



#### Rafael de Araujo

Desenvolvedor Android desde versão Cupcake (Android 1.5)

Experiência com smartphones, tablets e wearables

Usuário ativo da comunidade Android no Brasil

Participa de eventos nacionais e internacionais

#### Apps e empresas

















VENTURUS 4TECH

#### Cainã Ferreira da Silva

**Desenvolvedor Android 2013** 

Experiência com smartphones, tablets e wearables

Participa de eventos nacionais e internacionais

#### Apps da Sony





**VENTURUS**TECH

## O que é o Android?

Sistema Operacional móvel mais usado do mundo

Presente em celulares, tablets, relógios, TVs, carros (e em "coisas")











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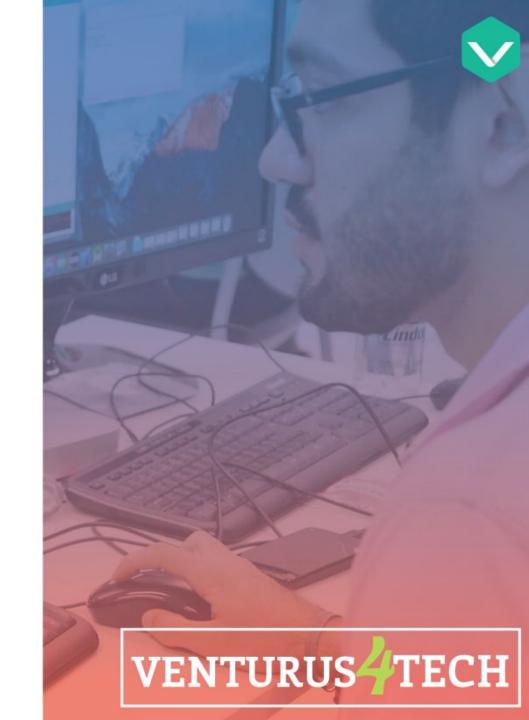
Cupcake 1.5 Abr, 2009



