

andROID

INTRODUÇÃO AO DESENVOLVIMENTO MÓVEL



MARLON ANDRADE

ANALISTA @ PRODOCTOR

MARLONMANDRADE@GMAIL.COM

GITHUB.COM/MARLONANDRADE

@EMIEMIA



The image shows two mobile devices (an iPhone and an iPad) displaying the ProDoctor software interface.

iPad Screen (Top):

- Carrier:** [Carrier icon] WiFi
- Time:** 10:02 AM
- Battery:** 100%
- Section:** Agenda
- List of Appointments:**
 - 08:00 Dia Útil - Sexta ATENDIDO: 09:56 CÍNTIA HERINGER BRUGGER
 - 08:30 EXAME FÁBIO GOMES DA SILVA
 - 09:00 COMPARECEU: 09:56 FABRICIA PEREIRA DA COSTA ARAUJO
 - 09:30 COMPARECEU: 09:57 PEDRO EDUARDO CARDOSO
 - 10:00 ATRASADO GISELE ROCHA CAMPOS
 - 10:30 ATENDIDO: 09:57 SANDRA DOS SANTOS SILVA
 - 11:00 CONFIRMADO THIAGO GOMES DE SA
 - 11:30 WANDA SOUZA
 - 14:00
- Calendar:** Maio de 2012
 - Dom Seg Ter Qua Qui Sex Sab
 - 29 30 1 2 3 4 5
 - 6 7 8 9 10 11 12
 - 13 14 15 16 17 18 19
 - 20 21 22 23 24 25 26
 - 27 28 29 30 31 1 2
 - 3 4 5 6 7 8 9

iPhone Screen (Bottom):

- Carrier:** [Carrier icon] WiFi
- Time:** 10:01 AM
- Battery:** [Battery icon]
- ProDoctor Logo:**
- User Information:** ANA LUIZA GUIMARÃES ROSA
- Text Input:** Senha
- Button:** Entrar ➔

BEFORE GETTING
STARTED!



MOBILE?



MOTIVAÇÃO?



EXPECTATIVAS?



VERSÕES?



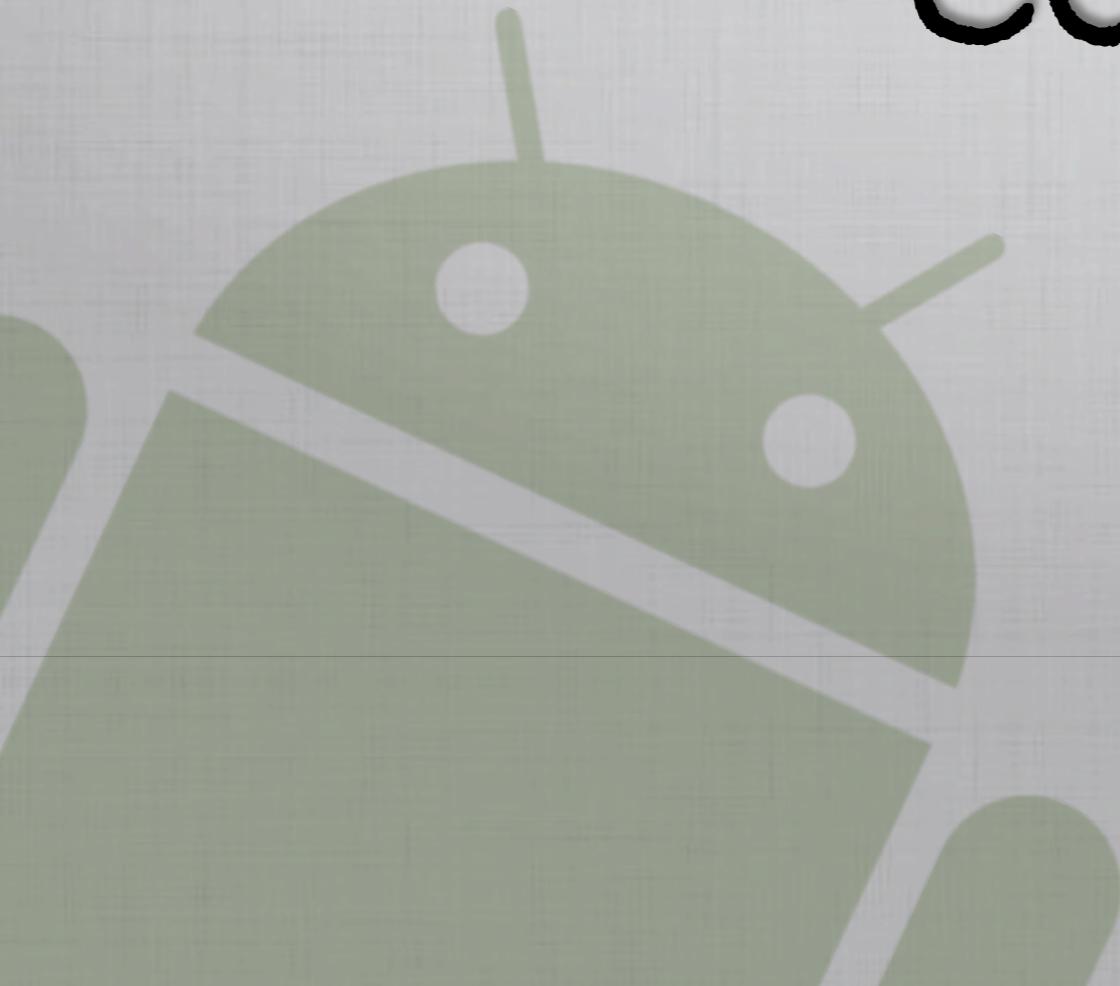
FORMATO DO CURSO



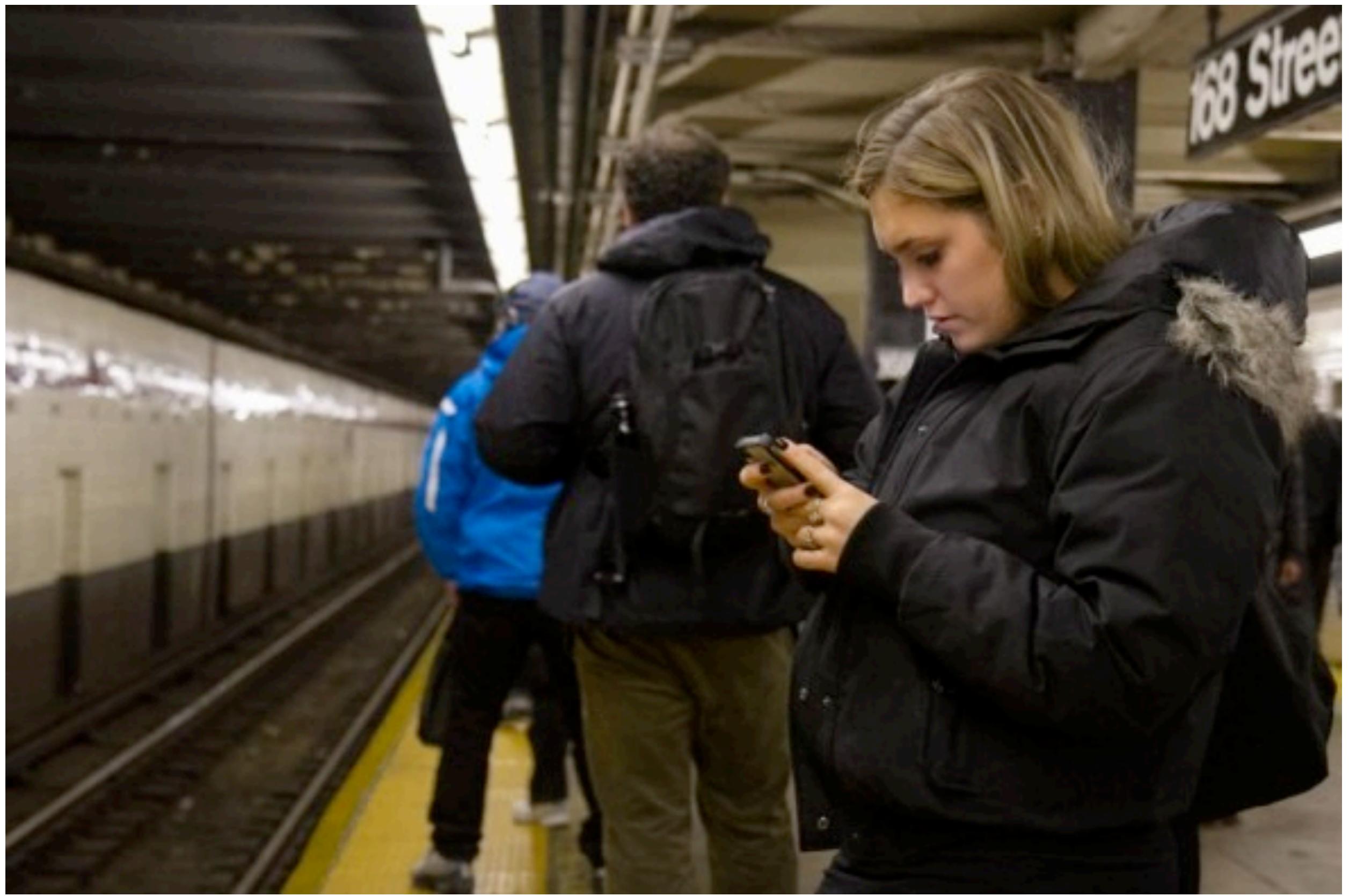
DESENVOLVIMENTO MOBILE



CONTEXTO









<https://images.nonexiste.net/popular/wp-content/uploads/2012/03/macbook-iphone-kindle-ipod-book-nyc-subway.jpeg>

<http://farm2.staticflickr.com/>

1130/5119681522_80d58ddd1c.jpg





<http://www.flickr.com/photos/albedo20/3214771572>



<http://www.flickr.com/photos/albedo20/3214776068>

Baeth

RE PROJEICHL

JEL
Schotz

30
ZONE

Holthausen
Holzverarbeitung
www.holthausen.de
0221-94381630

K·MS 2211

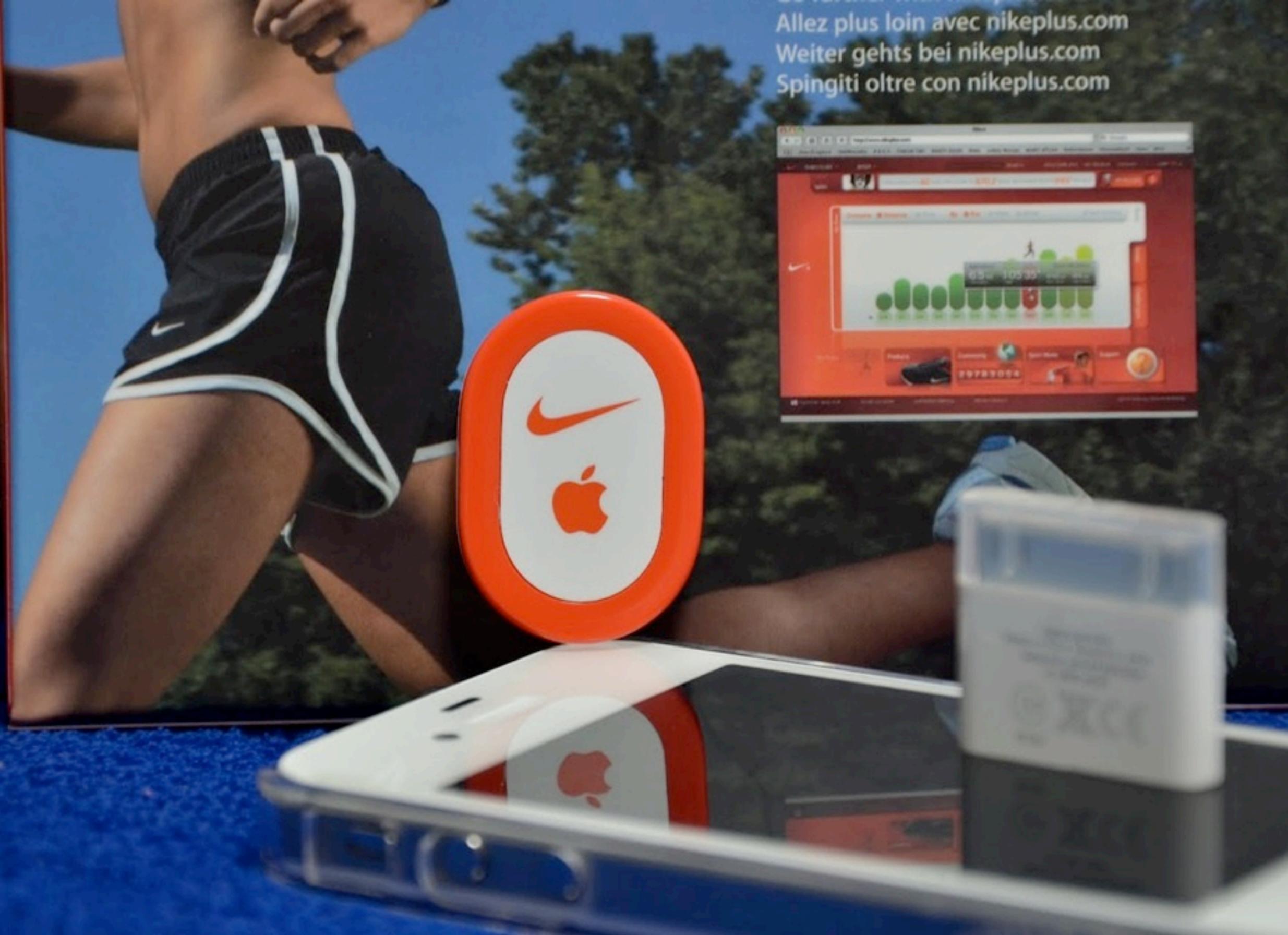
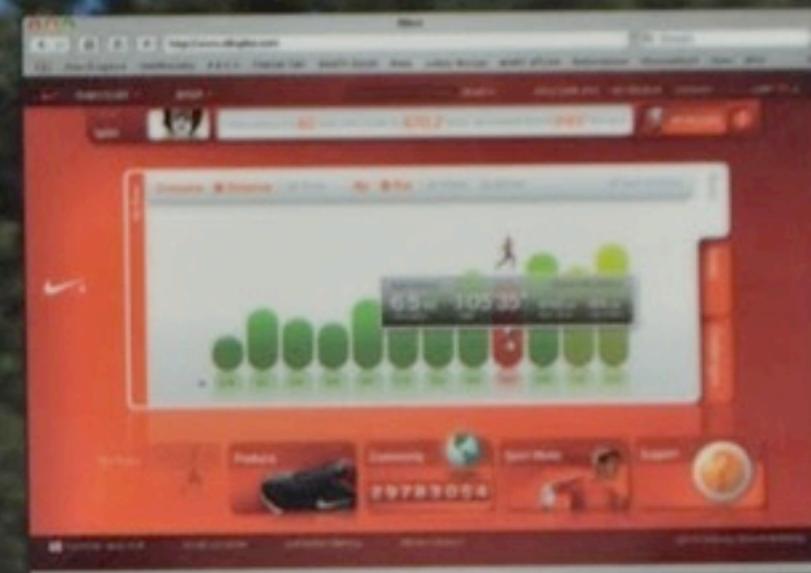


<http://www.flickr.com/photos/32615508@N02/3047982712>

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2011/06/17_zack_playing_with_an_ipad.jpg](http://mlblogssnaggingbaseballs.files.wordpress.com/2011/06/17_zack_playing_with_an_ipad.jpg)

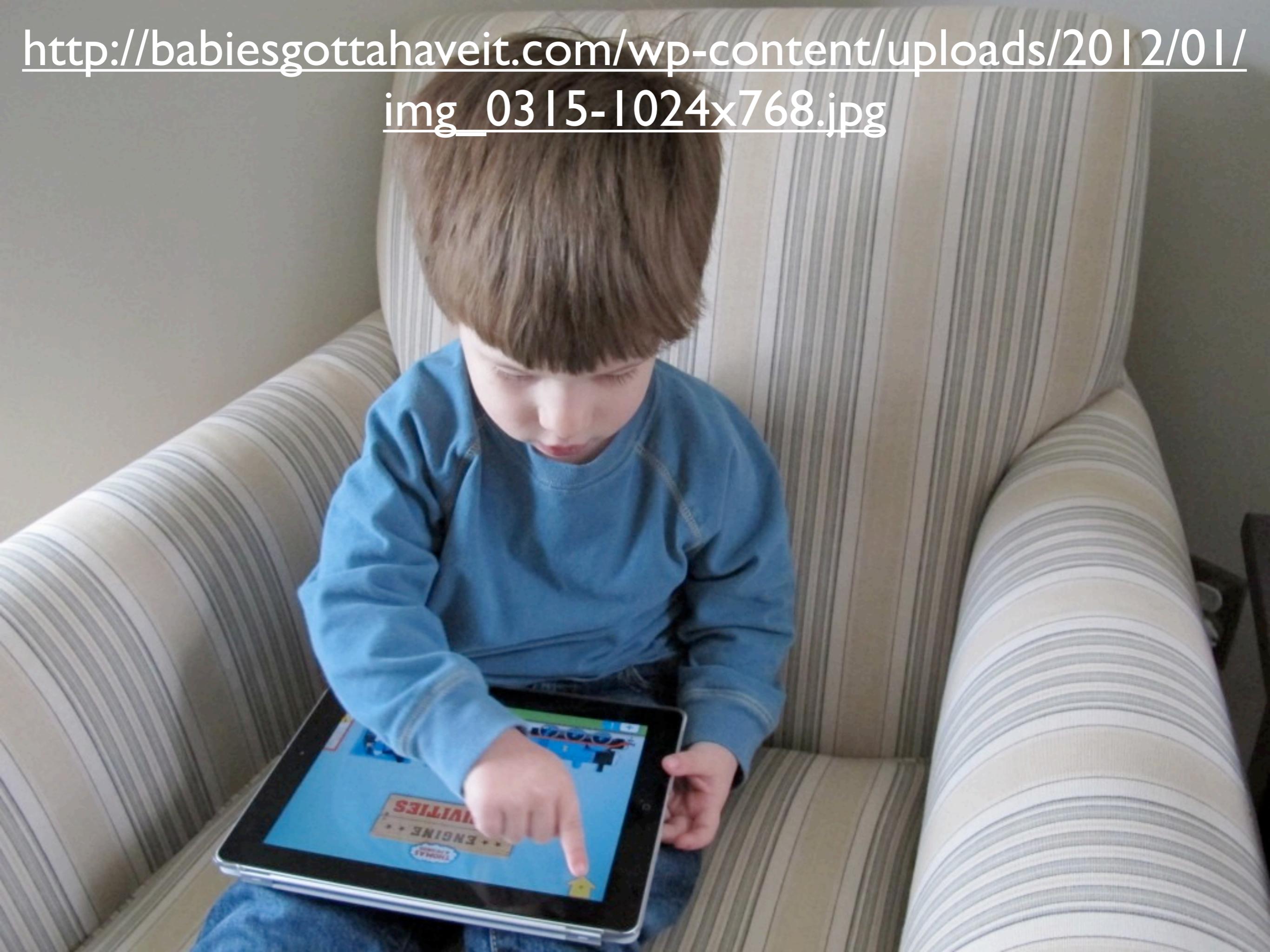


Allez plus loin avec nikeplus.com
Weiter gehts bei nikeplus.com
Spingiti oltre con nikeplus.com



http://4.bp.blogspot.com/-E3vwKoWTTEg/TxIr7fSPCfl/AAAAAAAABP8/i_-mZKyalKI/s1600/CGC_5009a.jpg

