1. XML

a. Basic Syntax:

<TextView

android:text = "Happy Birthday!"

android:background = "some image"

android :textSize = "" //

android : textColr = "" //

android:layout\_width = "150dp" //or "wrap\_content"

android:layout\_height = "75dp" /> // or change 75dp to wrap\_content

b. refer to "https://material.io/guidelines/style/typography.html#typography-styles" for the textSize

c. developer.android.com

d. parent view : LinearLayout

some keyword : match\_parent

some code examples:

<LinearLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="vertical"

android:layout\_width="**match\_parent**"

android:layout\_height="**match\_parent**"

android:background="@android:color/darker\_gray">

<TextView

android:text="VIP List"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:background="#4CAF50"

android:textSize="24sp" />

<TextView

android:text="Kunal"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:background="#4CAF50"

android:textSize="24sp" />

</LinearLayout>

e. layout\_weight, “0dp” use to arrange children views

relative layout documents:

<https://developer.android.com/reference/android/widget/RelativeLayout.LayoutParams.html?utm_source=udacity&utm_medium=course&utm_campaign=android_basics>

<TextView

android:id="@**+**id/lyla\_text\_view" // the + is for declaration

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_alignParentLeft="true"

android:textSize="24sp"

android:text="Lyla" />

<TextView

android:id="@+id/me\_text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_toRightOf="@id/lyla\_text\_view" // when refer to it, not need +

android:textSize="24sp"

android:text="Me" />

**One relative layout example:**

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

>

<ImageView

android:id = "@+id/image\_view\_id"

android:layout\_width="56dp"

android:layout\_height="56dp"

android:scaleType="centerCrop"

android:src="@drawable/ocean" />

<TextView

android:id = "@+id/pebble\_text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop = "true"

android:layout\_toRightOf = "@id/image\_view\_id"

android:text="Pebble Beach"

android:textAppearance="?android:textAppearanceMedium" />

<TextView

android:id = "@+id/california\_text\_view"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="California"

android:layout\_toRightOf = "@id/image\_view\_id"

android:layout\_below = "@id/pebble\_text\_view"

android:textAppearance="?android:textAppearanceSmall" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_toRightOf = "@id/image\_view\_id"

android:layout\_below = "@id/california\_text\_view"

android:text="10 miles away"

android:textAppearance="?android:textAppearanceSmall" />

</RelativeLayout>

实战coding

Layout editor

<https://developer.android.com/studio/write/layout-editor.html>

Android Studio Debugger:

https://developer.android.com/studio/debug/index.html?utm\_source=udacity&utm\_medium=course&utm\_campaign=android\_basics

一些资料：

https://classroom.udacity.com/courses/ud834/lessons/4034888704/concepts/f0e5771c-ba55-44e0-bde9-3fc52219edc5