10 (n=4312)
Q2 '10 (n=4148)
Android OS
Apple iPhone OS
Symbian OS
Linux
RIM BlackBerry OS
Palm OS
Microsoft Windows Mobile
Source: The Nielsen Company

¿Qué es Android?

- Según la RAE: Androide. (Del lat. mod. androides, y este del gr. ἀνήρ, ἀνδρός, hombre, varón, y -oide). 1. m. Autómata de figura de hombre.
- Una plataforma de programación dispositivos moviles que incluye:
- Un sistema operativo (Kernel Linux)
- Middleware y aplicaciones
- Maquina virtual Java propia "Dalvik"

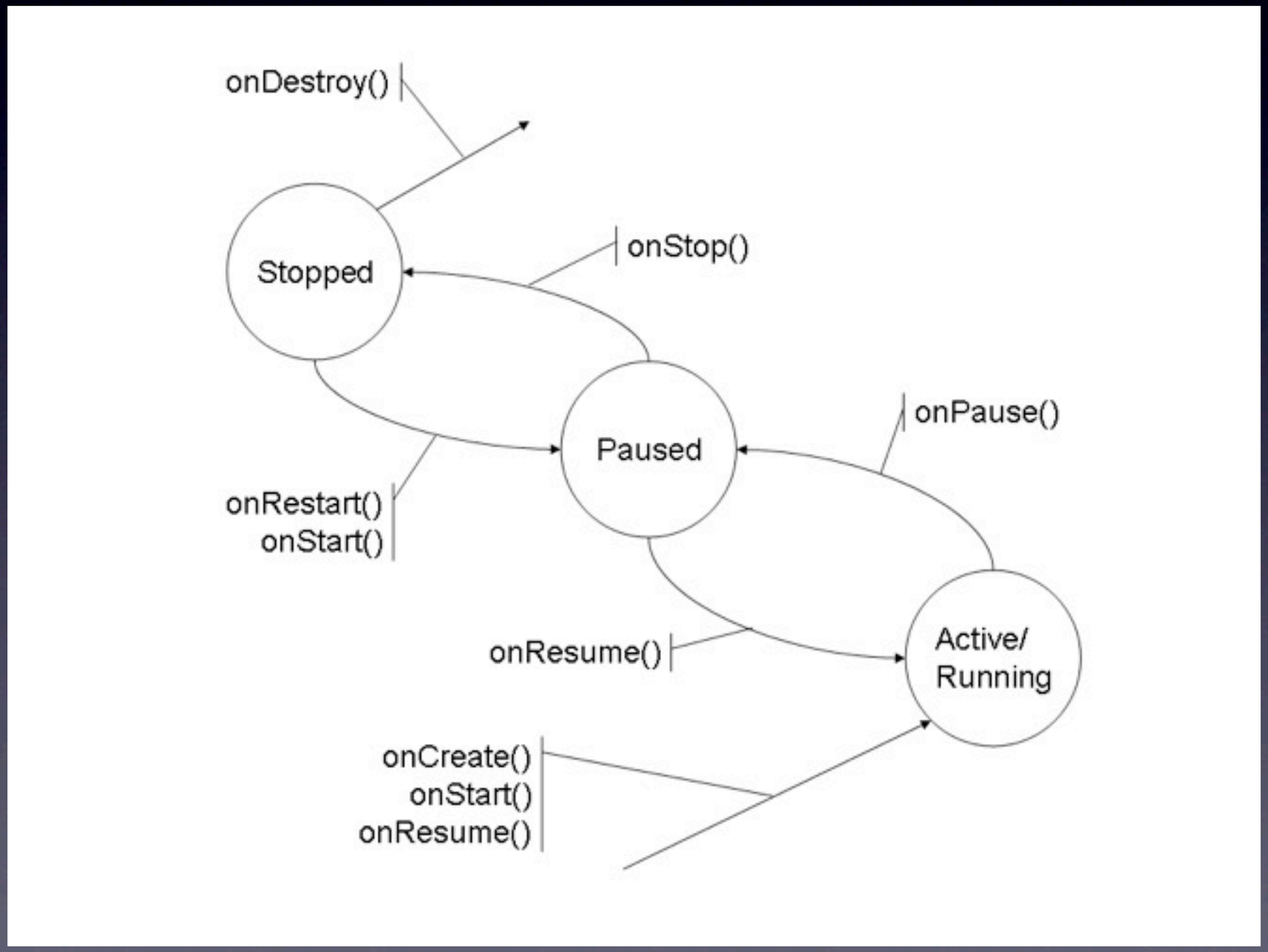
Arquitectura Android



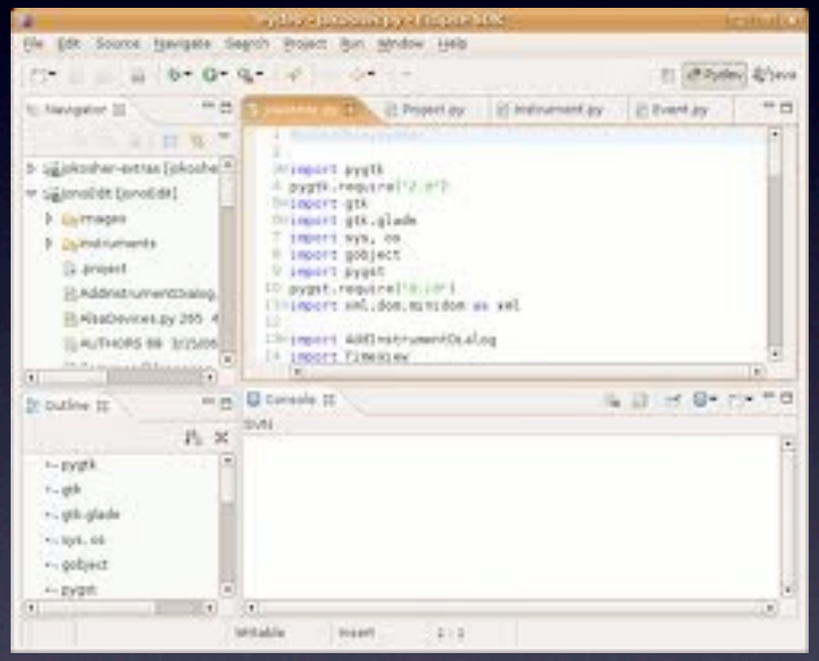
Estructura de una App