[http://babiesgottahaveit.com/wp-content/uploads/2012/01/
img_0315-1024x768.jpg](http://babiesgottahaveit.com/wp-content/uploads/2012/01/img_0315-1024x768.jpg)





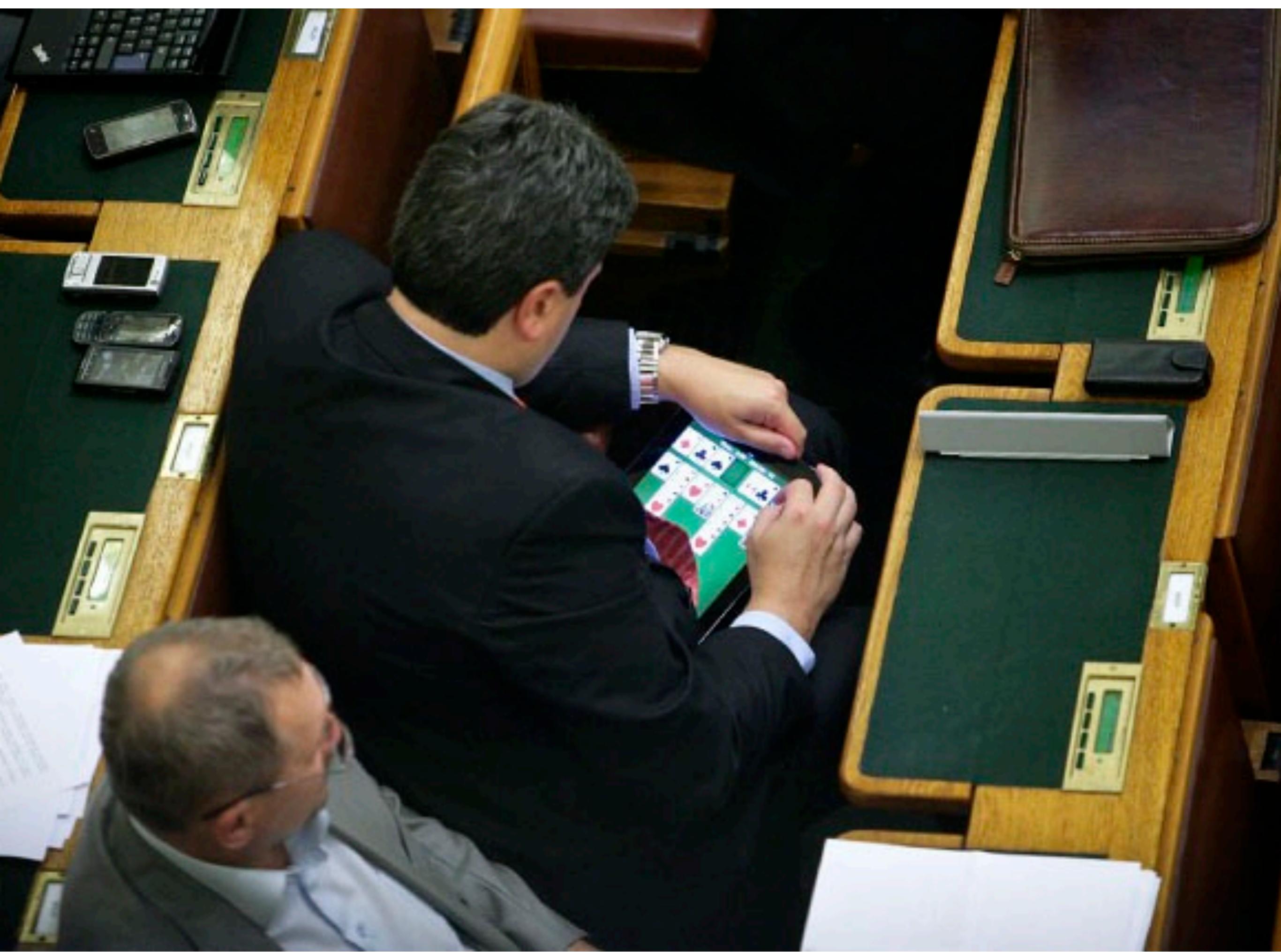
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<http://www.armytimes.com/xml/news/2011/12/army-expects-to-field-smartphones-next-year-122911/122911-army-smartphone-800.JPG>



<http://farm8.staticflickr.com/>
7240/7206696356 ab7de3dfce b.jpg





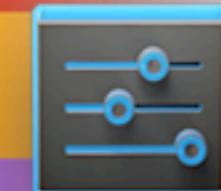
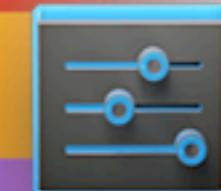




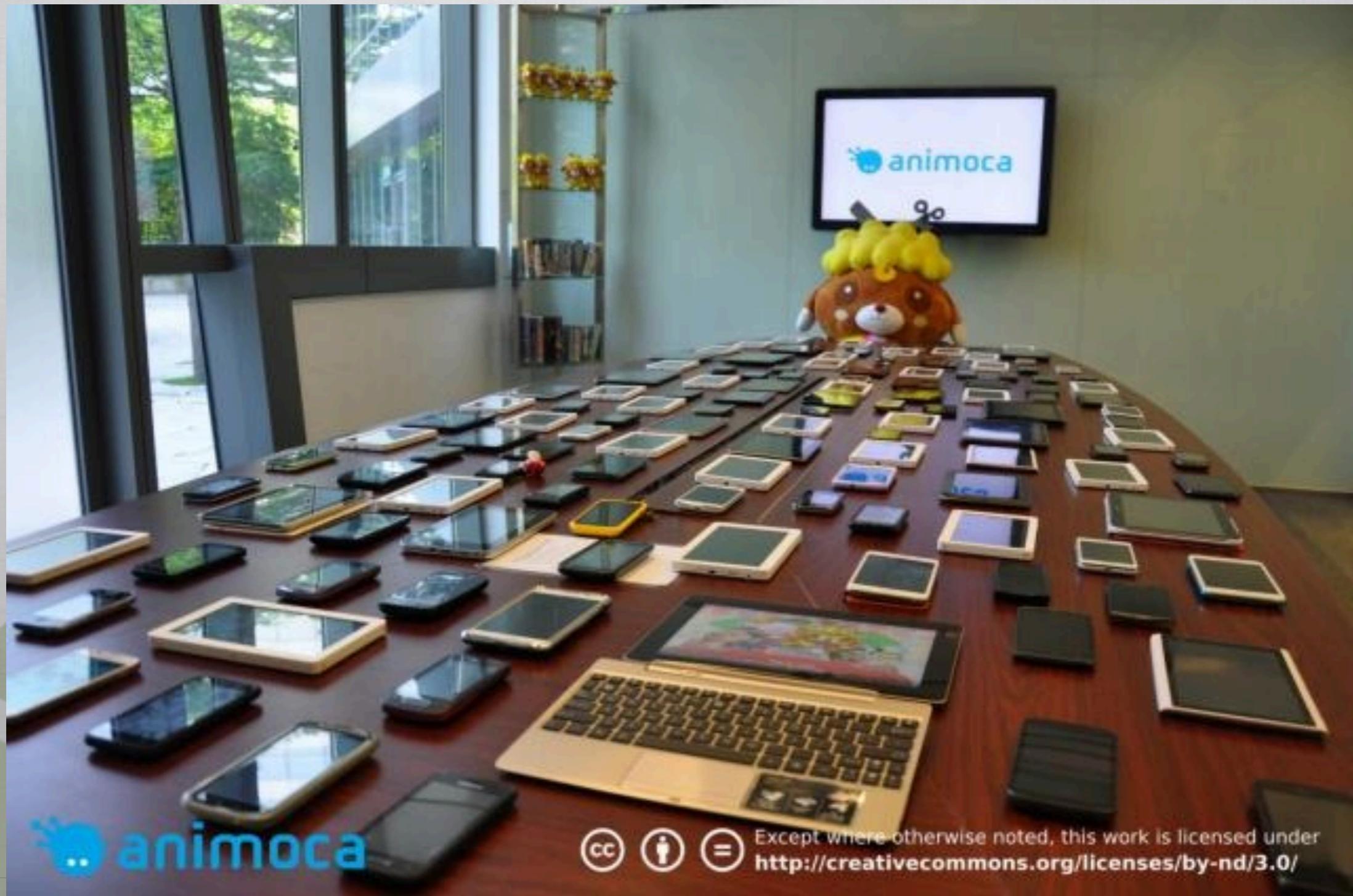
3



12







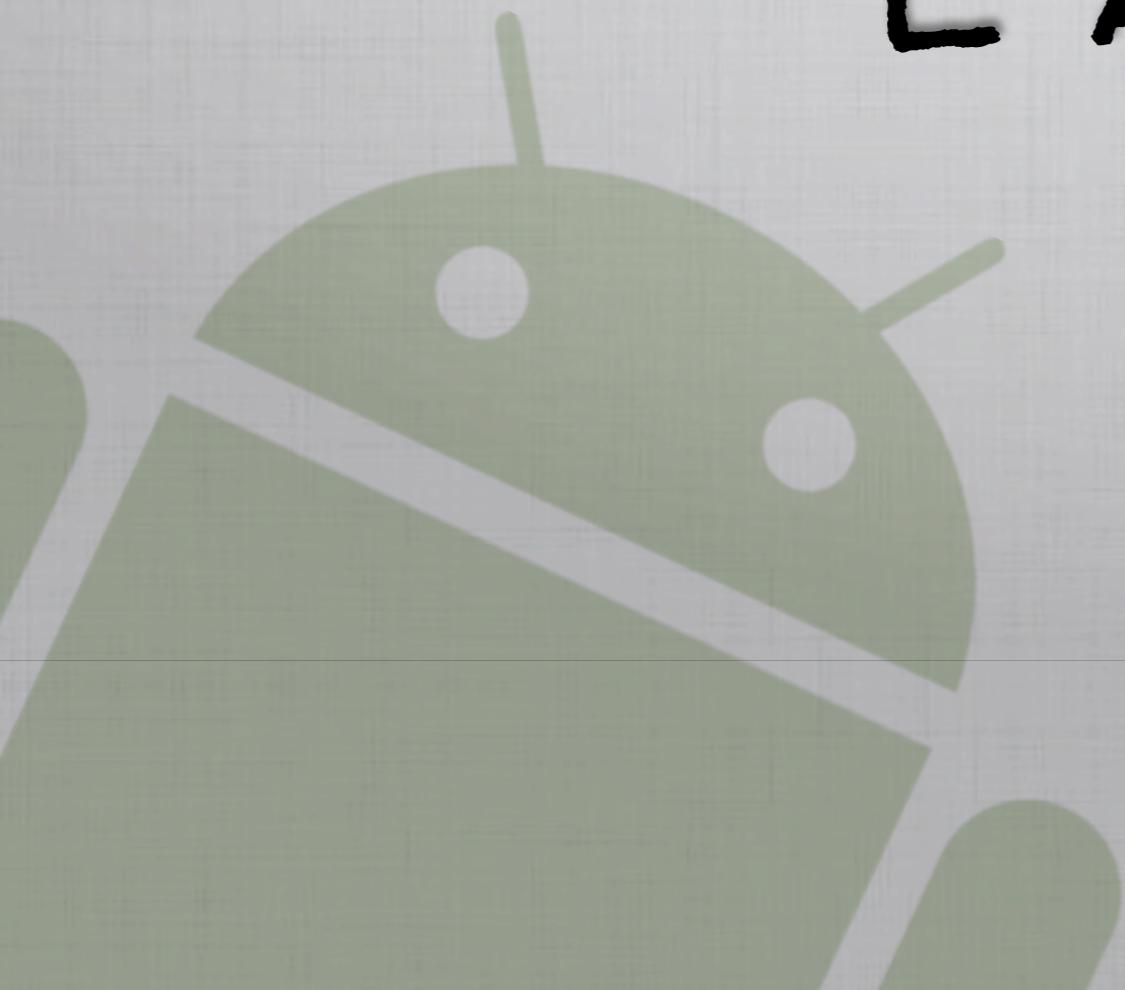
 animoca



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E AGORA?



FLEXIBILIDADE



METRICS

PHONE



TABLET

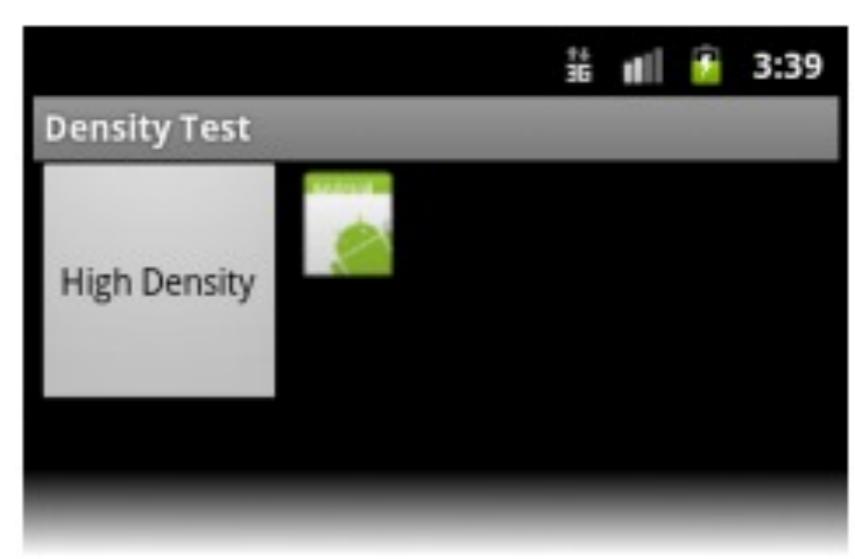
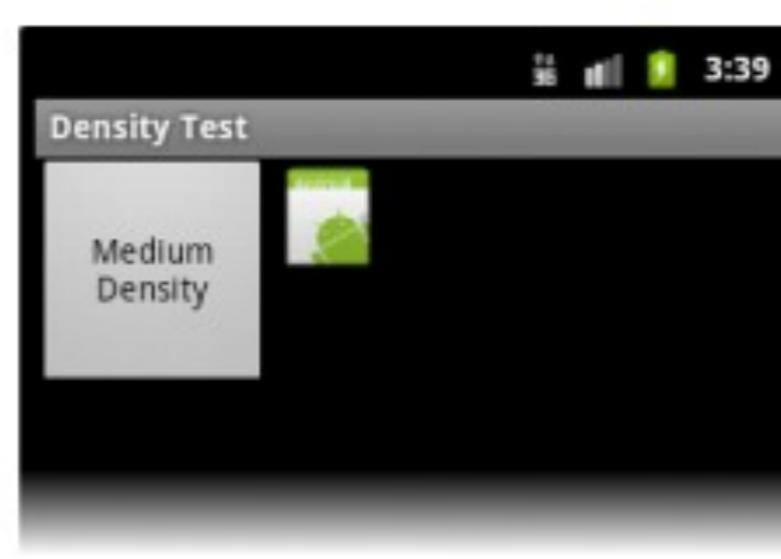
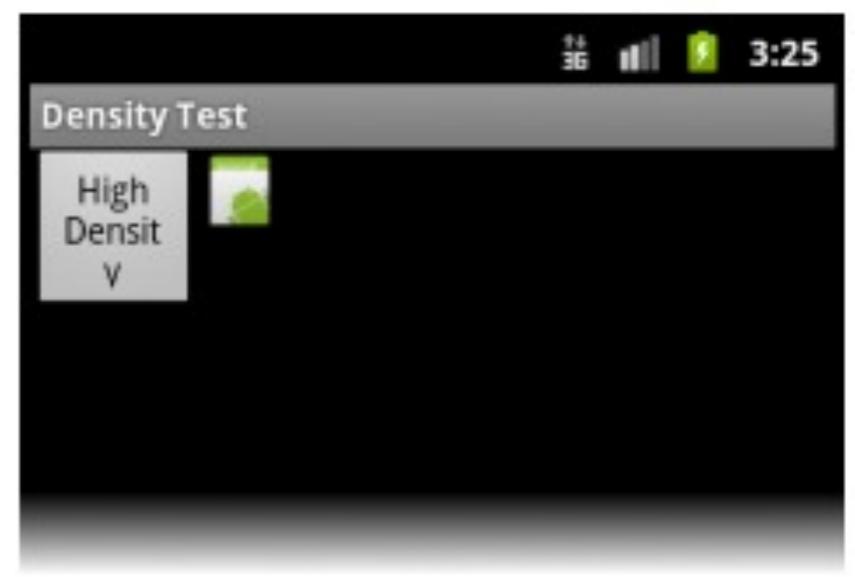
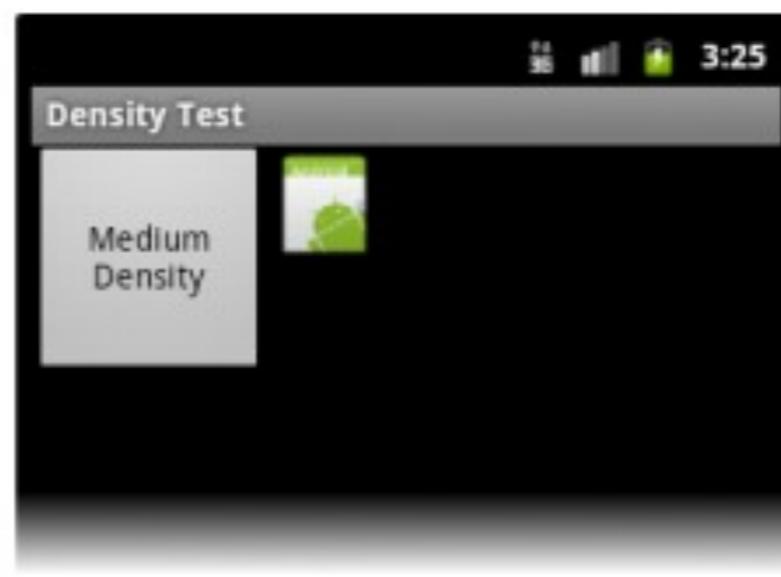


SCREEN SIZES AND DENSITIES

Densities

Sizes

	ldpi	mdpi	hdpi	xhdpi
small	1,7%		1,3%	
normal	0,4%	12,9%	57,5%	18,0%
large	0,2%	2,9%		
xlarge		5,1%		



