

# Linear Layout-weight

Dhanya N.M.

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="horizontal"

tools:context=".MainActivity">

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/et"/>

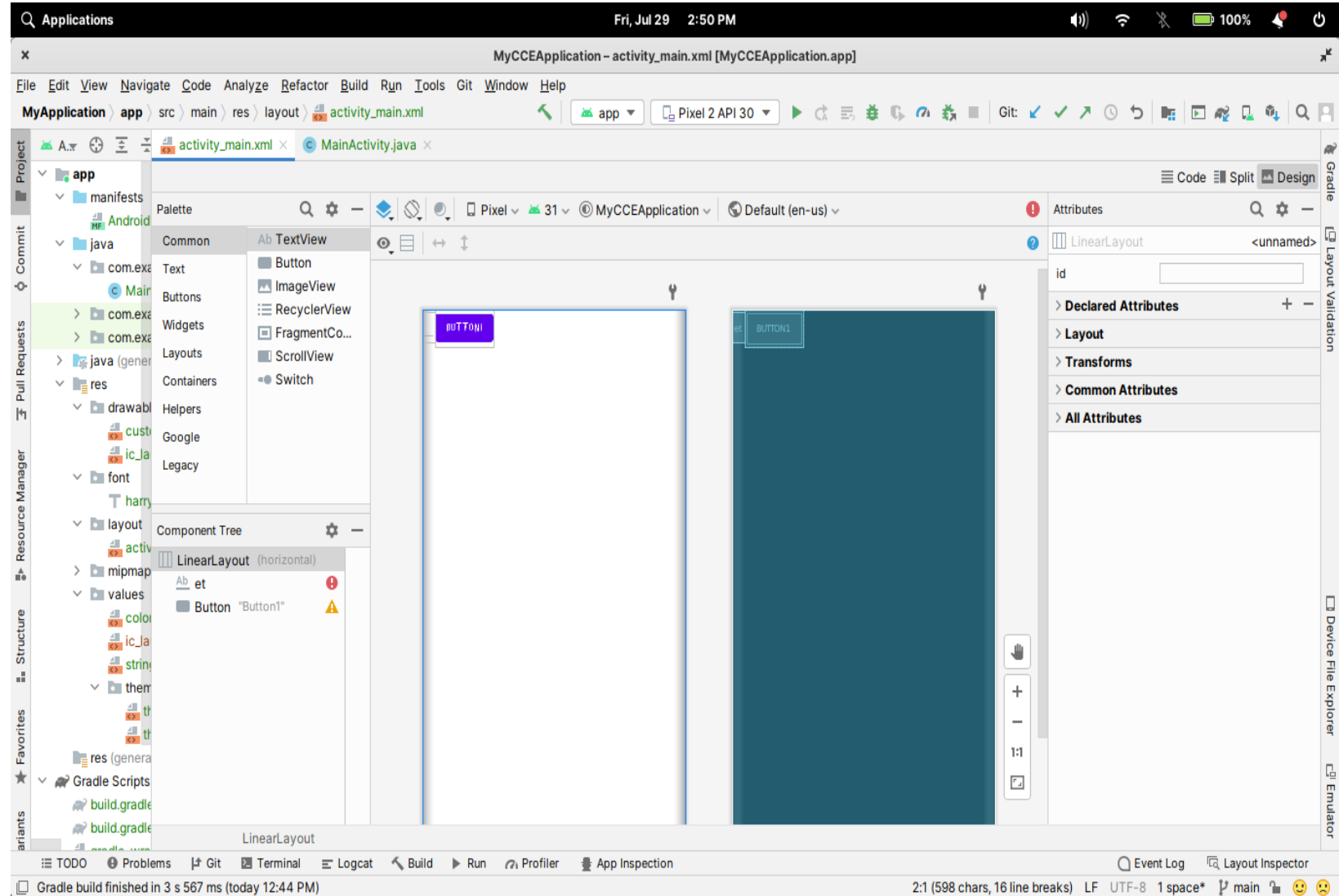
<Button

android:layout\_width="wrap\_content"