**Donut 1.6**Set, 2009



Eclair 2.0 ~ 2.1 Oct, 2009





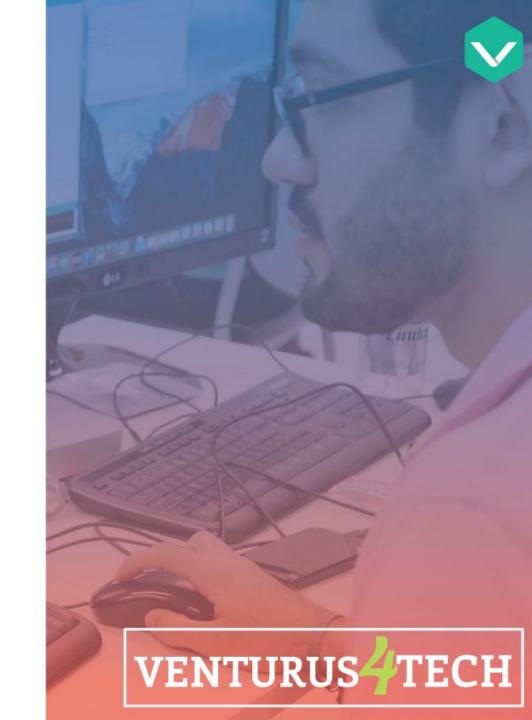
Froyo
2.2 ~ 2.2.3
Mai, 2010



**Gingerbread 2.3 ~ 2.3.7**Dez, 2010



Honeycomb 3.0 ~ 3.2.6 Fev, 2011





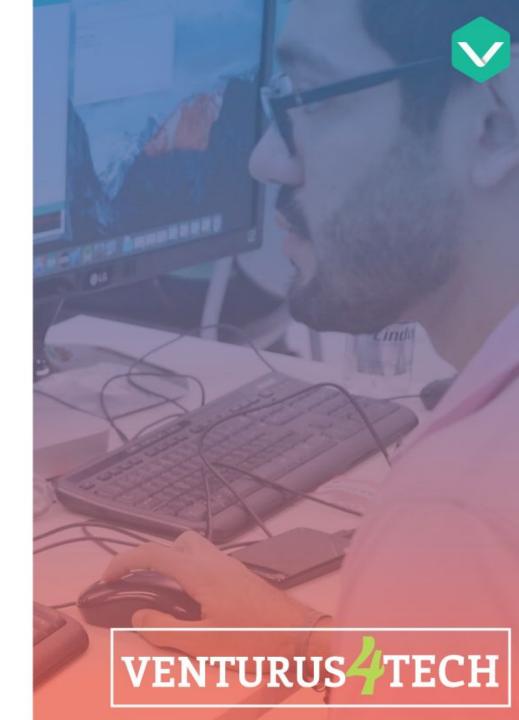
Ice Cream Sandwich 4.0 ~ 4.04
Out, 2011



Jelly Bean 4.1 ~ 4.3.1 Jul, 2012



KitKat 4.4 ~ 4.4.4 Out, 2013





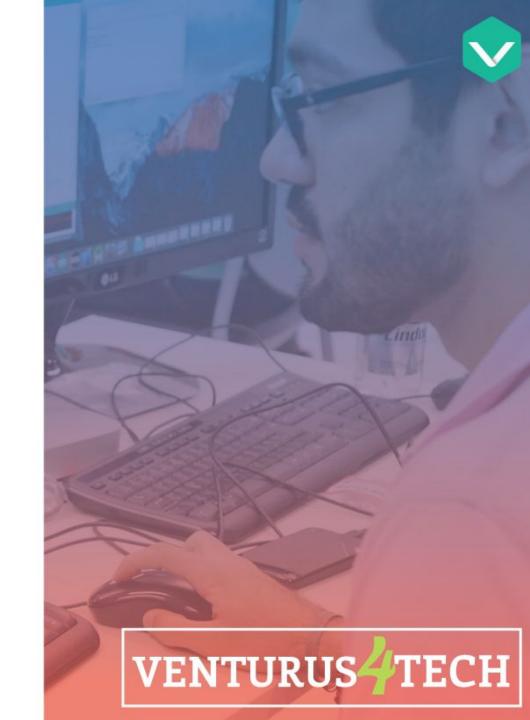
Lollipop 5.0 ~ 5.1.1 Nov, 2014



Marshmallow 6.0 ~ 6.0.1 Out, 2015

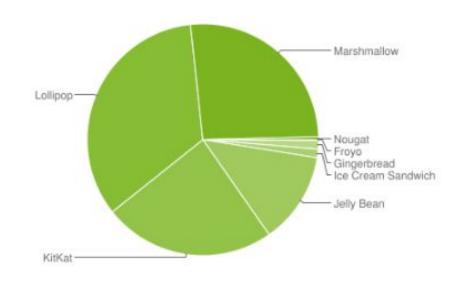


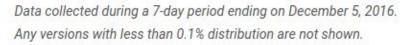
Nougat 7.0 ~ 7.1.1 Ago, 2016



# Distribuição mundial

Version	Codename	API	Distribution
2.2	Froyo	8	0.1%
2.3.3 - 2.3.7	Gingerbread	10	1.2%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	1.2%
4.1.x	Jelly Bean	16	4.5%
4.2.x		17	6.4%
4.3		18	1.9%
4.4	KitKat	19	24.0%
5.0	Lollipop	21	10.8%
5.1		22	23.2%
6.0	Marshmallow	23	26.3%
7.0	Nougat	24	0.4%











