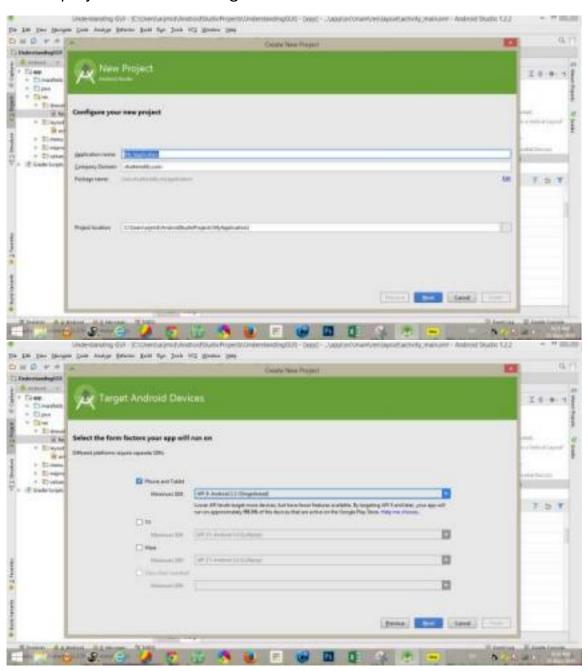
CS8662 Mobile Application Development Lab

Develop an application that uses GUI components, Font and Colours

Understanding GUI

In this chapter we'll learn about different GUI in Android Studio and develop an app that use GUI, Font and Colors.

Part 1: Start a project "Understanding GUI"



You can learn more about the Android Studio Interface from http://developer.android.com/tools/studio/index.html.

Part 2:

UI design for android application is done using a layout xml file.

Android studio offers a layout editor which allows you to drag and drop UI elements into the interface.

You can learn more about layout editor from

http://developer.android.com/sdk/installing/studio-layout.html

Part 3:

Learn more on Material Design at

https://www.google.com/design/spec/materialdesign/introduction.html#introduction-goals

UI Elements:

Layouts:

- Linear Layout
 - Horizontal
 - Vertical
- Relative Layout
- Table Layout
- Grid Layout (Requires API 14 or more)
- Frame Layout

Widgets:

- TextView
- Button
- RadioButton
- ToggleButton
- ImageView
- ImageButton
- CheckBox
- ProgressBar
- SeekBar
- RatingBar
- WebView
- Spinner

Text Fields

- EditText
 - o Plain text, Name, Number, Email etc.

Containers

- ScrollView
 - Vertical
 - Horizontal
- ListView
- GridView
- SearchView
- TabHost

Common Attributes

- Layout Width
- Layout Height
- Gravity
 - o centre
 - o left
 - o right etc.

- match_parent
- o fill_parent
- wrap_content
- o <<pivel value>> in dp

- style
 - o uses drawable.
- background
 - o color or drawable.
- id
- padding
- margin
- textColor
 - o color value (Hex,Rgba etc.)
 - o drawable
 - o color resource
- textStyle
- typeface

Changing attributes (text color, background, typeface etc.) in java

```
TextView <<variable>> = (TextView) findViewById(R.id.<<id>>);
<<variable>>.setTextColor(getResources().getColor(R.color.<<name>>));
```

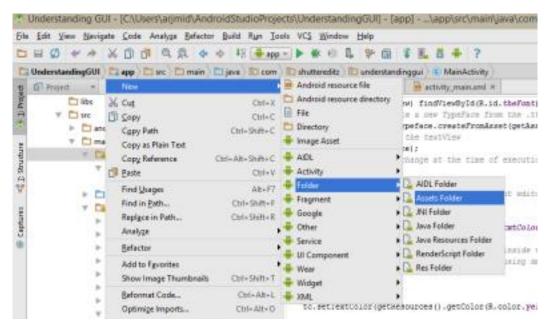
The color resource is defined in a "color.xml" rescource file inside "values" resource directry.

Eg:

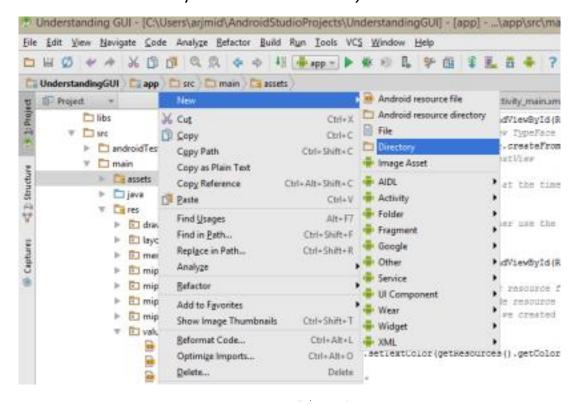
Changing Type Face

First we need to import a font-face to assets directory.

Create an assets directry.

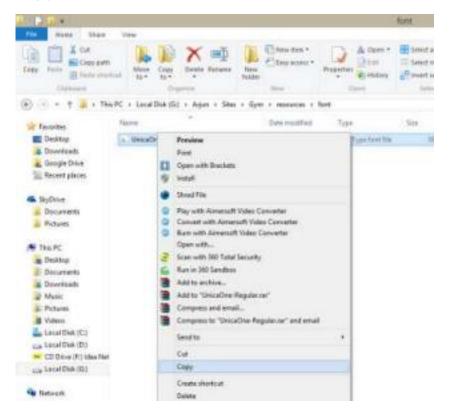


Create a new directory "font" - not necessary -

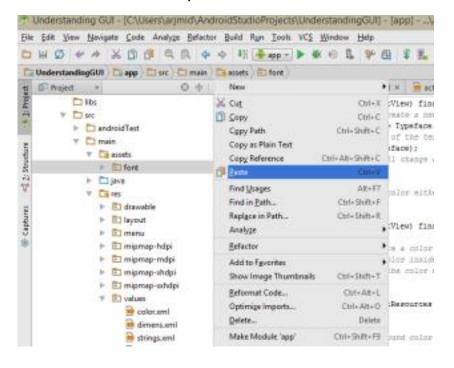


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Copy the font



Paste it in the directory.



Change all caps to small and special characters (space, dash etc.) to underscore. Else it'll give an error on gradle build.



Now use the java script:

