

# Android勉強会 基礎開発セミナー 第二回資料



早稲田大学  
丸山 不二夫

# Android View/Layout Study

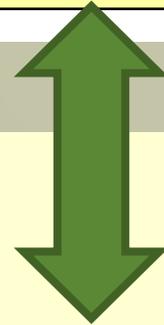
Activityは、`setContentView`メソッドでViewを呼び出す。その静的な配置は、`res/layout/*.xml`で定義できる。

# ActivityからのViewの呼び出し

---

```
public class HelloMaruyama extends Activity {  
  @Override  
  public void onCreate(Bundle icicle) {  
    super.onCreate(icicle);  
    setContentView( R.layout.main );  
  }  
}
```

Activityを定義するJavaファイル



```
public final class R {  
  .....  
  public static final class layout {  
    public static final int main=0x7f030000;  
  }  
  .....  
}
```

リソースを再定義するR.javaファイル

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

```
<LinearLayout
```

```
xmlns:android=
```

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

```
    android:orientation="vertical"
```

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

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

```
>
```

```
<TextView
```

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

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

```
    android:text=" Hello Maruyama"
```

```
/>
```

```
</LinearLayout>
```

Viewを定義する

res/layout/main.xmlファイル

**Layout.xmlファイルの要素の親子関係で、  
Viewの階層構造を表現する**

---

**LinearLayout**

**TextView**

# View/Layoutの階層構造

---

**Layout.xmlファイルの要素の親子関係で、  
Viewの階層構造を表現する**

---

**LinearLayout**

**TextView**

**TextView**

**TextView**

```
<LinearLayout xmlns:android=  
"http://schemas.android.com/apk/res/android"  
android:orientation="vertical" ....>
```

```
<TextView
```

```
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent" .... />
```

```
<TextView
```

```
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent" ..... />
```

```
<TextView
```

```
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent" .... />
```

```
</LinearLayout>
```

Views/Layouts/LinearLayout/2. Vertical (Fill Sc

This is the top view.

This is the middle view. It has more text in it than either the top view or the bottom view.

This is the bottom view.

TextView

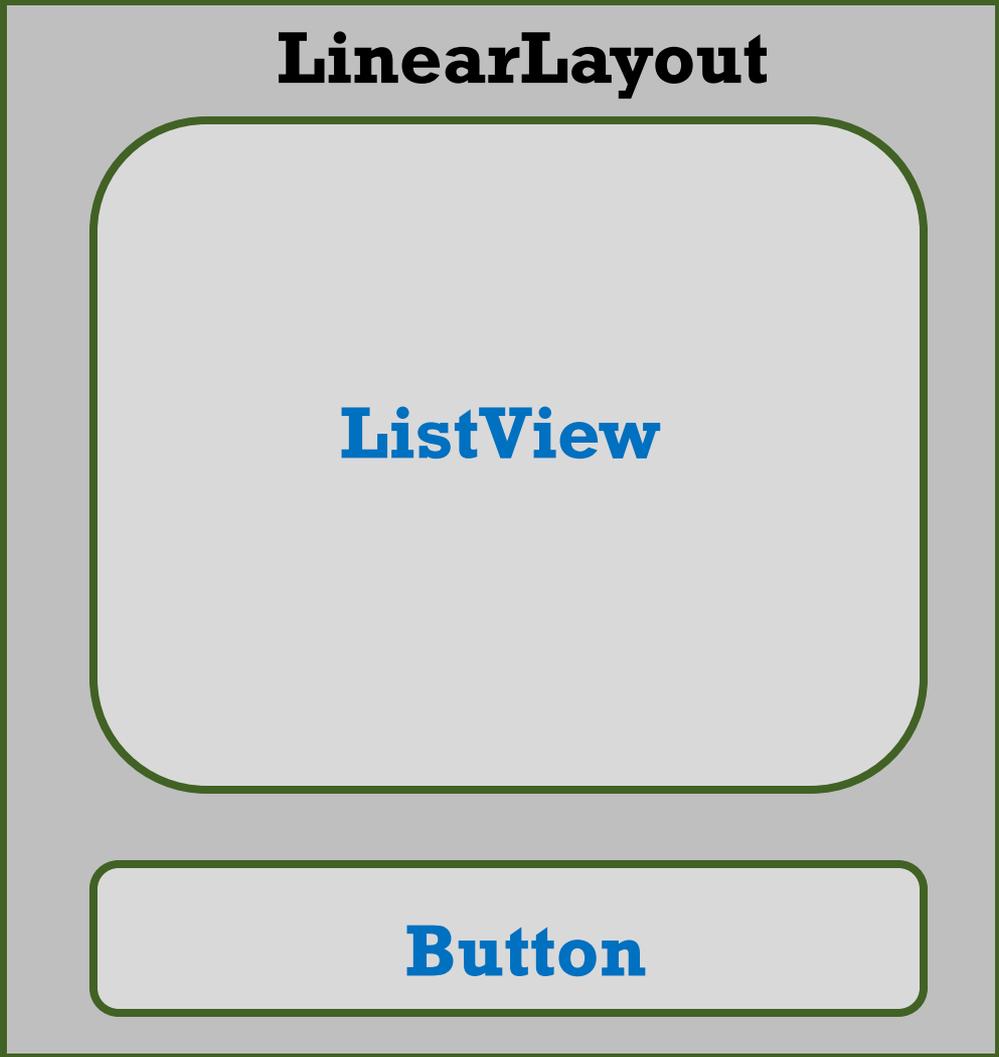
TextView

TextView

# 任意のView/Widgetが、Layoutの対象となる

---

**LinearLayout**



The diagram illustrates a LinearLayout container. It is represented by a light gray rounded rectangle with a dark green border. Inside this container, there are two child views: a larger rounded rectangle labeled 'ListView' and a smaller rounded rectangle labeled 'Button', both with dark green borders. The 'ListView' is positioned above the 'Button', demonstrating vertical stacking within a LinearLayout.

**ListView**

**Button**

## <LinearLayout

```
xmlns:android="http://...../android"  
android:orientation="vertical" ..... >
```

```
<ListView android:id="@+id/list"  
  android:layout_width="fill_parent"  
  android:layout_height="wrap_content"  
  android:layout_weight="1.0" />
```

## <Button

```
  android:layout_width="fill_parent"  
  android:layout_height="wrap_content"  
  android:text=  
    "@string/linear_layout_9_button" />
```

```
</LinearLayout>
```

Afghanistan

Albania

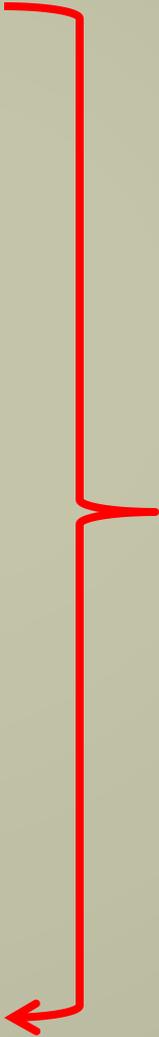
Algeria

American Samoa

Andorra

Angola

Button



ListView

Viewの集まりをViewGroupと呼ぶ。  
ViewGroupは、ViewGroupを含むことができる。

---

**LinearLayout V**  
**ViewGroup**

**TextView**

**EditView**

**LinearLayout H**  
**ViewGroup**

**Button**

**Button**

**<LinearLayout**

xmlns:android="http://schemas....."

android:orientation="vertical" ....>

**<TextView .... />**

**<EditText..... />**

**<LinearLayout**

android:orientation="horizontal" .....>

**<Button .... />**

**<Button .... />**

**</LinearLayout>**

**</LinearLayout>**



12:08 AM

Views/Layouts/LinearLayout/5. Simple Form

Type Here:

Cancel

OK

# View/Layoutの属性

---

一つのViewには、  
一つのLayoutの要素が対応し、  
それぞれのViewの属性には、  
そのViewに対応する要素の属性が対応する。  
それぞれのViewクラスの継承関係に応じて、  
XML属性も継承される。  
非常に多数の属性が存在するが、  
ここではいくつかの属性と属性値のみを取り上げる。

# 属性值 “fill\_parent”

12:05 AM

Views/Layouts/LinearLayout/2. Vertical (Fill Sc

This is the top view.

This is the middle view. It has more text in it than either the top view or the bottom view.

This is the bottom view.

`android:layout_width="fill_parent"`

```
<LinearLayout xmlns:android=
  "http://schemas.android.com/apk/res/android"
  android:orientation="vertical"
  android:background="@drawable/blue"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent">

  <TextView
    android:background="@android:drawable/box"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/linear_layout_2_top"/>

  <TextView
    android:background="@android:drawable/box"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/linear_layout_2_middle"/>

  <TextView
    android:background="@android:drawable/box"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/linear_layout_2_bottom"/>

</LinearLayout>
```

# 属性値 “fill\_parent” と “wrap\_content”

12:04 AM

Views/Layouts/LinearLayout/1. Vertical

This is the top view.

This is the middle view. It has more text in it than either the top view or the bottom view.

This is the bottom view.

`android:layout_width="fill_parent"`

```
<LinearLayout xmlns:android=
  "http://schemas.android.com/apk/res/android"
  android:orientation="vertical"
  android:background="@drawable/blue"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content">
```

```
<TextView
  android:background="@android:drawable/box"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/linear_layout_1_top"/>
```

```
<TextView
  android:background="@android:drawable/box"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/linear_layout_1_middle"/>
```

```
<TextView
  android:background="@android:drawable/box"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/linear_layout_1_bottom"/>
```

```
</LinearLayout>
```

# 属性値 “fill\_parent” と “wrap\_content”

12:04 AM

Views/Layouts/LinearLayout/1. Vertical

This is the top view.

This is the middle view. It has more text in it than either the top view or the bottom view.

This is the bottom view.

`android:layout_width="fill_parent"`

```
<LinearLayout xmlns:android=
    "http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:background="@drawable/blue"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">
```

```
<TextView
    android:background="@android:drawable/box"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/linear_layout_1_top"/>
```

```
<TextView
    android:background="@android:drawable/box"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/linear_layout_1_middle"/>
```

```
<TextView
    android:background="@android:drawable/box"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/linear_layout_1_bottom"/>
```

```
</LinearLayout>
```

# 属性 layout\_weight

12:07 AM

Views/Layouts/LinearLayout/3. Vertical (Padded)

This is the top view.

This is the middle view. It has more text in it than either the top view or the bottom view.

This is the bottom view.

```
<LinearLayout xmlns:android="
    http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:background="@drawable/blue"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">

    <TextView
        android:background="@android:drawable/box"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="@string/linear_layout_3_top"/>

    <TextView
        android:background="@android:drawable/box"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="@string/linear_layout_3_middle"/>

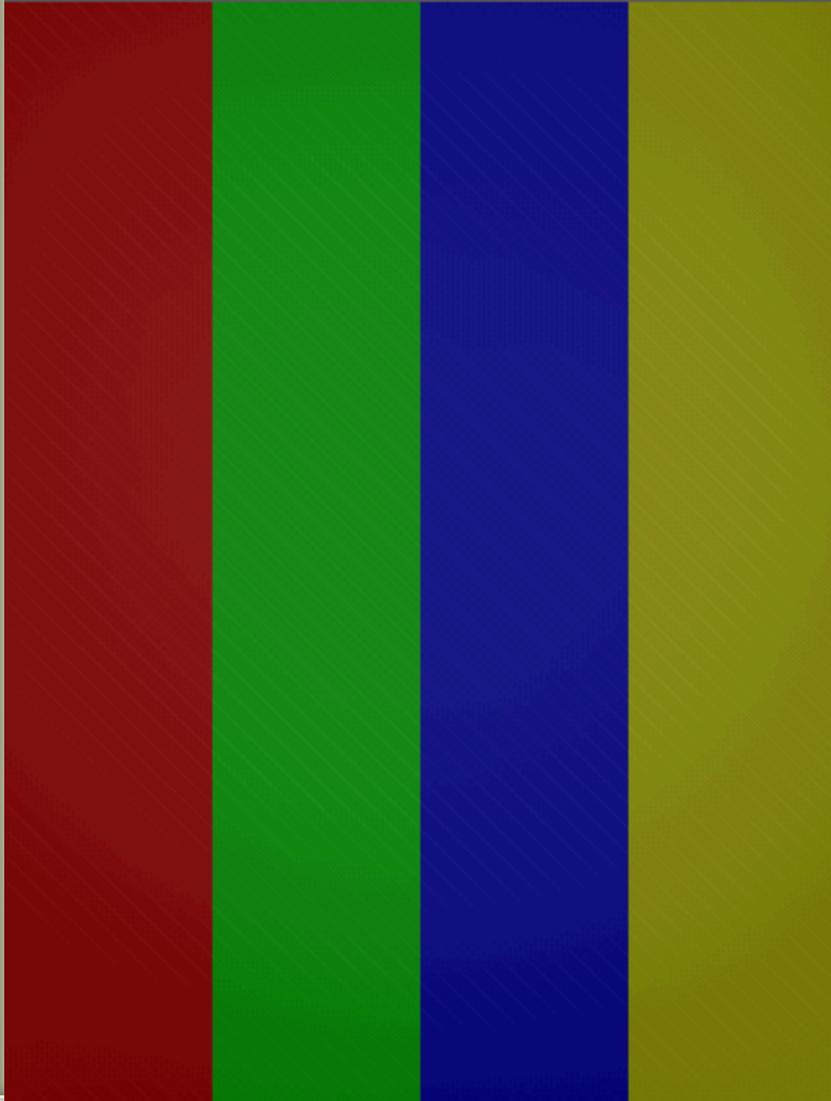
    <TextView
        android:background="@android:drawable/box"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="@string/linear_layout_3_bottom"/>

</LinearLayout>
```