48DP



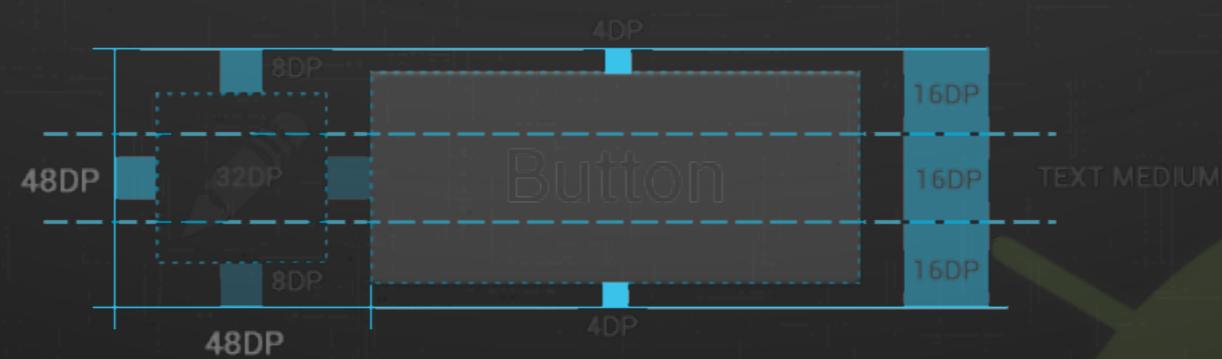
48

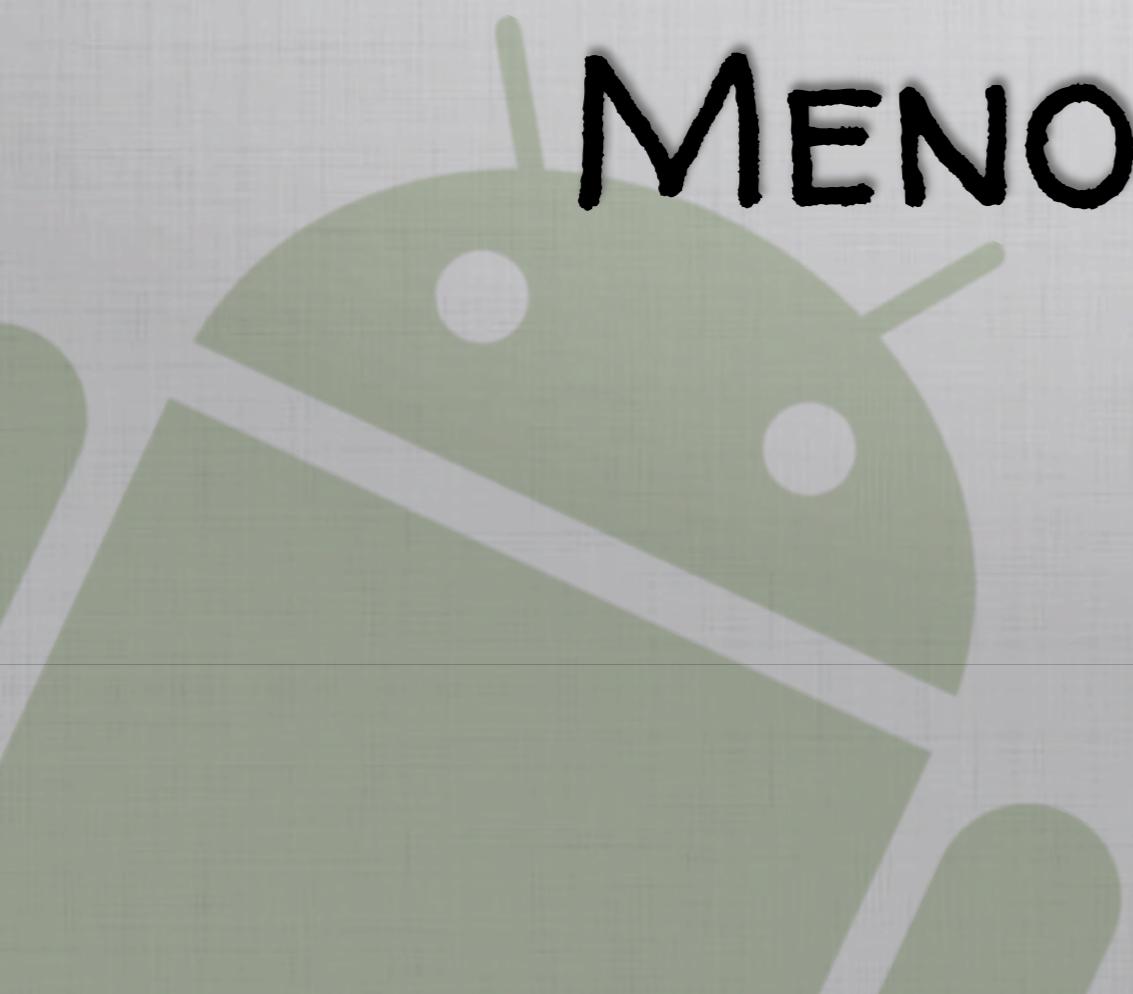
Medium title

single line item with avatar + text

Single list item

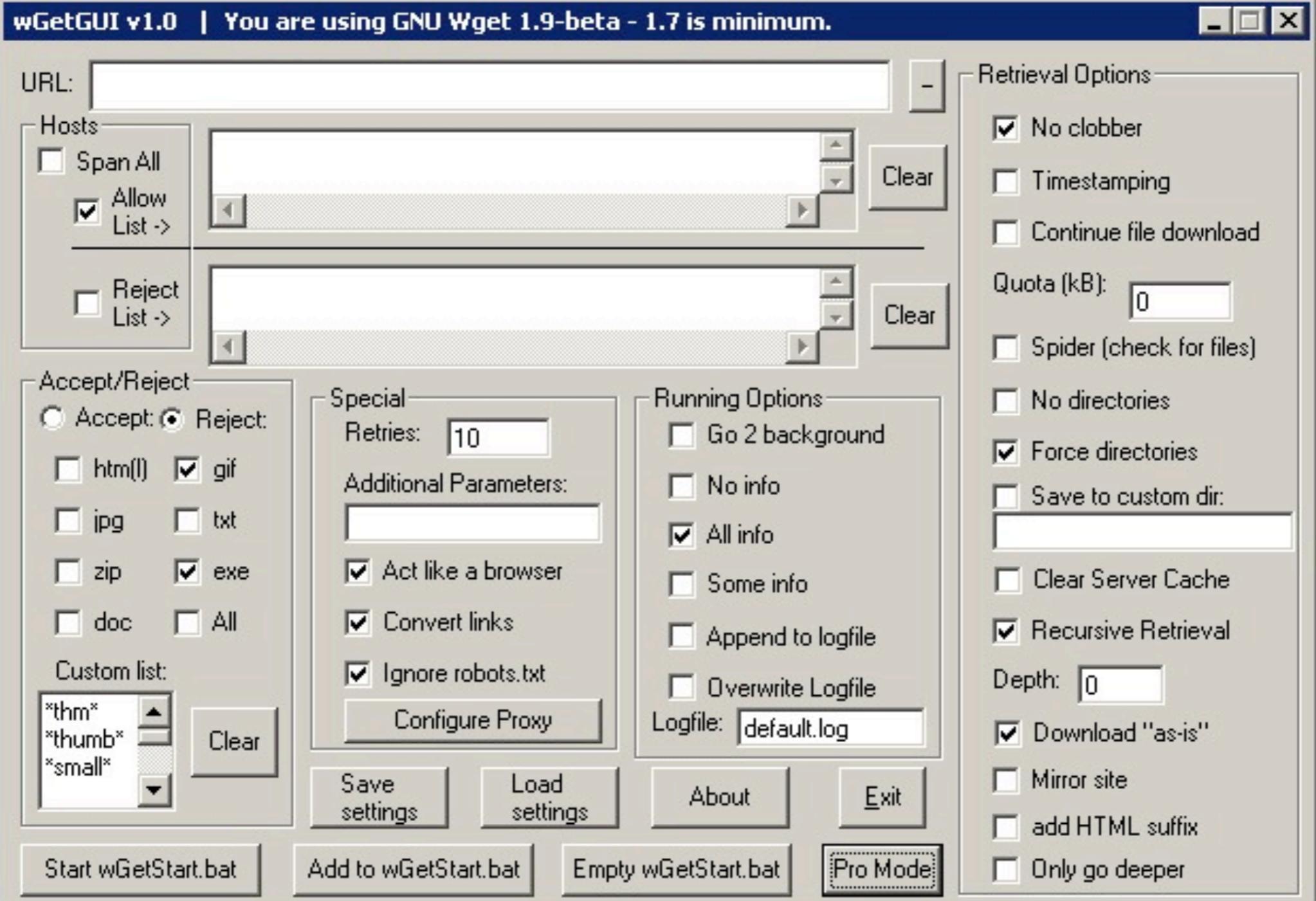
single line item with text





MOBILE

MENOS == MAIS



AT&T 4:53 PM

Today Yesterday Other Car #1

Distance:

Type:

Business

Charity

Medical

Other

Destination: Apple Cupertino

Purpose: Consulting

Frequent Trips:

+ Edit

\$ Spent

Post Office (3.2)
FedEx (4.4)
Fry's Electronics (20.7)
Santa Clara Valley Audubon (6.7)

Save Data Clear

Latest:

Date	Distance	Destination
6/18/08	20.7	Fry's Electronics
6/19/08	5.5	Dentist
6/20/08	3.2	Post Office

Next >

@ 7:47 PM

TWEET TIMELINE: 140

Your status goes here

Hide Status Bar

tmonews 1 hour 29 minutes ago ★
Touchwiz upgrade details come out,
Behold owners jump for Joy!
<http://tinyurl.com/at9ez4>
via web

xSEANxLONGx 3 hours 38 minutes ago ★
Here Is My Valentines Day Parody of
The Notebook with the Joker! ENJOY!
<http://tinyurl.com/dye57c> Why So
SEXY?
via web

xSEANxLONGx 6 hours 48 minutes ago ★
To All My Followers My Bros are just
being Funny Boys will be Boys Us
Nerds are taking over Twitter like
Youtube & Blogtv :)
via web

tanimoto 7 hours 28 minutes ago ★
 4th St Ⓜ T-80



Transactions

Today

500 370 130

Gambling	21:21	500
Alcohol	21:21	50
Movies	21:19	200
Alcohol	21:17	120

Home

Graph

Table

ABC

New Transaction

Amount

Balance: 1,000

+ Enter amount

Choose category

€ \$

7 8 9 +

4 5 6 -

1 2 3

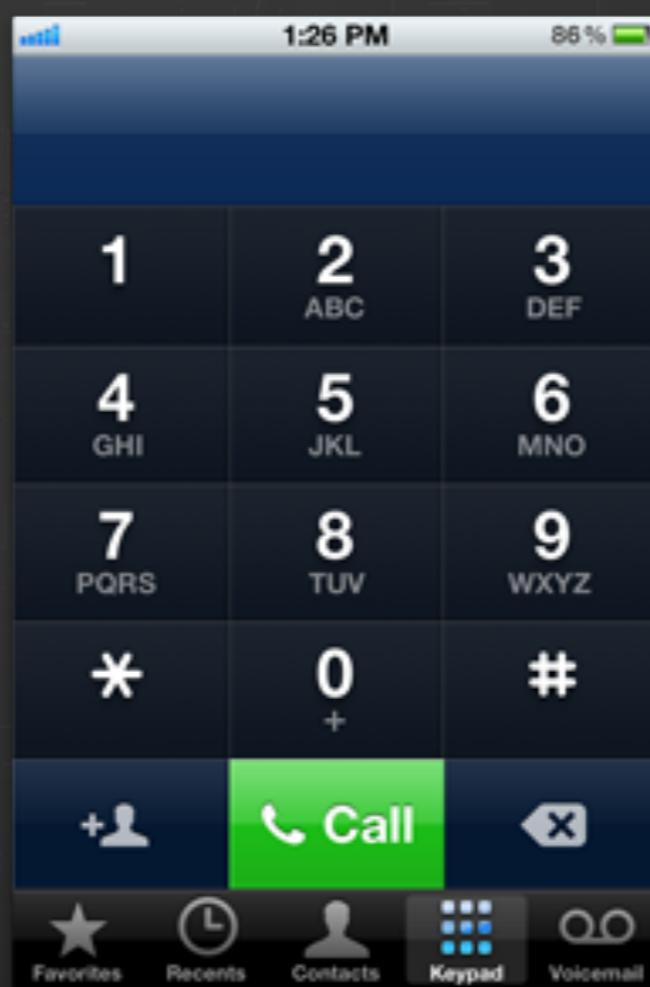
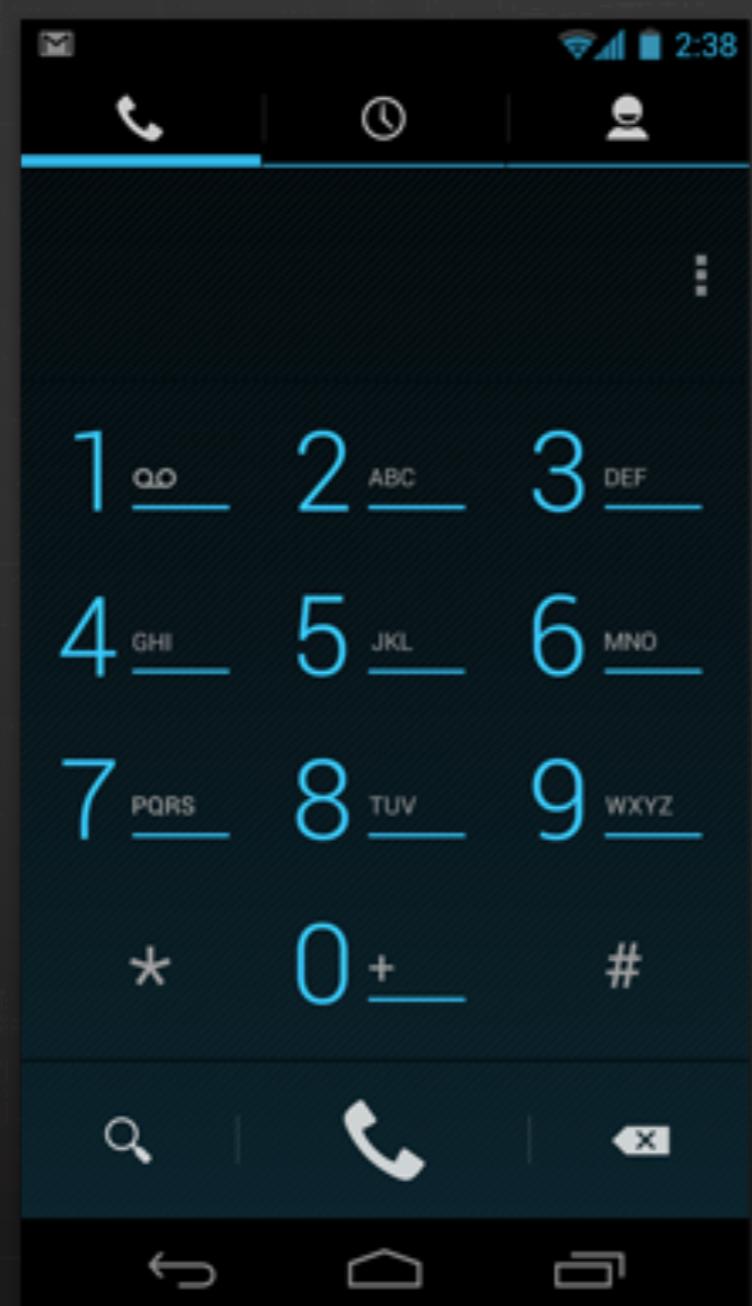
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0

