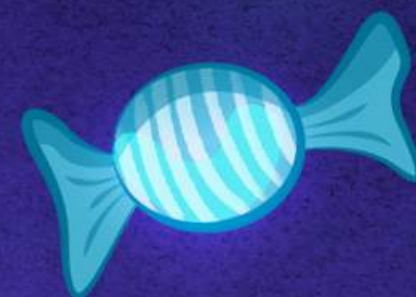


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ANDROID  
TIME





Level 3 – Section 1

# The Detail Activity Layout

The Constraint Layout

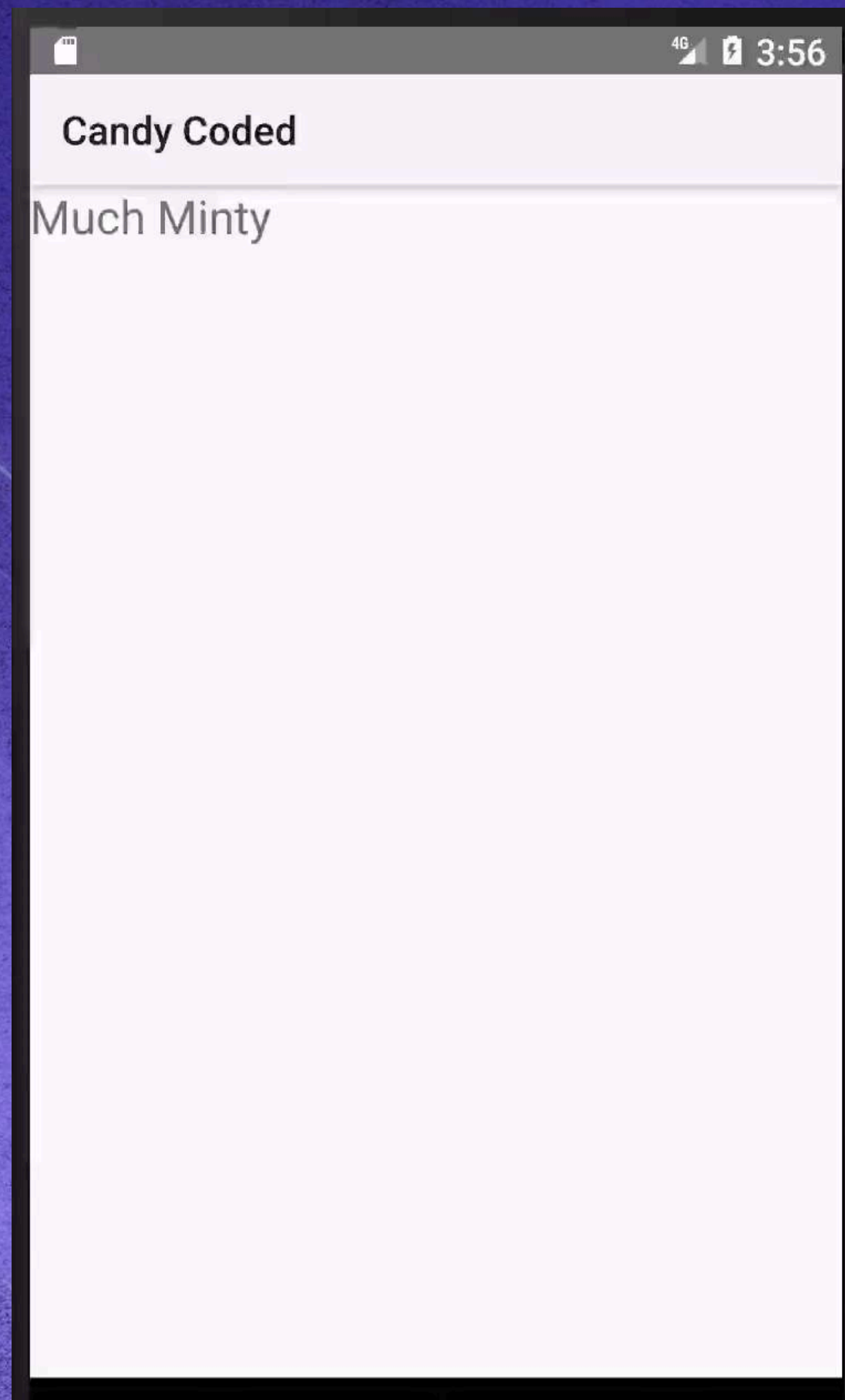
SUPER  