# 属性backgroundとlayout\_weight

12:07 AM

Views/Layouts/LinearLayout/4. Horizontal



```
<LinearLayout xmlns:android="http://....."  
    android:orientation="horizontal"  
    android:layout_width="fill_parent"  
    android:layout_height="fill_parent">
```

```
<TextView  
    android:background="@drawable/red"  
    android:layout_width="0dip"  
    android:layout_height="fill_parent"  
    android:layout_weight="1"/>
```

```
<TextView  
    android:background="@drawable/green"  
    android:layout_width="0dip"  
    android:layout_height="fill_parent"  
    android:layout_weight="1"/>
```

```
<TextView  
    android:background="@drawable/blue"  
    android:layout_width="0dip"  
    android:layout_height="fill_parent"  
    android:layout_weight="1"/>
```

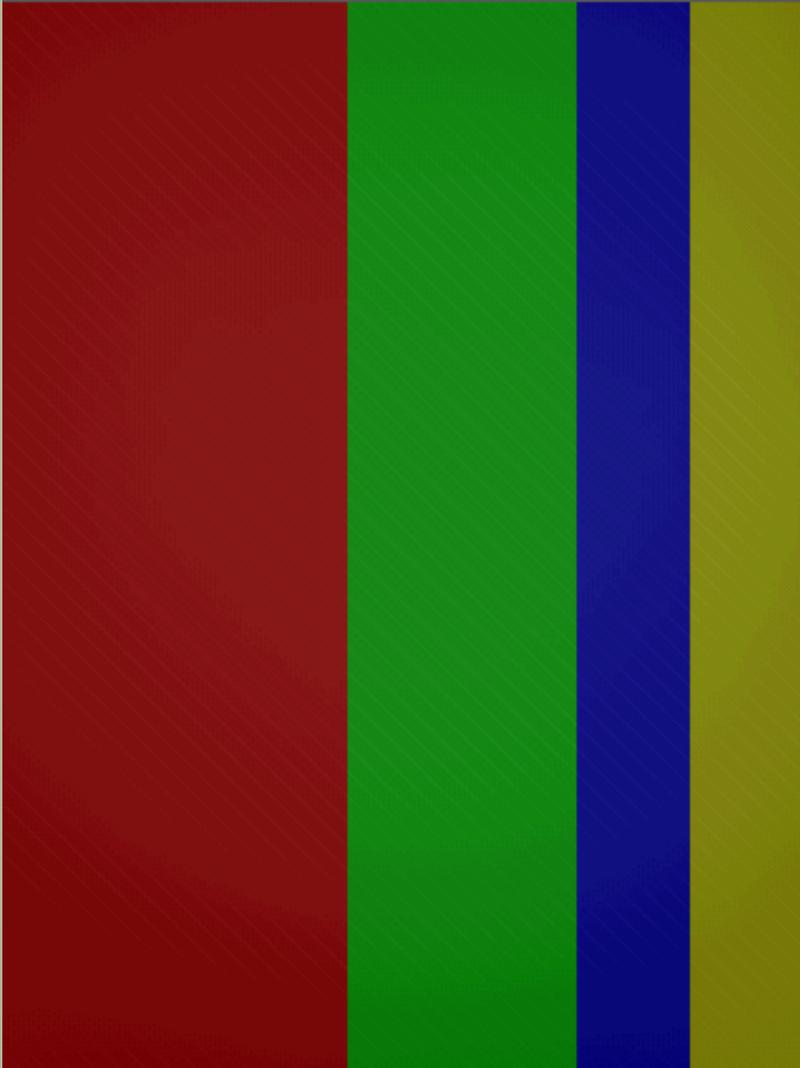
```
<TextView  
    android:background="@drawable/yellow"  
    android:layout_width="0dip"  
    android:layout_height="fill_parent"  
    android:layout_weight="1"/>
```

```
</LinearLayout>
```

# 属性backgroundとlayout\_weight

12:28 PM

Views/Layouts/LinearLayout/4. Horizontal



```
<LinearLayout xmlns:android="http://....."  
  android:orientation="horizontal"  
  android:layout_width="fill_parent"  
  android:layout_height="fill_parent">
```

```
<TextView  
  android:background="@drawable/red"  
  android:layout_width="0dip"  
  android:layout_height="fill_parent"  
  android:layout_weight="3"/>
```

```
<TextView  
  android:background="@drawable/green"  
  android:layout_width="0dip"  
  android:layout_height="fill_parent"  
  android:layout_weight="2"/>
```

```
<TextView  
  android:background="@drawable/blue"  
  android:layout_width="0dip"  
  android:layout_height="fill_parent"  
  android:layout_weight="1"/>
```

```
<TextView  
  android:background="@drawable/yellow"  
  android:layout_width="0dip"  
  android:layout_height="fill_parent"  
  android:layout_weight="1"/>
```

```
</LinearLayout>
```

# View/Layoutのプログラミング

---

Layout XMLの要素には、同名のViewクラスが対応し、その属性には、関連した名のsetterメソッドが対応する。その意味では、Layoutファイルの参照なしに、Viewをプログラムすることは、可能である。

```
<LinearLayout
  xmlns:android=
    http://schemas.android.com/apk/res/android
  android:layout_width="fill_parent"
  android:layout_height="fill_parent">
```

```
<TextView
  android:id="@+id/text"
  android:gravity="center_vertical"
  android:textAlign="center"
  android:textSize="40sp"
  android:text="@string/hello_world"
/>
```

```
</LinearLayout>
```

この**Layout**ファイルと等価なプログラムを作る

```
<LinearLayout
  xmlns:android=
    http://schemas.android.com/apk/res/android
  android:layout_width="fill_parent"
  android:layout_height="wrap_content">
```



```
LinearLayout layout = new LinearLayout(this);
LinearLayout.LayoutParams p =
  new LinearLayout.LayoutParams(
    LinearLayout.LayoutParams.FILL_PARENT,
    LinearLayout.LayoutParams.WRAP_CONTENT);
```

```
<TextView
  android:id="@+id/text"
  android:gravity="center_vertical"
  android:textAlign="center"
  android:textSize="40sp"
  android:text="@string/hello_world"
/>
```



```
TextView textView = new TextView(this);
textView.setGravity(Gravity.CENTER_VERTICAL);
textView.setAlignment(Alignment.ALIGN_CENTER);
textView.setTextSize(TypedValue.COMPLEX_UNIT_SP,40);
textView.setText("Hello Maruyama!");
```

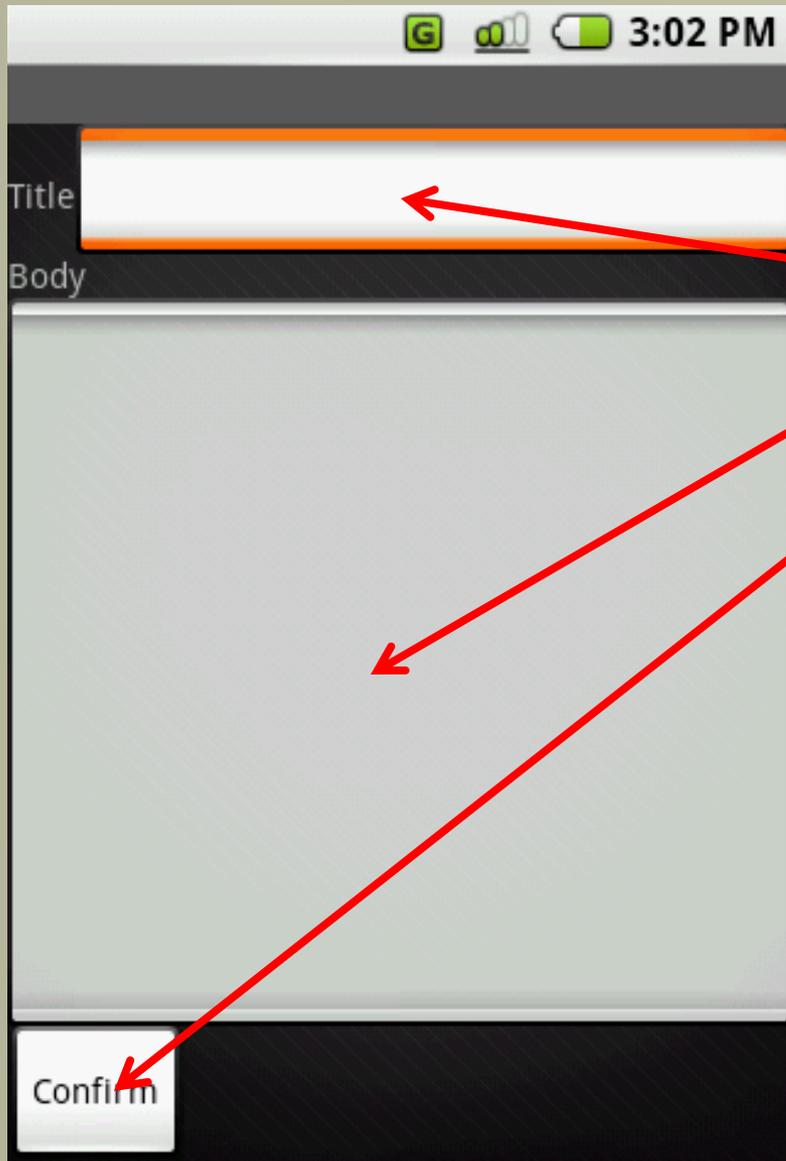
```
public void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    LinearLayout layout = new LinearLayout(this);  
    LinearLayout.LayoutParams p =  
        new LinearLayout.LayoutParams(  
            LinearLayout.LayoutParams.FILL_PARENT,  
            LinearLayout.LayoutParams.WRAP_CONTENT);  
  
    TextView textView = new TextView(this);  
    textView.setGravity(Gravity.CENTER_VERTICAL);  
    textView.setAlignment(Alignment.ALIGN_CENTER);  
    textView.setTextSize(  
        TypedValue.COMPLEX_UNIT_SP, 40);  
    textView.setText("Hello Maruyama!");  
  
    layout.addView(textView, p);  
    setContentView(layout);  
}
```

# ViewへのイベントListenerの設定

---

Viewの基本的な役割は、ユーザーとのインターフェースとして、ユーザーが産み出すイベントを取得して、それに対するアクションを起こすことである。それは、イベントを取得べきViewに、あらかじめListenerを定義・設定することによって行われる。イベントによって引き起こされるアクションは、Listener内の'on+イベント名'という名前を持つアクション・メソッドに定義する。

# findViewById listenerを設定すべきViewの取得

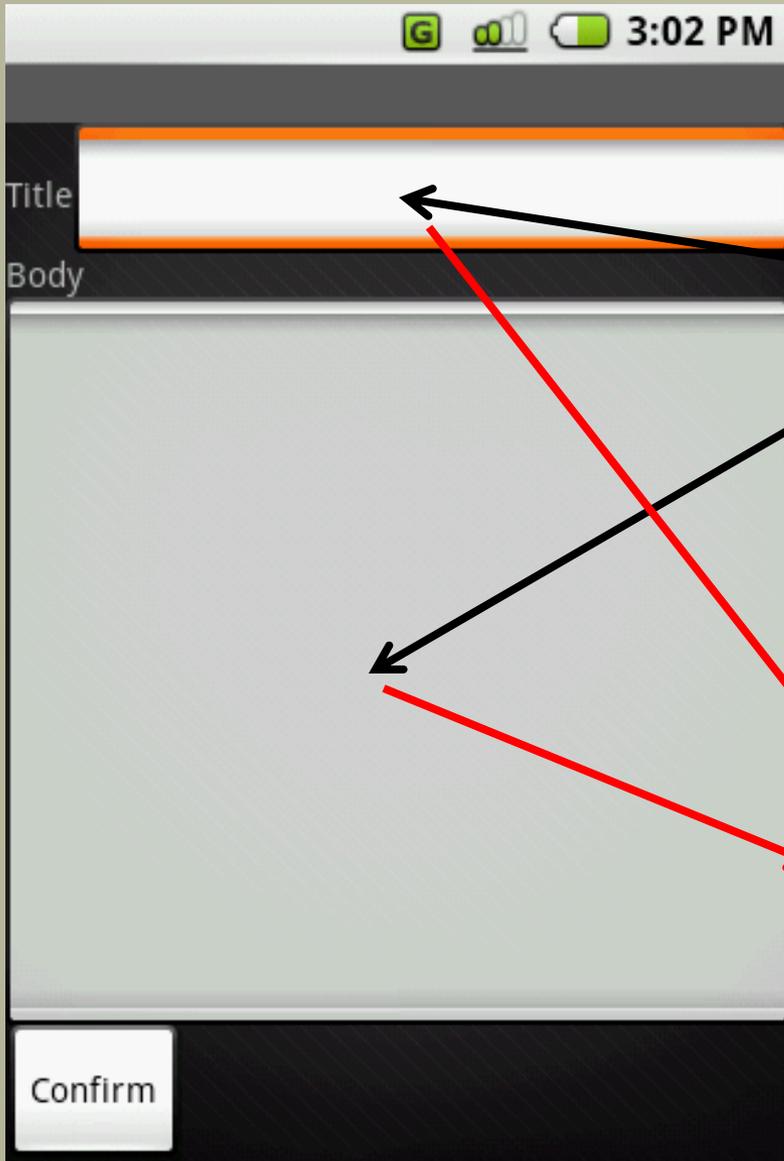


```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.note_edit);  
    .....  
    mTitleText = (EditText)  
        findViewById(R.id.title);  
    mBodyText = (EditText)  
        findViewById(R.id.body);  
    Button confirmButton = (Button)  
        findViewById(R.id.confirm);  
}
```

```
<EditText android:id="@+id/title" ../>  
<EditText android:id="@+id/body" .../>  
<Button android:id="@+id/confirm" ../>
```

