

Ecosistema Android

10 de Agosto de 2012
CC4010



Agenda

- CursorLab
- Versiones de Android
- Herramientas
 - Android SDK
 - Eclipse
 - Hello World, revisited
- Ejemplos

CursorLab

TORNEO DE APLICACIONES MÓVILES 3.0



NEXUS 7



NEXUS Q



GALAXY NEXUS

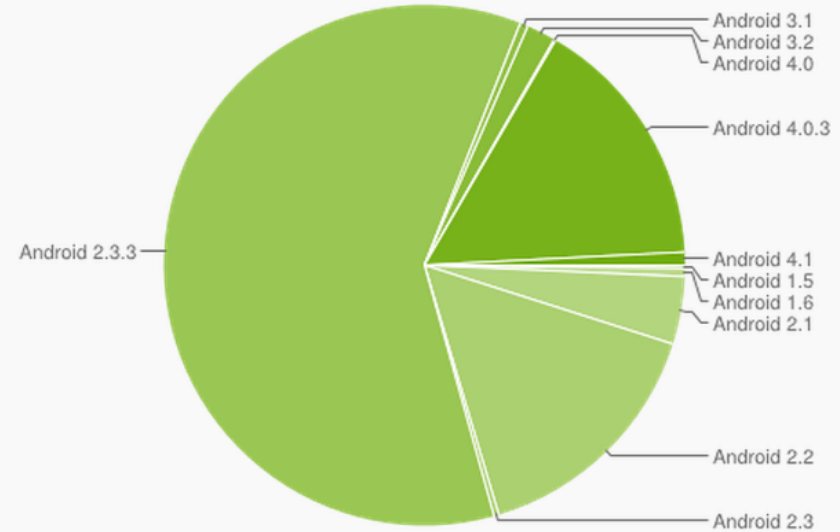
kit de desarrollo google al 1,2 y 3 lugar.

inscríbete hasta el 15 de Agosto del 2012



Versiones de Android

Version	Codename	API Level	Distribution
1.5	Cupcake	3	0.2%
1.6	Donut	4	0.5%
2.1	Eclair	7	4.2%
2.2	Froyo	8	15.5%
2.3 - 2.3.2	Gingerbread	9	0.3%
2.3.3 - 2.3.7		10	60.3%
3.1	Honeycomb	12	0.5%
3.2		13	1.8%
4.0 - 4.0.2	Ice Cream Sandwich	14	0.1%
4.0.3 - 4.0.4		15	15.8%
4.1	Jelly Bean	16	0.8%



Data collected during a 14-day period ending on August 1, 2012

<http://developer.android.com/about/dashboards/index.html>

API Levels

Versión	API	Nombre
1.0	1	Android
1.1	2	Android
1.5	3	Cupcake
1.6	4	Donut
2.0	5	Eclair
2.0.1	6	Eclair
2.1	7	Eclair
2.2	8	Froyo
2.3	9	Gingerbread
2.3.3	10	Gingerbread
3.*	11,12,13	Honeycomb
4.0, 4.0.3	14,15	Ice Cream Sandwich
4.1	16	Jelly Bean

Gingerbread, Honeycomb, ICS,... !?

- Gingerbread hacia abajo para smartphones
- Honeycomb exclusivo para tablets
- ICS, JB para ambos



Android™ Architecture

APPLICATIONS

Home

Contacts

Phone

Browser

...