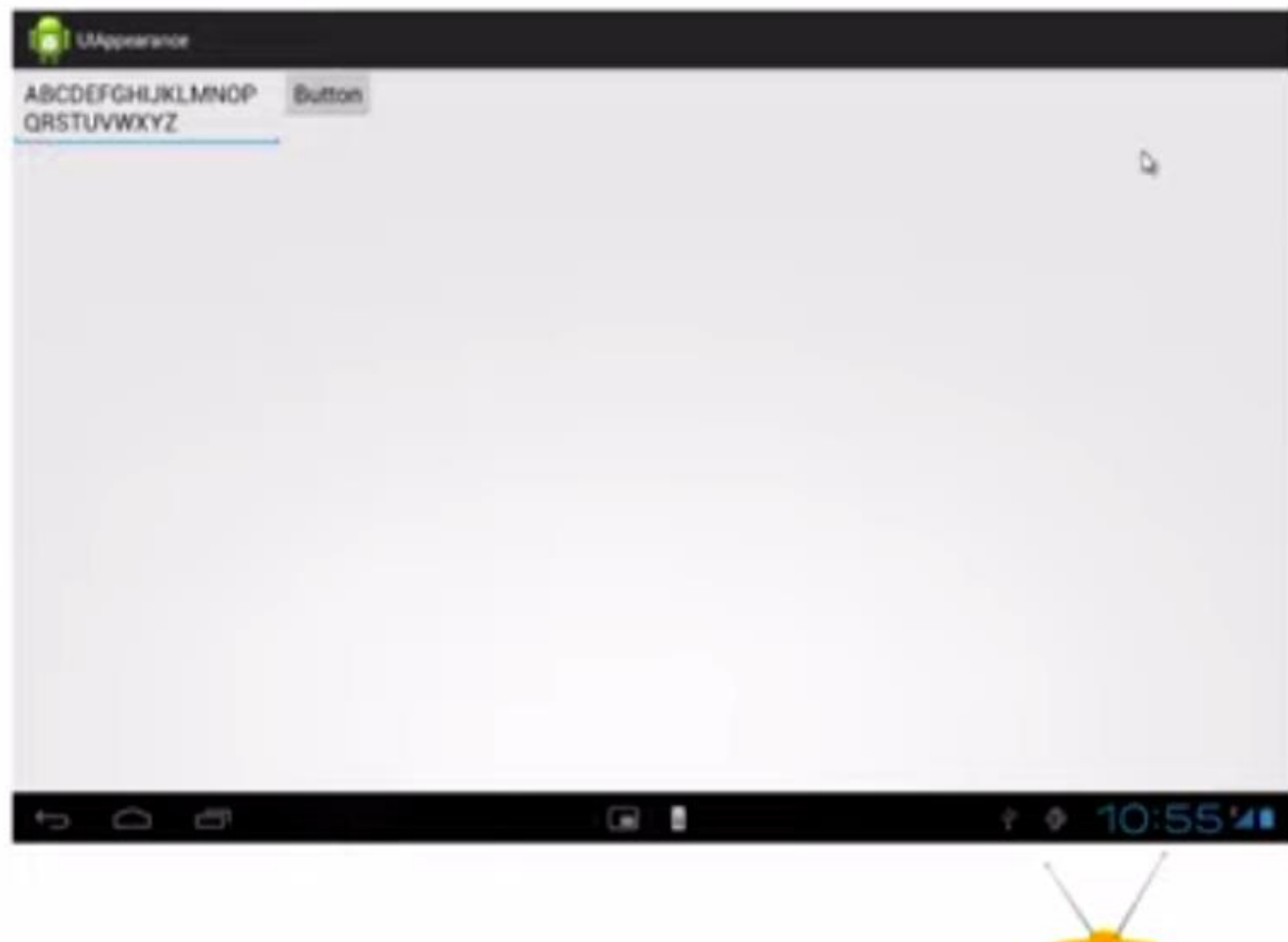
android:layout\_height="wrap\_content"

