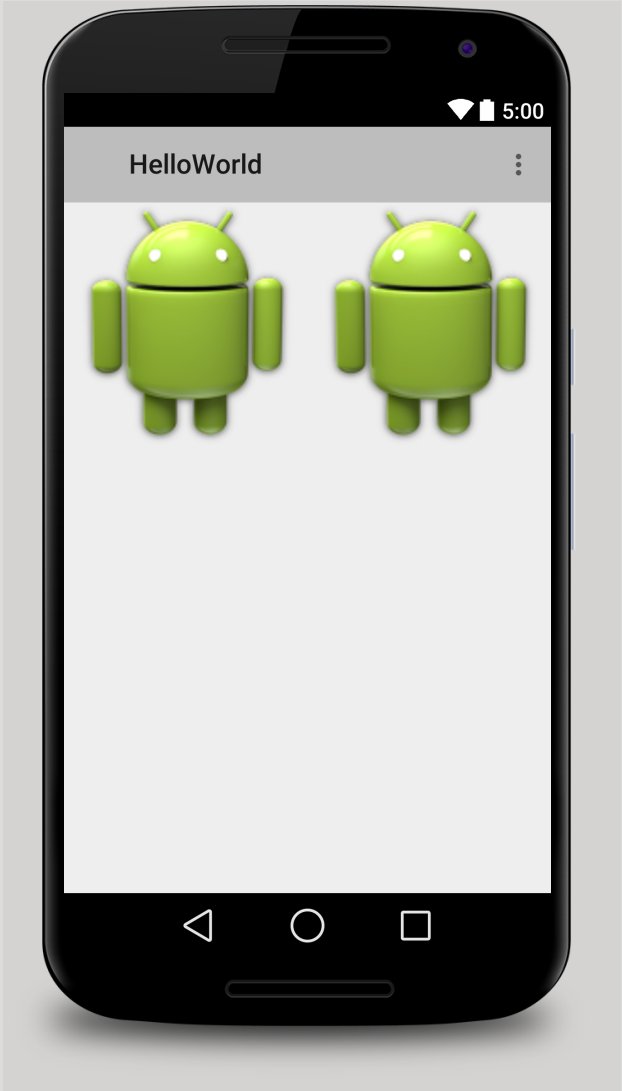
Android Application Development

Views Part 2

ImageView

ImageView

Displays an arbitrary image, such as an icon. The ImageView class can load images from various sources (such as resources or content providers), takes care of computing its measurement from the image so that it can be used in any layout manager, and provides various display options such as scaling and tinting.



ImageView

Lab

android:src

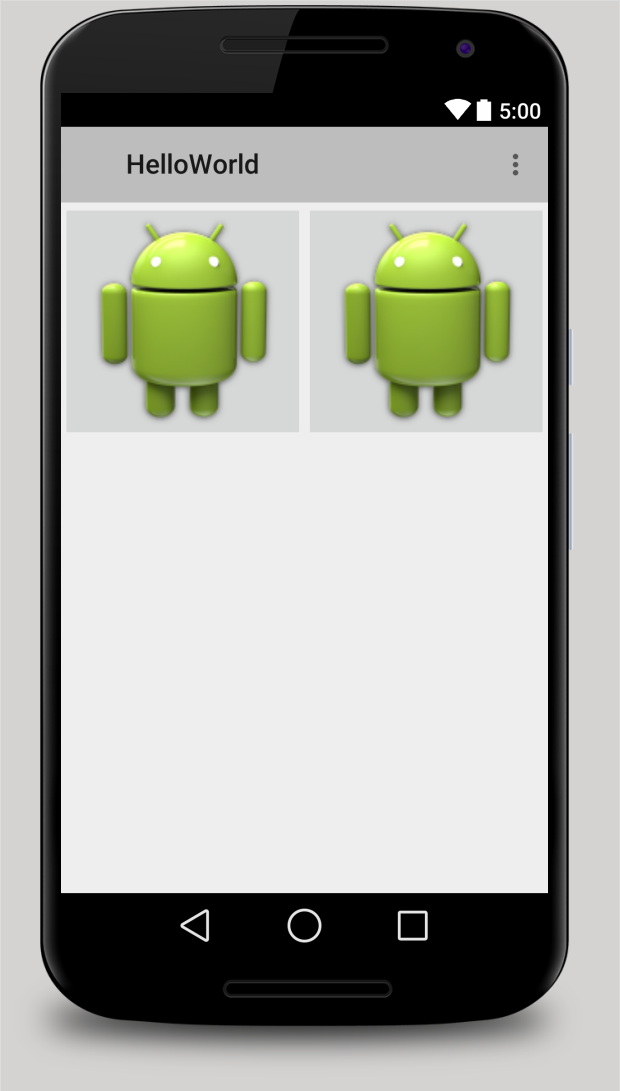
android:adjustViewBounds

android:scaleType

ImageButton

ImageButton

Displays a button with an image (instead of text) that can be pressed or clicked by the user.