DONE

PURE ANDROID







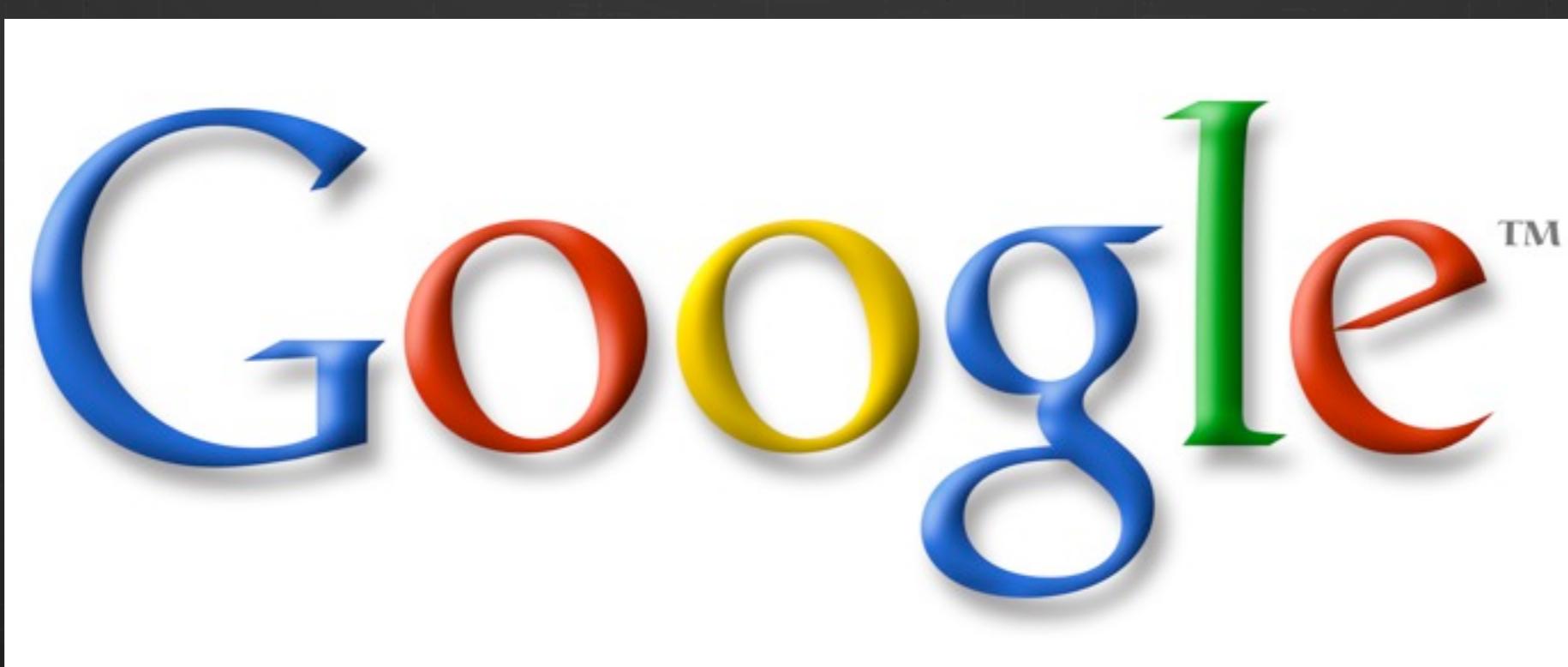
anDROID



HISTÓRIA

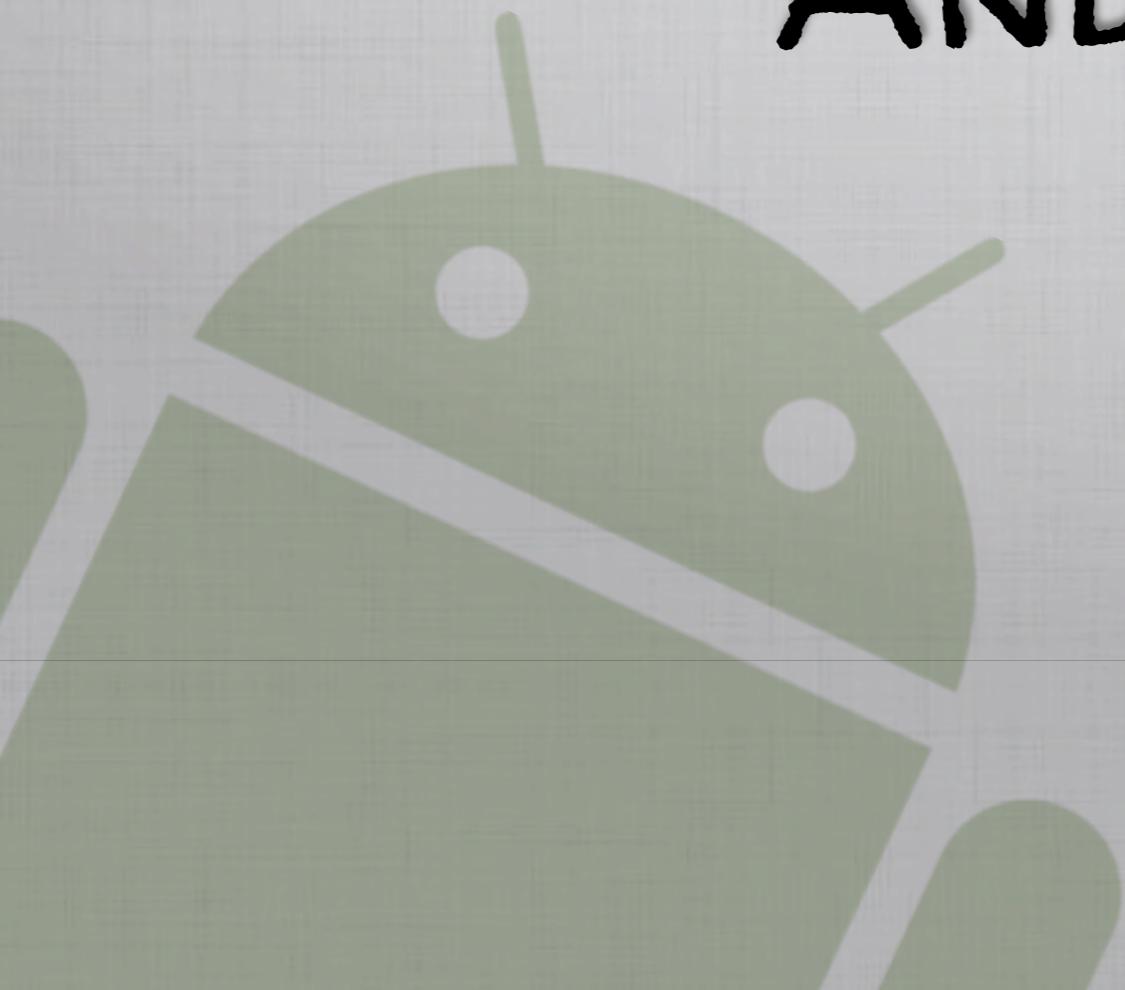


2005



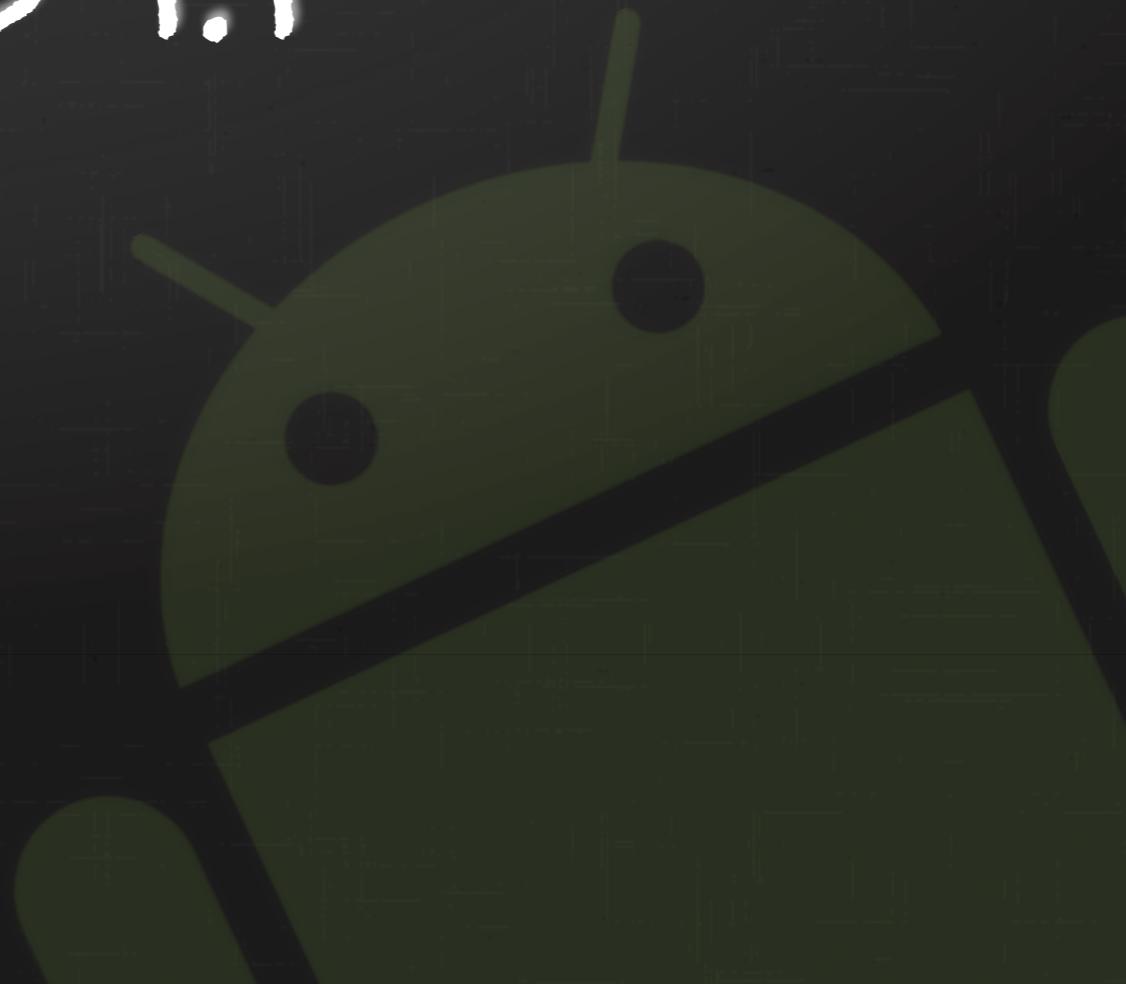
2008

ANDROID 1.0



2009, FEV

ANDROID 1.1



2009, ABR

ANDROID 1.5

CUPCAKE



2009, SET

ANDROID 1.6

DONUT



2009, OUT

ANDROID 2.0/2.1

ÉCLAIR



2010, MAR

ANDROID 2.2.x

FROYO



2010, DEZ

ANDROID 2.3.x
GINGERBREAD



2011, FEV

ANDROID 3.X
HONEYCOMB



2011, OUT

ANDROID 4.0.x

ICE CREAM SANDWICH



2012, JUN

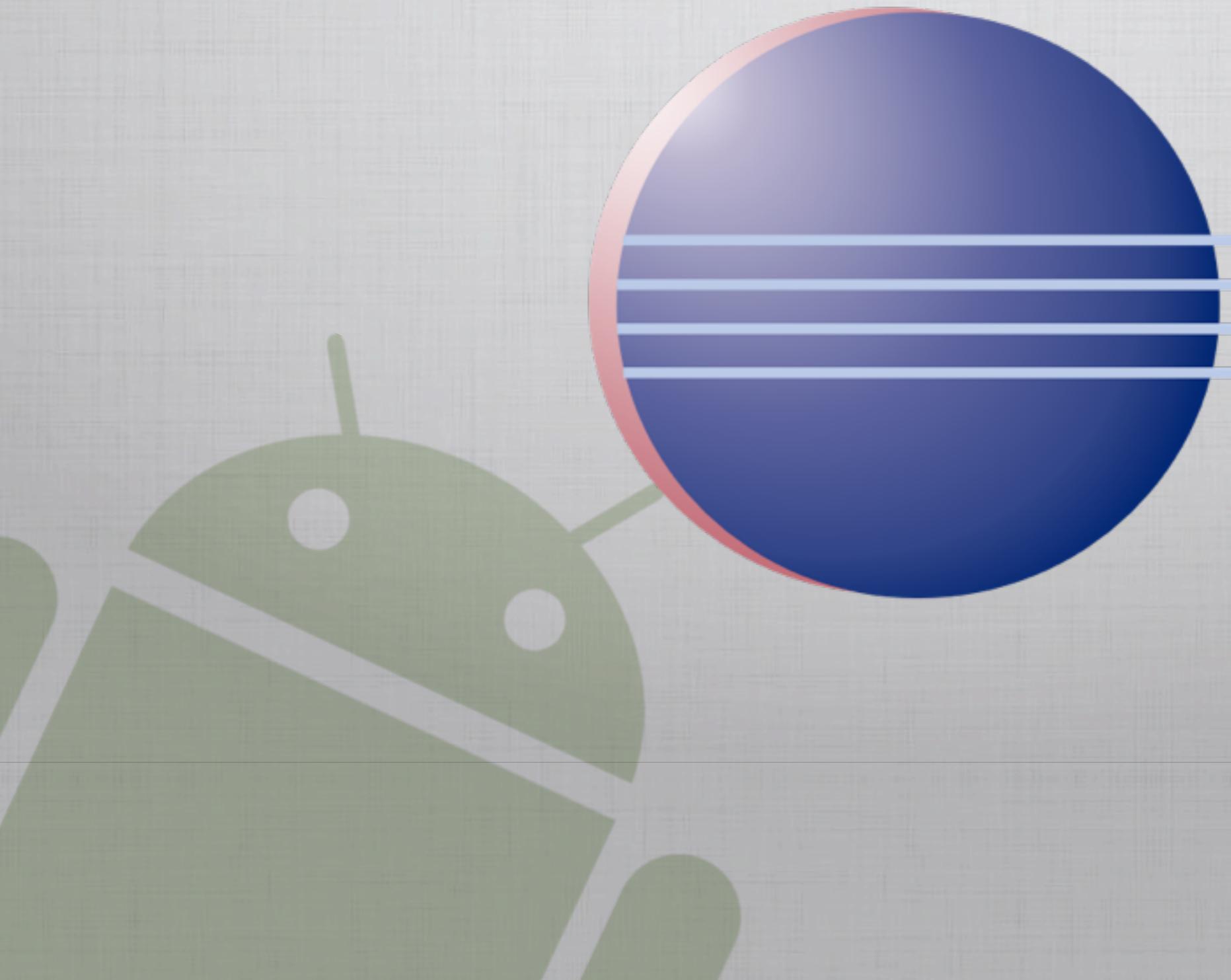
ANDROID 4.1
JELLY BEAN



FERRAMENTAS







Android SDK Manager

SDK Path: C:\Program Files (x86)\Android\android-sdk

JayceOoi.com

Packages

Name	API	Rev.	Status
Tools			
Android SDK Tools	15		Installed
Android SDK Platform-tools	9		Installed
Android 4.0 (API14)			
Documentation for Android SDK	14	1	Installed
SDK Platform	14	1	Installed
Samples for SDK	14	1	Installed
ARM EABI v7a System Image	14	1	Installed
Google APIs by Google Inc.	14	1	Installed
Android 3.2 (API13)			
Android 3.1 (API12)			
Android 3.0 (API11)			
Android 2.3.3 (API10)			
Android 2.2 (API8)			
Android 2.1 (API7)			
Android 1.6 (API4)			
Android 1.5 (API3)			
Extras			
Android Support package			Not installed
Google Admob Ads Sdk package			Not installed
Google Analytics Sdk package			Not installed
Google Market Billing package			Not installed
Google Market Licensing package			Not installed
Google USB Driver package	4		Installed
Google Webdriver package			Not installed

Show: Updates/New Installed Obsolete Select [New](#) or [Updates](#)

Sort by: API level Repository Deselect All

Install packages Delete packages

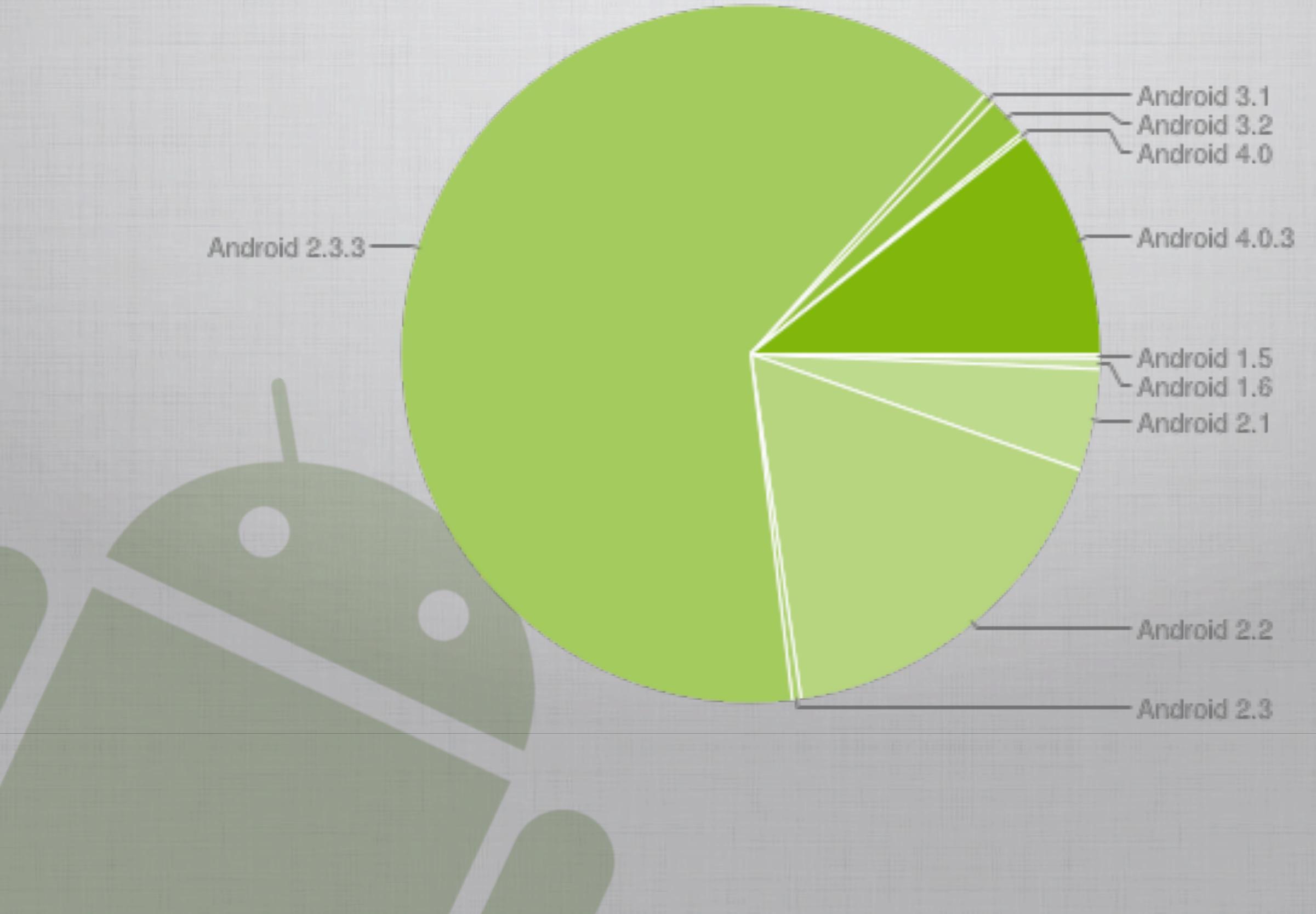
Done loading packages.

5554:duuuuurrerr



API 8
ANDROID 2.2

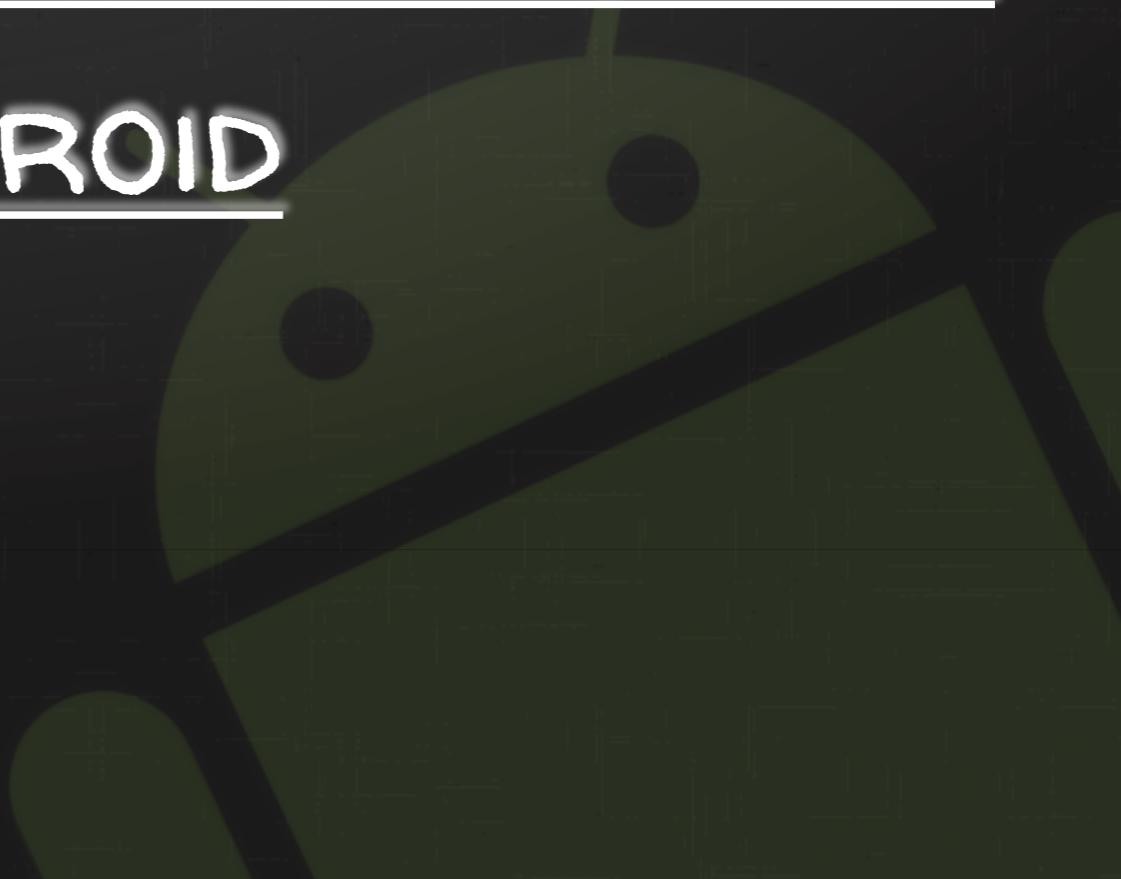




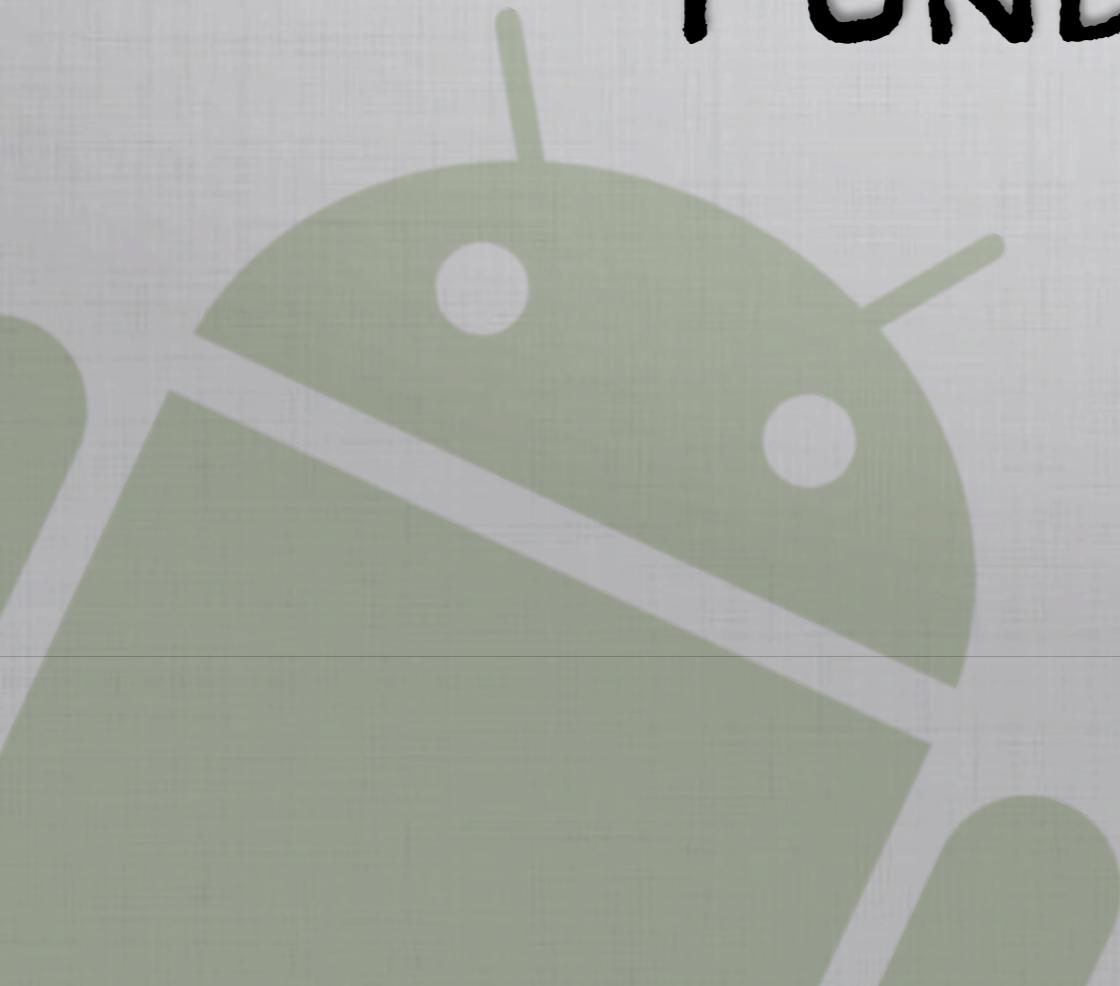
GITHUB

[HTTPS://GITHUB.COM/MARLONANDRADE/](https://github.com/marlonandrade/)