android:text="Button1"/>

</LinearLayout>



# What is this about?

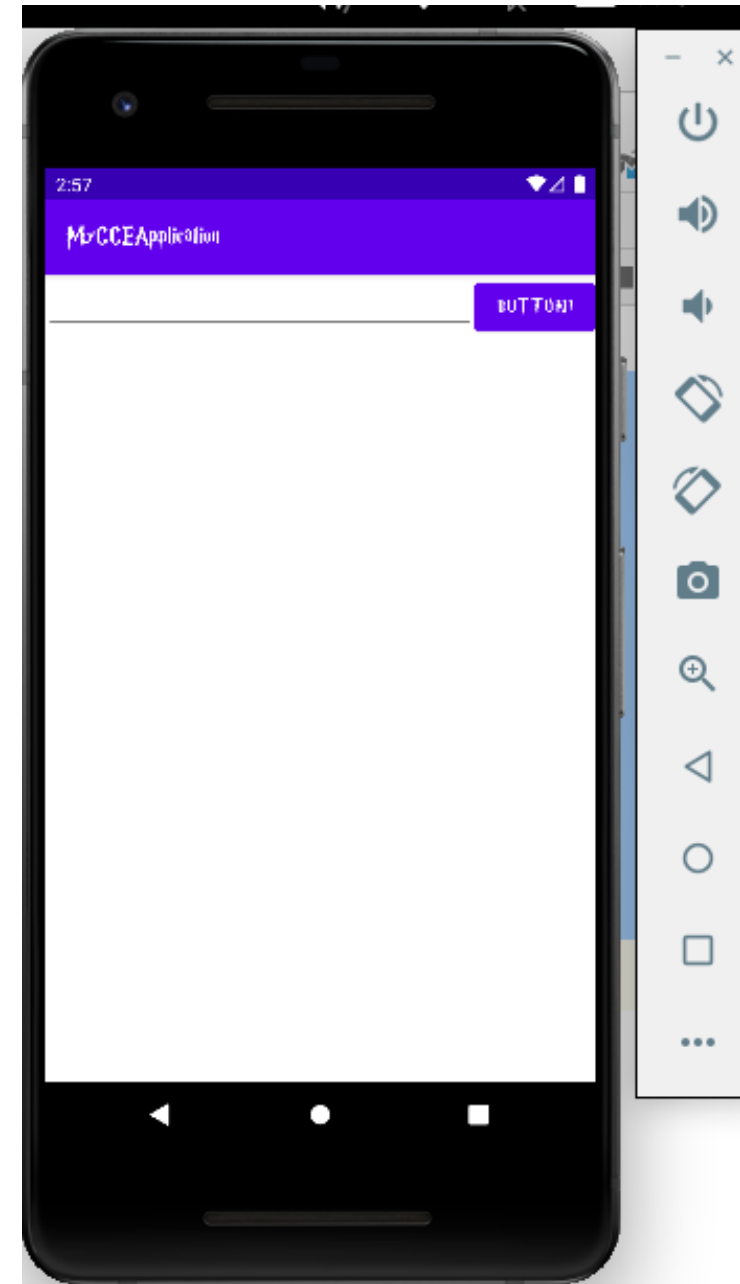


```
<EditText  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_weight="1"  
    android:id="@+id/et"/>  
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Button1"/>
```