APPLICATION FRAMEWORK

Activity Manager

Window Manager

Content Providers

View System

Package Manager

Telephony Manager

Resource Manager

Location Manager

Notification Manager

LIBRARIES

Surface Manager

Media Framework

SQLite

OpenGL | ES

FreeType

WebKit

SGL

SSL

libc

ANDROID RUNTIME

Core Libraries

Dalvik Virtual Machine

LINUX KERNEL

Display Driver

Camera Driver

Flash Memory Driver

Binder (IPC) Driver

Keypad Driver

WiFi Driver

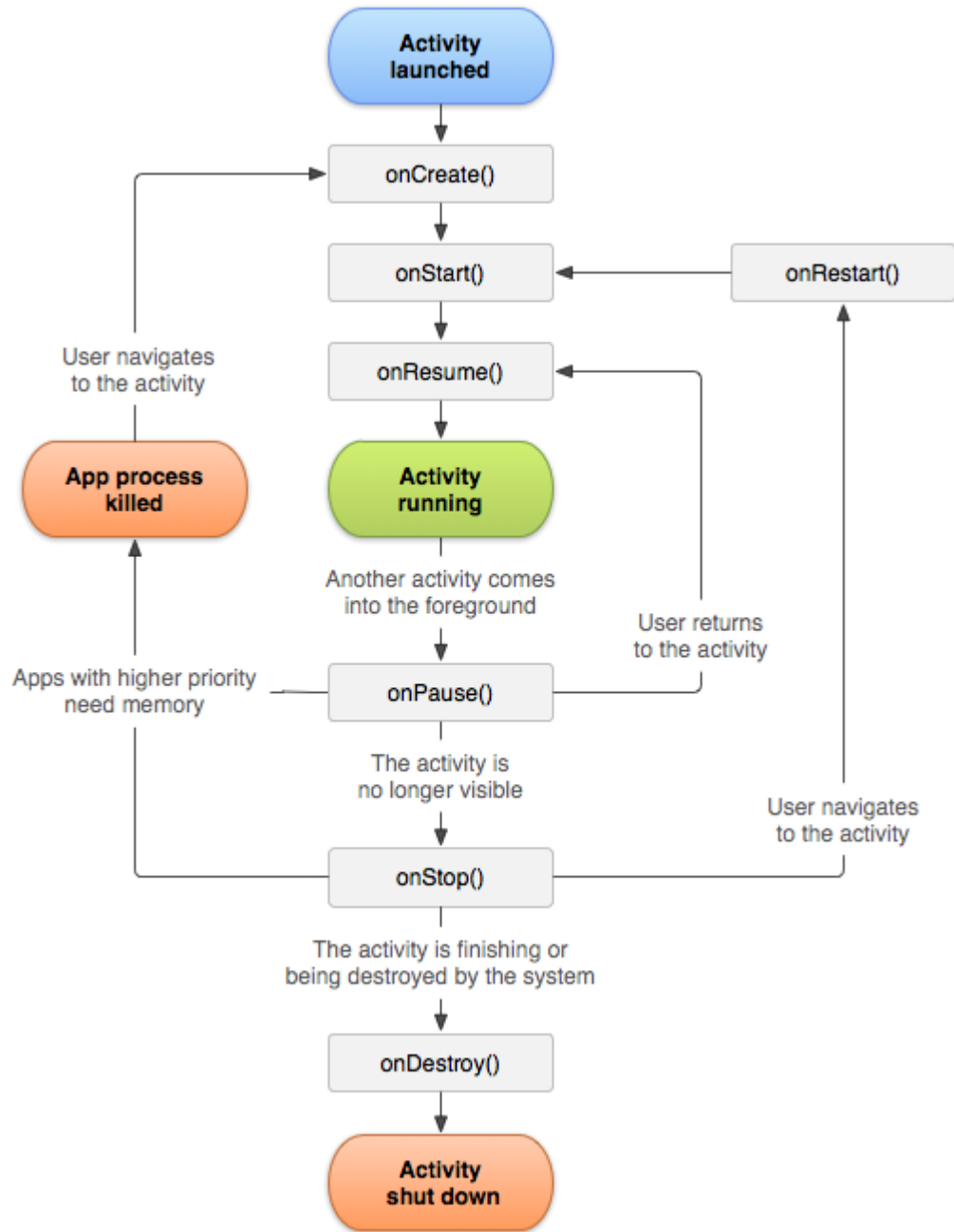
Audio Drivers

Power Management

Herramientas

- Android SDK
- Eclipse
- AVD's
- Logcat

Activities Lifecycle



Tarea D:

- **Easy:** Hacer una calculadora que sume y reste enteros.
- **Medium:** Implementar la división y que muestre un mensaje de error al tratar de dividir por 0.
- **Medium*:** Agregar un botón Share que comparta el resultado de una operación en twitter, facebook, etc.

Enlaces útiles!

- Android Developer
<http://developer.android.com/index.html>
- Tutorial de Android en video
<http://www.youtube.com/playlist?list=PLE08A97D36D5A255F>
- Android cookbook
<http://androidcookbook.com/home.seam>
- Ejemplos de patrones de interfaz de usuario
<https://plus.google.com/u/0/115177579026138386092/posts/PSkxzcN7U1J>