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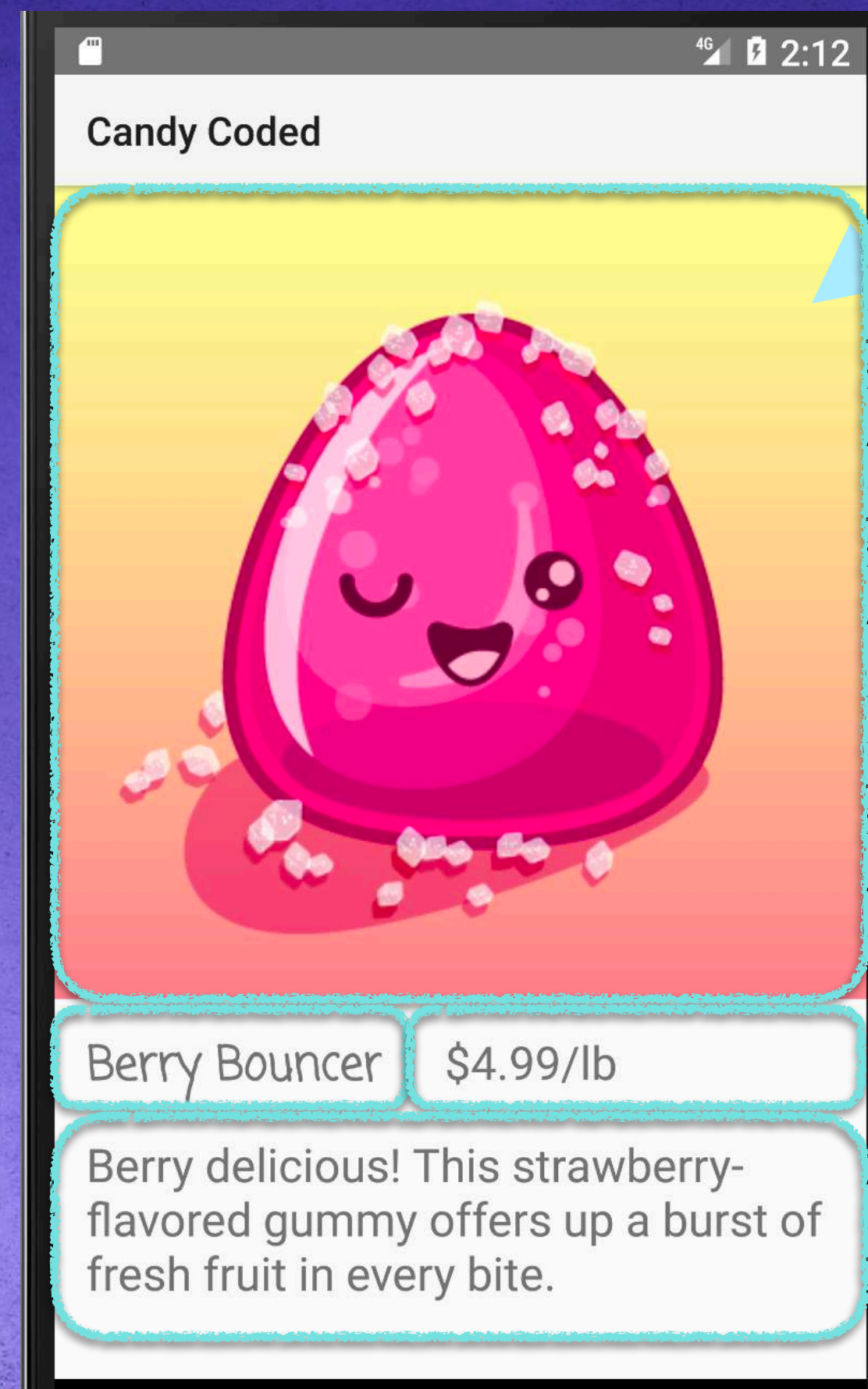


# What We Want DetailActivity's Layout to Look Like

Right now the Detail Activity is only showing the Candy Name, we want to add TextView's for the price and description and an ImageView for the image.