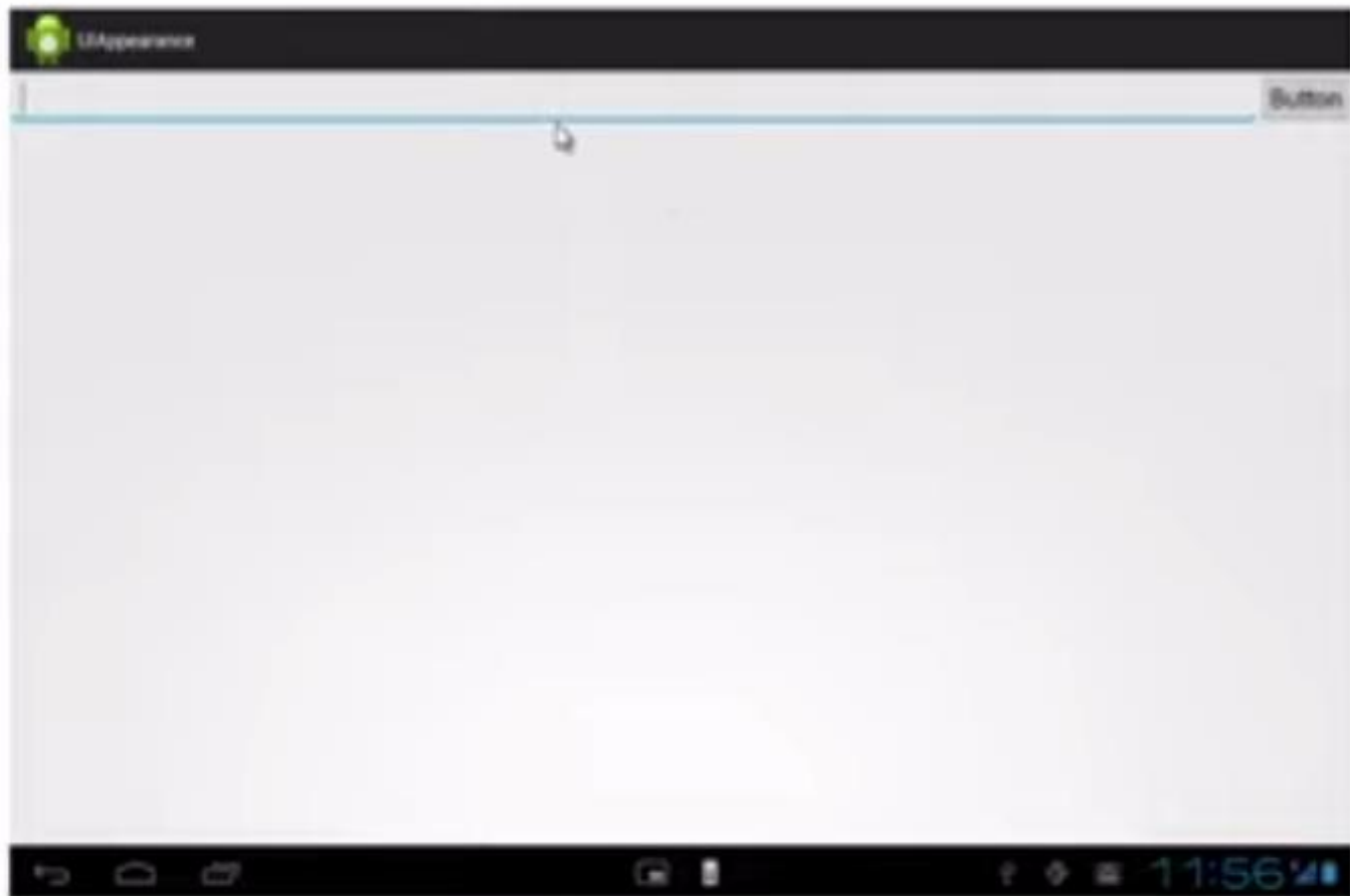
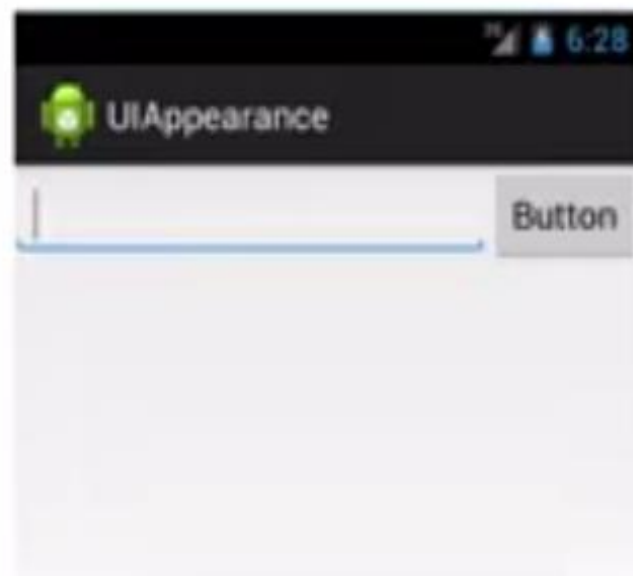
Take button space and rest by edittext

Layout weight is zero by default

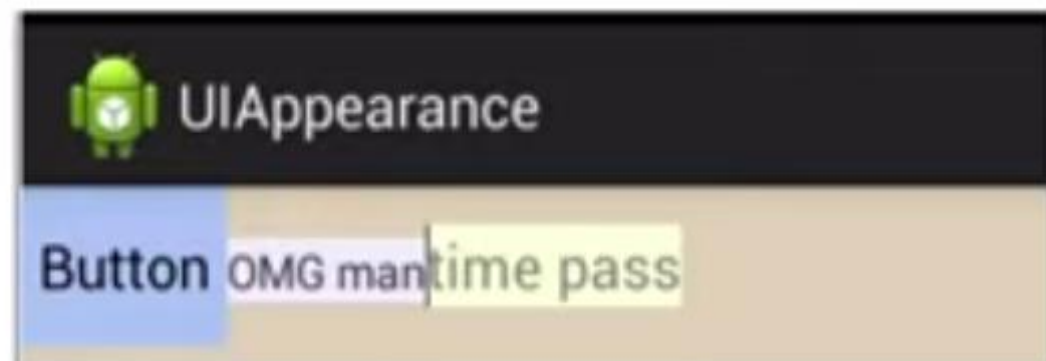
Layout weight to 2 no change since you have only one control with weight