ImageButton

Lab

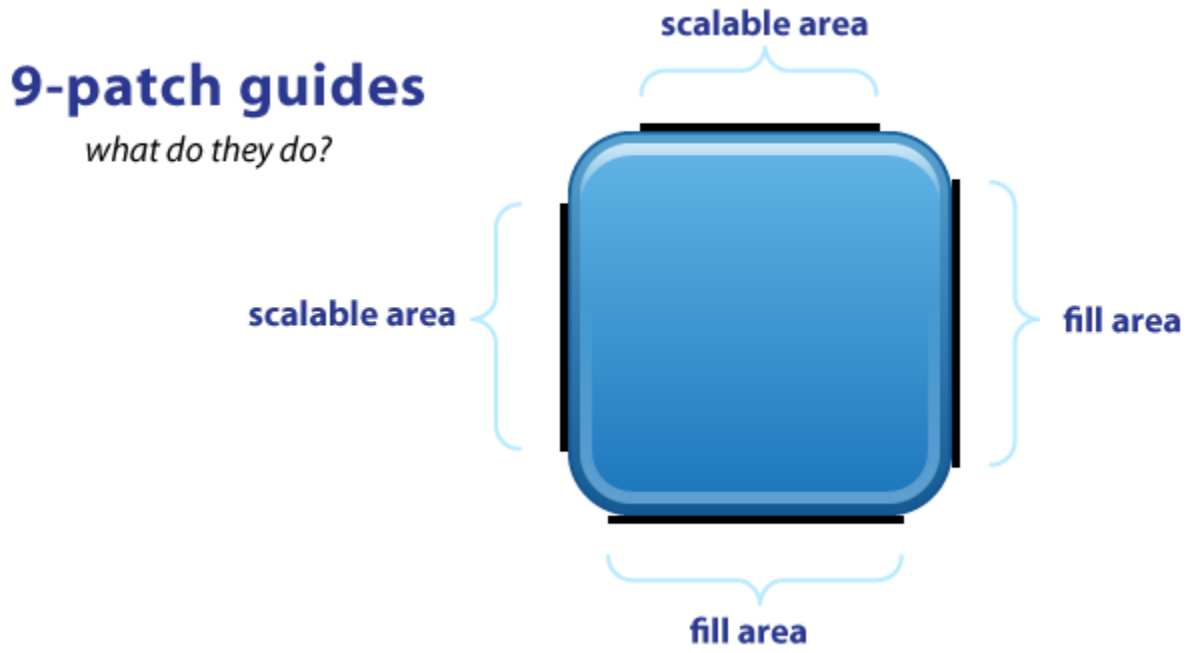
android:src

android:adjustViewBounds

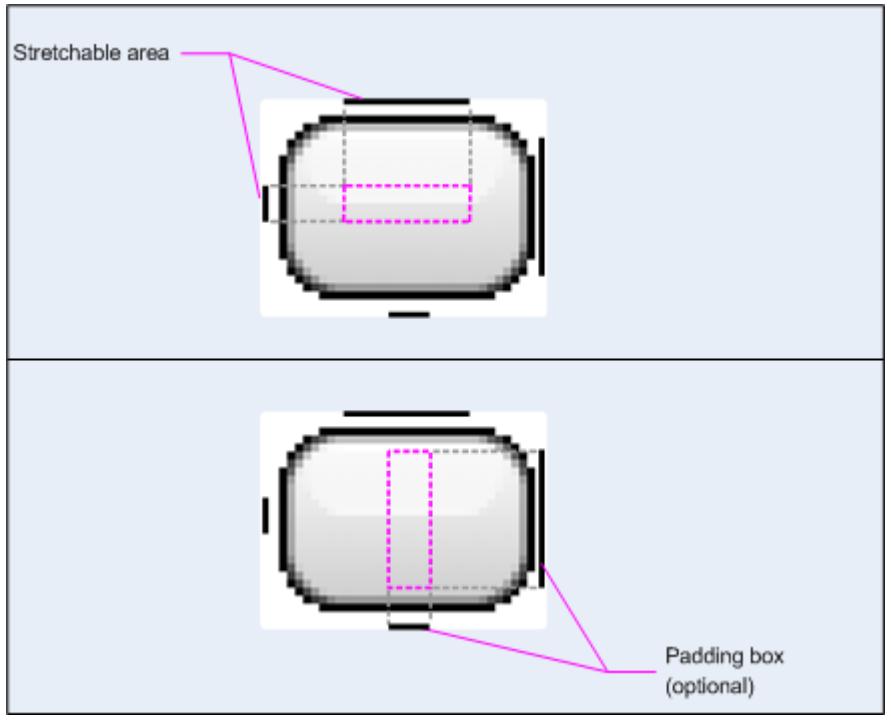
android:scaleType

android:background

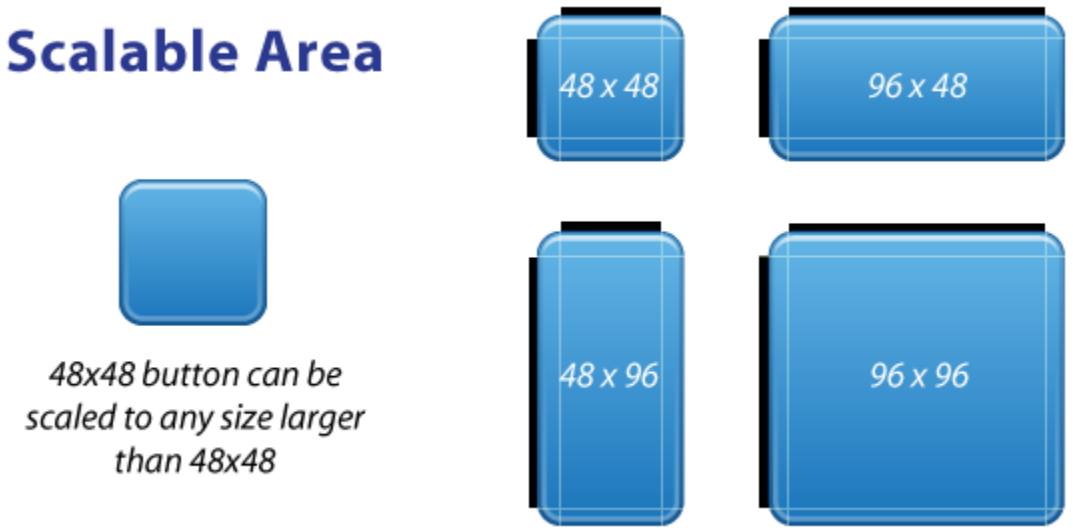
The 9-Patch


9-patch guides
what do they do?
scalable area
scalable area
fill area
fill area

The 9-Patch



The 9-Patch


Scalable Area
48x48 button can be scaled to any size larger than 48x48
48 x 48
96 x 48
48 x 96
96 x 96

Selector

drawable/selector_btn_default.xml

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">

    <item android:drawable="@drawable/btn_default_pressed”
          android:state_pressed="true"/>
    <item android:drawable="@drawable/btn_default_selected”
          android:state_selected="true"/>
    <item android:drawable="@drawable/btn_default_selected”
          android:state_focused="true"/>
    <item android:drawable=”@drawable/btn_default_normal"/>

</selector>
```

```
<Button android:background=“@drawable/selector_btn_default”
        .../>
```

Make it scroll!: ScrollView

```
<ScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    >

    <!-- Only 1 child allowed -->

    ...