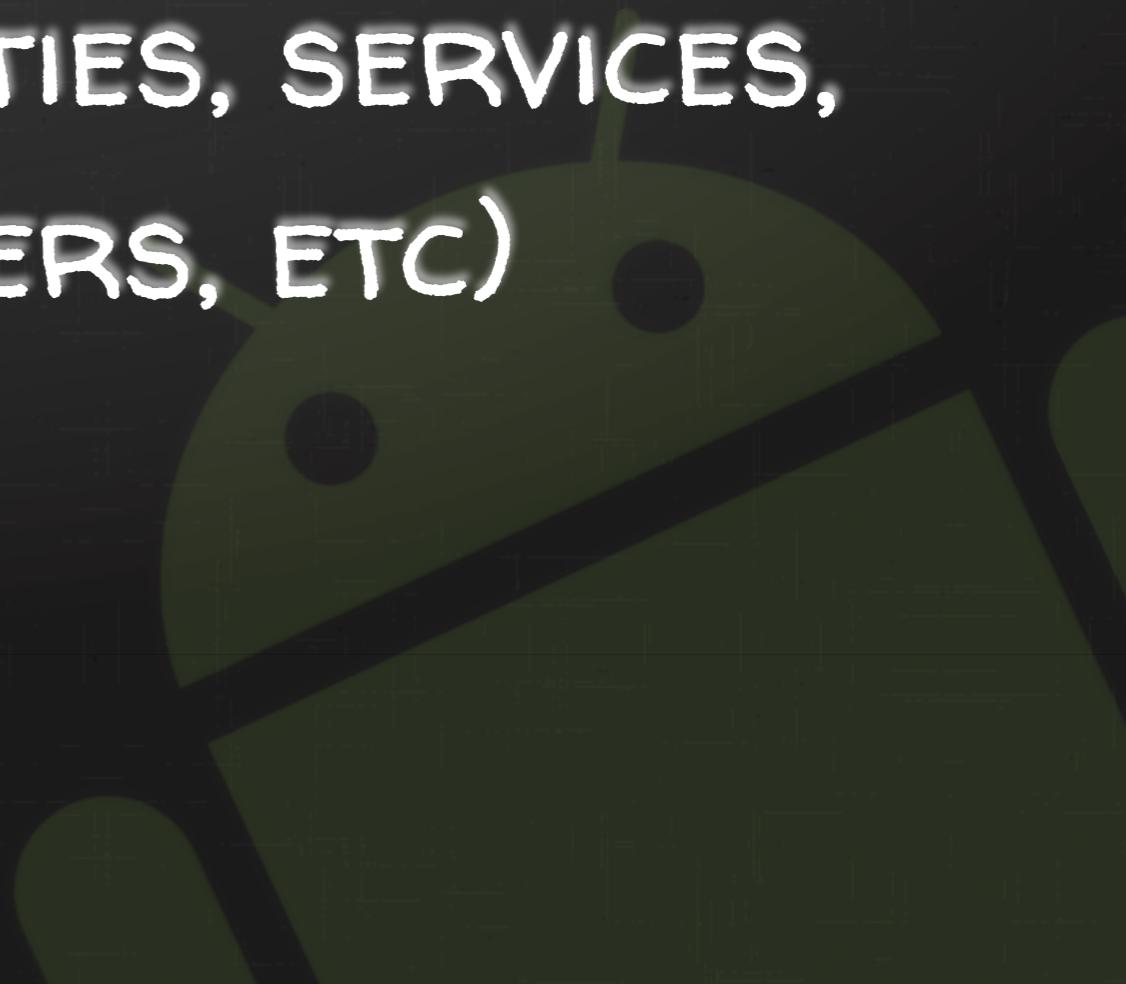
CURSO_ANDROID



FUNDAMENTOS



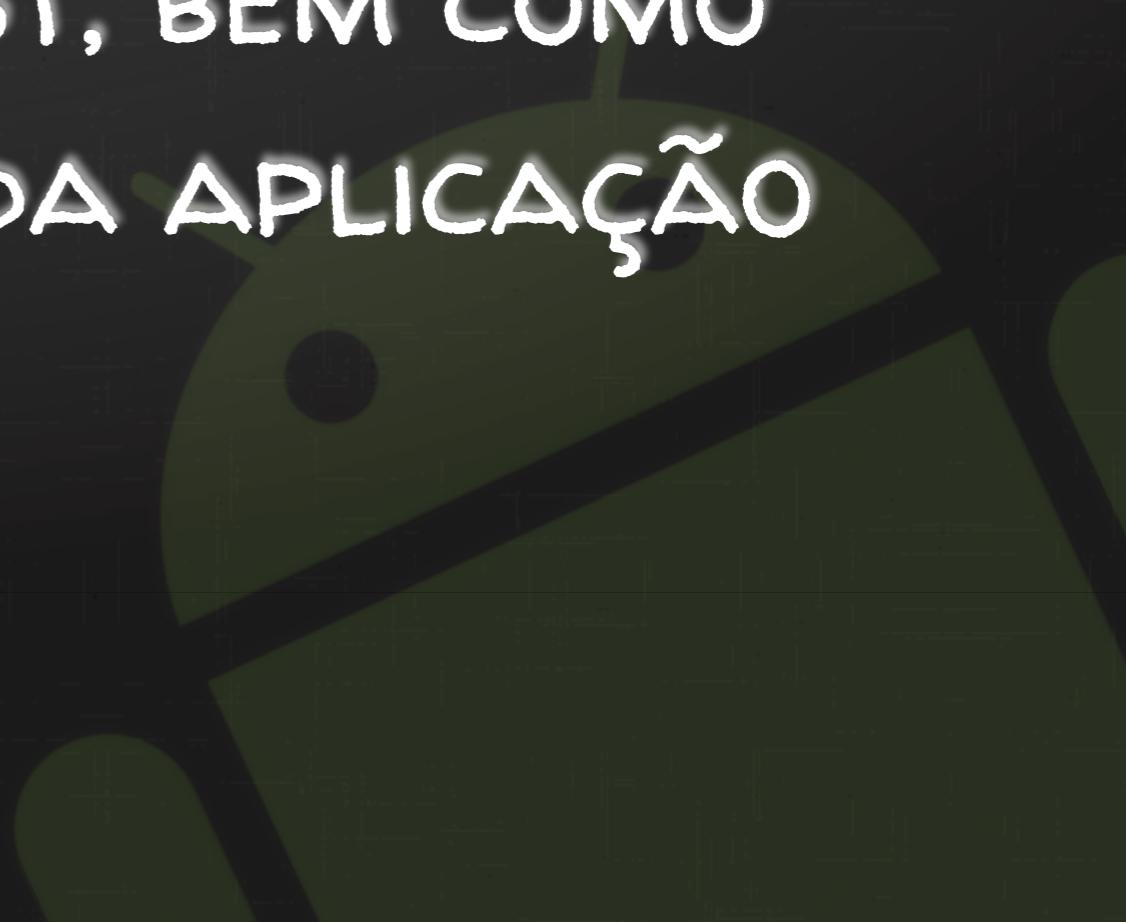
APLICAÇÕES ANDROID SÃO
COMPOSTAS DE UM OU MAIS
COMPONENTES (ACTIVITIES, SERVICES,
CONTENT PROVIDERS, ETC)



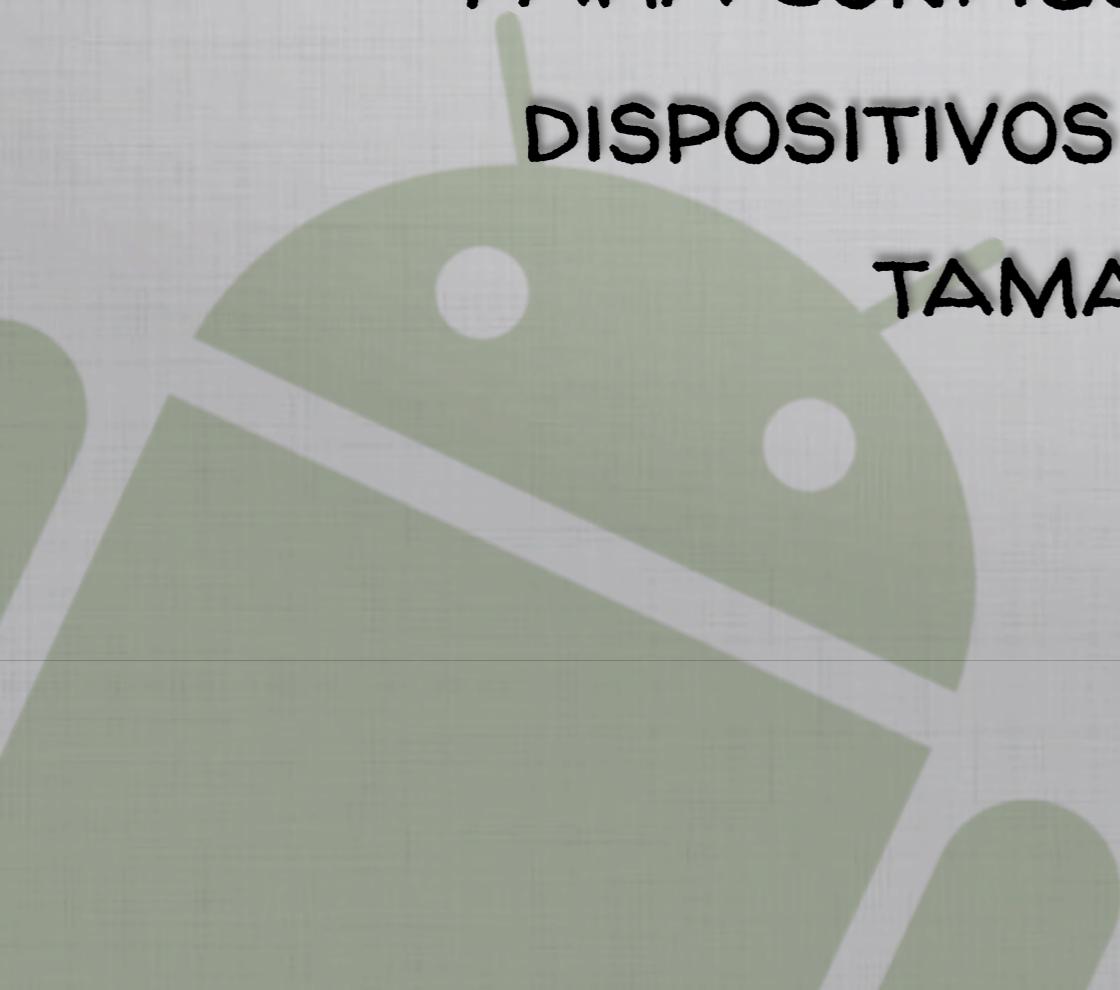
CADA COMPONENTE EXECUTA UM PAPEL
DIFERENTE NA APLICAÇÃO, E ELES
PODEM SER ATIVADOS INDIVIDUALMENTE
(ATÉ MESMO POR OUTRAS APLICAÇÕES)



TODOS COMPONENTES DA APLICAÇÃO
DEVEM SER DECLARADOS NO
ARQUIVO DE MANIFEST, BEM COMO
REQUISITOS MÍNIMOS DA APLICAÇÃO



RECURSOS (IMAGENS, TEXTOS, ARQUIVOS DE LAYOUT, ETC) DEVEM POSSUIR ALTERNATIVAS PARA CONFIGURAÇÕES DE DIFERENTES DISPOSITIVOS (COMO LOCALIZAÇÃO E TAMANHO DE TELAS)



COMPONENTES DAS APLICAÇÕES



ACTIVITIES



ACTIVITIES

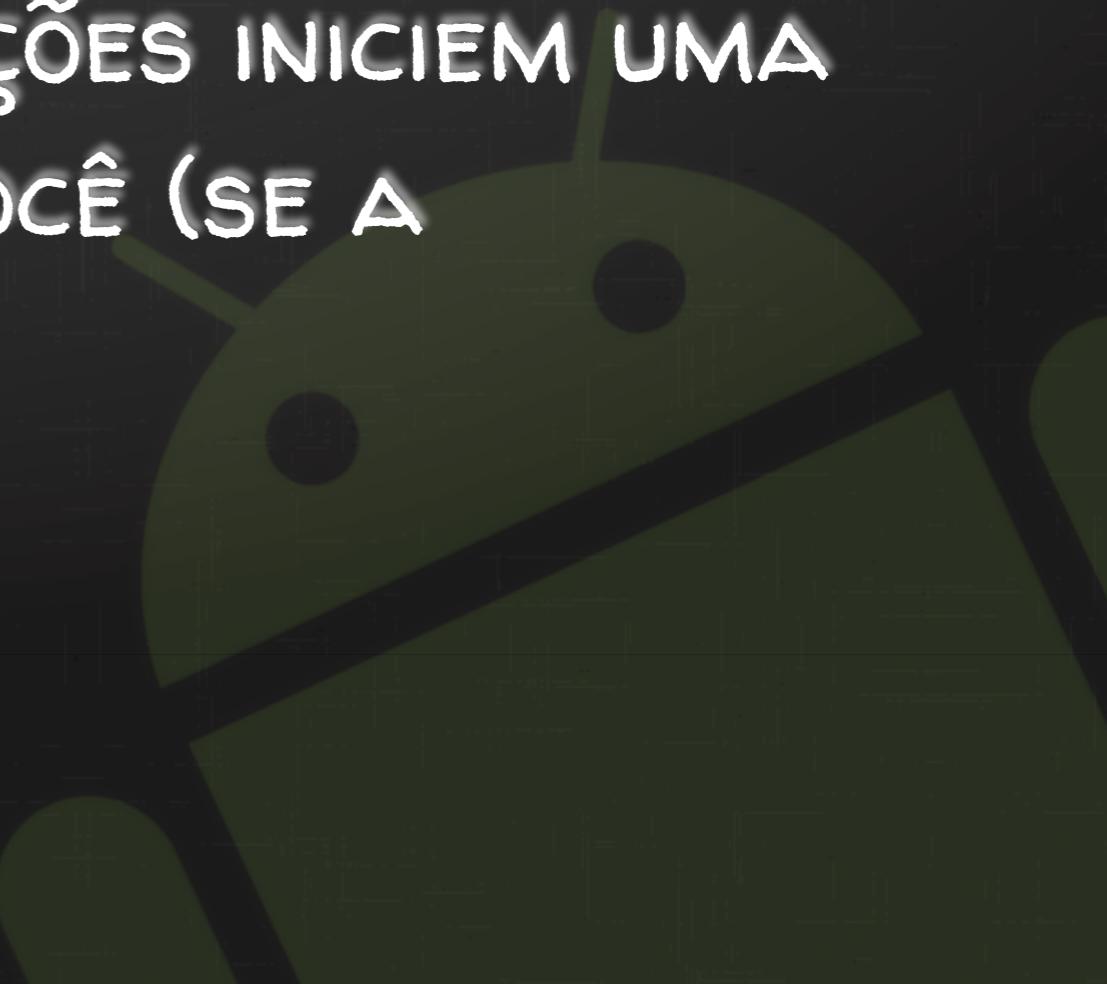
- REPRESENTA UMA ÚNICA TELA DE INTERFACE DO USUÁRIO
- EM UMA APLICAÇÃO DE EMAIL EXISTE UMA ACTIVITY QUE MOSTRA UMA LISTA DE EMAILS, OUTRA QUE MOSTRA COMO CRIAR UM EMAIL, E OUTRA COMO LER UM EMAIL

ACTIVITIES

- EMBORA AS ACTIVITIES POSSAM PARECER INTERLIGADAS ENTRE SI, ELAS SÃO INDEPENDENTES UMAS DAS OUTRAS

ACTIVITIES

- ESTA INDEPENDÊNCIA PERMITE QUE ATÉ MESMO OUTRAS APLICAÇÕES INICIEM UMA ACTIVITY CRIADA POR VOCÊ (SE A APLICAÇÃO PERMITIR)



ACTIVITIES

- NO CASO DO EMAIL POR EXEMPLO, UMA OUTRA APLICAÇÃO PODE SOLICITAR A INICIALIZAÇÃO DA ACTIVITY DE CRIAR UM EMAIL PARA COMPARTILHAR ALGUM CONTEÚDO

