

CIS 3515 Lab

Worksheet 4

Instructions: Create a 2-activity application along with a custom adapter. Your application will allow a user to select a color from an adapter view (Spinner, listview or Graidview – your choice) on one activity, and once selected, launch the second activity and set the background of the new activity's layout to the selected color.

1. Create 2 activities – PaletteActivity (your Main), and CanvasActivity (your secondary activity).
2. PaletteActivity must contain a **GridView** that will use a **custom adapter** to present to the user a set of color options. The views generated by the custom adapter should be simple TextViews, where the text value is the name of the color, and the background of the text view should be the color specified by the name.
3. Your list of colors should be a predetermined (no fewer than 10 colors) array of strings. For simplicity choose colors from Android's Color class (e.g. Color.RED). This will make setting the background colors of views and layouts easier, since you only need to call the view's setBackgroundColor method with the color parameter. e.g.

```
if (chosenColor.equals("Red"){// where chosenColor is a string
    myLayout.setBackgroundColor(Color.RED);
} else if ...
```

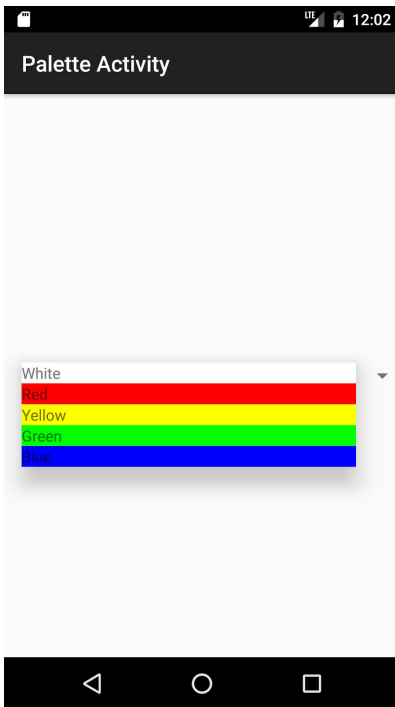
Alternatively, if you choose basic colors, and store the values as simple strings, then the above code becomes simpler:

```
myLayout.setBackgroundColor(Color.parseColor(chosenColor))
// Color.parseColor(String) will only work for very simply colors
// see
```

[https://developer.android.com/reference/android/graphics/Color.html#parseColor\(java.lang.String\)](https://developer.android.com/reference/android/graphics/Color.html#parseColor(java.lang.String))

4. When a user selects a color from the Adapter View, the second activity should be launched and this new activity's layout background should be set to the selected color (see illustration below)
5. **You have one week to complete this assignment. Upload your project or a GitHub link to Blackboard, or make arrangements to show your work to the TA BEFORE the beginning of next week's lab.**

ILLUSTRATION (example uses a Spinner, but your app will use a GridView):



After selection, new
activity opens