Layout ファイルでのIDの定義

# Viewから文字列の取得



```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.note_edit);  
    .....  
    mTitleText = (EditText)  
        findViewById(R.id.title);  
    mBodyText = (EditText)  
        findViewById(R.id.body);  
    Button confirmButton = (Button)  
        findViewById(R.id.confirm);  
}
```

```
mTitleText.getText().toString()
```

```
mBodyText.getText().toString()
```

文字列の取得

# ViewへのListenerの設定

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.note_edit);
    .....
    confirmButton.setOnClickListener(new View.OnClickListener() {

        public void onClick(View view) {
            Bundle bundle = new Bundle();
            bundle.putString(NotesDbAdapter.KEY_TITLE,
                mTitleText.getText().toString());
            bundle.putString(NotesDbAdapter.KEY_BODY,
                mBodyText.getText().toString());
            if (mRowId != null) {
                bundle.putLong(NotesDbAdapter.KEY_ROWID, mRowId);
            }
            setResult(RESULT_OK, bundle);
            finish();
        }
    });
}
```

# ListActivityでのclick処理

G   3:04 PM

Notepad v2

maruyama

```
public class Notepadv2
    extends ListActivity {
    .....
    protected void onListItemClick(
        ListView l, View v, int position, long id) {
        super.onListItemClick( l, v, position, id);
        Cursor c = mNotesCursor;
        c.moveTo(position);
        .....
    }
```

Notepadv2内では、  
Listenerの設定がない？



ListActivity内でListenerの  
設定が行われている。

[android.widget.AdapterView.OnItemClickListener](#)

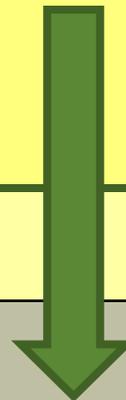
# ListViewのLayout

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content">
```

```
    <ListView android:id="@+id/android:list"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"/>
```

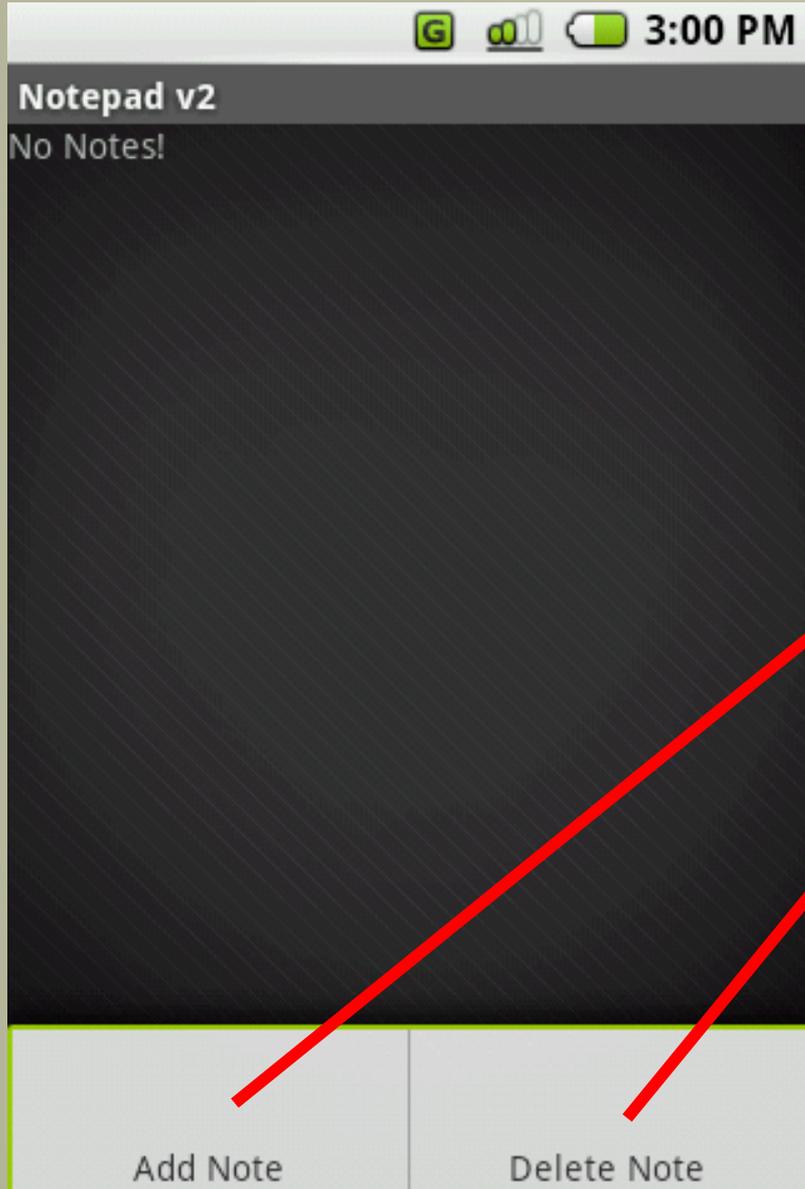
```
    <TextView android:id="@+id/android:empty"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="No Notes!"/>
```

```
</LinearLayout>
```



Listの内容が空の時、この  
emptyViewが表示される。

# Popup menuのclick処理



```
public boolean onCreateOptionsMenu( Menu menu) {  
    super.onCreateOptionsMenu(menu);  
    menu.add(0, INSERT_ID, R.string.menu_insert);  
    menu.add(0, DELETE_ID, R.string.menu_delete);  
    return true;  
}
```

```
public boolean onMenuItemSelected(  
    int featureId, Item item) {  
    switch(item.getId()) {  
        case INSERT_ID:  
            createNote();  
            return true;  
        case DELETE_ID:  
            mDbHelper.deleteNote(getListView().  
                getSelectedItemId());  
            fillData();  
            return true;  
    }  
    return super.onMenuItemSelected(  
        FeatureId, item);  
}
```

## ActivityでのMenuの処理

- ◎ Notepadv2では、Menu関連のListenerを設定していない。
- ◎ Noteoadv2が継承しているListActivityでは、`android.widget.AdapterView.OnItemClickListener`というListenerが設定されている。
- ◎ ただ、`onCreateOptionsMenu`、`onMenuItemSelected`は、直接に、ActivityクラスのメソッドをOverrideしている。
- ◎ そのいずれもOptionMenuというPanelクラスに関連している。
- ◎ Menuクラスは、ListenerへのSetterを持つことに留意しよう。

# List表示のプログラム

---

ここでは、よくつかわれる、List表示のプログラムを、  
少し詳しく見てみることにしよう。  
AndroidのListActivityは、  
データベースと簡単に結びつけられる。

# 配列のListでの表示

```
public class List1 extends ListActivity {  
  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
  
        // Use an existing ListAdapter that will map an array  
        // of strings to TextViews  
        setListAdapter(new ArrayAdapter<String>(this,  
            android.R.layout.simple_list_item_1, mStrings));  
    }  
  
    private String[] mStrings = {  
        "Abbaye de Belloc", "Abbaye du Mont des Cats", "Abertam",  
        "Abondance", "Ackawi", "Acorn", "Adelost", "Affidelice au Chablis",  
        "Afuega'l Pitu", "Airag", "Airedale", "Aisy Cendre",  
        "Allgauer Emmentaler", "Alverca", "Ambert", "American Cheese",  
        .....  
    }  
}
```



Abbaye de Belloc

Abbaye du Mont des Cats

Abertam

Abondance

Ackawi

Acorn

Adelost

## simple\_list\_item\_1.xml

```
<TextView xmlns:android=  
    http://...../apk/res/android  
    android:textAppearance=  
    "?android:attr/textAppearanceLarge"  
    android:id="@android:id/text1"  
    android:paddingTop="2dip"  
    android:paddingBottom="3dip"  
    android:layout_width="fill_parent"  
    android:layout_height=  
    "wrap_content" />
```

# ListAdapterを設定してデータベースの行を表示する

```
public class List2 extends ListActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        // すべての人のカーソルを取得する
        Cursor c = getContentResolver().
            query(People.CONTENT_URI, null, null, null, null);
        startManagingCursor(c);

        ListAdapter adapter = new SimpleCursorAdapter(this,
            // TextViewを表示するテンプレート
            android.R.layout.simple_list_item_1,
            // ListAdapterに、表示するデータの入ったカーソルを与える
            c,
            // データベースのNAMEカラムを指定
            new String[] {People.NAME},
            // XMLテンプレートで定義された"text1" view
            new int[] {android.R.id.text1});
        setListAdapter(adapter);
    }
}
```



12:32 AM

Views/Lists/2. Cursor (People)

Maruyama Fujio

# Notepadv2: データベースの行のListでの表示

```
public class Notepadv2 extends ListActivity {  
    .....  
    private void fillData() {  
        // データベースから、すべての行を取得し、itemlistを生成する。  
        mNotesCursor = mDbHelper.fetchAllNotes();  
        startManagingCursor(mNotesCursor);  
  
        //list中で、表示したいフィールドを指定する配列を作る。  
        // この例では、TITLEフィールドだけが表示されることになる。  
        String[] from = new String[]{NotesDbAdapter.KEY_TITLE};  
  
        // 先に指定したフィールドの値を受け取る配列を作る。  
        // この例では、text1が入ることになる。  
        int[] to = new int[]{R.id.text1};  
  
        // simple cursor adapterを作って、ListAdapterに設定する。  
        SimpleCursorAdapter notes = new  
            SimpleCursorAdapter(this, R.layout.notes_row, mNotesCursor, from, to);  
        setListAdapter(notes);  
    }  
}
```

## List3: データベースの複数のカラムを表示する

```
public class List3 extends ListActivity {

    @Override
    protected void onCreate(Bundle icicle) {
        super.onCreate(icicle);

        // Get a cursor with all phones
        Cursor c = getContentResolver().
            query(Phones.CONTENT_URI, null, null, null, null);
        startManagingCursor(c);

        // Map Cursor columns to views defined in simple_list_item_2.xml
        ListAdapter adapter = new SimpleCursorAdapter(this,
            android.R.layout.simple_list_item_2, c,
            new String[] { Phones.NAME, Phones.NUMBER },
            new int[] { android.R.id.text1, android.R.id.text2 });
        setListAdapter(adapter);
    }
}
```

## res/layout/simple\_list\_item\_2.xml

```
<TwoListItem
  xmlns:android=http://schemas.android.com/apk/res/android
  android:paddingTop="2dip"
  android:paddingBottom="2dip"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content">

  <TextView
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:id="@android:id/text1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content" />

  <TextView
    android:textAppearance="?android:attr/textAppearanceSmall"
    android:id="@android:id/text2"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_below="@android:id/text1" />

</TwoListItem>
```

Maruyama Fujio

090-8632-4347

Maruyama Fujio

0162-33-8177

Maruyama Fujio

0162-32-7511

## SimpleCursorAdapterの 第四引数



```
new int[] {  
    android.R.id.text1,  
    android.R.id.text2 };
```

第一引数の  
*simple\_list\_item\_2.xml*  
内で定義されている。

AndroidのBinary XMLについては、次のサイトが参考になった。

<http://devtcg.blogspot.com/2008/03/tool-to-read-android-binary-xml-files.html>

# List5: ListAdapterを自作する

```
public class List5 extends ListActivity {  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setListAdapter(new MyListAdapter(this));  
    }  
}
```

```
private class MyListAdapter extends BaseAdapter {  
    public MyListAdapter(Context context) {  
        mContext = context;  
    }  
    public int getCount() {  
        return mStrings.length;  
    }  
    public boolean areAllItemsSelectable() {  
        return false;  
    }  
    public boolean isSelectable(int position) {  
        return !mStrings[position].startsWith("-");  
    }  
}
```

## List5: ListAdapterを自作する

```
public Object getItem(int position) {
    return position;
}
public long getItemId(int position) {
    return position;
}
public View getView(int position, View convertView, ViewGroup parent) {
    TextView tv;
    if (convertView == null) {
        tv = new TextView(mContext);
    } else {
        tv = (TextView) convertView;
    }
    tv.setText(mStrings[position]);
    return tv;
}
private Context mContext;
}
```

## List5: ListAdapterを自作する

```
private String[] mStrings = {  
    "-----",  
    "-----",  
    "Abbaye de Belloc",  
    "Abbaye du Mont des Cats",  
    "Abertam",  
    "-----",  
    "Abondance",  
    "-----",  
    "Ackawi",  
    "Acorn",  
    "Adelost",  
    "Affidelice au Chablis",  
    "Afuega'l Pitu",  
    "Airag",  
    .....  
    .....  
};  
}
```