*Our Detail Activity right now*



*Our final Detail Activity*

*We can use a  
ConstraintLayout to  
arrange all of these  
Views relative to each  
other*





# Screencast: Configuring the DetailActivity's ConstraintLayout

---

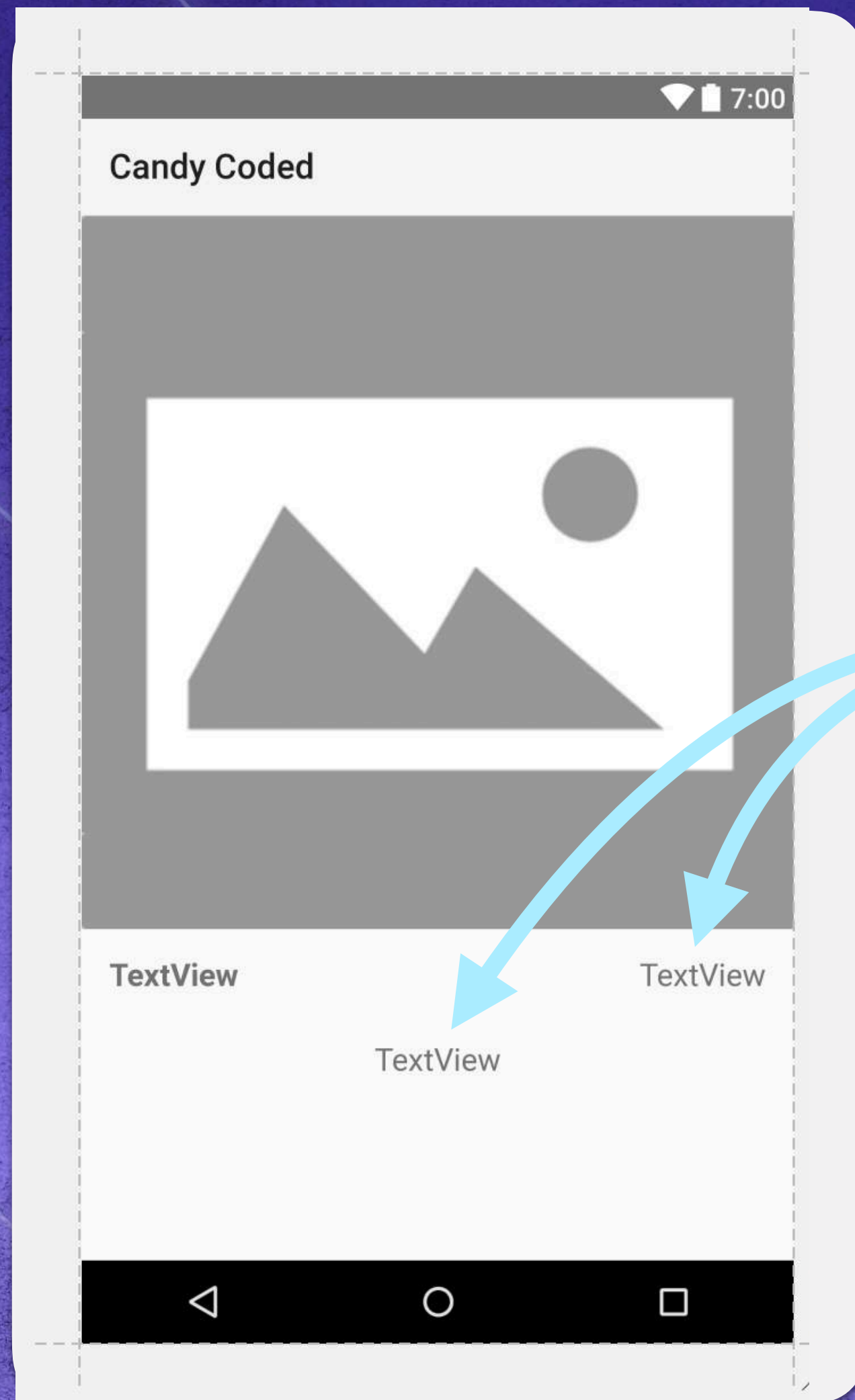
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# Our New Detail Activity Layout

Now that we have our new Detail Activity's layout in place, let's edit the Java code to fill the Views with data.



*Let's write the code to fill  
the price and description  
TextViews with actual  
data*

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# Setting the TextView' text in DetailActivity

In DetailActivity, after we set the candy's name we can set the text for the other TextView objects.

