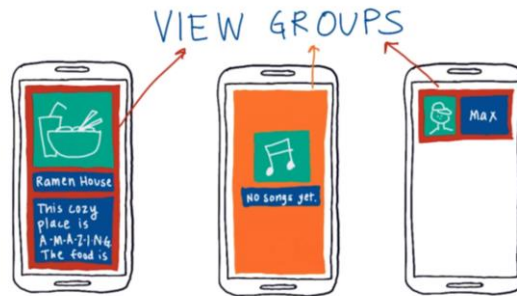


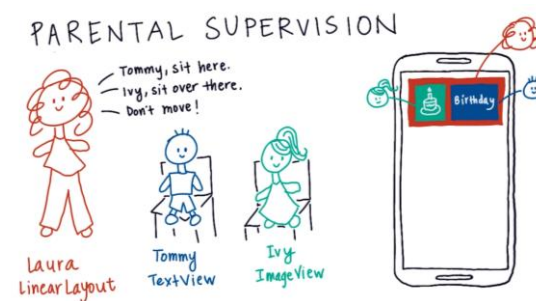
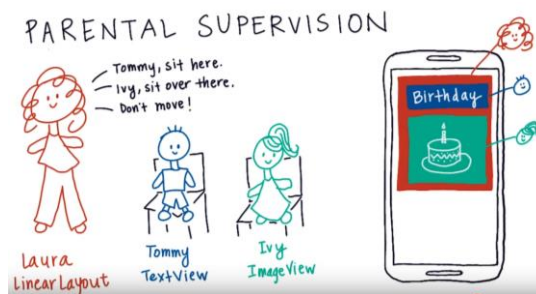
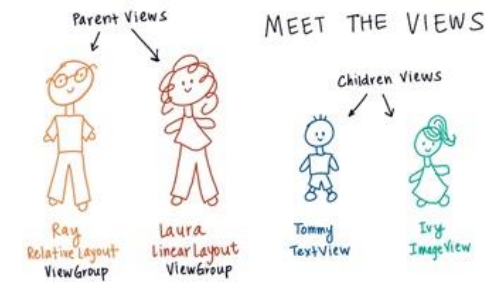
Unit 1