12:35 AM

## Views/Lists/5. Separators

-----

-----

Abbaye de Belloc

Abbaye du Mont des Cats

Abertam

-----

Abondance

-----

Ackawi

Acorn

Adelost

Affidélise au Chablis

Afuega'l Pitu

Airag

-----

Airedale

Aisy Cendre

-----

Allgauer Emmentaler

Alverca

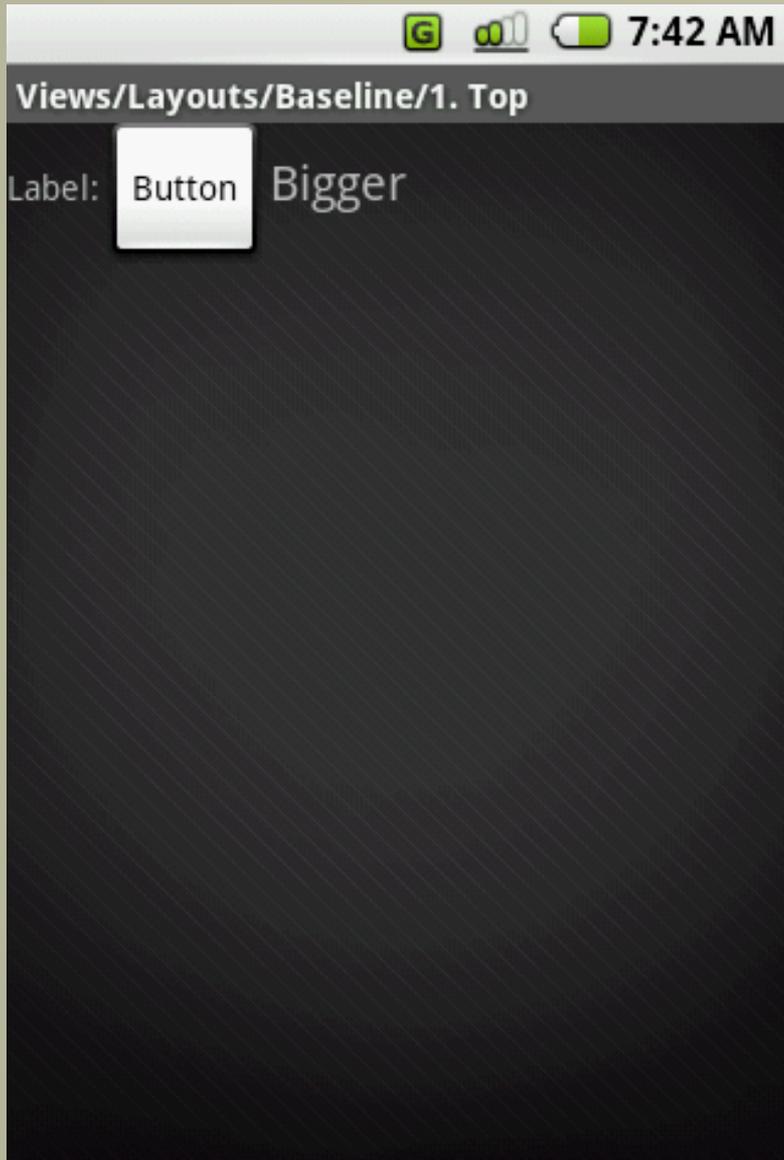
Ambert

American Cheese

# Baselineの設定

---

# View/Layouts/Baseline/1.Top



```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:text="@string/baseline_1_label" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:text="@string/baseline_1_button" />
```

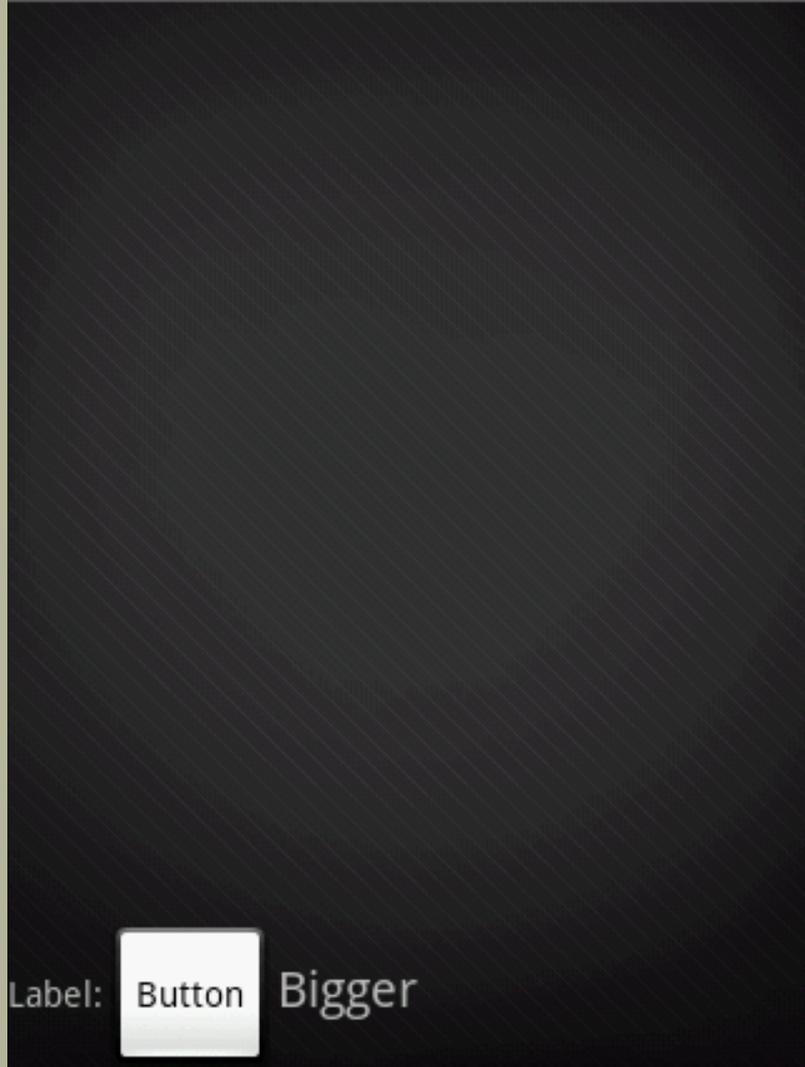
```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:textSize="20sp"
    android:text="@string/baseline_1_bigger" />
```

```
</LinearLayout>
```

# View/Layouts/Baseline/2.Bottom

G   7:44 AM

Views/Layouts/Baseline/2. Bottom



```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:layout_gravity="bottom"
    android:text="@string/baseline_1_label" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:layout_gravity="bottom"
    android:text="@string/baseline_1_button" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom"
    android:textSize="20sp"
    android:text="@string/baseline_1_bigger" />
```

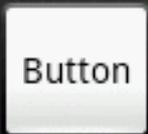
```
</LinearLayout>
```

# View/Layouts/Baseline/3.Center

G   7:45 AM

Views/Layouts/Baseline/3. Center

Label: Button Bigger



```
<LinearLayout xmlns:android=
    "http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">
```

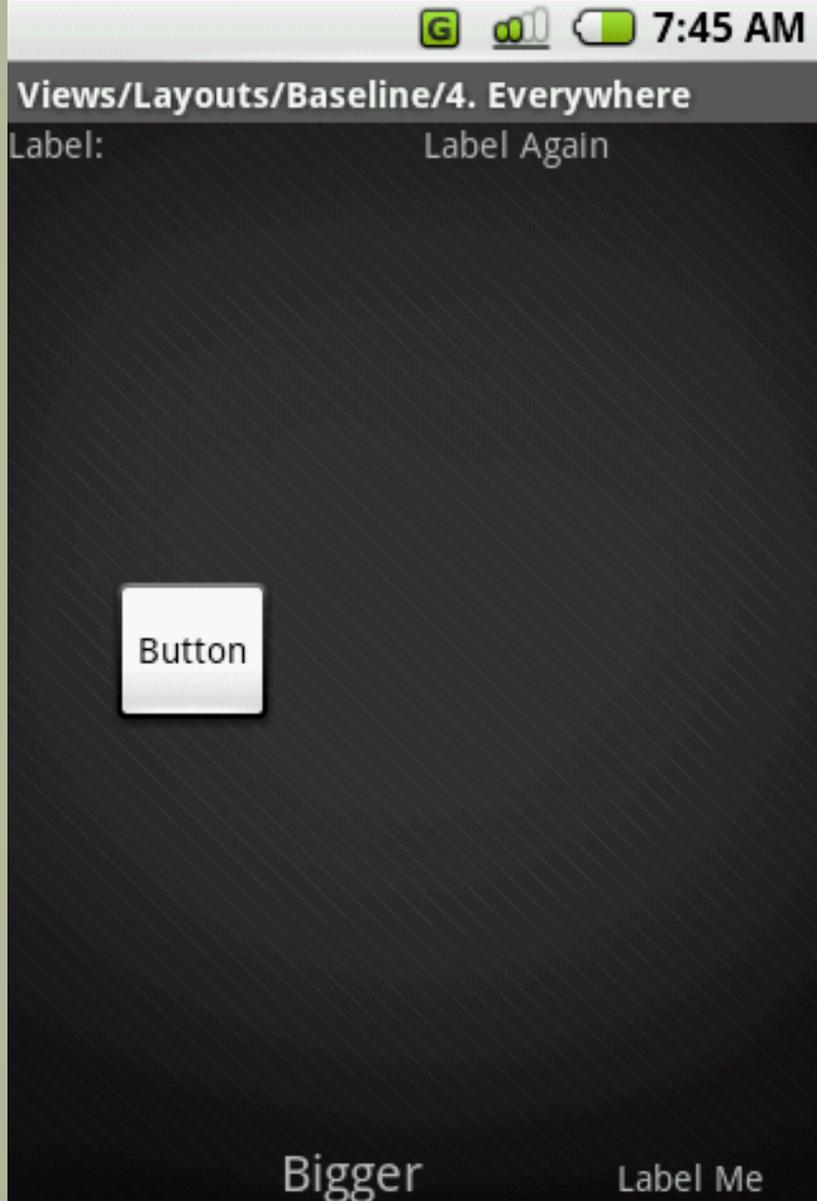
```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:layout_gravity="center_vertical"
    android:text="@string/baseline_1_label" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:layout_gravity=""center_vertical"
    android:text="@string/baseline_1_button" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_vertical"
    android:textSize="20sp"
    android:text="@string/baseline_1_bigger" />
```

```
</LinearLayout>
```

# View/Layouts/Baseline/4. Everywhere



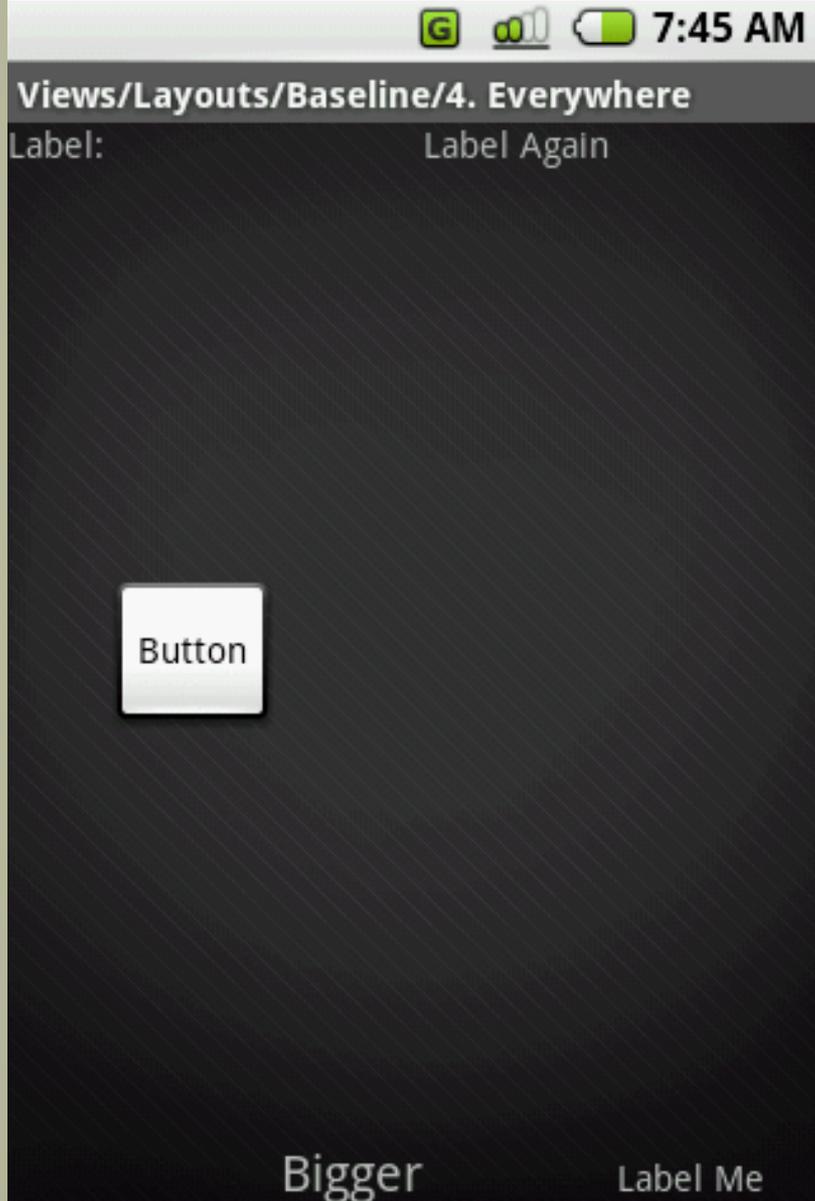
```
<LinearLayout xmlns:android=
    "http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="3dip"
        android:text="@string/baseline_4_label" />

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginRight="3dip"
        android:layout_gravity="center_vertical"
        android:text="@string/baseline_4_button" />
```



# View/Layouts/Baseline/4. Everywhere



```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="bottom"
    android:textSize="20sp"
    android:text="@string/baseline_4_bigger" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:text="@string/baseline_4_label_2" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="3dip"
    android:layout_gravity="bottom"
    android:text="@string/baseline_4_label_3" />

</LinearLayout>
```



# View/Layout/Baseline/5.Multi-Line

G   7:46 AM

Views/Layouts/Baseline/5. Multi-line

This is a  
multi-line field.