## DetailActivity.java

```
...
public class DetailActivity extends AppCompatActivity {
    @Override protected void onCreate(Bundle savedInstanceState) {
        ...
        Intent intent = DetailActivity.this getIntent();
        String candyName = "";
        if (intent != null && intent.hasExtra("candy_name")) {
            candyName = intent.getStringExtra("candy_name");
        }
        TextView textViewName = (TextView) this.findViewById(
                                                    R.id.text_view_name);
        textViewName.setText(candyName);
        Let's set the text for the other TextViews
        here using the same 3 steps as above
    }
}
```

1 *Get the value sent with the intent.*

2 *Find the TextView*

3 *Set the TextView's text*



# Setting the Description TextViews' text

Setting the text for the description TextView will be similar to setting it for the name.

## DetailActivity.java

```
...
public class DetailActivity extends AppCompatActivity {
    @Override protected void onCreate(Bundle savedInstanceState) {
        ...

        String candyDesc = "";
        if (intent != null && intent.hasExtra("candy_desc")) {
            candyDesc = intent.getStringExtra("candy_desc");
        }

        TextView textViewDesc = (TextView)this.findViewById(
            R.id.text_view_desc);
        textViewDesc.setText(candyDesc);

    }
}
```

*Get the value sent with the intent*

*Find the TextView*

*Set the TextView's text*



# Setting the Price TextViews' text

Setting the text for the description TextView will also be similar to setting it for the name.

## DetailActivity.java

```
...
public class DetailActivity extends AppCompatActivity {
    @Override protected void onCreate(Bundle savedInstanceState) {
        ...

        String candyPrice = "";
        if (intent != null && intent.hasExtra("candy_price")) {
            candyPrice = intent.getStringExtra("candy_price");
        }

        TextView textViewPrice = (TextView) this.findViewById(
            R.id.text_view_price);
        textViewPrice.setText(candyPrice);

    }
}
```