SERVIÇOS



SERVIÇOS

- É UM COMPONENTE QUE RODA EM BACKGROUND EXECUTANDO ALGUMA TAREFA QUE DEMANDA MAIOR TEMPO DE PROCESSAMENTO

SERVIÇOS

- NÃO PROVÊ UMA INTERFACE COM USUÁRIO



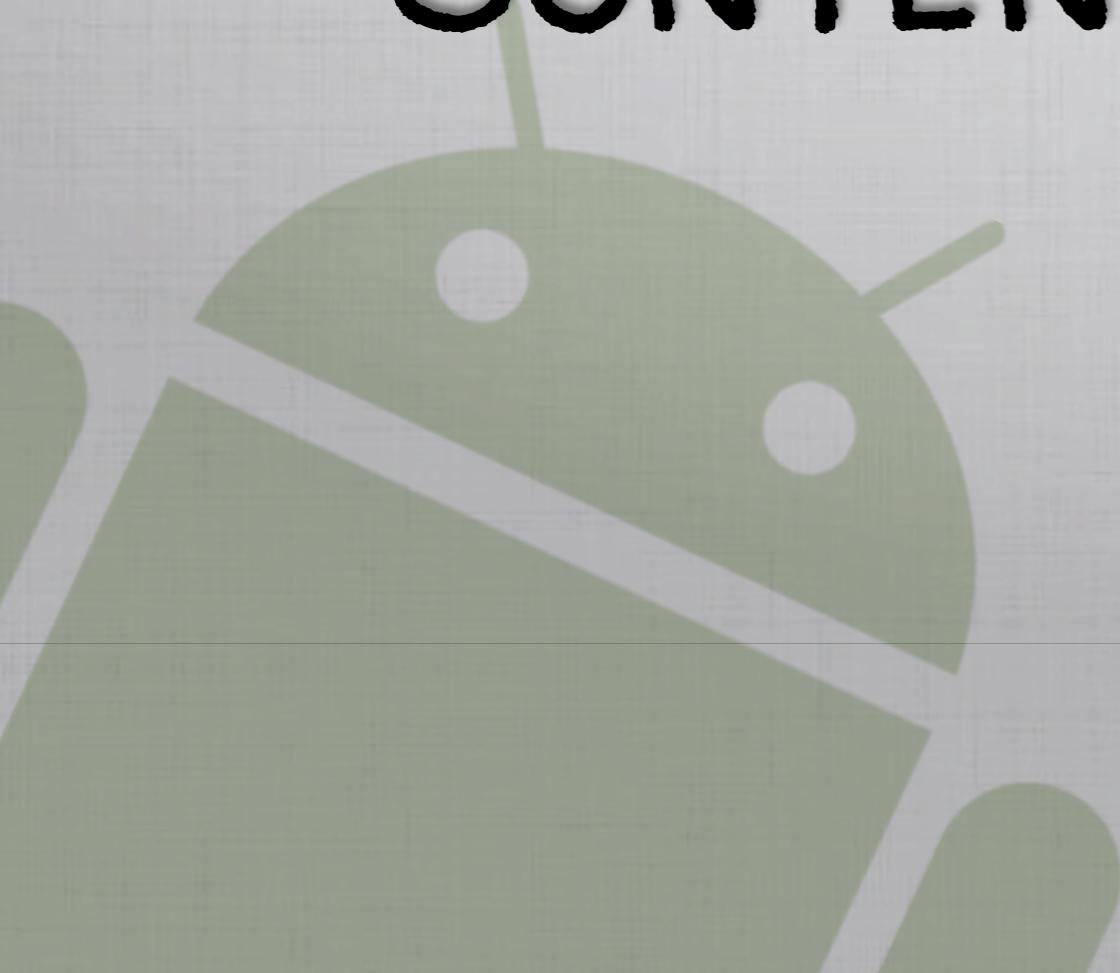
SERVIÇO

- POR EXEMPLO, UM SERVIÇO PODE EXECUTAR UMA MÚSICA DE FUNDO ENQUANTO O USUÁRIO ESTÁ EM OUTRA APLICAÇÃO

SERVIÇOS

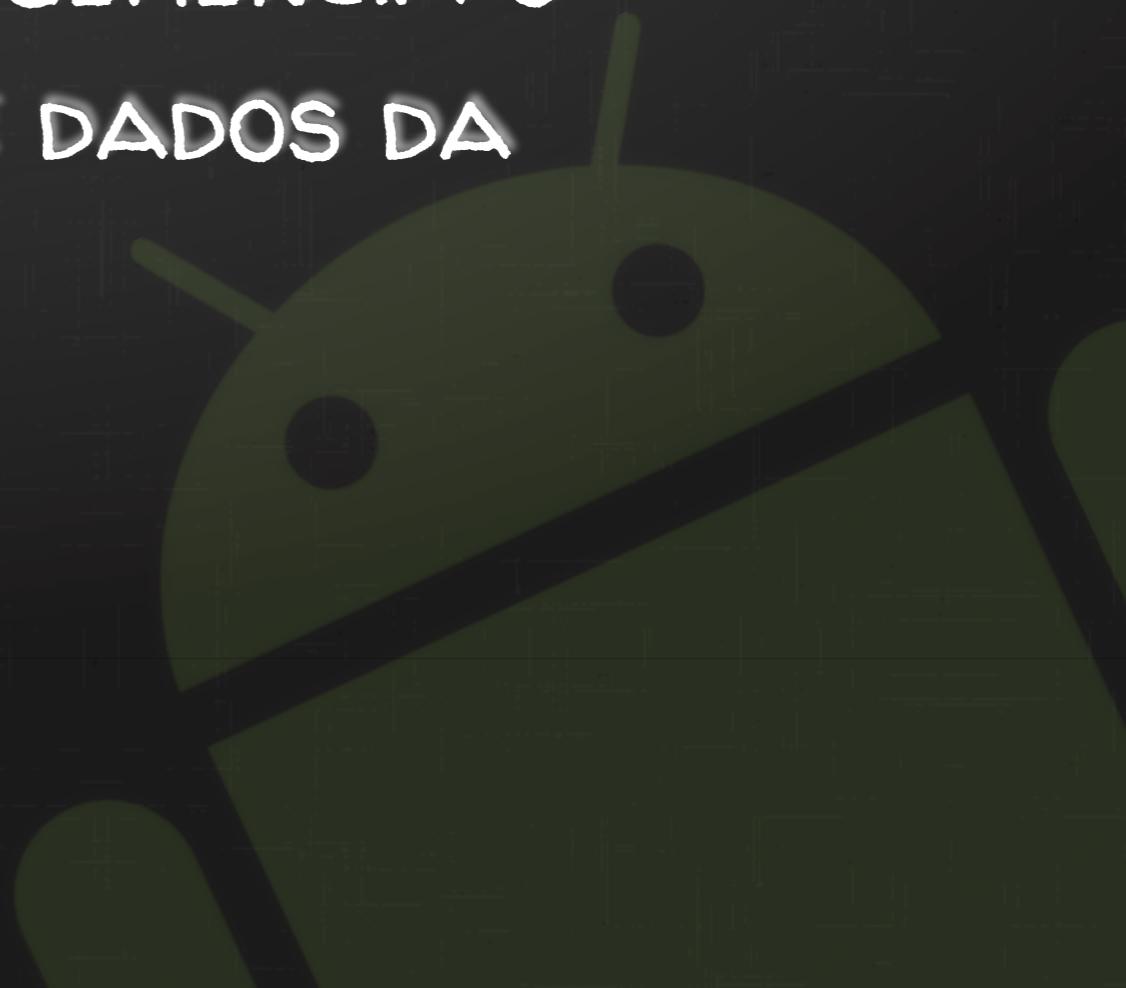
- OU TAMBÉM UM SERVIÇO PODE BAIXAR DADOS USANDO A REDE SEM BLOQUEAR A INTERAÇÃO DO USUÁRIO COM A ACTIVITY

CONTENT PROVIDERS



CONTENT PROVIDERS

- UM CONTENT PROVIDER GERENCIA O COMPARTILHAMENTO DE DADOS DA APLICAÇÃO



CONTENT PROVIDERS

- SUA APLICAÇÃO PODE GRAVAR OS DADOS
EM ARQUIVOS, BASE SQLITE, NA WEB,
ENTRE OUTROS

CONTENT PROVIDERS

- ATRAVÉS DE CONTENT PROVIDER OUTRAS APLICAÇÕES PODEM BUSCAR E ATÉ MESMO MODIFICAR SEUS DADOS (SE O SEU CONTENT PROVIDER PERMITIR)

CONTENT PROVIDERS

- POR EXEMPLO, O ANDROID PROVÊ
CONTENT PROVIDER PARA GERENCIAR A
LISTA DE CONTATOS DO USUÁRIO

CONTENT PROVIDERS

- DESTA FORMA, QUALQUER APLICAÇÃO COM AS DEVIDAS PERMISSÕES PODE LER OU GRAVAR DADOS DE UM CONTATO EM PARTICULAR

CONTENT PROVIDERS

- TAMBÉM É UMA FORMA DE GRAVAR E LER DADOS NA SUA PRÓPRIA APLICAÇÃO

BROADCAST RECEIVER



BROADCAST RECEIVER

- COMPONENTE QUE RESPONDE A MENSAGENS DISPARADAS (BROADCAST) EM NÍVEL DE SISTEMA

BROADCAST RECEIVER

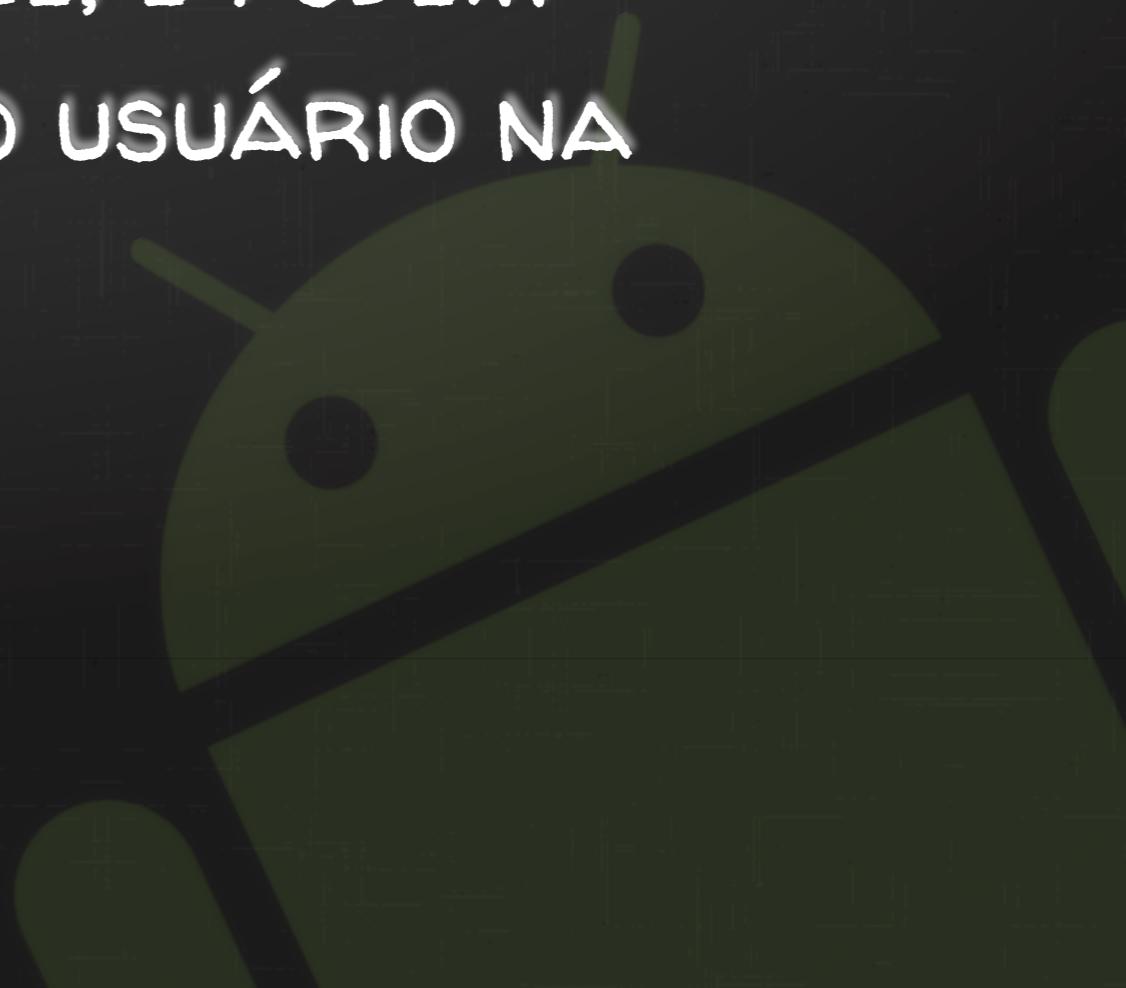
- MUITOS SÃO DISPARADOS PELO SISTEMA, POR EXEMPLO, UMA MENSAGEM DE QUE A TELA FOI DESLIGADA, A BATERIA ESTÁ BAIXA, OU UMA FOTO FOI TIRADA

BROADCAST RECEIVER

- AS APLICAÇÕES TAMBÉM PODEM DISPARAR MENSAGENS, POR EXEMPLO, PARA ANUNCIAR OUTRAS APLICAÇÕES QUE ALGUM DADO FOI BAIXADO E ESTÁ DISPONÍVEL PARA USO

BROADCAST RECEIVER

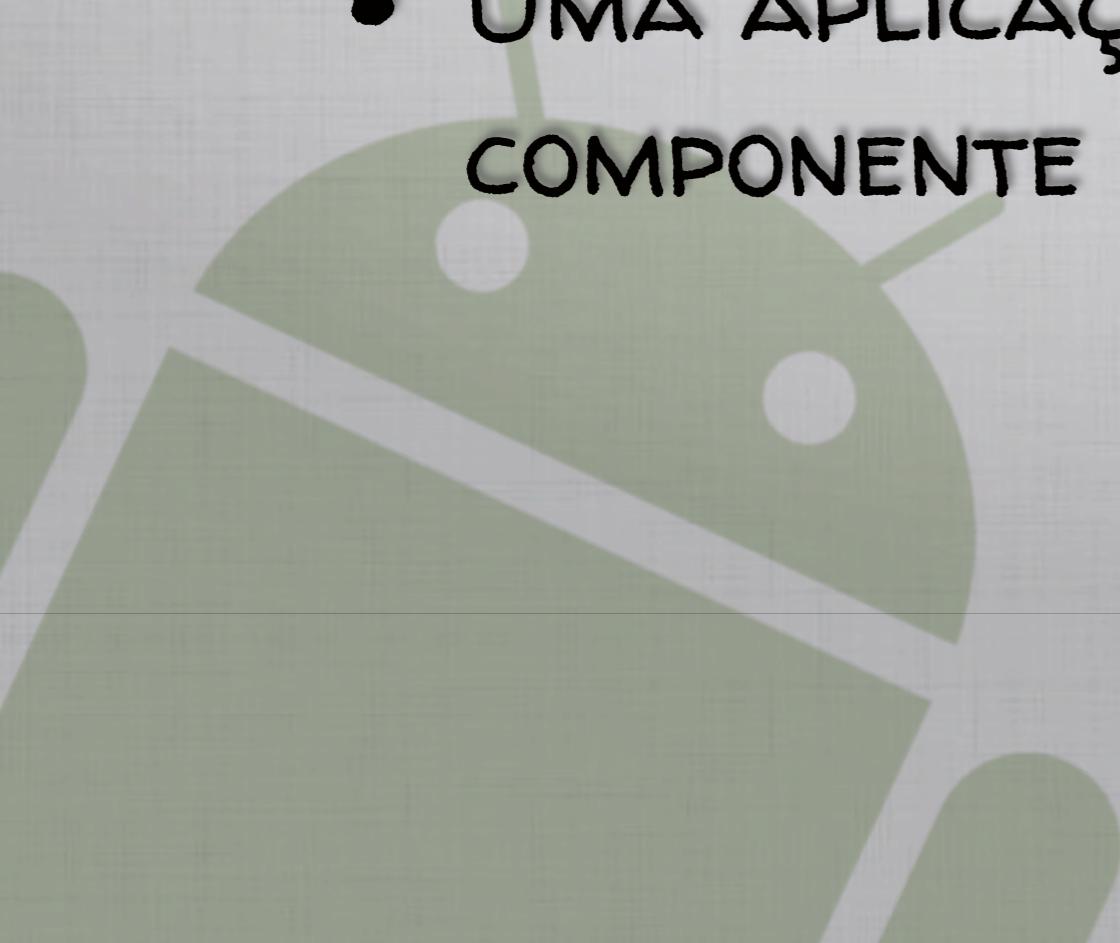
- NÃO POSSUEM INTERFACE, E PODEM CRIAR ALERTAS PARA O USUÁRIO NA STATUS BAR



REPETINDO!

ASPECTO ÚNICO DO ANDROID

- UMA APLICAÇÃO PODE INICIAR UM COMPONENTE DE OUTRA APLICAÇÃO!



REPETINDO!

ASPECTO ÚNICO DO ANDROID

- SE O USUÁRIO PRECISA TIRAR UMA FOTO
VOCÊ NÃO PRECISA DESENVOLVER UMA
ACTIVITY PARA FAZER ESSA AÇÃO!

REPETINDO!

ASPECTO ÚNICO DO ANDROID

- VOCÊ NÃO PRECISA NEM ADICIONAR CÓDIGO DA APP DE CÂMERA, VOCÊ SIMPLESMENTE PEDE PARA O SISTEMA INICIAR A ACTIVITY DA APP DE CÂMERA QUE CAPTURA UMA FOTO

REPETINDO ASPECTO ÚNICO DO ANDROID

- QUANDO O USUÁRIO TERMINAR, A FOTO SERÁ RETORNADA PARA A SUA APLICAÇÃO PARA VOCÊ USAR! PARA O USUÁRIO É COMO SE A APP DE CÂMERA FIZESSE PARTE DA SUA APP