Baseline Aligned

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

    <EditText android:id="@+id/anchor"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:textSize="20sp"
        android:text="@string/baseline_6_multi_line" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@id/anchor"
        android:layout_alignRight="@id/anchor"
        android:text="@string/baseline_6_baseline" />

</RelativeLayout>
```

# View/Layout/Baseline/6.Relative

7:46 AM

Views/Layouts/Baseline/6. Relative

Big and bold

Slim and slick.

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

```
<TextView android:id="@+id/anchor"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentLeft="true"
    android:textStyle="bold"
    android:text="@string/baseline_7_fat" />
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_alignParentRight="true"
    android:layout_alignBaseline="@id/anchor"
    android:layout_height="wrap_content"
    android:text="@string/baseline_7_lean" />
```

```
</RelativeLayout>
```

# Relative Layout

---

# View/Layouts/RelativeLayout/1.Vertical

12:12 AM

Views/Layouts/RelativeLayout/1. Vertical

Top

center\_vertical

Bottom

```
<RelativeLayout xmlns:android="http://.../android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
```

```
<!-- view1 goes on top -->
```

```
<TextView
    android:id="@+id/view1"
    android:background="@drawable/red"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:text="@string/relative_layout_1_top"/>
```

```
<!-- view2 goes on the bottom -->
```

```
<TextView
    android:id="@+id/view2"
    android:background="@drawable/green"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:text=
        "@string/relative_layout_1_bottom"/>
```



# View/Layouts/RelativeLayout/1.Vertical

12:12 AM

Views/Layouts/RelativeLayout/1. Vertical

Top

center\_vertical

Bottom

```
<!-- view3 stretches between view1 and view2 -->  
<TextView  
    android:id="@+id/view3"  
    android:background="@drawable/yellow"  
    android:layout_width="fill_parent"  
    android:layout_height="0dip"  
    android:layout_above="@id/view2"  
    android:layout_below="@id/view1"  
    android:text="@string/relative_layout_1_center"/>  
</RelativeLayout>
```



# View/Layouts/RelativeLayout/2.SimpleForm

12:08 AM

Views/Layouts/LinearLayout/5. Simple Form

Type Here:

Cancel

OK

```
<RelativeLayout xmlns:android="http://.../android"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/blue"
    android:padding="10dip">
```

```
<TextView
    android:id="@+id/label"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text=
        "@string/relative_layout_2_instructions"/>
```

```
<EditText
    android:id="@+id/entry"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background=
        "@android:drawable/editbox_background"
    android:layout_below="@id/label"/>
```



# View/Layouts/RelativeLayout/2.SimpleForm

12:08 AM

Views/Layouts/LinearLayout/5. Simple Form

Type Here:

Cancel

OK

```
<Button
  android:id="@+id/ok"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_below="@id/entry"
  android:layout_alignParentRight="true"
  android:layout_marginLeft="10dip"
  android:text="@string/relative_layout_2_ok" />
```

```
<Button
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_toLeft="@id/ok"
  android:layout_alignTop="@id/ok"
  android:text="@string/relative_layout_2_cancel" />
```

```
</RelativeLayout>
```



# TableLayout

---

# View/Layouts/TableLayout/1.Basic

12:19 AM

## Views/Layouts/TableLayout/01. Basic

- \* Open... Ctrl-O
- \*\*\* Save As... (Save Document)
- \* Quit Application Ctrl-Shift-Q

```
<TableLayout
xmlns:android="http://schemas.android.com/apk/res/
android"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent">
```

```
<TableRow>
  <TextView
    android:text="@string/table_layout_1_star"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_1_open"
    android:padding="3dip" />
  <TextView
    android:text=
      "@string/table_layout_1_open_shortcut"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
  <TextView
    android:text=
      "@string/table_layout_1_triple_star"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_1_save"
    android:padding="3dip" />
```



# View/Layouts/TableLayout/1.Basic

   12:19 AM

Views/Layouts/TableLayout/01. Basic

- \* Open... Ctrl-O
- \*\*\* Save As... (Save Document)
- \* Quit Application Ctrl-Shift-Q

```
<TextView
    android:text=
        "@string/table_layout_1_save_shortcut"
    android:padding="3dip" />
</TableRow>

<TableRow>
    <TextView
        android:text="@string/table_layout_1_star"
        android:padding="3dip" />
    <TextView
        android:text="@string/table_layout_1_quit"
        android:padding="3dip" />
    <TextView
        android:text=
            "@string/table_layout_1_quit_shortcut"
        android:padding="3dip" />
</TableRow>
</TableLayout>
```

# View/Layouts/TableLayout/2.Empty Cell

G   12:19 AM

Views/Layouts/TableLayout/02. Empty Cells

Open

~/path/to/file/to/open

Save All

~/profile

```
<TableLayout
xmlns:android="http://schemas.android.com/apk/res/
android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">

    <TableRow>
        <Button
            android:text="@string/table_layout_2_open" />
        <TextView
            android:text="@string/table_layout_2_path_1"
            android:padding="3dip" />
    </TableRow>
    <TableRow>
        <Button
            android:text=
                "@string/table_layout_2_save_all"/>
    </TableRow>
    <TableRow>
        <Button
            android:text="@string/table_layout_2_save"
            android:visibility="invisible" />
        <TextView
            android:text="@string/table_layout_2_path_2"
            android:padding="3dip" />
    </TableRow>
</TableLayout>
```

# View/Layouts/TableLayout/3.Long Content

G [signal] [battery] 12:21 AM

Views/Layouts/TableLayout/03. Long Content

```
* Open...          Ctrl-O
*** Save As...     (Save Document) Too Long
* Quit Application Ctrl-Shift-Q
```

```
<TableLayout xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:shrinkColumns="2, 3">
```

<!-- Rows have different number of columns and content doesn't fit on screen: column 4 of row 2 shrinks all of the other columns -->

```
<TableRow>
  <TextView
    android:text="@string/table_layout_3_star"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_3_open"
    android:padding="3dip" />
  <TextView
    android:text=
      "@string/table_layout_3_open_shortcut"
    android:padding="3dip" />
</TableRow>
<TableRow>
  <TextView
    android:text=
      "@string/table_layout_3_triple_star"
    android:padding="3dip" />
```



# View/Layouts/TableRow/3.Long Content

G   12:21 AM

Views/Layouts/TableRow/03. Long Content

```
* Open...          Ctrl-O
*** Save As...     (Save Document) Too Long
* Quit Application Ctrl-Shift-Q
```

```
<TextView
    android:text="@string/table_layout_3_save"
    android:padding="3dip" />
<TextView
    android:text=
        "@string/table_layout_3_save_shortcut"
    android:padding="3dip" />
<TextView
    android:text="@string/table_layout_3_too_long"
    android:padding="3dip" />
</TableRow>
<TableRow>
    <TextView
        android:text="@string/table_layout_3_star"
        android:padding="3dip" />
    <TextView
        android:text="@string/table_layout_3_quit"
        android:padding="3dip" />
    <TextView
        android:text=
            "@string/table_layout_3_quit_shortcut"
        android:padding="3dip" />
</TableRow>
</TableRow>
```



# View/Layouts/TableRow/4.Stretchable

   12:21 AM

Views/Layouts/TableRow/04. Stretchable

Open... Ctrl-O

Save As... Ctrl-Shift-S

```
<TableRow xmlns:android="http://.../android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:stretchColumns="1">
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_4_open"
        android:padding="3dip" />
    <TextView android:text=
        "@string/table_layout_4_open_shortcut"
        android:textAlign="end"
        android:padding="3dip" />
</TableRow>
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_4_save"
        android:padding="3dip" />
    <TextView
        android:tex
        t="@string/table_layout_4_save_shortcut"
        android:textAlign="end"
        android:padding="3dip" />
</TableRow>
</TableRow>
```

# View/Layouts/TableLayout/5.Spanning ...

G   12:23 AM

Views/Layouts/TableLayout/05. Spanning and

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

Import...

Export... Ctrl-E

Quit...

```
<TableLayout xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:stretchColumns="1">
```

```
<TableRow>
  <TextView
    android:text="@string/table_layout_5_open"
    android:padding="3dip" />
  <TextView android:text =
    "@string/table_layout_5_open_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
  <TextView
    android:text="@string/table_layout_5_save"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_5_save_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableLayout/5.Spanning ...

G   12:23 AM

Views/Layouts/TableLayout/05. Spanning and

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

Import...

Export... Ctrl-E

Quit...

```
<TableRow>
  <TextView
    android:text="@string/table_layout_5_save_as"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_5_save_as_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<View
  android:layout_height="2dip"
  android:background="#FF909090" />

<TableRow>
  <TextView
    android:text="@string/table_layout_5_import"
    android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableLayout/5.Spanning ...

G   12:23 AM

Views/Layouts/TableLayout/05. Spanning and

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

Import...

Export... Ctrl-E

Quit...

```
<TableRow>
  <TextView
    android:text="@string/table_layout_5_export"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_5_export_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<View
  android:layout_height="2dip"
  android:background="#FF909090" />

<TableRow>
  <TextView
    android:text="@string/table_layout_5_quit"
    android:padding="3dip" />
</TableRow>
</TableLayout>
```



# View/Layouts/TableLayout/6. More Spanning

12:23 AM

Views/Layouts/TableLayout/06. More Spanning

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

X Import...

X Export... Ctrl-E

Quit...

```
<TableLayout xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:stretchColumns="1">
```

```
<TableRow>
```

```
<TextView
```

```
  android:layout_column="1"
```

```
  android:text="@string/table_layout_6_open"
```

```
  android:padding="3dip" />
```

```
<TextView android:text=
```

```
  "@string/table_layout_6_open_shortcut"
```

```
  android:textAlign="end"
```

```
  android:padding="3dip" />
```

```
</TableRow>
```

```
<TableRow>
```

```
<TextView
```

```
  android:layout_column="1"
```

```
  android:text="@string/table_layout_6_save"
```

```
  android:padding="3dip" />
```

```
<TextView android:text=
```

```
  "@string/table_layout_6_save_shortcut"
```

```
  android:textAlign="end"
```

```
  android:padding="3dip" />
```

```
</TableRow>
```



# View/Layouts/TableRow/6. More Spanning

12:23 AM

Views/Layouts/TableRow/06. More Spanning

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

X Import...

X Export... Ctrl-E

Quit...

```
<TableRow>
  <TextView
    android:layout_column="1"
    android:text="@string/table_layout_6_save_as"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_6_save_as_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```

```
<View
  android:layout_height="2dip"
  android:background="#FF909090" />
```

```
<TableRow>
  <TextView
    android:text="@string/table_layout_6_x"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_6_import"
    android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableRow/6. More Spanning

12:23 AM

Views/Layouts/TableRow/06. More Spanning

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

X Import...

X Export... Ctrl-E

Quit...