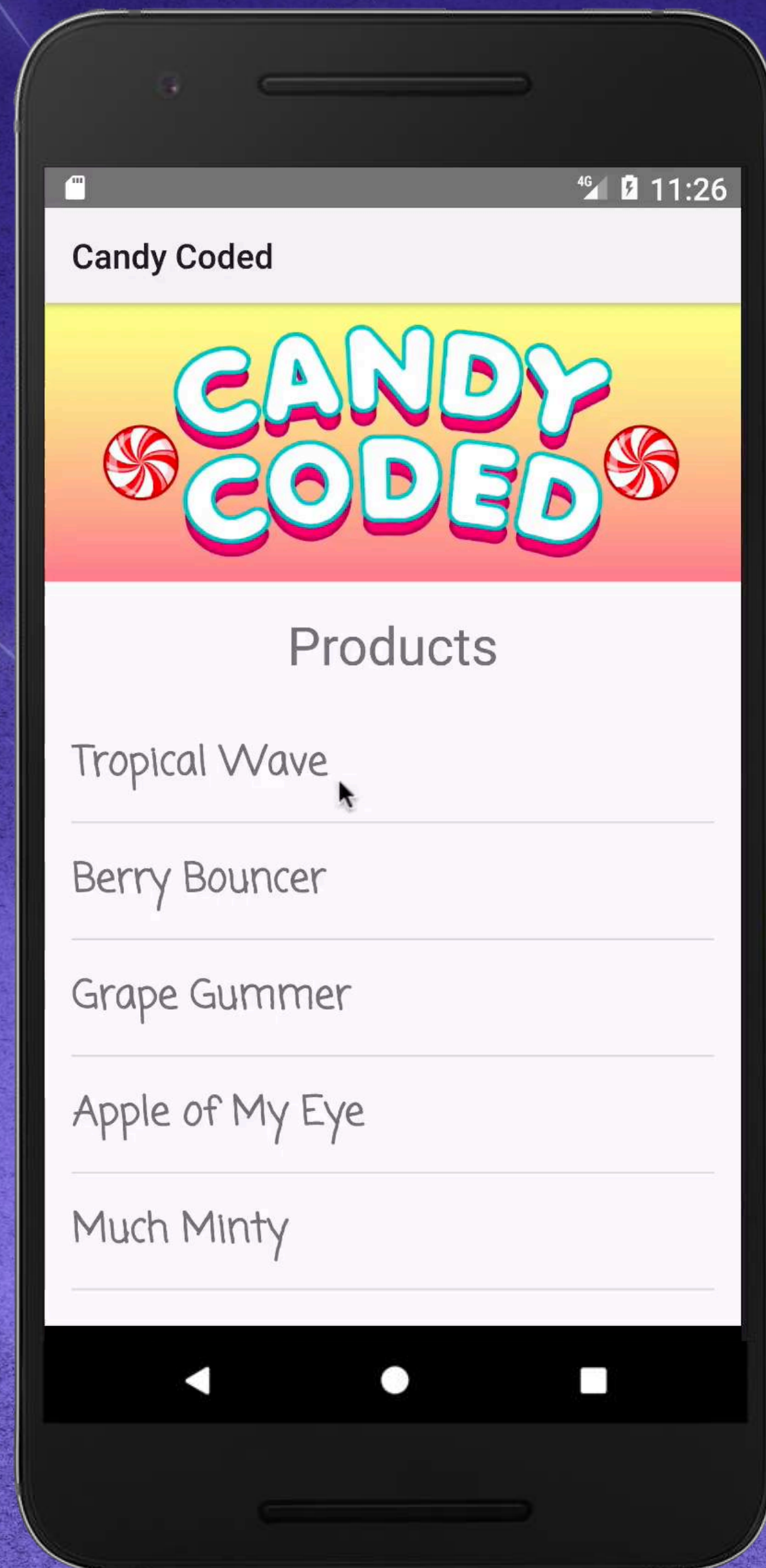
*Get the value sent with the intent.*

*Find the TextView*

*Set the TextView's text*



# Demo: The TextViews Have Live Data



*Now our TextViews have live data!*

*Next we'll add our image!*

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Level 3 – Section 2

# The Detail Activity Layout

Using the Picasso Image Library

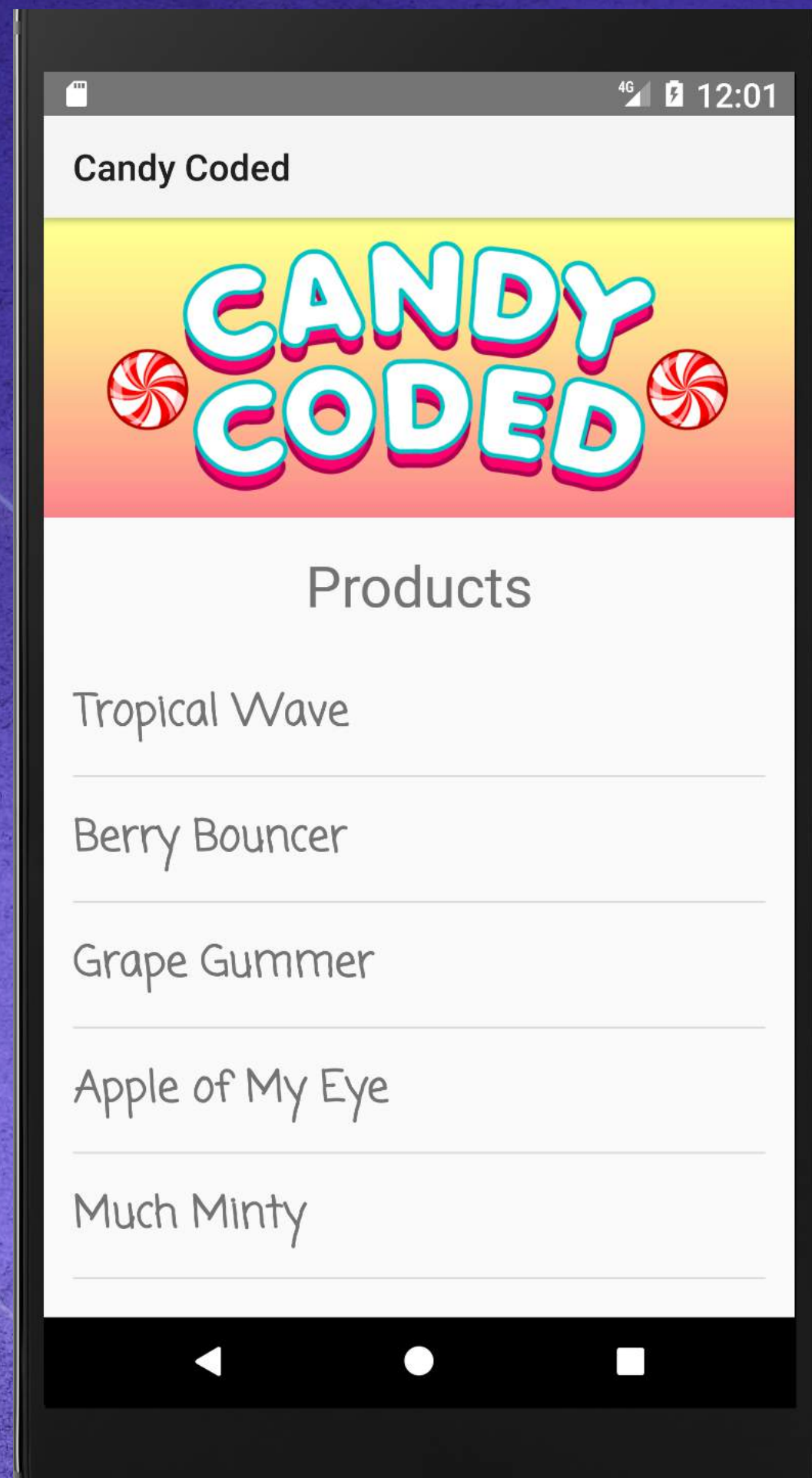
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# Displaying an Image via a URL in an ImageView

