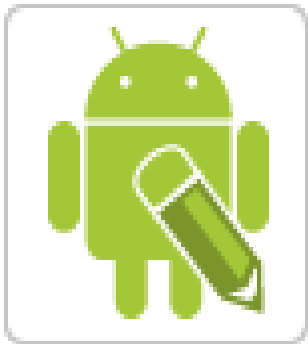


# Programação Android

## Aula 03



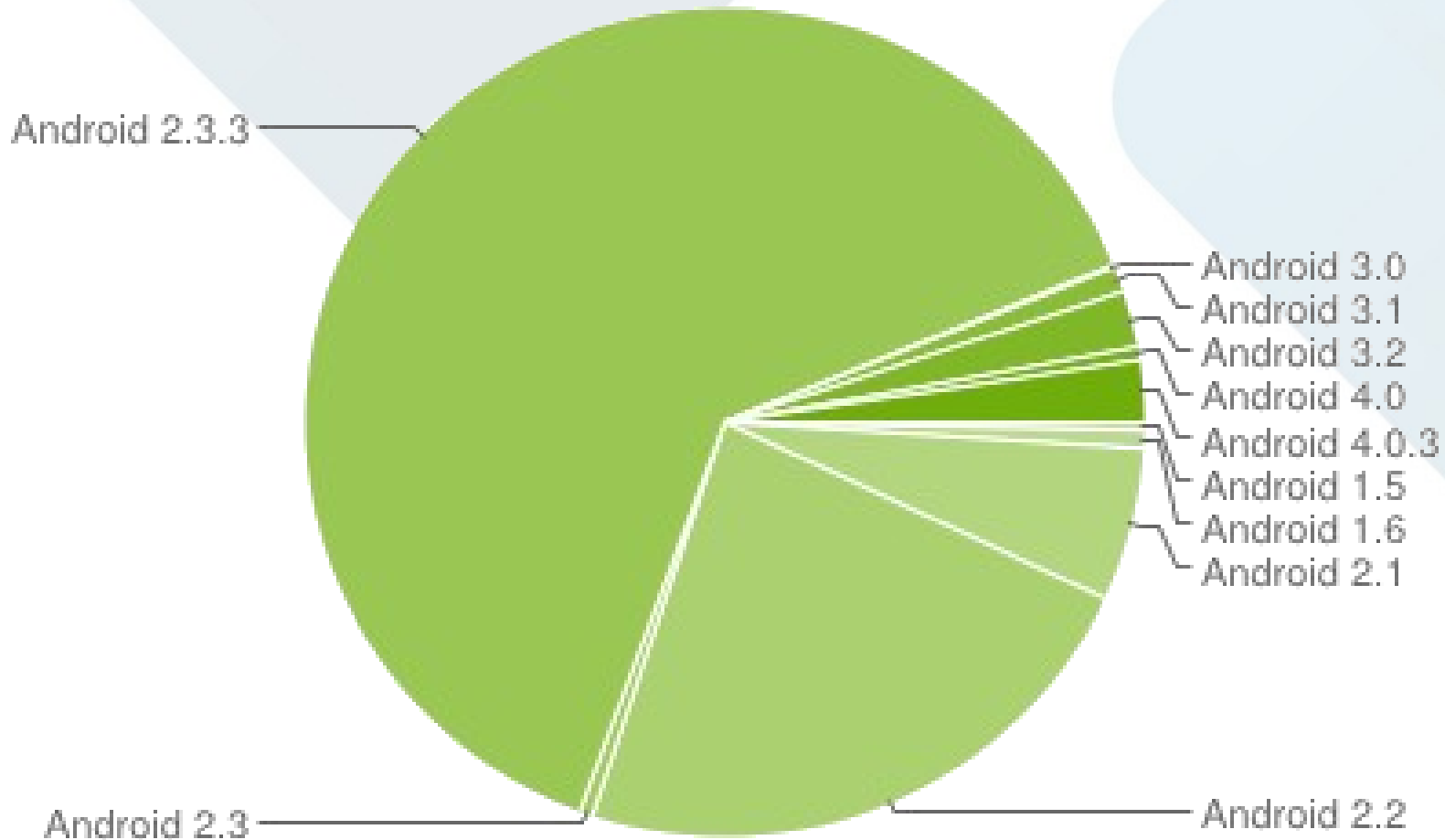
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- Plataformas
  - Uso das Versões do SDK
  - Visão geral do Eclipse
  - Instalando diferentes versões do SDK
- Layout com XML
  - LinearLayout      TableLayout
  - AbsoluteLayout      RelativeLayout
  - FrameLayout
- Executando seu aplicativo no emulador
- Testando o aplicativo no celular