```
<TableRow>
  <TextView
    android:text="@string/table_layout_6_x"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_6_export"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_6_export_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<View
  android:layout_height="2dip"
  android:background="#FF909090" />

<TableRow>
  <TextView
    android:layout_column="1"
    android:text="@string/table_layout_6_quit"
    android:padding="3dip" />
</TableRow>
</TableRow>
```



# View/Layouts/LinearLayout/7.Column Co..

12:24 AM

Views/Layouts/LinearLayout/07. Column Collap

Open...

Save...

Save As...

X Import...

X Export...

Quit

Toggle Checkmarks

Toggle Shortcuts

```
<LinearLayout xmlns:android="http://.../android"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TableLayout
        android:id="@+id/menu"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:stretchColumns="1"
        android:collapseColumns="2">

        <TableRow>
            <TextView
                android:layout_column="1"
                android:text="@string/table_layout_7_open"
                android:padding="3dip" />
            <TextView android:text=
                "@string/table_layout_7_open_shortcut"
                android:textAlign="end"
                android:padding="3dip" />
        </TableRow>

        <TableRow>
            <TextView
                android:layout_column="1"
                android:text="@string/table_layout_7_save"
                android:padding="3dip" />
```



# View/Layouts/GridLayout/7.Column Co..

12:24 AM

Views/Layouts/GridLayout/07. Column Collap

Open...

Save...

Save As...

X Import...

X Export...

Quit

Toggle Checkmarks

Toggle Shortcuts

```
<TextView android:text="@string/table_layout_7_save_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<TableRow>
    <TextView
        android:layout_column="1"
        android:text="@string/table_layout_7_save_as"
        android:padding="3dip" />
    <TextView android:text="@string/table_layout_7_save_as_shortcut"
        android:textAlign="end"
        android:padding="3dip" />
</TableRow>

<View
    android:layout_height="2dip"
    android:background="#FF909090" />

<TableRow>
    <TextView
        android:text="@string/table_layout_7_x"
        android:padding="3dip" />
```



# View/Layouts/TableRow/7.Column Co..

12:24 AM

Views/Layouts/TableRow/07. Column Collap

Open...

Save...

Save As...

X Import...

X Export...

Quit

Toggle Checkmarks

Toggle Shortcuts

```
<TextView
    android:text="@string/table_layout_7_import"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_7_x"
        android:padding="3dip" />
    <TextView
        android:text="@string/table_layout_7_export"
        android:padding="3dip" />
    <TextView android:text=
        "@string/table_layout_7_export_shortcut"
        android:textAlign="end"
        android:padding="3dip" />
</TableRow>
```



```
<View
    android:layout_height="2dip"
    android:background="#FF909090" />
</TableRow>
```

# View/Layouts/GridLayout/7.Column Co..

12:24 AM

Views/Layouts/GridLayout/07. Column Collap

Open...

Save...

Save As...

X Import...

X Export...

Quit

Toggle Checkmarks

Toggle Shortcuts

```
<LinearLayout
  android:layout_width="wrap_content"
  android:layout_height="wrap_content">
  <Button
    android:id="@+id/toggle2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text=
      "@string/table_layout_7_toggle_checkmarks"
  />
  <Button
    android:id="@+id/toggle1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text=
      "@string/table_layout_7_toggle_shortcuts" />
</LinearLayout>
</LinearLayout>
```



# View/Layouts/LinearLayout/ 8 ToggleStretch.

G   12:26 AM

Views/Layouts/LinearLayout/08. Toggle Stretch

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

X Import...

X Export... Ctrl-E

Quit Ctrl-Q

Toggle Stretch

```
<LinearLayout xmlns:android="http://.../android"
  android:orientation="vertical"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent">
  <LinearLayout
    android:id="@+id/menu"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">

    <TableRow>
      <TextView
        android:layout_column="1"
        android:text="@string/table_layout_8_open"
        android:padding="3dip" />
      <TextView android:text=
        "@string/table_layout_8_open_shortcut"
        android:textAlign="end"
        android:padding="3dip" />
    </TableRow>

    <TableRow>
      <TextView
        android:layout_column="1"
        android:text="@string/table_layout_8_save"
        android:padding="3dip" />
```



# View/Layouts/TableLayout/ 8 ToggleStretch.

G   12:26 AM

Views/Layouts/TableLayout/08. Toggle Stretch

Open... Ctrl-O  
Save... Ctrl-S  
Save As... Ctrl-Shift-S  
X Import...  
X Export... Ctrl-E  
Quit Ctrl-Q

Toggle Stretch

```
<TextView android:text=
    "@string/table_layout_8_save_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<TableRow>
    <TextView android:layout_column="1"
        android:text="@string/table_layout_8_save_as"
        android:padding="3dip" />
    <TextView android:text=
        "@string/table_layout_8_save_as_shortcut"
        android:textAlign="end"
        android:padding="3dip" />
</TableRow>

<TableRow>
    <TextView
        android:text="@string/table_layout_8_x"
        android:padding="3dip" />
    <TextView
        android:text="@string/table_layout_8_import"
        android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableLayout/ 8 ToggleStretch.

G   12:26 AM

Views/Layouts/TableLayout/08. Toggle Stretch

Open... Ctrl-O  
Save... Ctrl-S  
Save As... Ctrl-Shift-S  
X Import...  
X Export... Ctrl-E  
Quit Ctrl-Q

Toggle Stretch

```
<TableRow>
  <TextView
    android:text="@string/table_layout_8_x"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_8_export"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_8_export_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
</TableLayout>

<Button
  android:id="@+id/toggle"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text=
    "@string/table_layout_8_toggle_stretch" />
</LinearLayout>
```



## View/Layouts/TableLayout/ 8 ToggleStretch.

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

    setContentView(R.layout.table_layout_8);

    final TableLayout table = (TableLayout) findViewById(R.id.menu);
    Button button = (Button) findViewById(R.id.toggle);
    button.setOnClickListener(new Button.OnClickListener() {
        public void onClick(View v) {
            mStretch = !mStretch;
            table.setColumnStretchable(1, mStretch);
        }
    });

    mStretch = table.isColumnStretchable(1);

    appendRow(table);
}
```

## View/Layouts/TableLayout/ 8 ToggleStrech.

```
private void appendRow(TableLayout table) {
    TableRow row = new TableRow(this);

    TextView label = new TextView(this);
    label.setText(R.string.table_layout_8_quit);
    label.setPadding(3, 3, 3, 3);

    TextView shortcut = new TextView(this);
    shortcut.setText(R.string.table_layout_8_ctrlq);
    shortcut.setPadding(3, 3, 3, 3);
    shortcut.setAlignment(Layout.Alignment.ALIGN_OPPOSITE);

    row.addView(label, new TableRow.LayoutParams(1));
    row.addView(shortcut, new TableRow.LayoutParams());

    table.addView(row, new TableLayout.LayoutParams());
}
```

# View/Layouts/TableLayout/9.ToggleShrink

12:26 AM

Views/Layouts/TableLayout/09. Toggle Shrink

Open...

Save...

Save As...

Save All And Do A Lot Of Stuff Just To Be Too Long

Import...

Export...

Toggle Shrink

```
<ScrollView xmlns:android="http://.../android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <LinearLayout
        android:orientation="vertical"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent">
        <TableLayout
            android:id="@+id/menu"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content">

            <TableRow>
                <TextView android:text=
                    "@string/table_layout_9_open"
                    android:padding="3dip" />
                <TextView android:text=
                    "@string/table_layout_9_open_shortcut"
                    android:textAlign="end"
                    android:padding="3dip" />
            </TableRow>

            <TableRow>
                <TextView android:text=
                    "@string/table_layout_9_save"
                    android:padding="3dip" />
            </TableRow>
        </TableLayout>
    </LinearLayout>
</ScrollView>
```



# View/Layouts/TableLayout/9.ToggleShrink

12:26 AM

Views/Layouts/TableLayout/09. Toggle Shrink

Open...

Save...

Save As...

Save All And Do A Lot Of Stuff Just To Be Too Long

Import...

Export...

Toggle Shrink

```
<TextView android:text=
    "@string/table_layout_9_save_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
<TextView android:text=
    "@string/table_layout_9_save_as"
    android:padding="3dip" />
<TextView android:text=
    "@string/table_layout_9_save_as_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
<TextView android:text=
    "@string/table_layout_9_save_all"
    android:padding="3dip" />
<TextView android:text=
    "@string/table_layout_9_save_all_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableLayout/9.ToggleShrink

12:26 AM

Views/Layouts/TableLayout/09. Toggle Shrink

Open...

Save...

Save As...

Save All And Do A Lot Of Stuff Just To Be Too Long

Import...

Export...

Toggle Shrink

```
<TableRow>
  <TextView android:text=
    "@string/table_layout_9_import"
    android:padding="3dip" />
</TableRow>

<TableRow>
  <TextView android:text=
    "@string/table_layout_9_export"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_9_export_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
</TableLayout>

<Button
  android:id="@+id/toggle"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text=
    "@string/table_layout_9_toggle_shrink" />
</LinearLayout>
</ScrollView>
```



# View/Layouts/TableLayout/9.ToggleShrink

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
  
    setContentView(R.layout.table_layout_9);  
  
    final TableLayout table = (TableLayout) findViewById(R.id.menu);  
    Button button = (Button) findViewById(R.id.toggle);  
    button.setOnClickListener(new Button.OnClickListener() {  
        public void onClick(View v) {  
            mShrink = !mShrink;  
            table.setColumnShrinkable(0, mShrink);  
        }  
    });  
  
    mShrink = table.isColumnShrinkable(0);  
}
```

# View/Layouts/LinearLayout/10.SimpleForm

12:27 AM

Views/Layouts/LinearLayout/10. Simple Form

User

Password

Cancel

Login

```
<LinearLayout xmlns:android="http://.../android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:stretchColumns="1">
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_10_user"
        android:textStyle="bold"
        android:textAlign="end"
        android:padding="3dip" />
```

```
<EditText android:id="@+id/username"
    android:text=
        "@string/table_layout_10_username_text"
    android:padding="3dip"
    android:scrollHorizontally="true" />
```

```
</TableRow>
```

```
<TableRow>
    <TextView android:text=
        "@string/table_layout_10_password"
        android:textStyle="bold"
        android:textAlign="end"
        android:padding="3dip" />
```



# View/Layouts/TableRow/10.SimpleForm

G   12:27 AM

Views/Layouts/TableRow/10. Simple Form

User	<input type="text"/>
Password	<input type="password"/>
Cancel	Login

```
<EditText android:id="@+id/password"
    android:text=
        "@string/table_layout_10_password_text"
    android:password="true"
    android:padding="3dip"
    android:scrollHorizontally="true" />
</TableRow>

<TableRow
    android:gravity="right">

    <Button android:id="@+id/cancel"
        android:text="@string/table_layout_10_cancel"
    />

    <Button android:id="@+id/login"
        android:text="@string/table_layout_10_login" />
</TableRow>
</TableRow>
</TableLayout>
```



# View/Layouts/TableLayout/11.Gravity

12:29 AM

Views/Layouts/TableLayout/11. Gravity

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

X Import... Ctrl-E

Export...

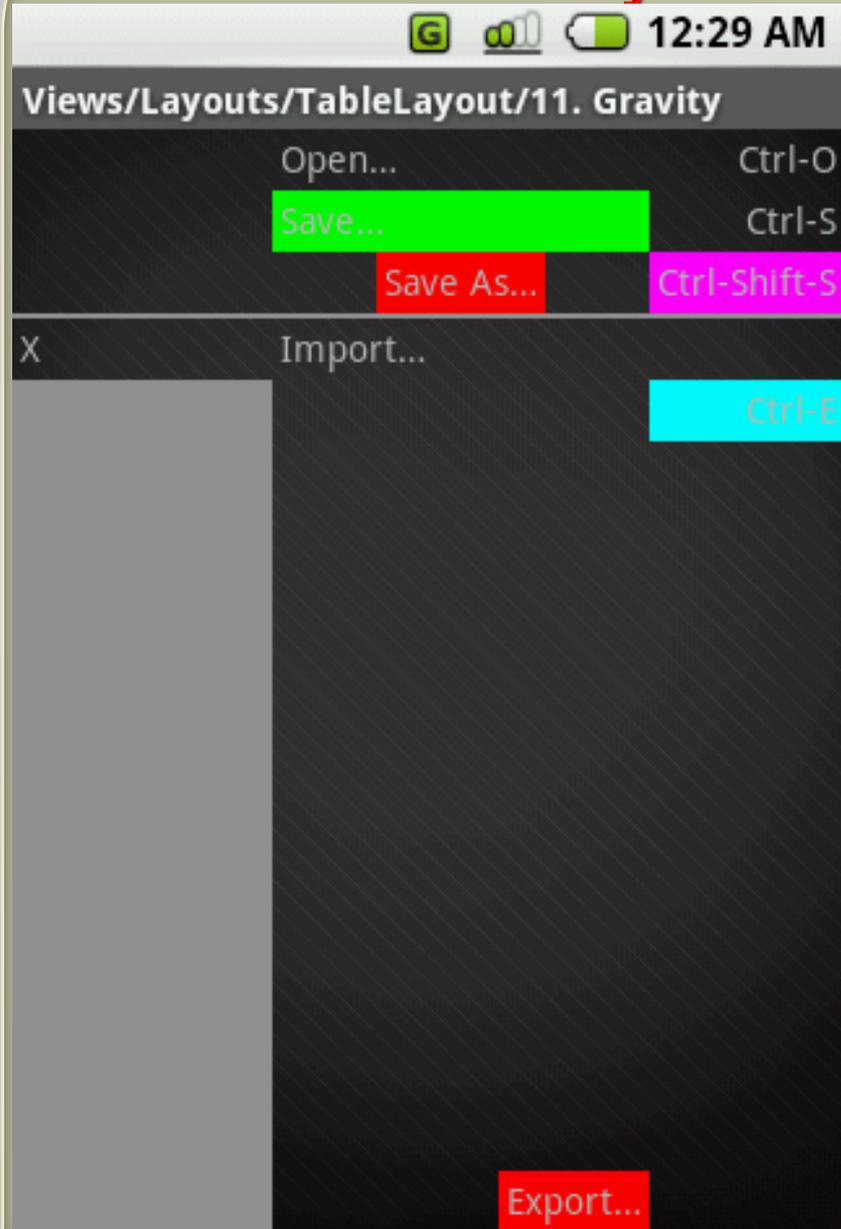
```
<TableLayout xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:stretchColumns="1">
```