Instead of writing somewhat lengthy code to download images into our app and cache them, Picasso is an Android library we can use to do this for us.



Web  
Server



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# Caching

We need caching because getting files from a distant web server takes much longer than getting locally cached images from memory.





# Adding the Picasso Library to our Project

build.gradle (app)

```
apply plugin: 'com.android.application'

android {
    compileSdkVersion 25
    buildToolsVersion "25.0.0"
    defaultConfig {
        applicationId "com.codeschool.candycoded"
        minSdkVersion 10
        targetSdkVersion 25 ...
    } ...
}

dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
    androidTestCompile(...)
    compile 'com.android.support:appcompat-v7:25.3.0'
    ...
    compile 'com.squareup.picasso:picasso:2.5.2'
}
```

*Add the Picasso Library to our project by adding to the bottom of dependencies.*



*Then when we sync our project, gradle will automatically download and compile any dependencies.*



# Using Picasso to Load an Image into an ImageView

Now that Picasso has been included in our project, it's really easy to use it in our code.

```
Picasso.with(this).load(candy_image).into(imageView);
```

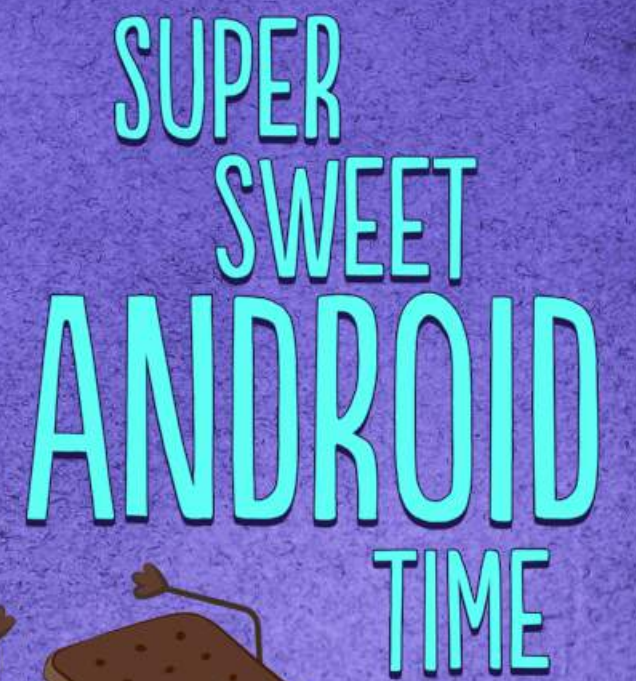
*The context, this means that we're going to display the image in this DetailActivity*

*The url where Picasso will download the image from*

*The ImageView where we're going to display the image*

*Remember by using Picasso, Android Studio will automatically add the following import line to the top of your file. Or you can add it yourself.*

```
import com.squareup.picasso.Picasso;
```





# Using Picasso to Load an Image into an ImageView

## DetailActivity.java

```
...
Intent intent = DetailActivity.this.getIntent();
...
String candy_image = "";
if (intent != null && intent.hasExtra("candy_image")) {
    candy_image = intent.getStringExtra("candy_image");
}

ImageView imageView = (ImageView)this.findViewById(
    R.id.image_view_candy);
Picasso.with(this).load(candy_image).into(imageView);
...
```