# Uso das Versões do Android



<http://www.androidtapp.com/tag/android-fragmentation/>



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## Atributos

Largura, Altura: `layout_width`, `layout_height`

Margem: `layout_marginTop`, `layout_marginBottom`,  
`layout_marginLeft` e `layout_marginRight`

Modo: `layout_gravity`

Espaço extra: `layout_weight`

Coordenadas: `layout_x` e `layout_y`

`wrap_content`

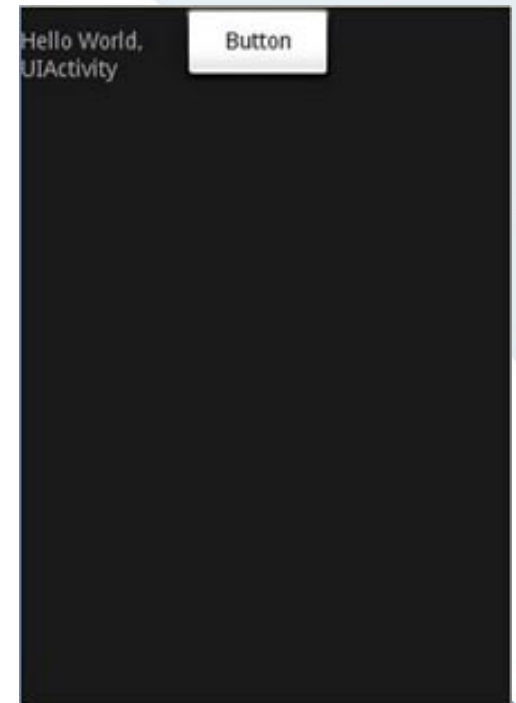
`fill_parent`



Organiza exibições em uma única  
coluna ou linha única

Objetos dispostos na vertical ou horizontal.

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TextView
        android:layout_width="105px"
        android:layout_height="wrap_content"
        android:text="@string/hello"/>
    <Button
        android:layout_width="100px"
        android:layout_height="wrap_content"
        android:text="Button" />
</LinearLayout>
```



# Grupo de Linhas e Colunas.

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_height="fill_parent"
    android:layout_width="fill_parent"
    android:background="#000044">
    <TableRow>
        <TextView android:text="User Name:" android:width="120px" />
        <EditText android:id="@+id/txtUserName"
            android:width="200px" />
    </TableRow>
    <TableRow>
        <TextView android:text="Password:" />
        <EditText android:id="@+id/txtPassword"
            android:password="true" />
    </TableRow>
    <TableRow>
        <TextView />
        <CheckBox android:id="@+id/chkRememberPassword"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content"
            android:text="Remember Password" />
    </TableRow>
    <TableRow>
        <Button android:id="@+id/buttonSignIn"
            android:text="Log In" />
    </TableRow>
</TableLayout>
```

## TableLayout



User Name:

Password:

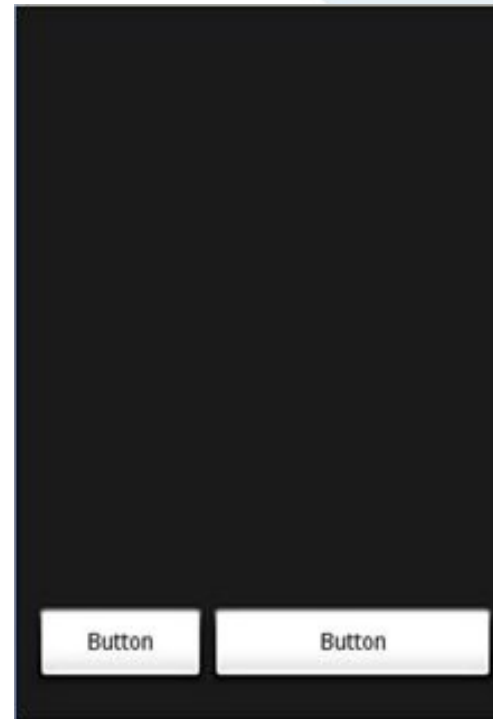
Remember Password

Log In



Especifica uma exata localização.