- Activities: codigo asociada a una pantalla
- Intents & Intents Filters: clases que describen lo que la app quiere hacer
- Broadcast Intent Receiver: receptores de Intents
- Service: código sin interfaz de usuario
- Content provider: apps que guardan datos en archivos

Estados de una App

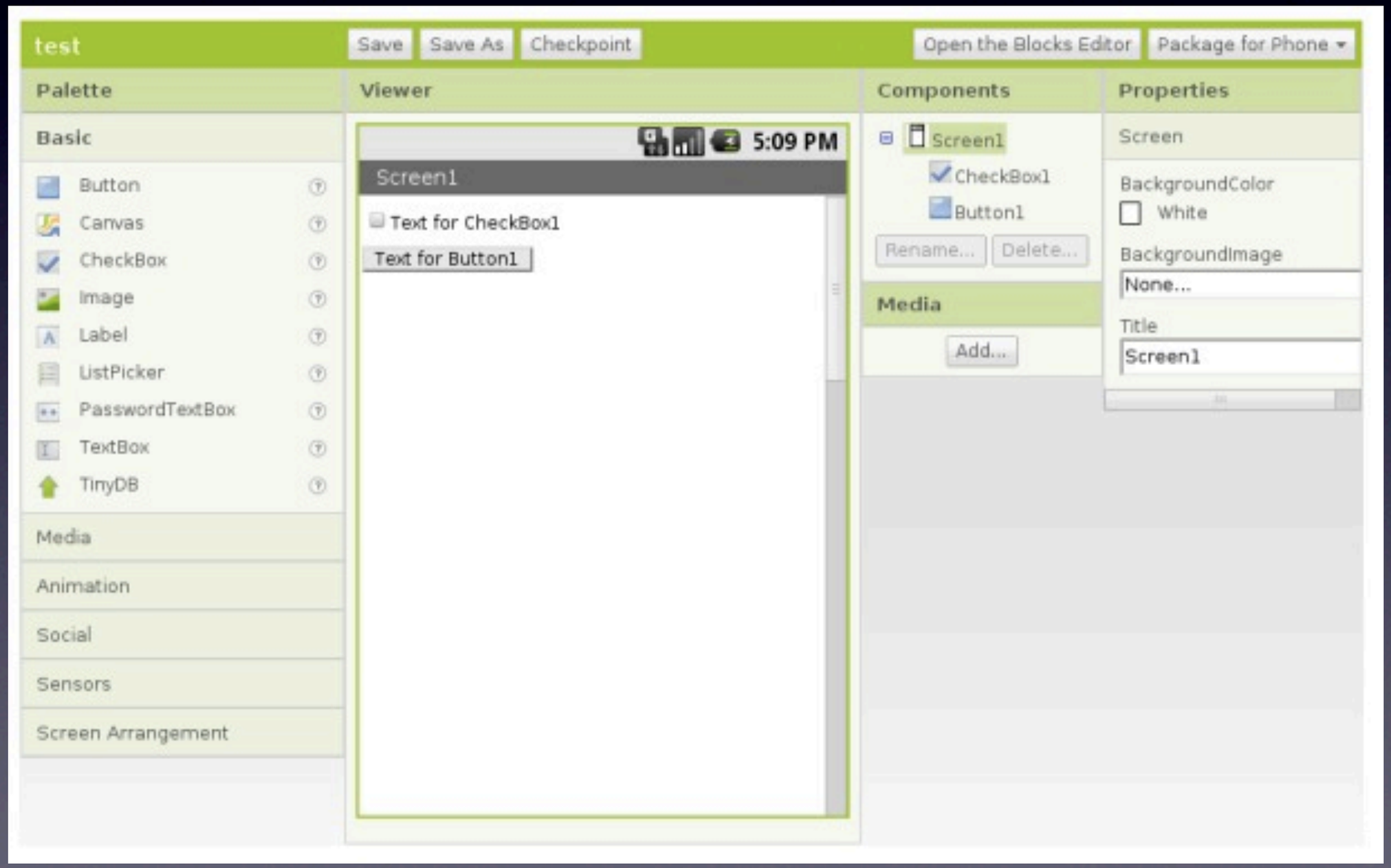


Herramientas de desarrollo



Programar Apps fáciles

http://appinventor.googlelabs.com



Quieres ganar $100,000

http://code.google.com/android/adc/

Ligas donde descargar

- http://developer.android.com
- http://www.eclipse.org/
- http://appinventor.googlelabs.com

DEMO

GRACIAS

¿Preguntas?