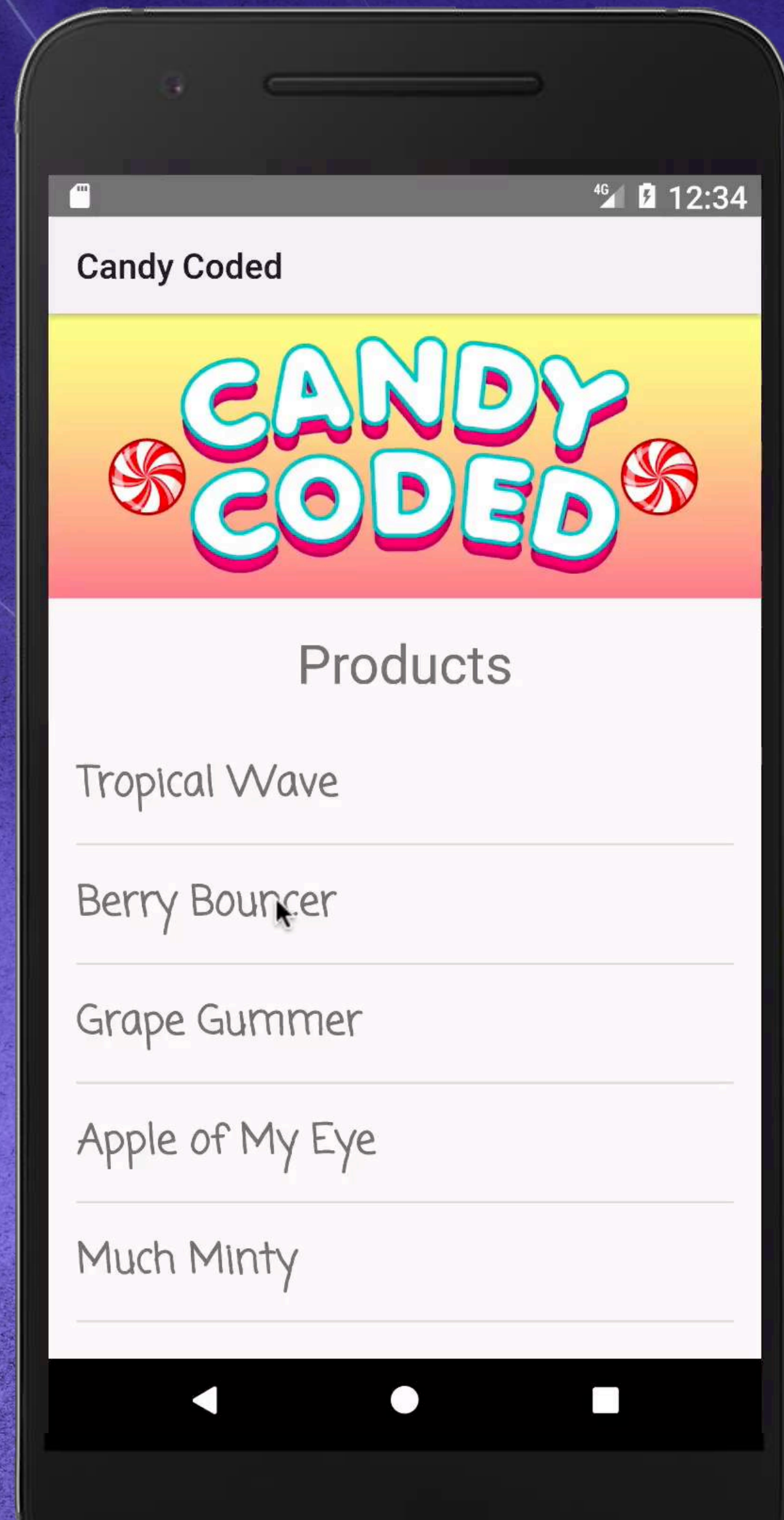
*First we need the image url  
passed in with the Intent*

*Then we need to find  
our ImageView*

*We can then use Picasso to load and cache our image  
from the URL and display it in our ImageView*



# Picasso in Action



*Now we can see Picasso loading our images dynamically from the image URL!*





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