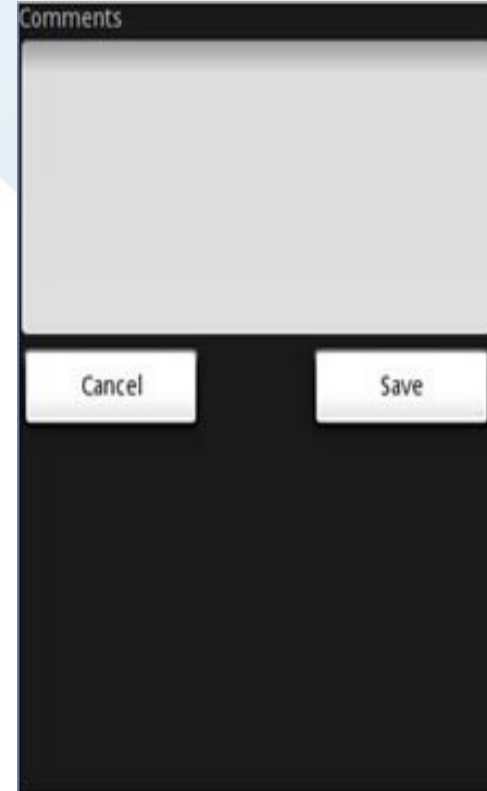
```
<?xml version="1.0" encoding="utf-8"?>
<AbsoluteLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <Button
        android:layout_width="188px"
        android:layout_height="wrap_content"
        android:text="Button"
        android:layout_x="126px"
        android:layout_y="361px"/>
    <Button
        android:layout_width="113px"
        android:layout_height="wrap_content"
        android:text="Button"
        android:layout_x="12px"
        android:layout_y="361px"/>
</AbsoluteLayout>
```



permite que seja especificado como as opiniões dos objetos são posicionados em relação uns aos outros.

## RelativeLayout

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout android:id="@+id/RLLayout"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    xmlns:android="http://schemas.android.com/apk/res/android" >
    <TextView android:id="@+id/lblComments"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" android:text="Comments"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true" />
    <EditText android:id="@+id/txtComments"
        android:layout_width="fill_parent"
        android:layout_height="170px" android:textSize="18sp"
        android:layout_alignLeft="@+id/lblComments"
        android:layout_below="@+id/lblComments"
        android:layout_centerHorizontal="true" />
    <Button android:id="@+id/btnSave" android:layout_width="125px"
        android:layout_height="wrap_content"
        android:text="Save" android:layout_below="@+id/txtComments"
        android:layout_alignRight="@+id/txtComments" />
    <Button android:id="@+id/btnCancel"
        android:layout_width="124px" android:layout_height="wrap_content"
        android:text="Cancel" android:layout_below="@+id/txtComments"
        android:layout_alignLeft="@+id/txtComments" />
</RelativeLayout>
```



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## FrameLayout

Espaço reservado na tela que usado para mostrar uma View única.

Exibições para adicionar a uma FrameLayout é sempre ancorada no canto superior esquerdo do layout

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<AbsoluteLayout
```

```
  xmlns:android="http://schemas.android.com/apk/res/android"
```

```
  android:id="@+id/widget68"
```

```
  android:layout_width="fill_parent"
```

```
  android:layout_height="fill_parent">
```

```
  <FrameLayout
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:layout_x="40px"
```

```
    android:layout_y="35px" >
```

```
    <ImageView android:src = "@drawable/androidlogo"
```

```
      android:layout_width="wrap_content"
```

```
      android:layout_height="wrap_content" />
```

```
  </FrameLayout>
```

```
</AbsoluteLayout>
```



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# Dúvidas? Agradecimentos

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