# **Custom Styles**

This lesson will cover how to apply custom styles.

# WE'LL COVER THE FOLLOWING ^ Recap Theme overwrite Individual styles

### Recap #

The login screen is almost ready. It's time to polish the user interface with some custom styles and colors.

Let's see what we need to do before applying custom styles. First, we need to make sure that our activity extends <code>AppCompatActivity</code>.

```
public class LoginActivity extends AppCompatActivity {
    ...
}
LoginActivity
```

Next, we need to use one of the material component themes inside the activity or application tags in the *AndroidManifest.xml* file.

Now, all the user interface components are going to use default styles declared in the <a href="https://doi.org/10.2016/nchar.10">Theme.MaterialComponents.DayNight.NoActionBar</a>. Let's try to extend this theme and overwrite default colors.

#### Theme overwrite

Create styles.xml file inside app/src/main/res/values folder. That's where all our styles are going to live. Declare a style with the name AppTheme and, as a parent, use Theme.MaterialComponents.DayNight.NoActionBar. Now, we can overwrite any item by declaring it inside AppTheme with the exact same name as in parent theme.

We are going to overwrite three colors:

- colorPrimary This color is used to paint most of the main components.

  This is usually a neutral color, for our case we are going to use *dark blue*700 from the material design site.
- colorSecondary This color is used to paint other parts of the main components. This is usually a bright color, for our case we are going to use *orange 500* from the material design site.
- colorPrimaryDark This color is used to paint the system bar. This is usually a darker version of colorPrimary, for our case we are going to use dark blue 800 from the material design site.

Defining colors directly in the styles file is not a good idea since it limits color reuse and promotes copy-pasting colors all over the place. The better approach would be to declare colors in one file and use ID references to use those colors.

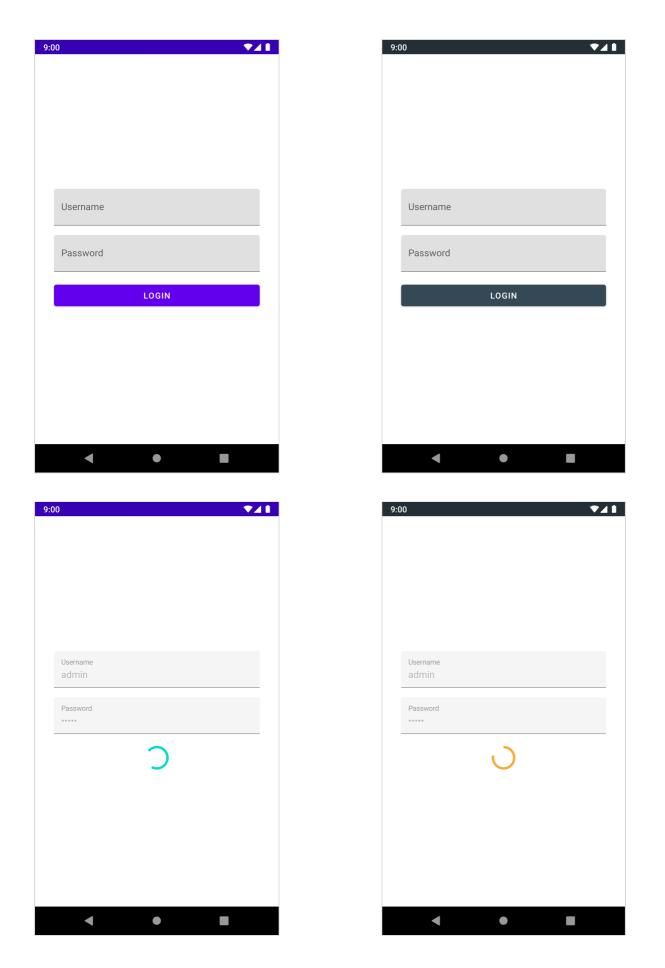
Create colors vml file inside ann/snc/main/nes/values folder That's where all

our colors are going to live. Declare the three colors mentioned above in this file.

Now that we have our colors declared, we can use them in AppTheme via ID references starting with @color.

Finally, let's switch the application theme to the newly created in *AndroidManifest.xml* file.

As you can see in the preview below, now instead of violet and green our components are painted in dark blue and orange.

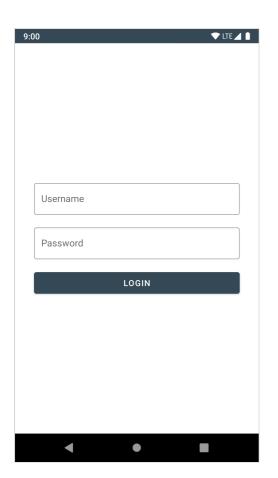


## Individual styles #

Very often we want to change the style of the individual component. To do so, the style attribute can be used. Let's use an alternative style for

TextInputLayout defined in material components text input field guide.

activity\_login.xml





Hit the run button to try it yourself.

```
public boolean isLoggedIn() {
    return preferences.getBoolean(KEY_LOGIN_STATE, false);
}

public void setLoggedIn(boolean loggedIn) {
    preferences.edit().putBoolean(KEY_LOGIN_STATE, loggedIn).apply();
}
```