Girl Develop It, Class 3

- res/
 - values/styles.xml

```
<style="NumberKey" parent="Wrap">
<item="android:textColor">@color/white</item>
</style>
```

- Group of reusable widget concepts that can be applied to multiple XML views.
- They are useful for simplifying XML layouts because it reduces duplication and places that you need to update when things change.
- Can inherit from other styles (using parent="")
- Themes are a special styles that are applied to the entire application. This is good for things like setting the application's background color, whether to show a title bar or not, etc.
- · values/dimens.xml
 - Dimensions are used to describe width and heights of views. They can also be used to specify text sizes
 or margins.
 - It's good practice to define dimensions in values/dimens.xml instead of hard coded on your XML widgets. This allows you to change them guickly and define different sizes for different screens.
 - Sizes
 - match parent (deprecated: fill parent) this view should fill the entire screen.
 - wrap_content make this view no bigger than it needs to be to contain this element.
 - You can also define custom sizes in dp's (density independent pixels).
 <dimen name="NumberButtonHeight">30dp</dimen>
 - Font sizes are specified in sp (not dp), which gives the benefits of dp, but text size also changes when the user changes their text viewing settings.

Example: Extra large font sizes may be turned on for the visually impaired and you would want your app to use large fonts also.

- · values/strings.xml
 - You put strings like error messages, labels, and other static messages into the strings.xml file.
 - This makes it easy to internationalize, reuse, and update if they are centralized in one place.
 - Can use <i> and <u> to style them

<string name="BOLD_STRING">Hello there</string>

Can also use a format string

<string name="BROKEN_THINGS">%d of your things are broken.</string>

- values/colors.xml
 - You can define your own colors in values/colors.xml.
 - There are several ways to specify them, but the simplest is #RRGGBB.

<color name="red">#FF0000</color>

- · IntelliJ has a GUI color picker.
- drawable/
 - This is where you store images that will be used in the application. You can use JPG and PNG, but PNG is preferred.

Note: File names must be all lower case, alpha-numeric, or with underscores.

- Can define shapes in XML or use special 9-patch files that stretch as specified.
- Can also describe states of an image or button. The states can refer to images, colors, or XML shapes.

- Making interfaces that scale http://developer.android.com/guide/practices/screens support.html
 - Best Practices
 - Use wrap_content, match_parent, or dp units when specifying dimensions.
 - Don't use exact pixel sizes when defining a view because it won't scale or look good on other devices.
 Create drawables for different densities so the images don't look bad when scaling

```
xhdpi, ldpi, mdpi, hdpi
```

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Best Practices

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- Create drawables for different densities so the images don't look bad when scaling
 xhdpi, ldpi, mdpi, hdpi
- Create styles and use dimensions to scale your views. Sometimes you don't need a whole new layout to
 make your app look good on larger screens. For example, with the calculator app, we just want the buttons
 to look bigger. You can create a style that uses a dimension. Then using the qualifier system (described
 below), you can specify how big the dimension is on the two different screens.
- Using Android's qualifier system.
 - Qualifiers are used on folder names to specify if it relates to a specific screen size, orientation, or SDK version.
 - layout-small, layout-medium, layout-large, layout-xlarge for different screen sizes
 - layout-land for landscape version of your view
 - Android magically shows the correct view for you if you put it in the right folder.
 - Responsive: You can create buckets for custom screen widths or heights. For example, if your current layout looks great up to a 300dp screen width you create a layout for the smaller screen and then another one for the larger size. Android knows which to sjow.