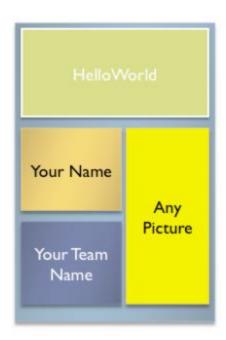
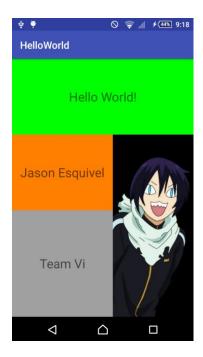
Introduction

For the first lab we had to main tasks. First we had setup our Android Development Environment for our systems. Our second task was to create an Android application that would display a layout shown below. The main part of the second task wa to use 4 views, with no specific requirement for padding, or color configuration.



Main

For the first task, setting up our Android Development Environment, I decidec to go with Android Studio 2.2.3. Setting up Android Studio was not that difficult, ust a bit time consuming. Most of my time was spent on the layout of the app and under the activity_main.xml. First I started using RelativeLayout with TextView place under each other. The main problem I had was with the pixel count and how to determine the layout_width and layout_height. The textviews would overlap each other. Later I decided to use a LinearLayout approach. I saw that when using LinearLayout, an layout_weight can be given to specify how large text views are compared to others when using "Odp" for layout_width or layout_height. For the Image a ImageView was used and for padding I used paddingLeft, paddingRight, paddingTop, paddingBottom on the views. Background color for the views was changed using the background field and for text color and font I used textSize and textColor.



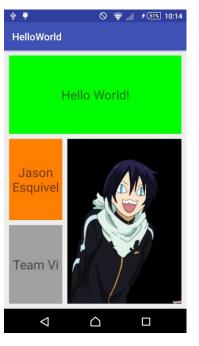




Figure 1 Figure 2 Figure 3(Final Version)

Figure 1 show initial app without any padding. Figure 2 show after padding was added. I wanted to get rid of the blue "HelloWorld" on the top as well as go into full screen mode when the screen is tapped. Figure 3 shows my final version of the app.

In order to get rid of the blue "Helloworld" dialog box I had to go into the AndroidManifest.xml file and change the following line.

```
android:theme="@style/Theme.AppCompat.NoActionBar">
```

In order to go into full screenmode I had to add the followingto MainActivity.java:

```
@Override
```

Discussion and Conclusion

This was a very enjoyable first lab to work on. I still need to figure out the pixel density so that future apps will work and all screen sizes. This time by using the layout_weight along with layout_width and layout_height I feel I got a good solution. I look forward to future lab assignments.

Appendix A: Code

MainActivity.java

```
package com.hw1.jasonesquivel.helloworld;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
public class MainActivity extends AppCompatActivity {
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    // Added to go into fullscreen mode
    @Override
   public void onWindowFocusChanged(boolean hasFocus) {
        super.onWindowFocusChanged(hasFocus);
        View decorView = getWindow().getDecorView();
        if (hasFocus) {
            decorView.setSystemUiVisibility(
                    View. SYSTEM UI FLAG LAYOUT STABLE
                            | View.SYSTEM UI FLAG LAYOUT HIDE NAVIGATION
                            | View.SYSTEM_UI_FLAG_LAYOUT_FULLSCREEN
                            | View.SYSTEM_UI_FLAG_HIDE_NAVIGATION
                            View. SYSTEM UI FLAG FULLSCREEN
                            | View.SYSTEM UI FLAG IMMERSIVE STICKY); }
    }
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"</pre>
```

```
android:orientation="vertical">
<RelativeLayout</pre>
   android:layout width="match_parent"
   android:layout height="0dp"
   android:layout weight="1"
   android:paddingTop="10dp"
   android:paddingLeft="10dp"
   android:paddingRight="10dp"
   android:paddingBottom="5dp">
    <TextView
        android:id="@+id/hello"
        android:layout width="match parent"
        android: layout height="match parent"
        android:text="Hello World!"
        android:background="#00ff00"
        android:gravity="center"
        android:textSize="25sp"
        android:textColor="#000000"/>
</RelativeLayout>
< RelativeLayout
   android:layout_width="match_parent"
    android:layout_height="0dp"
   android:layout weight="2">
    <LinearLayout</pre>
        android:layout width="match parent"
        android:layout height="match parent"
        android:orientation="horizontal">
        <LinearLayout
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="1"
            android:orientation="vertical">
            <LinearLayout</pre>
                android:layout width="match parent"
                android: layout height="0dp"
                android:layout weight="1"
                android:paddingTop="5dp"
                android:paddingLeft="10dp"
                android:paddingRight="5dp"
                android:paddingBottom="5dp">
                <TextView
                    android:id="@+id/name"
                    android:layout width="match parent"
                    android:layout height="match parent"
                    android:text="Jason Esquivel"
                    android:background="#ff8000"
                    android:gravity="center"
                    android: textSize="25sp"
            </LinearLayout>
            <LinearLayout</pre>
                android:layout width="match parent"
                android:layout height="0dp"
                android:layout weight="1"
                android:paddingTop="5dp"
```

```
android:paddingLeft="10dp"
                    android:paddingRight="5dp"
                    android:paddingBottom="10dp">
                    <TextView
                        android:id="@+id/group"
                         android:layout width="match parent"
                         android:layout height="match parent"
                         android:text="Team Vi"
                         android:background="#a0a0a0"
                        android:gravity="center"
                        android:textSize="25sp"/>
                </LinearLayout>
            </LinearLayout>
            <LinearLayout</pre>
                android:layout width="0dp"
                android:layout height="match parent"
                android:layout weight="2"
                android:paddingTop="5dp"
                android:paddingLeft="5dp"
                android:paddingRight="10dp"
                android:paddingBottom="10dp">
                <ImageView</pre>
                    android:src="@drawable/yato"
                    android:layout width="match parent"
                    android: layout height="match parent"
                    android:scaleType="centerCrop"/>
            </LinearLayout>
        </LinearLayout>
    </RelativeLayout>
</LinearLayout>
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   package="com.hw1.jasonesquivel.helloworld">
    <application
       android:allowBackup="true"
        android:icon="@mipmap/ic launcher"
        android:label="@string/app name"
        android:supportsRtl="true"
        android: theme="@style/Theme.AppCompat.NoActionBar">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```