```
<TableRow>
  <TextView
    android:layout_column="1"
    android:text="@string/table_layout_7_open"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_7_open_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
  <TextView
    android:layout_column="1"
    android:text="@string/table_layout_7_save"
    android:background="#FF00FF00"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_7_save_shortcut"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableLayout/11.Gravity



```
<TableRow>
  <!-- Horizontally centers the content of the cell -->
  <TextView
    android:layout_column="1"
    android:text="@string/table_layout_7_save_as"
    android:background="#FFFF0000"
    android:layout_gravity="center_horizontal"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_7_save_as_shortcut"
    android:background="#FFFF00FF"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<View
  android:layout_height="2dip"
  android:background="#FF909090" />

<TableRow>
  <TextView
    android:text="@string/table_layout_7_x"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_7_import"
    android:padding="3dip" />
</TableRow>
```



# View/Layouts/TableLayout/11.Gravity

12:29 AM

Views/Layouts/TableLayout/11. Gravity

Open... Ctrl-O

Save... Ctrl-S

Save As... Ctrl-Shift-S

X Import... Ctrl-E

Export...

```
<TableRow>
  <View
    android:layout_height="24dip"
    android:background="#FF909090" />
  <!-- Aligns the content of the cell to the bottom right -->
  <TextView
    android:text="@string/table_layout_7_export"
    android:background="#FFFF0000"
    android:layout_gravity="right|bottom"
    android:padding="3dip" />
  <TextView android:text=
    "@string/table_layout_7_export_shortcut"
    android:background="#FF00FFFF"
    android:textAlign="end"
    android:padding="3dip" />
</TableRow>

<View
  android:layout_height="2dip"
  android:background="#FF909090" />
</TableLayout>
```



# View/Layouts/TableLayout/12.CellSpanning

G 12:29 AM

Views/Layouts/TableLayout/12. Cell Spanning

A	BB	CCCC
D	E	
F	G	H
A	BB	
G		

```
<TableLayout xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content">
```

```
<TableRow>
  <TextView
    android:text="@string/table_layout_12_a"
    android:background="#FFFF0000"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_12_b"
    android:background="#FF00FF00"
    android:padding="3dip" />
  <TextView
    android:text="@string/table_layout_12_c"
    android:background="#FF0000FF"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
  <TextView
    android:text="@string/table_layout_12_d"
    android:layout_span="2"
    android:textAlign="center"
    android:background="#FF0000FF"
    android:padding="3dip" />
```



# View/Layouts/TableLayout/12.CellSpanning

G 12:29 AM

Views/Layouts/TableLayout/12. Cell Spanning

A	BB	CCCC
D	E	
F	G	H
A	BB	
G		

```
<TextView
    android:text="@string/table_layout_12_e"
    android:background="#FF00FF00"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_12_f"
        android:background="#FFFF00FF"
        android:padding="3dip" />
```

```
    <TextView
        android:text="@string/table_layout_12_g"
        android:background="#FF00FF00"
        android:padding="3dip" />
```

```
    <TextView
        android:text="@string/table_layout_12_h"
        android:background="#FFFF0000"
        android:padding="3dip" />
```

```
</TableRow>
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_12_a"
        android:background="#FF00FF00"
        android:padding="3dip" />
```



# View/Layouts/TableLayout/12.CellSpanning

G 12:29 AM

Views/Layouts/TableLayout/12. Cell Spanning

A	BB	CCCC
D	E	
F	G	H
A	BB	
G		

```
<TextView
    android:text="@string/table_layout_12_b"
    android:layout_span="2"
    android:textAlign="center"
    android:background="#FF0000FF"
    android:padding="3dip" />
</TableRow>
```

```
<TableRow>
    <TextView
        android:text="@string/table_layout_12_g"
        android:layout_span="3"
        android:textAlign="center"
        android:background="#FFC0C0C0"
        android:padding="3dip" />
    </TableRow>
</TableLayout>
```



# Linear Layout の詳細

---

# View/Layouts/LinearLayout/6.Uniform Size

12:08 AM

Views/Layouts/LinearLayout/6. Uniform Size

One  
Two  
This is the third one  
Four

```
<LinearLayout xmlns:android="http://...."  
    android:orientation="vertical"  
    android:background="@drawable/blue"  
    android:padding="20dip"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content">
```

```
<TextView  
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:text="@string/linear_layout_6_one"/>
```

```
<TextView  
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:text="@string/linear_layout_6_two"/>
```



# View/Layouts/LinearLayout/6. Uniform Size

12:08 AM

Views/Layouts/LinearLayout/6. Uniform Size

One  
Two  
This is the third one  
Four

```
<TextView  
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:text="@string/linear_layout_6_three"/>
```

```
<TextView  
    android:background="@android:drawable/box"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content"  
    android:text="@string/linear_layout_6_four"/>
```

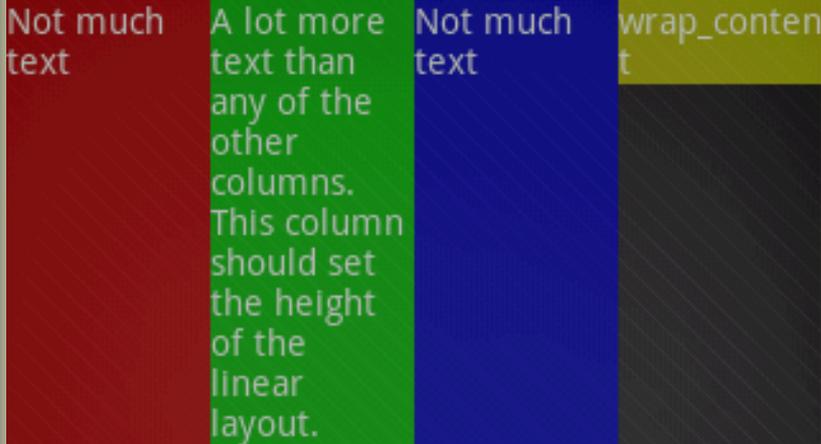
```
</LinearLayout>
```



# View/Layouts/LinearLayout/7.Fill Parent

12:09 AM

Views/Layouts/LinearLayout/7. Fill Parent



```
<LinearLayout xmlns:android=http://.....  
    android:orientation="horizontal"  
    android:layout_width="fill_parent"  
    android:layout_height="wrap_content">
```

```
<TextView  
    android:background="@drawable/red"  
    android:layout_width="0dip"  
    android:layout_height="fill_parent"  
    android:layout_weight="1"  
    android:text="@string/linear_layout_7_small"/>
```

```
<TextView  
    android:background="@drawable/green"  
    android:layout_width="0dip"  
    android:layout_height="fill_parent"  
    android:layout_weight="1"  
    android:text="@string/linear_layout_7_big"/>
```



# View/Layouts/LinearLayout/7.Fill Parent

G   12:09 AM

Views/Layouts/LinearLayout/7. Fill Parent

Not much text	A lot more text than any of the other columns. This column should set the height of the linear layout.	Not much text	wrap_content
---------------	--	---------------	--------------

```
<TextView
  android:background="@drawable/blue"
  android:layout_width="0dip"
  android:layout_height="fill_parent"
  android:layout_weight="1"
  android:text="@string/linear_layout_7_small" />
```

```
<TextView
  android:background="@drawable/yellow"
  android:layout_width="0dip"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:text="@string/linear_layout_7_wrap"/>
```

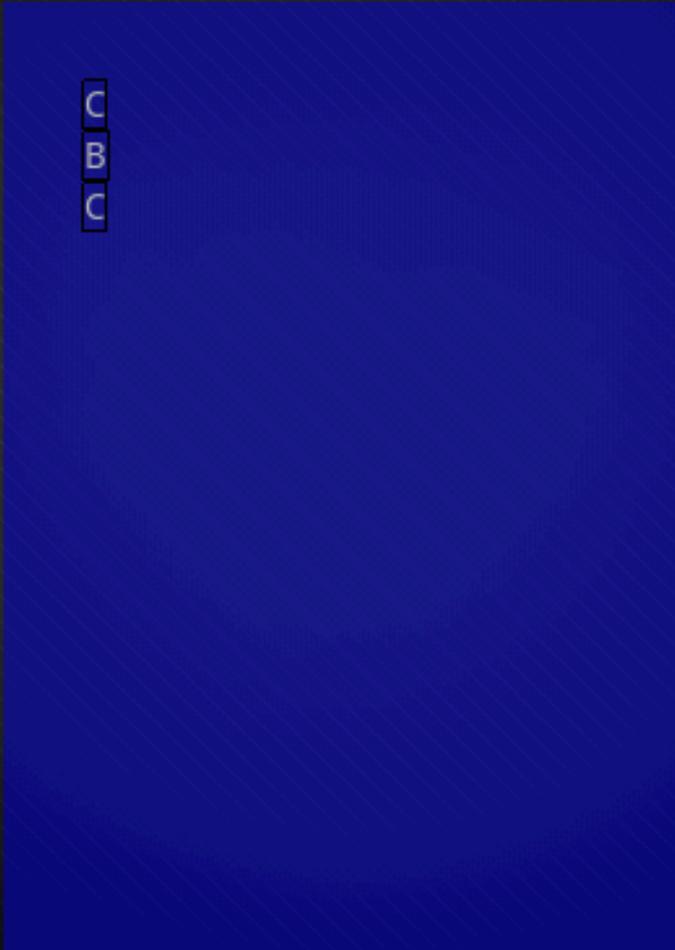
```
</LinearLayout>
```



# View/Layouts/LinearLayout/8.Gravity

   12:11 AM

Views/Layouts/LinearLayout/8. Gravity



```
<FrameLayout xmlns:android="http://...../android"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:padding="30dip">
```

```
<LinearLayout
  android:id="@+id/layout"
  android:orientation="vertical"
  android:background="@drawable/blue"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:padding="30dip">
```

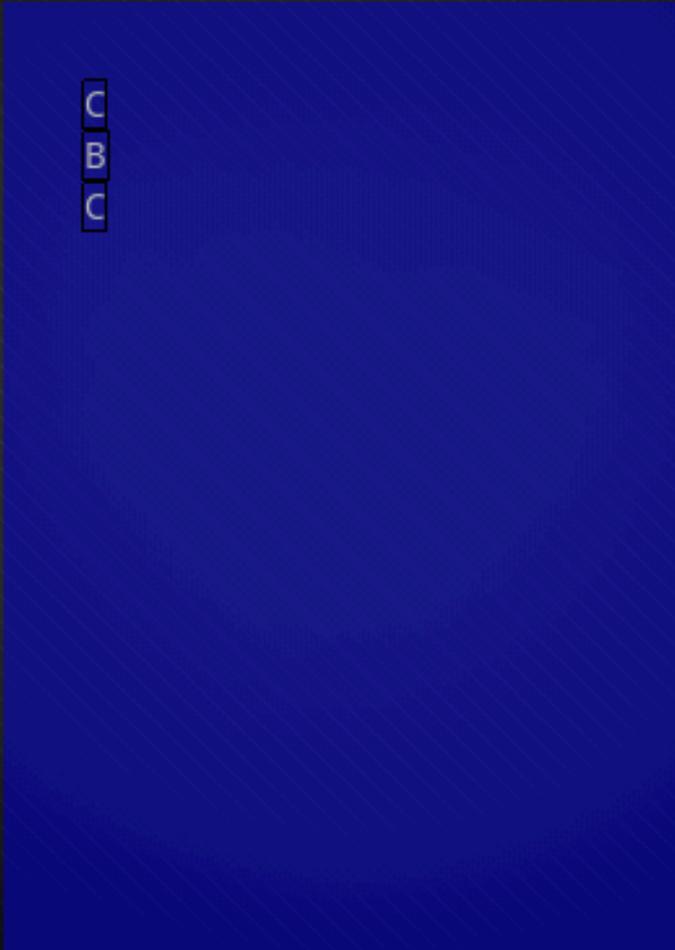
```
<TextView
  android:background="@android:drawable/box"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="@string/linear_layout_8_c"/>
```



# View/Layouts/LinearLayout/8.Gravity

G   12:11 AM

Views/Layouts/LinearLayout/8. Gravity



```
<TextView  
  android:background="@android:drawable/box"  
  android:layout_width="wrap_content"  
  android:layout_height="wrap_content"  
  android:text="@string/linear_layout_8_b"/>
```

```
<TextView  
  android:background="@android:drawable/box"  
  android:layout_width="wrap_content"  
  android:layout_height="wrap_content"  
  android:text="@string/linear_layout_8_c"/>
```

```
</LinearLayout>
```

```
</FrameLayout>
```



# View/Layouts/LinearLayout/9.LayoutWeight

G 12:11 AM

Views/Layouts/LinearLayout/9. Layout Weight

Afghanistan

Albania

Algeria

American Samoa

Andorra

Angola

Button

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

    <ListView android:id="@+id/list"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1.0" />

    <Button
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="@string/linear_layout_9_button" />