## Linguagens utilizadas



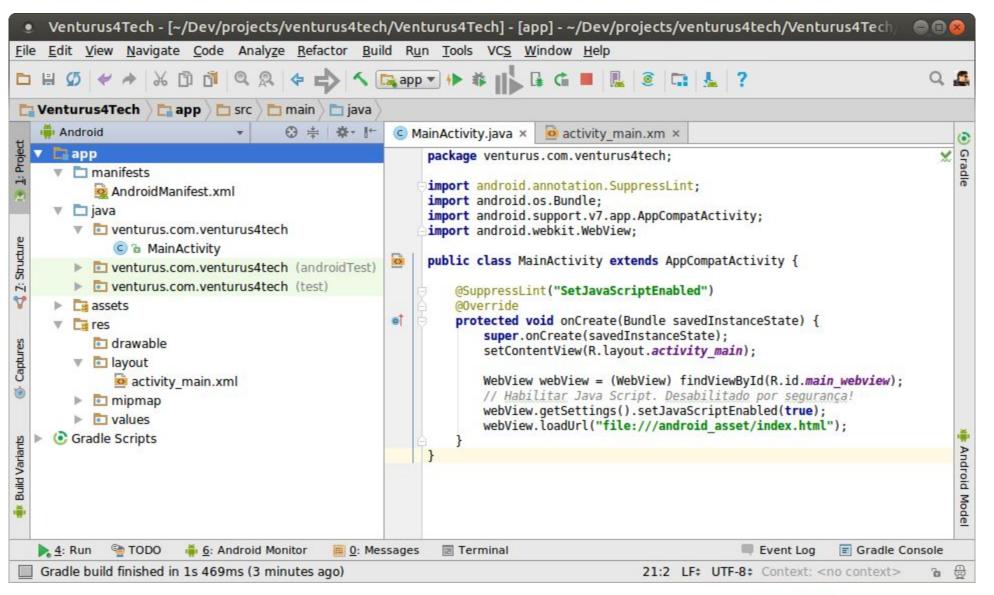




# Ferramenta de desenvolvimento



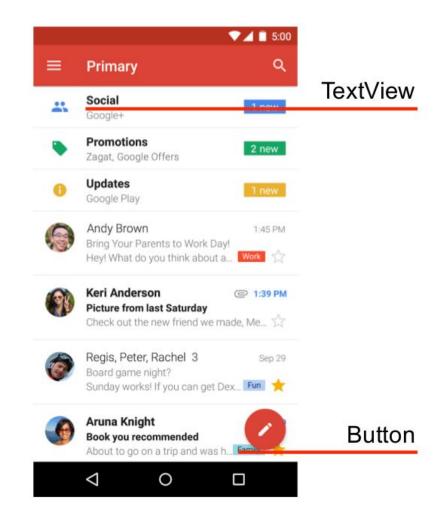


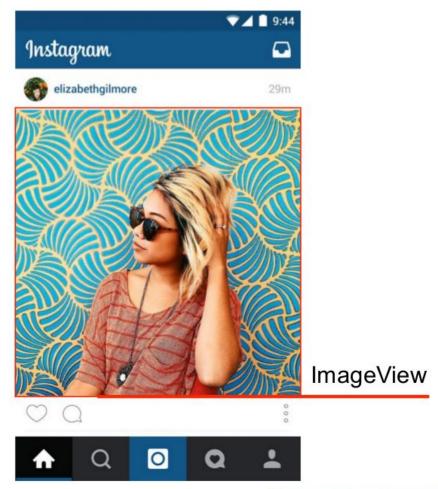






## Componentes: Layout xml









## Componentes: Layout xml

```
<?xml version="1.0" encoding="utf-8"?>
                                                                                    6:00
<RelativeLayout
                                                                  Venturus4Tech
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
                                                                  Hello World!
    android:id="@+id/activity main"
    android:layout width="match parent"
    android: layout height="match parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity horizontal margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="venturus.com.venturus4tech.MainActivity">
    <TextView
        android:id="@+id/main text"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Hello World!"/>
                                                                            0
</RelativeLayout>
```





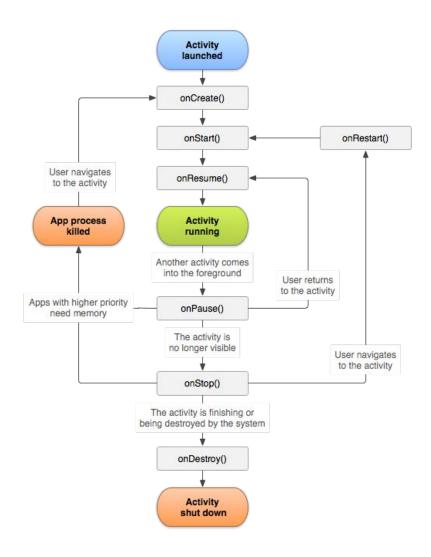
## Componentes: Activity

public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity main); // Recupera TextView do layout TextView textView = (TextView) findViewById(R.id.main text); // Adiciona um listener de Click textView.setOnClickListener((view) → { // Exibe um simple Toast na tela Toast.makeText(MainActivity.this, "Click!", Toast.LENGTH SHORT).show(); // Log que irá no Android Monitor do Android Studio Log.i("Log", "Click!");