Look at the consistency



# Relative Importance



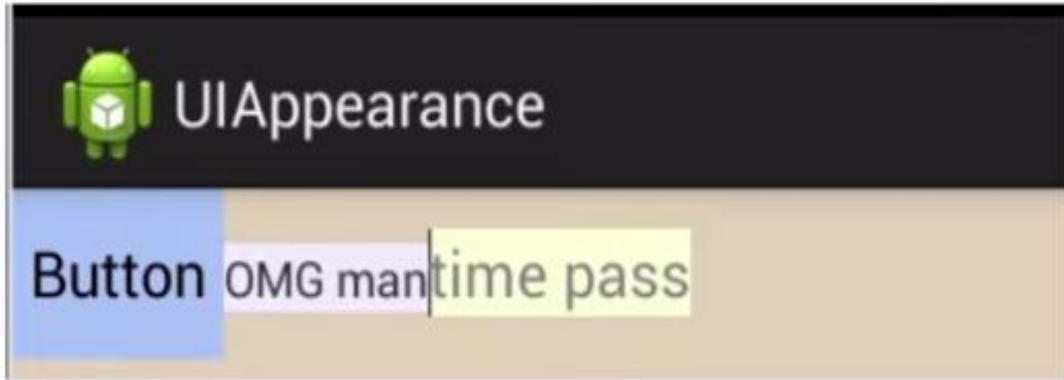
No layout weights used here



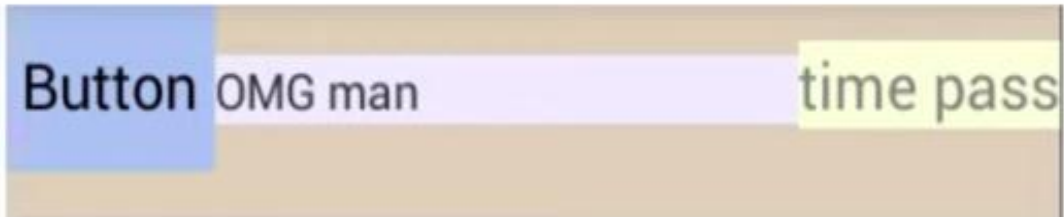
Layout weight 1 for "OMG man" TextView



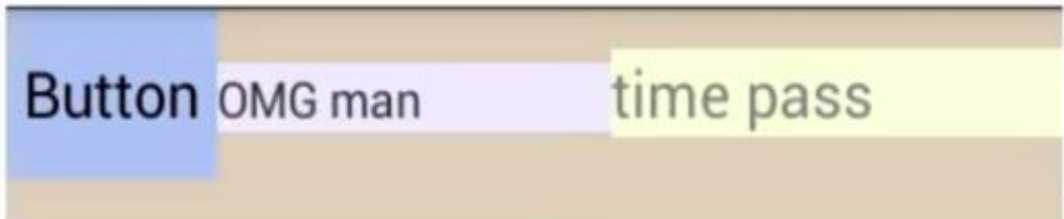
# Relative Importance



No layout weights used here

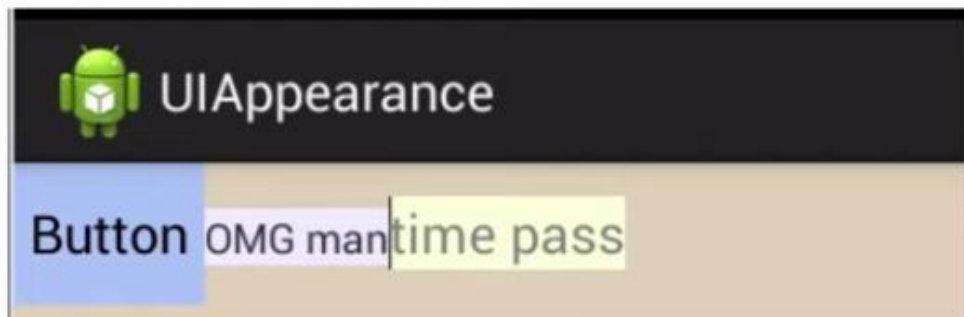


Layout weight 1 for "OMG man" TextView

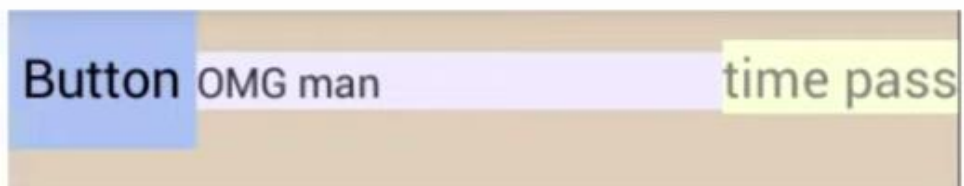


weight 1 for both OMG man and time pass

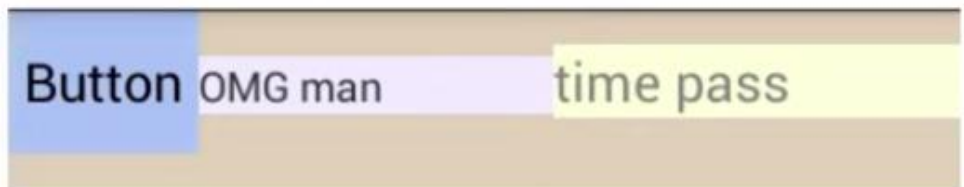
# Relative Importance



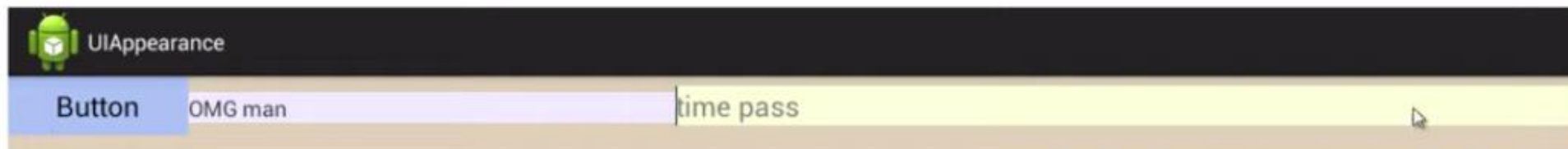
No layout weights used here



Layout weight 1 for “OMG man” TextView



weight 1 for both OMG man and time pass



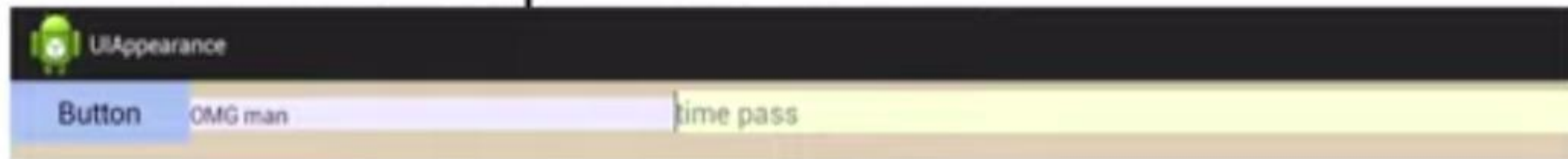
Weight 1

Weight 4

Weight 8



# Relative Importance



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Weight 4

Weight 8

No weight then no calculation



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Android 1<sup>st</sup> calculates total weight =  $1 + 4 + 8 = 13$

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Button gets  $1/13$  of total available width

OMG man gets  $4/13$

Time pass gets  $8/13$

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```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ddccbb">
```

```
<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="#aaccee"
    android:layout_weight="1"
    android:text="Button" />
```

```
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="#eef"
    android:layout_weight="4"
    android:text="OMG man" />
```

```
<EditText
    android:id="@+id/edit1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:background="#ffffdd"
    android:layout_weight="8"
    android:hint="time pass" />
```