</LinearLayout>
```

# View/Layouts/LinearLayout/10.Back Image

G   12:05 AM

Views/Layouts/LinearLayout/10. Background I

From: |



To:



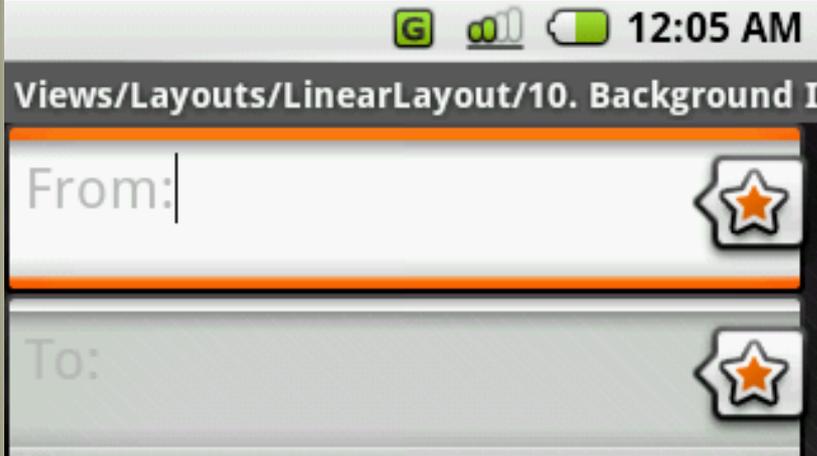
```
<LinearLayout xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:orientation="vertical">
```

```
<LinearLayout
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:addStatesFromChildren="true"
  android:gravity="center_vertical"
  android:paddingRight="0dip"
  android:background=
    "@android:drawable/edit_text_container">
```

```
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="@string/linear_layout_10_from"
  android:textColor="?android:attr/textColorDim"
  android:textAppearance=
    "?android:attr/textAppearanceLargeInverse"
/>
```



# View/Layouts/LinearLayout/10.Back Image



```
<EditText
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:singleLine="true"
  android:background="@null"
/>
```

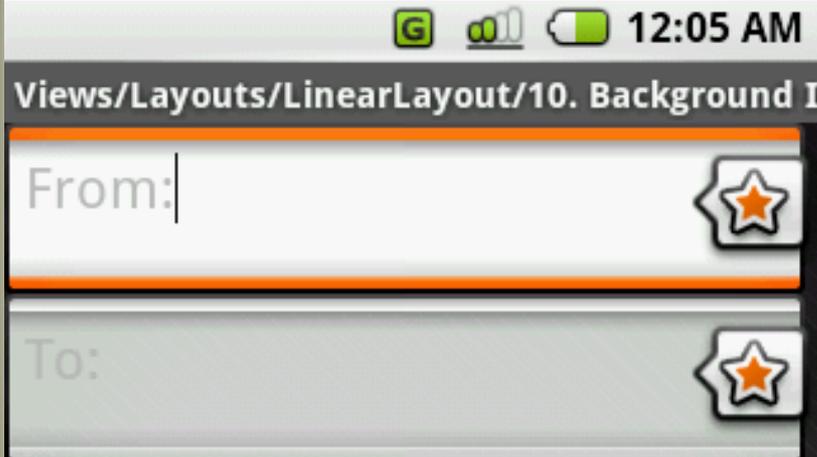
```
<ImageButton
  style="@android:style/Widget.Button.SmallLeft"
  android:src="@android:drawable/star_big_on"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:padding="10dip"
/>
```

```
</LinearLayout>
```

```
<LinearLayout
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:addsStatesFromChildren="true"
  android:gravity="center_vertical"
  android:paddingRight="0dip"
  android:background=
    "@android:drawable/edit_text_container">
```



# View/Layouts/LinearLayout/10.Back Image



```
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="@string/linear_layout_10_to"
  android:textColor="?android:attr/textColorDim"
  android:textAppearance=
    "?android:attr/textAppearanceLargeInverse"
/>
```

```
<EditText
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:singleLine="true"
  android:background="@null"
/>
```

```
<ImageButton
  style="@android:style/Widget.Button.SmallLeft"
  android:src="@android:drawable/star_big_on"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:padding="10dip"
/>
```

```
</LinearLayout>
```

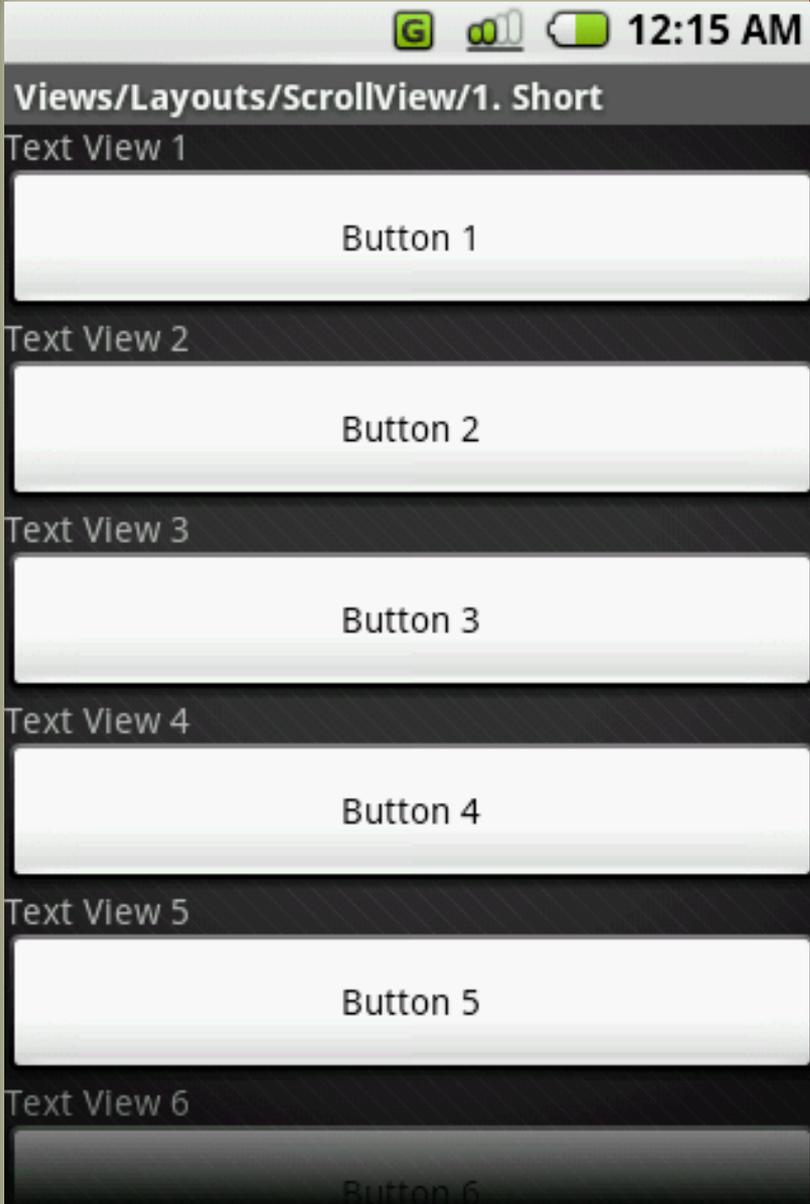


```
</LinearLayout>
```

# ScrollView

---

# View/Layouts/ScrollView/1.short



```
<ScrollView xmlns:android="http://.../android"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:scrollbars="none">
```

```
<LinearLayout
  android:id="@+id/layout"
  android:orientation="vertical"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content">
```

```
<TextView
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_text_1"/>
```

```
<Button
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_button_1"/>
```

```
<TextView
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_text_2"/>
```



# View/Layouts/ScrollView/1.short

G   12:15 AM

Views/Layouts/ScrollView/1. Short

Text View 1

Button 1

Text View 2

Button 2

Text View 3

Button 3

Text View 4

Button 4

Text View 5

Button 5

Text View 6

Button 6

```
<Button
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_button_2"/>
```

```
<TextView
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_text_3"/>
```

```
<Button
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_button_3"/>
```

```
<TextView
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_text_4"/>
```

```
<Button
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/scroll_view_1_button_4"/>
```



# View/Layouts/ScrollView/1.short

G   12:15 AM

Views/Layouts/ScrollView/1. Short

Text View 1

Button 1

Text View 2

Button 2

Text View 3

Button 3

Text View 4

Button 4

Text View 5

Button 5

Text View 6

Button 6

```
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/scroll_view_1_text_5"/>
```

```
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/scroll_view_1_button_5"/>
```

```
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/scroll_view_1_text_6"/>
```

```
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/scroll_view_1_button_6"/>
```

```
</LinearLayout>
</ScrollView>
```



# View/Layouts/ScrollView/2.Long

12:15 AM

Views/Layouts/ScrollView/2. Long

Text View 1

Button 1

Text View 2

Button 2

Text View 3

Button 3

Text View 4

Button 4

Text View 5

Button 5

Text View 6

Button 6

```
<ScrollView xmlns:android="http://.../android"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:scrollbars="none">
```

```
<LinearLayout
    android:id="@+id/layout"
    android:orientation="vertical"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content">
```

```
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="@string/scroll_view_2_text_1"/>
```

```
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text=
        "@string/scroll_view_2_button_1"/>
```

```
</LinearLayout>
</ScrollView>
```

# View/Layouts/ScrollView/2.Long

```
public class ScrollView2 extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.scroll_view_2);

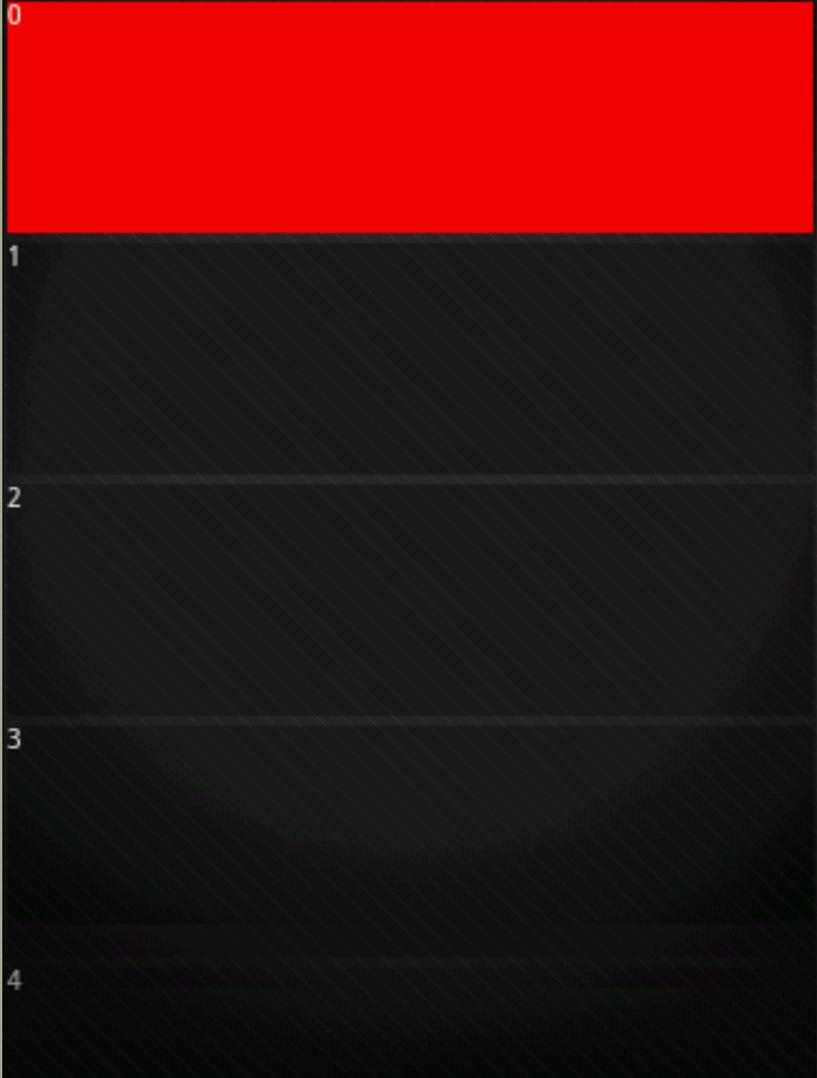
        LinearLayout layout = (LinearLayout) findViewById(R.id.layout);
        for (int i = 2; i < 64; i++) {
            TextView textView = new TextView(this);
            textView.setText("Text View " + i);
            LinearLayout.LayoutParams p =
                new LinearLayout.LayoutParams(
                    LinearLayout.LayoutParams.FILL_PARENT,
                    LinearLayout.LayoutParams.WRAP_CONTENT
                );
            layout.addView(textView, p);

            Button buttonView = new Button(this);
            buttonView.setText("Button " + i);
            layout.addView(buttonView, p);
        }
    }
}
```

# View/Layouts/ScrollView/3.Internal Selection

G   12:17 AM

Views/Layouts/ScrollView/3. Internal Selection



0

1

2

3

4



## View/Layouts/ScrollView/3.Internal Selection

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);

    ScrollView sv = new ScrollView(this);
    ViewGroup.LayoutParams svLp = new ScrollView.LayoutParams(
        ViewGroup.LayoutParams.FILL_PARENT,
        ViewGroup.LayoutParams.WRAP_CONTENT);

    LinearLayout ll = new LinearLayout(this);
    ll.setLayoutParams(svLp);
    sv.addView(ll);

    InternalSelectionView isv = new InternalSelectionView(this, 10);
    int screenHeight =
        getWindowManager().getDefaultDisplay().getHeight();
    LinearLayout.LayoutParams llLp = new LinearLayout.LayoutParams(
        ViewGroup.LayoutParams.FILL_PARENT,
        2 * screenHeight); // 2x screen height to ensure scrolling
    isv.setLayoutParams(llLp);
    ll.addView(isv);

    setContentView(sv);
}
```