HELLO WORLD

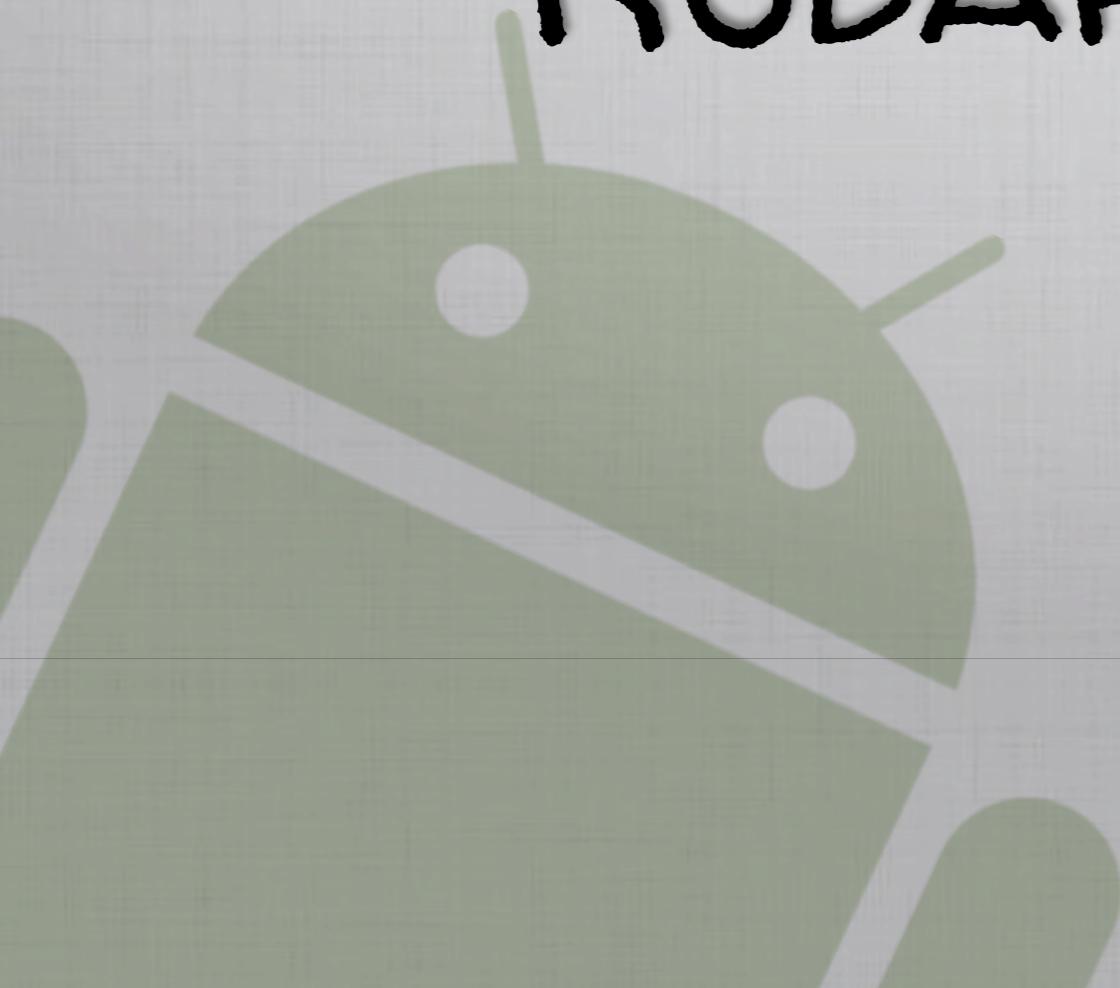
FIRSTAPP



RODAR NO EMULADOR



RODAR NO DEVICE



AndroidManifest.xml

src/

res/

drawable-hdpi/

layout/

values/



AndroidManifest.xml

src/

res/

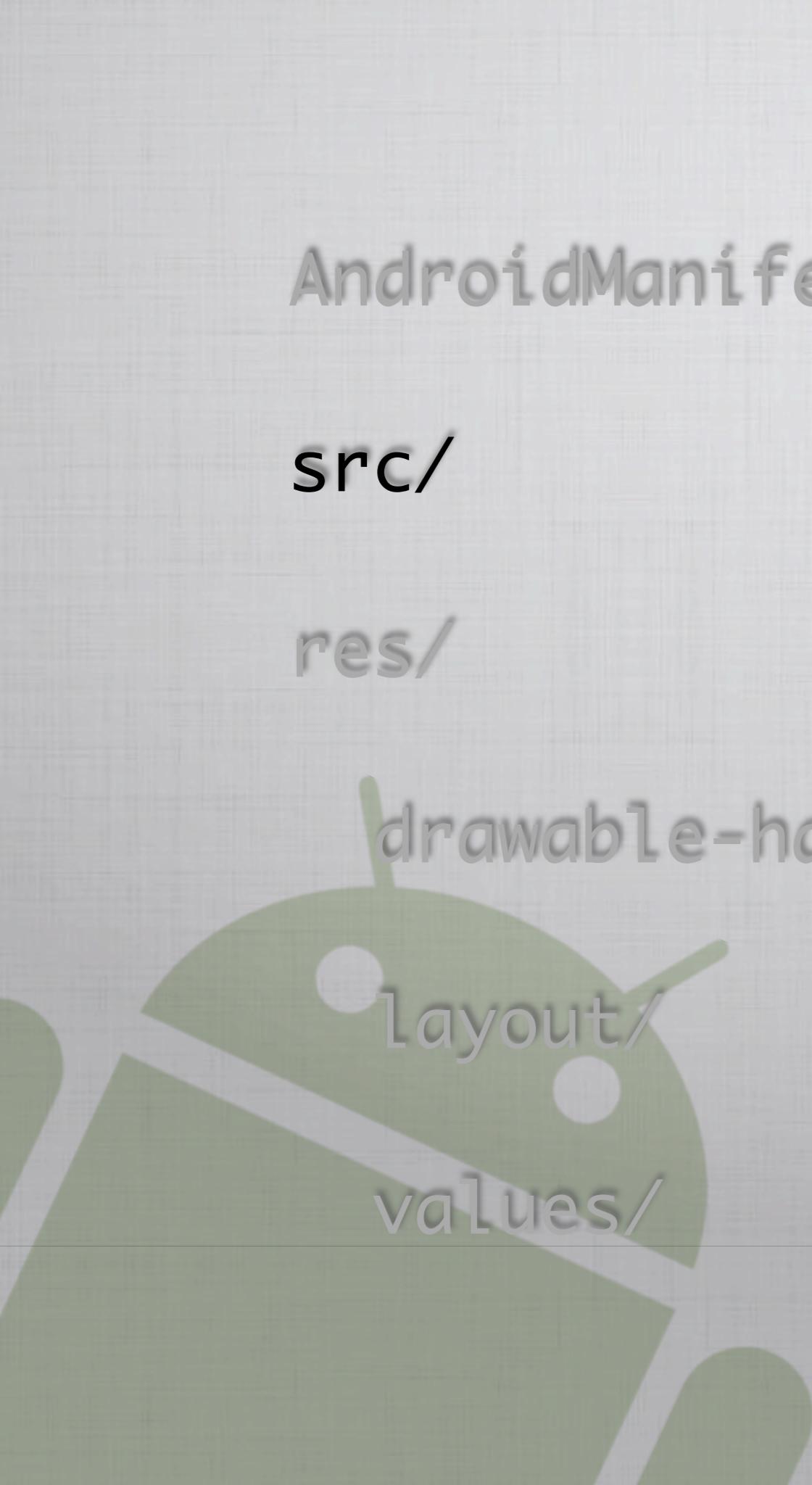
drawable-hdpi/

Layout/

values/

AndroidManifest.xml

- CARACTERISTICAS FUNDAMENTAIS DA APP
E DEFINE CADA UM DE SEUS COMPONENTES
- PERMISSÕES DE HARDWARE E SOFTWARE
- SOMENTE UM MANIFEST POR APLICAÇÃO

A large, semi-transparent green Android robot head watermark is positioned in the lower-left corner of the slide. It features a white circle for an eye, two smaller circles for ears, and a white diagonal stripe on its forehead.

AndroidManifest.xml

src/

res/

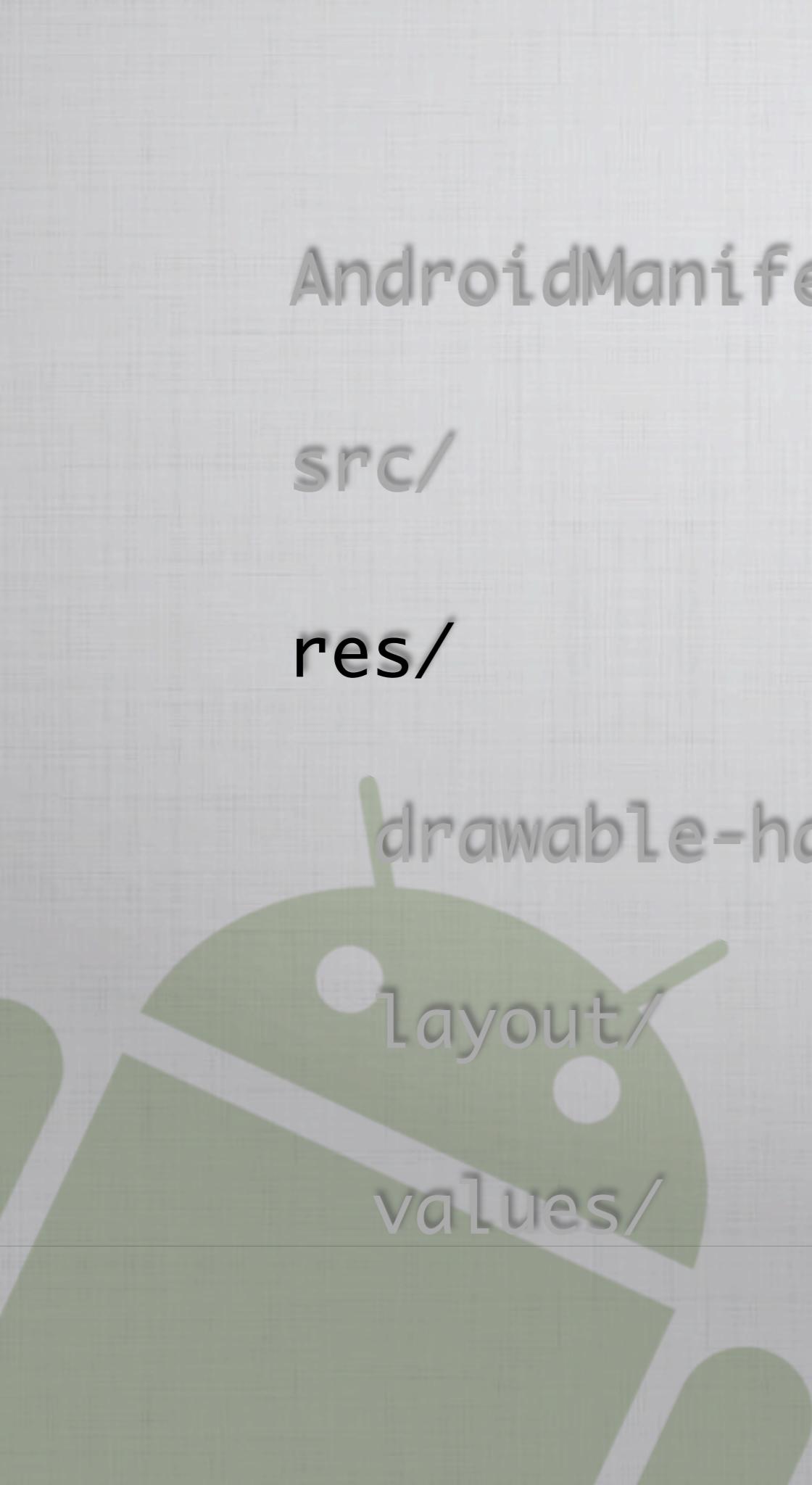
drawable-hdpi/

Layout/

values/

src/

- DIRETÓRIO DOS FONTES DA SUA APP
- POR PADRÃO INCLUI UMA ACTIVITY* QUE RODA QUANDO SUA APP É INICIADA NO MENU INICIAL

A large, semi-transparent green Android robot head watermark is positioned in the lower-left corner of the slide. It features a white circle for an eye, two smaller circles for ears, and a white diagonal stripe on its forehead.

AndroidManifest.xml

src/

res/

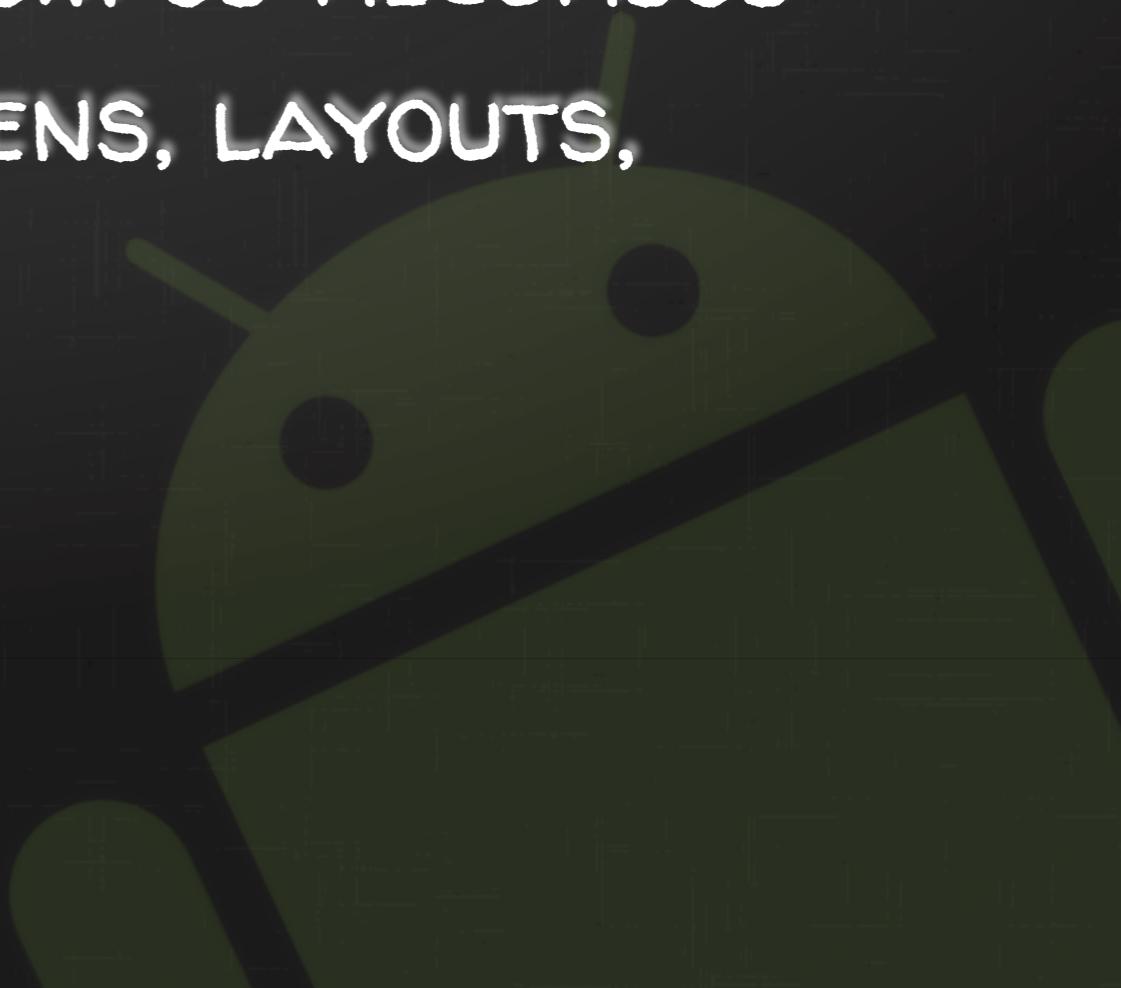
drawable-hdpi/

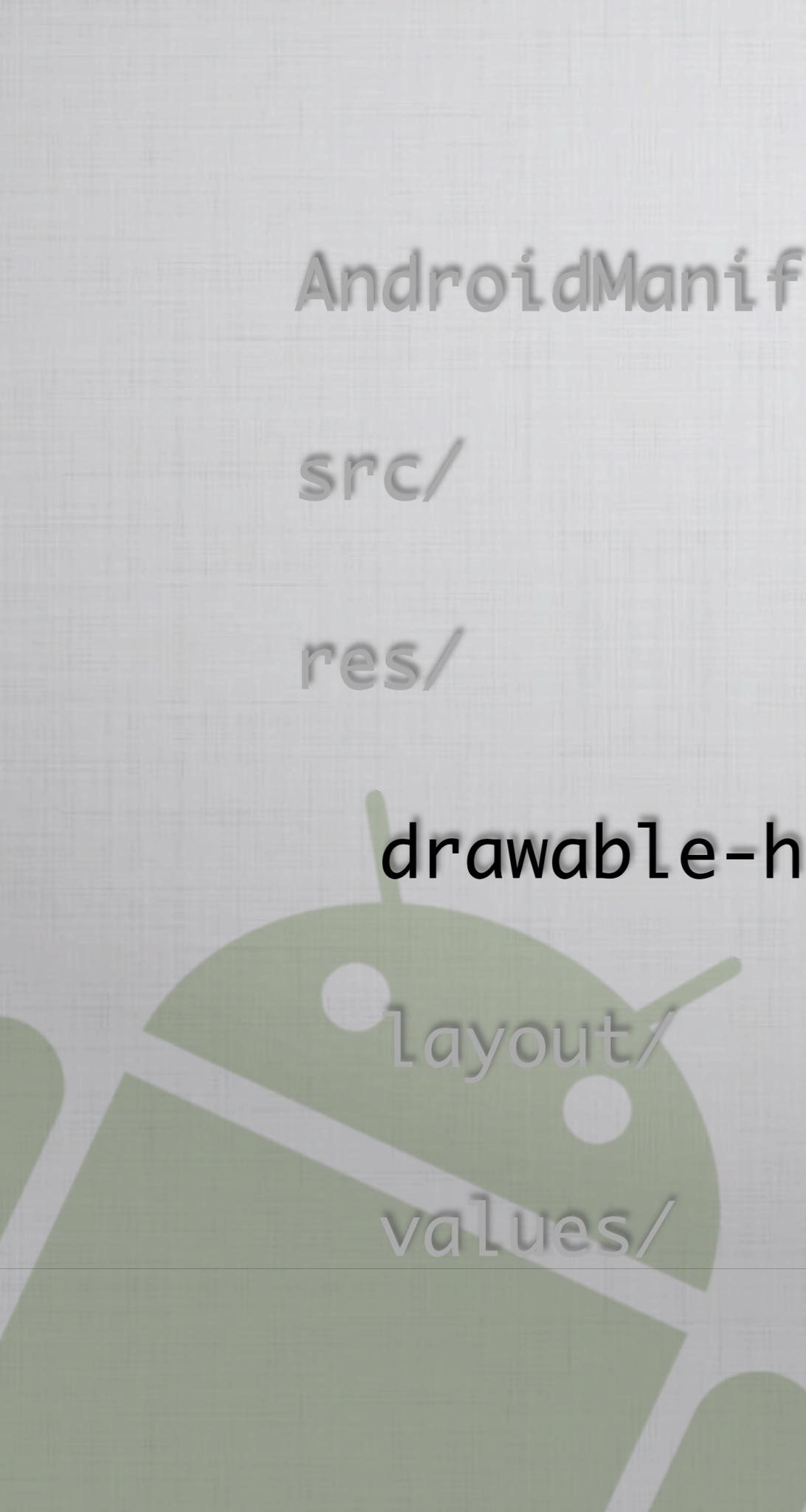
Layout/

values/

res/

- VÁRIOS SUBDIRETÓRIOS COM OS RECURSOS DA SUA APP, COMO IMAGENS, LAYOUTS, INTERNACIONALIZAÇÃO



A large, semi-transparent green Android robot head watermark is positioned in the lower-left corner of the slide. It features a white circle for an eye, two smaller circles for ears, and a white diagonal stripe on its forehead.

AndroidManifest.xml

src/

res/

drawable-hdpi/

Layout/

values/

drawable-hdpi/

- IMAGENS QUE SERÃO USADAS PELA APP
EM TELAS HDPI (HIGH-DENSITY)

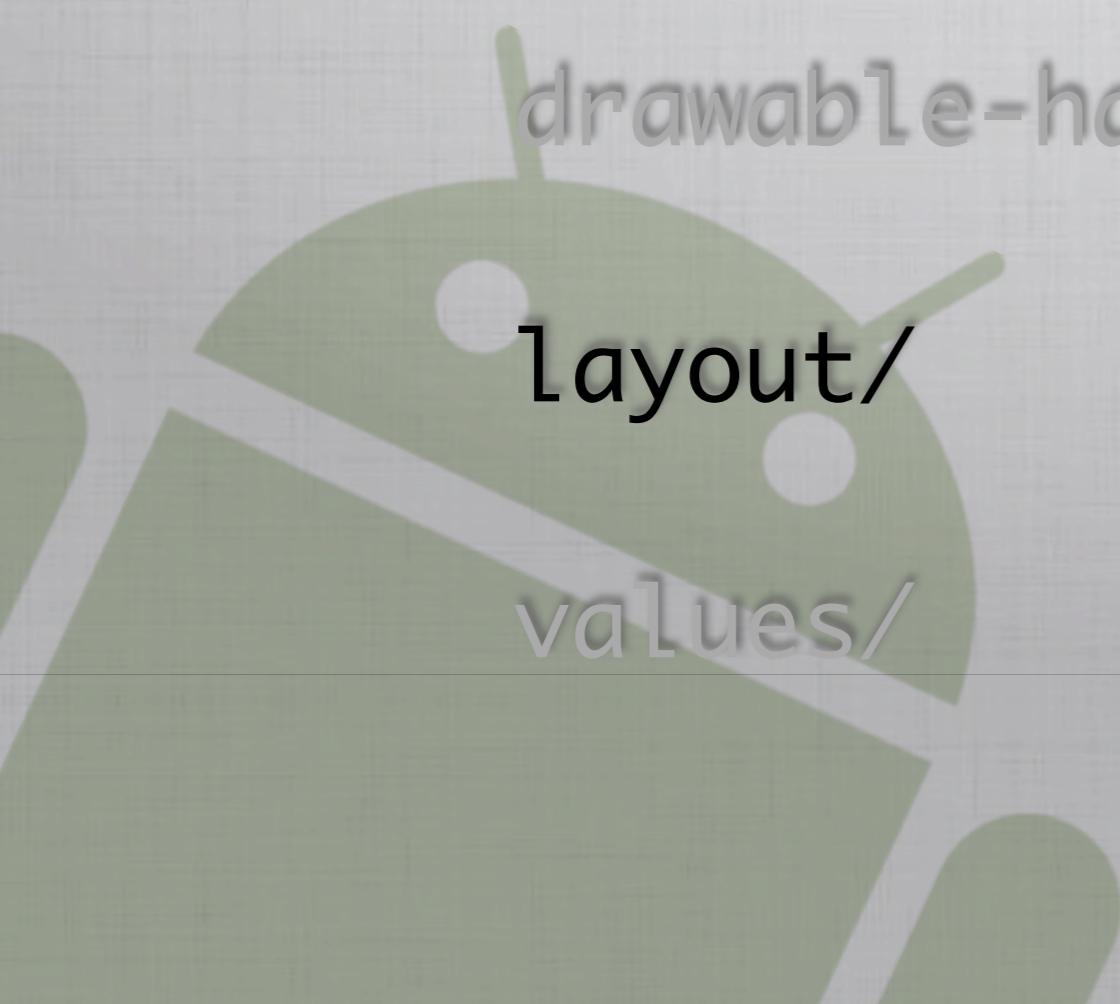
drawable-hdpi/

drawable-ldpi/

drawable-mdpi/

drawable-xhdpi/



A large, semi-transparent watermark of the Android robot logo is positioned in the lower-left corner of the slide. The logo is green with white highlights and features its characteristic circular head and striped body.