```
</LinearLayout>
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`layout_width="wrap_content"` is REDUNDANT

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Set `layout_width="0dp"` for horizontal linear layout if you use `layout_weight`

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<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
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        android:layout_height="wrap_content"
        android:background="#aaccee"
        android:layout_weight="1"
        android:text="Button" />

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        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#eef"
        android:layout_weight="4"
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        android:id="@+id/edit1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
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<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ddccbb">

    <Button
        android:id="@+id/button1"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="#aaccee"
        android:layout_weight="1"
        android:text="Button" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="#eef"
        android:layout_weight="4"
        android:text="OMG man" />

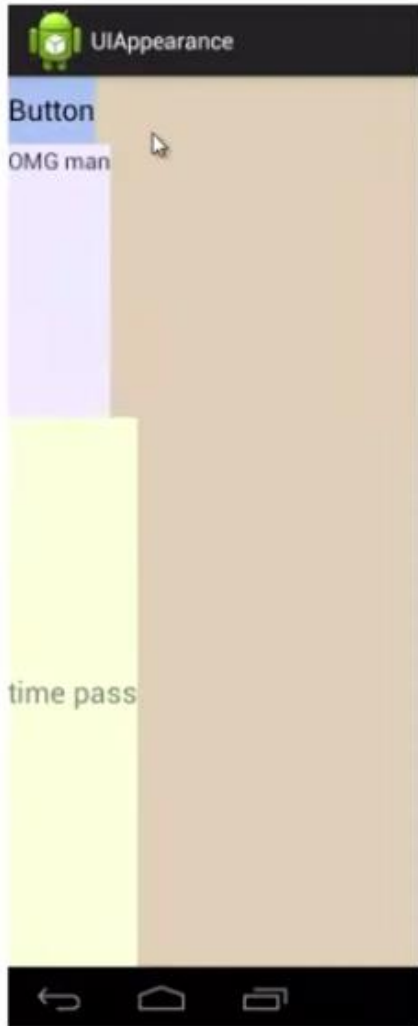
    <EditText
        android:id="@+id/edit1"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:background="#ffffdd"
        android:layout_weight="8"
        android:hint="time pass" />

</LinearLayout>
```

What if Linear Layout is vertical?

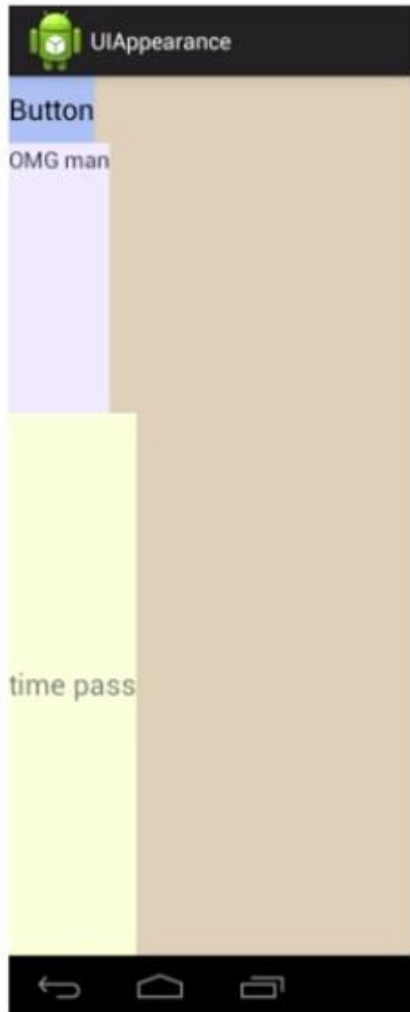


# What if Linear Layout is vertical?



Set `layout_height="0dp"` for vertical linear layout if you use `layout_weight`

# What if Linear Layout is vertical?



Set `layout_height="0dp"` for vertical linear layout if you use `layout_weight`

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="#ddccbb">

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="0dp"
        android:background="#aaccee"
        android:layout_weight="1"
        android:text="Button" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="0dp"
        android:background="#eef"
        android:layout_weight="4"
        android:text="OMG man" />

    <EditText
        android:id="@+id/edit1"
        android:layout_width="wrap_content"
        android:layout_height="0dp"
        android:background="#ffffdd"
        android:layout_weight="8"
        android:hint="time pass" />

</LinearLayout>
```