</ScrollView>
```

Use **HorizontalScrollView** for Horizontal Scrolling

Lab

https://dl.dropboxusercontent.com/u/19243435/bg2.jpg

https://dl.dropboxusercontent.com/u/19243435/logo.jpg

ทำเลย เดี๋ยวมา!

100dp

Reimagined with over 30,000 new topics

Font: ?sp

#C62828

#B71C1C

Padding: 16dp

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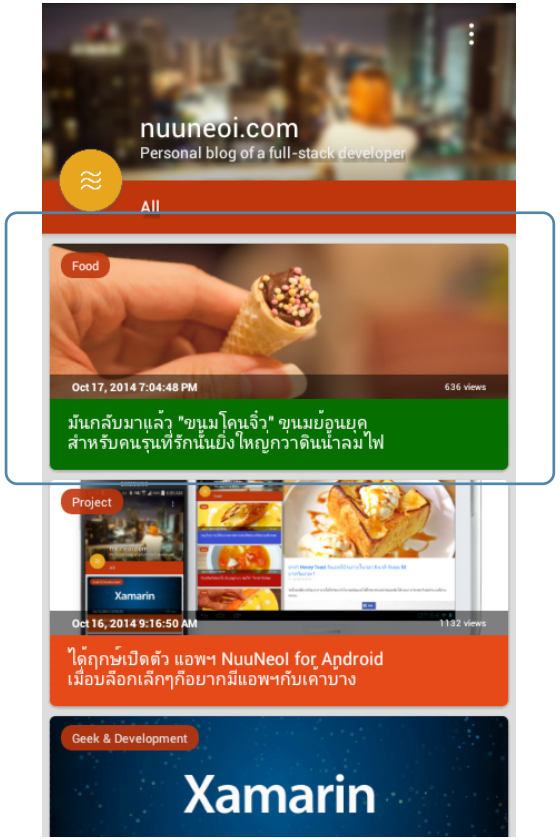
Lab


6:52 PM
Home
Discover
Activity
Kawizara @kengkawiz 3m
Vivo smart ฉลาดกว่าเดิม
เพิ่มหน้าจอสัมผัส,แสดงการแจ้งเตือนจากมือถือ,วัดอัตราการเต้นหัวใจได้แล้วแต่ต้องชาร์จทุกอาทิตย์
1
Mashable @mashable 7m
The annoying habits that can turn off your interviewer on.mash.to/1xCl0xO via @dailymuse
16
8
Kawizara @kengkawiz 8m
What's happening?

Custom View

Custom View

Custom ViewGroup



Custom View

Custom View

How to decide whether we should use Custom View or not?

- Custom Draw
  - Again … don't fix the position, do everything relatively
- Handle Input Event

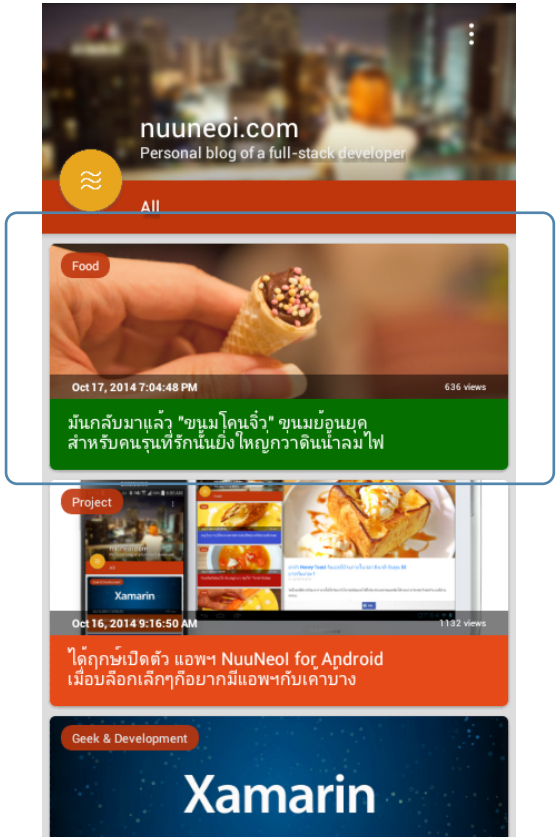
Custom ViewGroup

*** Use quite a lot**

How to decide whether we should use Custom View or not?

- Group Layout for Reuse
- Handle Input Event
- Do something with non-standard behavior

Custom ViewGroup



Custom View: Best Code Structure

- init
- initWithAttrs

Lab: Test onDraw

Lab: Initiate with XML

Live Demo

Custom View: Input Events

- onClick
- onLongClick
- onTouchEvent
- GestureDetector

Live Demo

Custom View: Attributes

1) Define the attributes in `attr.xml`

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <declare-styleable name="CustomViewStyleable">
        <attr name="isBlue" format="boolean"/>
    </declare-styleable>
</resources>
```

2) Declare xmlns and pass value to xml element

Live Demo

Custom View: Attributes

3) Retrieve value through context.getTheme().obtainStyledAttributes(…)

```
TypedArray a = context.getTheme().obtainStyledAttributes(
                                        attrs,
                                        R.styleable.CustomViewStyleable,
                                        defStyleAttr, defStyleRes);

try {
    isBlue = a.getBoolean(R.styleable.CustomViewStyleable_isBlue, false);
} finally {
    a.recycle();
}
```

Custom ViewGroup: Best Code Structure

- initInflate
- initInstances
- initWithAttrs

Lab: Test Inflation

Lab: Access to UI Components

Lab: Initiate with XML

Live Demo