AndroidManifest.xml

src/

res/

drawable-hdpi/

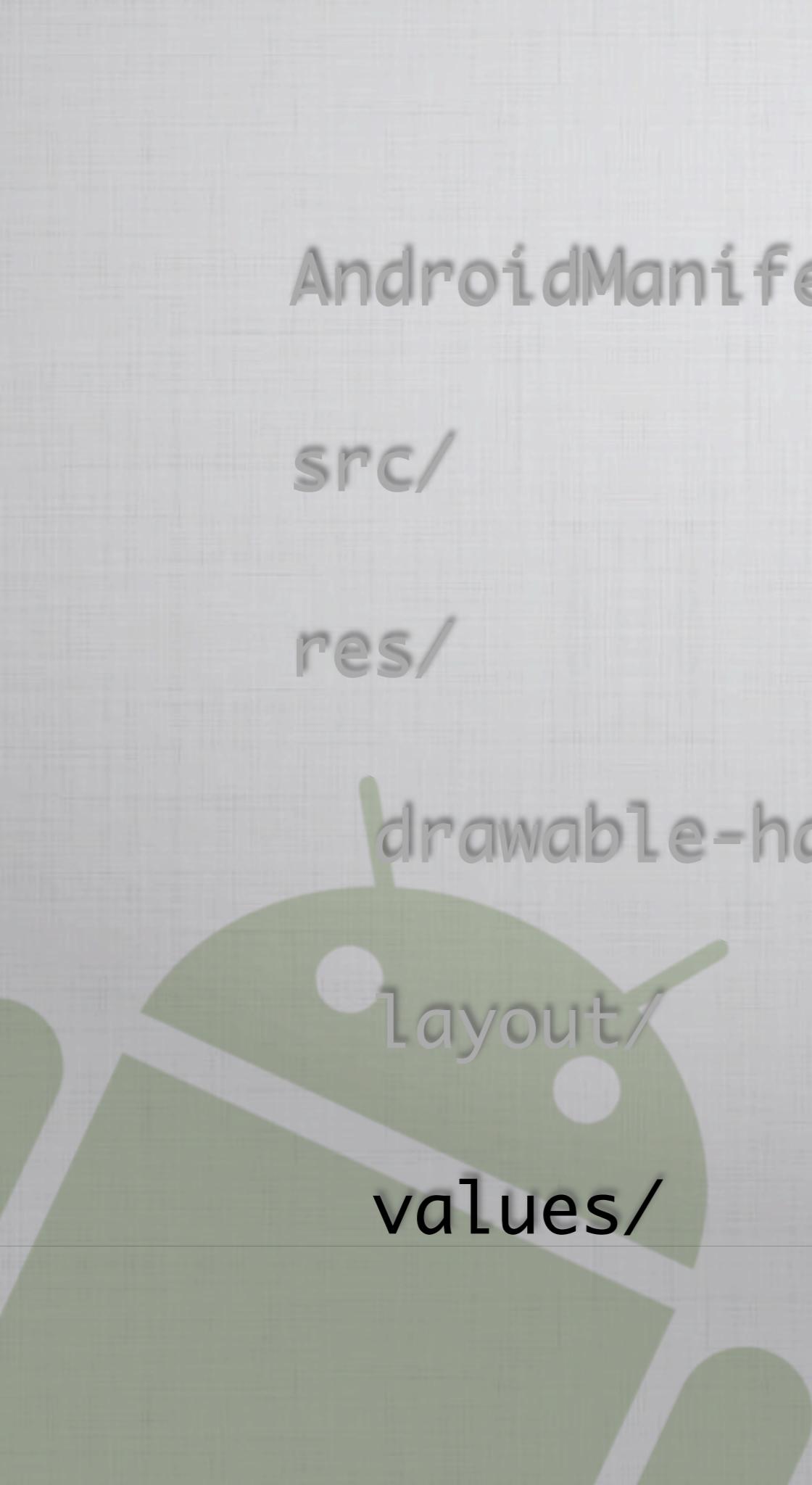
layout/

values/

layout/

- ARQUIVOS QUE DEFINEM AS INTERFACES
DE USUÁRIO



A large, semi-transparent green Android robot head watermark is positioned in the lower-left corner of the slide. It has a white circle for an eye, two smaller circles for ears, and a white diagonal stripe on its cheek.

AndroidManifest.xml

src/

res/

drawable-hdpi/

Layout/

values/

values/

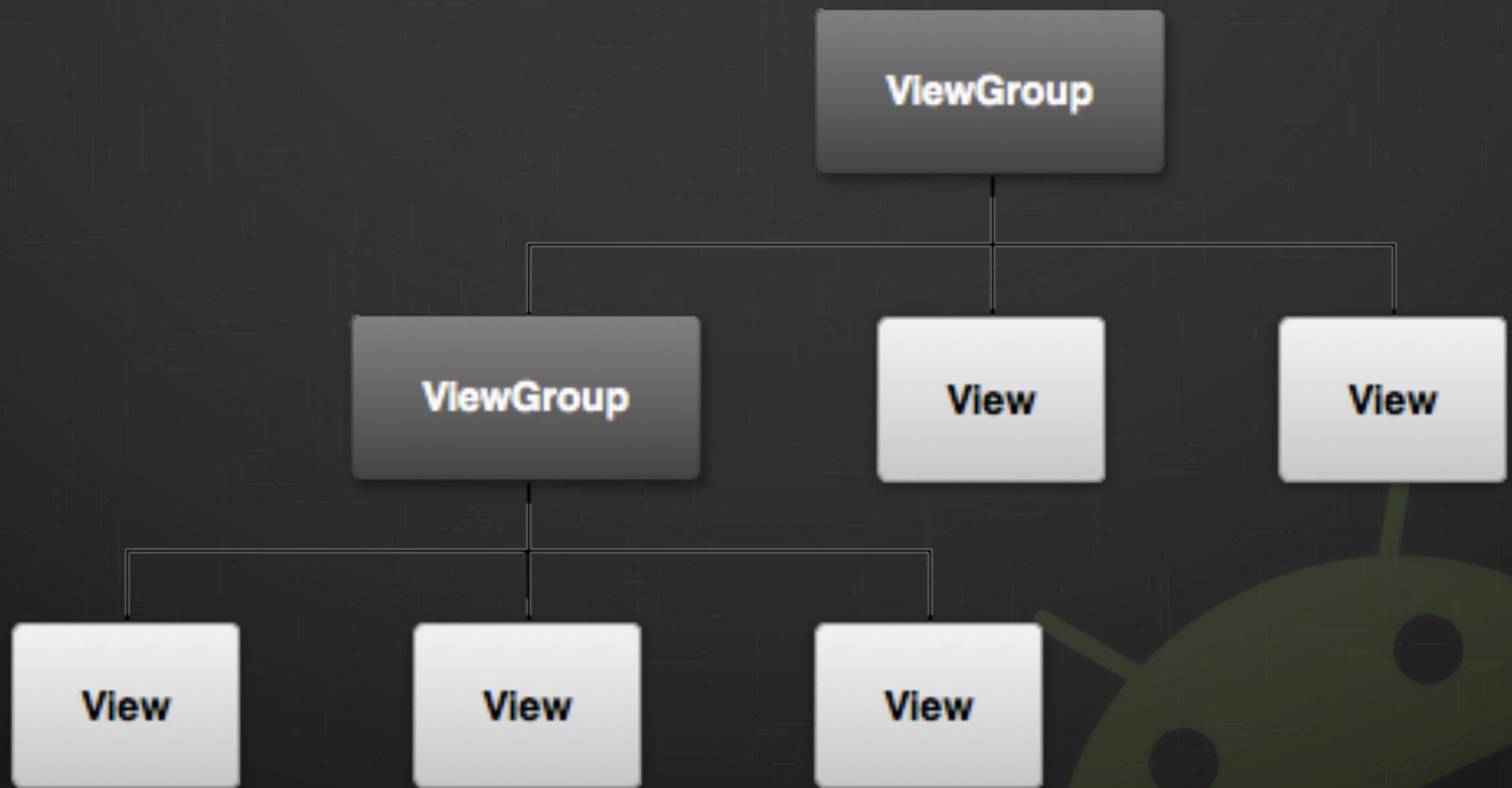
- ARQUIVOS XML QUE CONTEM VÁRIOS RECURSOS, COMO STRINGS PARA INTERNACIONALIZAÇÃO E DEFINIÇÕES DE CORES



FIRSTAPP

ACTIVITY_HELLO.XML

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/  
    android"  
        xmlns:tools="http://schemas.android.com/tools"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent" >  
  
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_centerHorizontal="true"  
        android:layout_centerVertical="true"  
        android:padding="@dimen/padding_medium"  
        android:text="@string/hello_universo"  
        tools:context=".HelloActivity" />  
  
</RelativeLayout>
```



FIRSTAPP

View Group

HELLO.XML

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="Hello World"
        android:textColor="#FF0000"
        android:textSize="24sp"
        android:textStyle="bold" />

    <View
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:background="#000000"
        android:alpha="0.5" />

</RelativeLayout>
```

FIRSTAPP

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        tools:context=".HelloActivity" />

</RelativeLayout>
```

match_parent
fill_parent

FIRSTAPP

HELLOACTIVITY.JAVA

```
package br.edu.universo.android.firstapp;

import android.app.Activity;
import android.os.Bundle;

public class HelloActivity extends Activity {

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_hello);
    }
}
```

FIRSTAPP

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FIRSTAPP

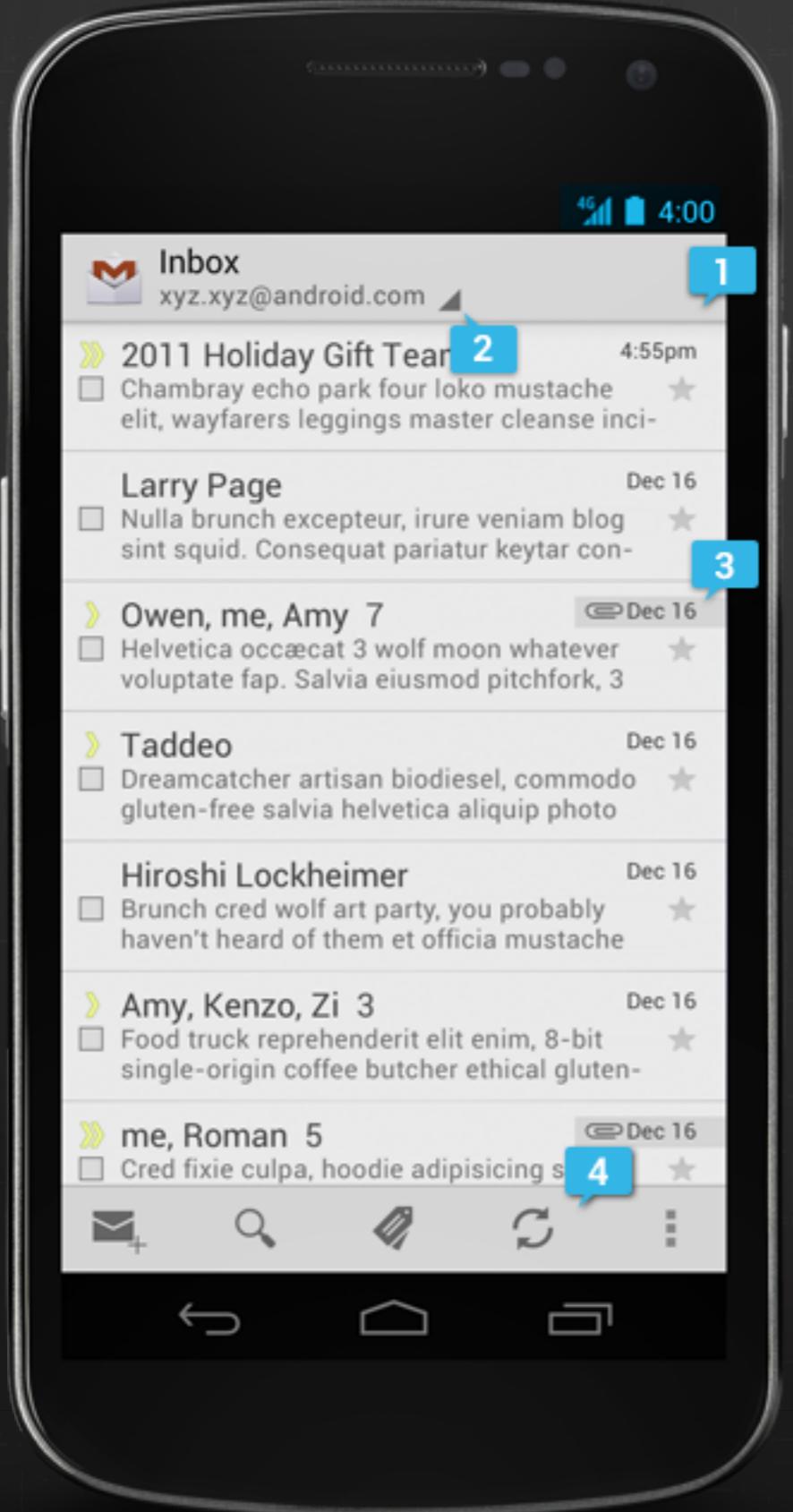
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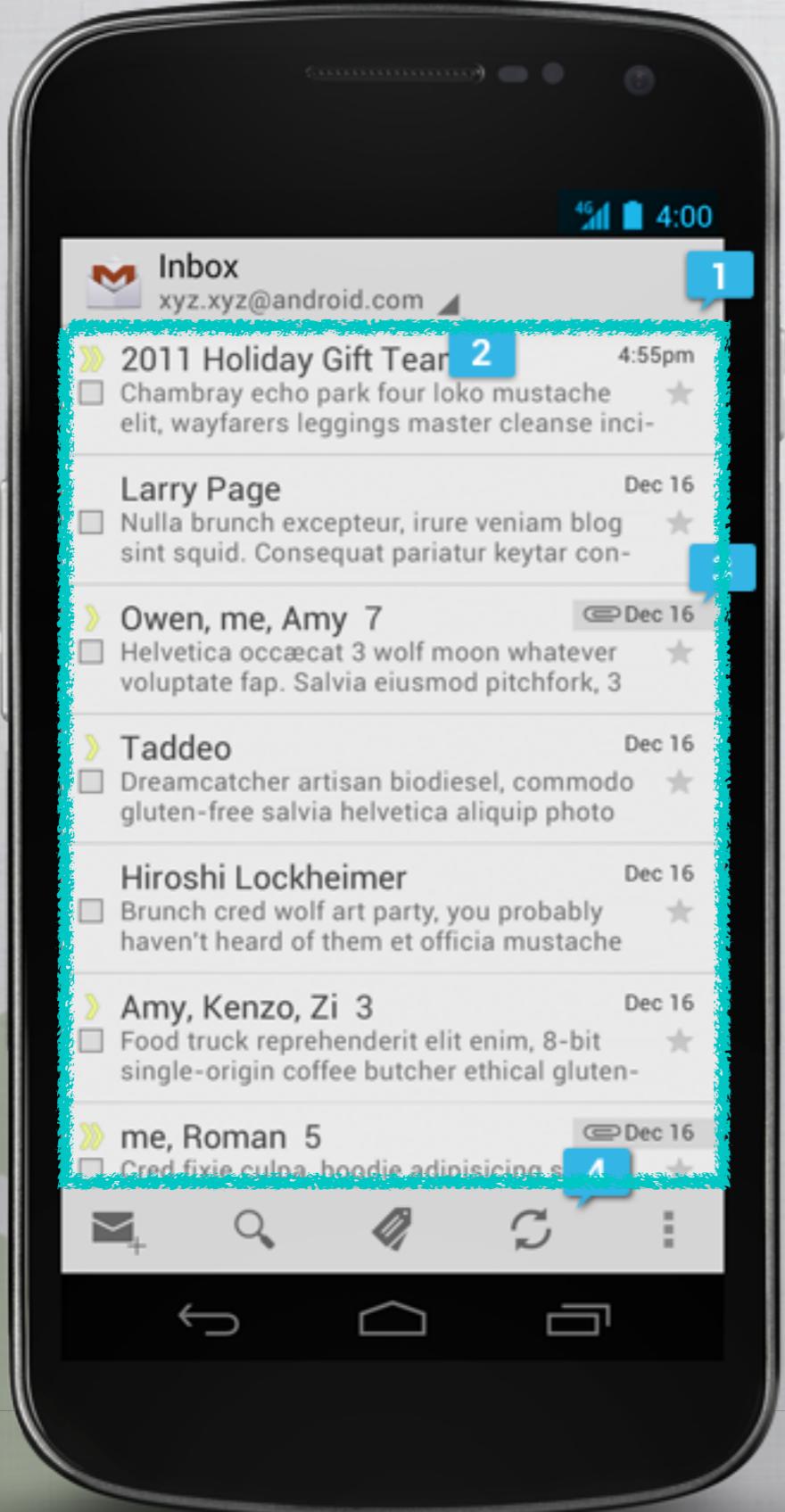


I. Main Action Bar

2. View Control

3. Content Area

4. Split Action Bar



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FIRSTAPP

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}
```

FIRSTAPP

R.JAVA

```
/* AUTO-GENERATED FILE. DO NOT MODIFY.  
*  
* This class was automatically generated by the  
* aapt tool from the resource data it found. It  
* should not be modified by hand.  
*/  
  
package br.edu.universo.android.firstapp;  
  
public final class R {  
  
    ...  
  
    public static final class layout {  
        public static final int activity_hello=0x7f030000;  
    }  
  
    ....  
}  
}
```

FIRSTAPP

ANDROIDMANIFEST.XML

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="br.edu.universo.android.firstapp"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk android:minSdkVersion="8"
        android:targetSdkVersion="15" />

    <application android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >

        <activity android:name=".HelloActivity"
            android:label="@string/title_activity_hello" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>

    </application>
</manifest>
```

FIRSTAPP

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FIRSTAPP

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FIRSTAPP

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                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

FIRSTAPP

STRINGS.XML

```
<resources>

    <string name="app_name">FirstApp</string>
    <string name="hello_universo">Hello Universo!</string>
    <string name="menu_settings">Settings</string>
    <string name="title_activity_hello">HelloActivity</string>

</resources>
```

INTENT + COMPONENTES

SIMPLEUI



INTENT

- COMO O PRÓPRIO NOME DIZ, É UMA INTENÇÃO
- É UMA DESCRIÇÃO ABSTRATA DE UMA OPERAÇÃO A SER REALIZADA

INTENT

- OBJETO QUE PROVÊ UMA LIGAÇÃO ENTRE COMPONENTES SEPARADOS (TAIS COMO DUAS ACTIVITIES)