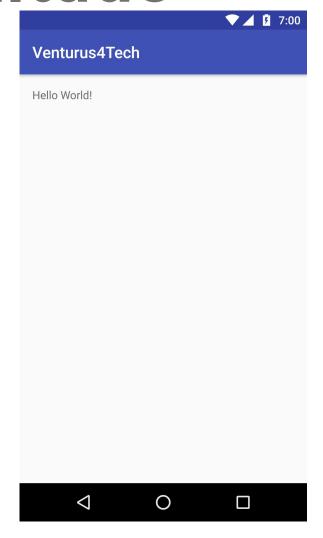
## Ciclo de vida da Activity

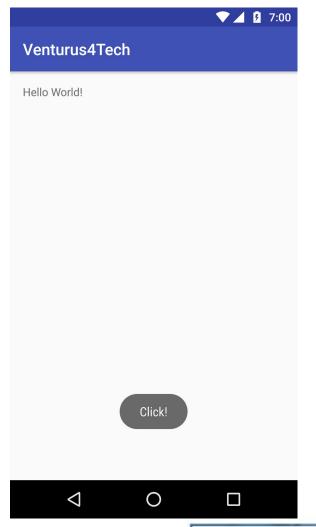






## Resultado

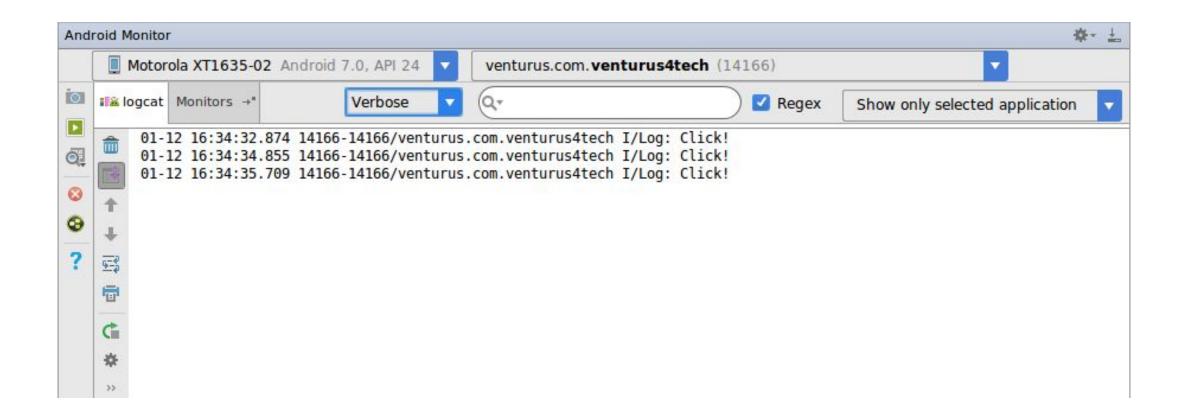








#### **Android Monitor**







## Qual plataforma desenvolver?

**Nativo** 

(Android, iOS)

X

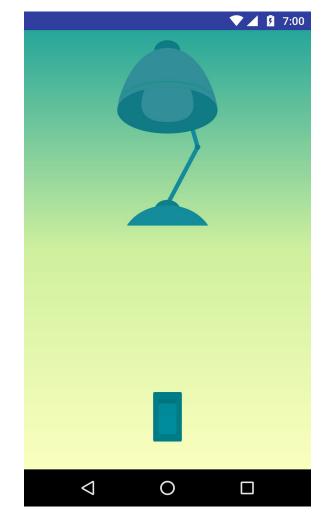
Híbrido

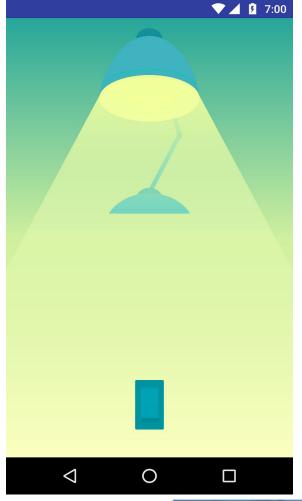
(HTML5, Xamarin, Phonegap...)





## Projeto Venturus4Tech









## Layout com WebView

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity main"
    android:layout width="match parent"
    android:layout height="match parent"
    tools:context="venturus.com.venturus4tech.MainActivity">
    <WebView
        android:id="@+id/main text"
        android:layout width="match parent"
        android:layout height="match parent"/>
</RelativeLayout>
```



## Código Java carregando html

```
public class MainActivity extends AppCompatActivity {
   @SuppressLint("SetJavaScriptEnabled")
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        WebView webView = (WebView) findViewById(R.id.main_webview);
        // Habilitar Java Script. Desabilitado por segurança!
        webView.getSettings().setJavaScriptEnabled(true);
        webView.getSettings().setDomStorageEnabled(true);
        webView.loadUrl("file:///android asset/index.html");
```





#### Permissões no Manifest

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
          package="venturus.com.venturus4tech">
    <uses-permission android:name="android.permission.INTERNET"/>
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic launcher"
        android: label="Venturus4Tech"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN"/>
                <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>
    </application>
</manifest>
```





## Tema do app

```
<resources>
```

```
<!-- Base application theme. -->
<style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">
        <!-- Customize your theme here. -->
        <item name="colorPrimary">@color/colorPrimary</item>
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
</style>
```

</resources>





## Projeto de exemplo

# https://goo.gl/j5wgEG





## Material de apoio

Documentação oficial <a href="https://developer.android.com">https://developer.android.com</a>

Fórum Android Dev Br http://slack.androiddevbr.org/

Mediu Android Dev Br https://medium.com/android-dev-br





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# Obrigado!