Layout, Tampilan, dan Sumber Daya

1. Tujuan
 - a.
2. Teori Dasar
 - a. View Groups

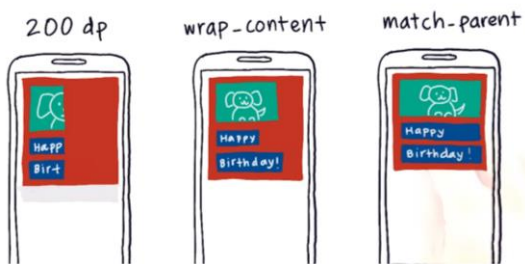


- b. Parent dan Child Group



- c. Perbedaan antara Match Parent dan Wrap Content

DIFFERENT WIDTHS ON CHILD VIEWS

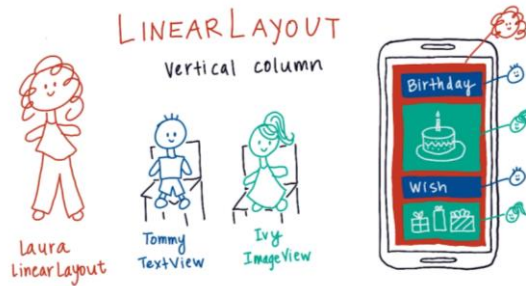


DIFFERENT HEIGHTS ON CHILD VIEWS

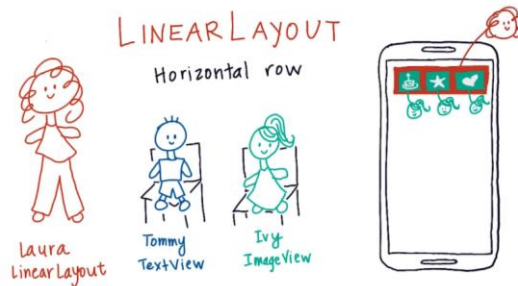


d. Linear Layout

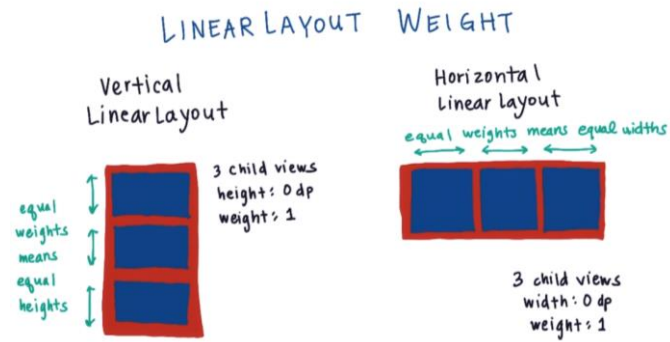
1) Vertical column



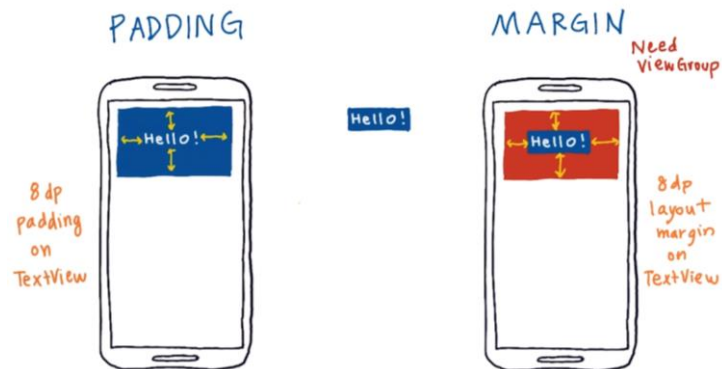
2) Horizontal column



3) Linear Layout Weight

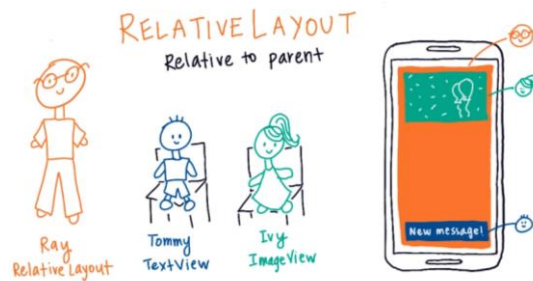


4) Padding Vs Margin

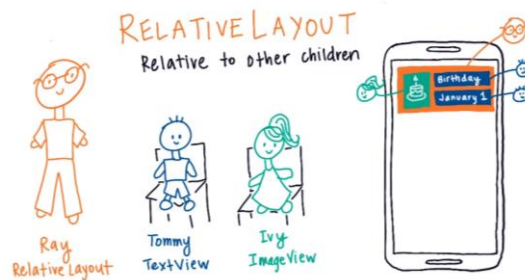


e. Relative Layout

1) Relative to parent






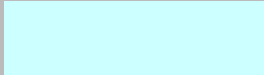
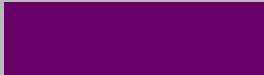

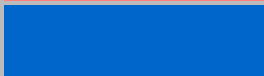
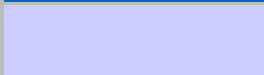
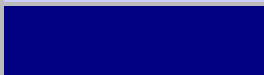





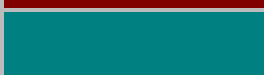



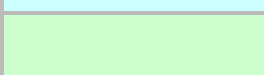
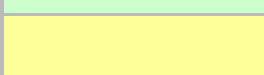



2) Relative to other children


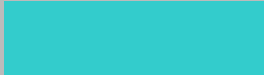



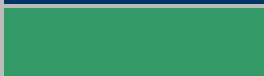




f. Kode Warna pada XML

Color	Color Index	Color Name	Html Color
	0	Black	#FF000000

	1	White	#FFFFFF
	2	Red	#FF0000
	3	Bright Green	#00FF00
	4	Blue	#0000FF
	5	Yellow	#FFFF00
	6	Pink	#FF00FF
	7	Turquoise	#00FFFF
	8	Black	#000000
	9	White	#FFFFFF
	10	Red	#FF0000
	11	Bright Green	#00FF00
	12	Blue	#0000FF
	13	Yellow	#FFFF00
	14	Pink	#FF00FF
	15	Turquoise	#00FFFF
	16	Dark Red	#800000
	17	Green	#008000
	18	Dark Blue	#000080
	19	Dark Yellow	#808000
	20	Violet	#800080
	21	Teal	#008080
	22	Gray-25%	#C0C0C0
	23	Gray-50%	#808080

	24	Periwinkle	#FF9999FF
	25	Plum	#FF993366
	26	Ivory	#FFFFFFCC
	27	Light Turquoise	#FFCCFFFF
	28	Dark Purple	#FF660066
	29	Coral	#FFFF8080
	30	Ocean Blue	#FF0066CC
	31	Ice Blue	#FFCCCCFF
	32	Dark Blue	#FF000080
	33	Pink	#FFFF00FF
	34	Yellow	#FFFFFF00
	35	Turquoise	#FF00FFFF
	36	Violet	#FF800080
	37	Dark Red	#FF800000
	38	Teal	#FF008080
	39	Blue	#FF0000FF
	40	Sky Blue	#FF00CCFF
	41	Light Turquoise	#FFCCFFFF
	42	Light Green	#FFCCFFCC
	43	Light Yellow	#FFFFFF99
	44	Pale Blue	#FF99CCFF
	45	Rose	#FFFF99CC
	46	Lavender	#FFCC99FF

	47	Tan	#FFFFCC99
	48	Light Blue	#FF3366FF
	49	Aqua	#FF33CCCC
	50	Lime	#FF99CC00
	51	Gold	#FFFFCC00
	52	Light Orange	#FFFF9900
	53	Orange	#FFF66600
	54	Blue-Gray	#FF666699
	55	Gray-Gray40%	#FF969696
	56	Dark Teal	#FF003366
	57	Sea Green	#FF339966
	58	Dark Green	#FF003300
	59	Olive Green	#FF333300
	60	Brown	#FF993300
	61	Plum	#FF993366
	62	Indigo	#FF333399
	63	Gray-80%	#FF333333

3. Praktikum

a. Linear Layout

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

```

```

<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Toast" />

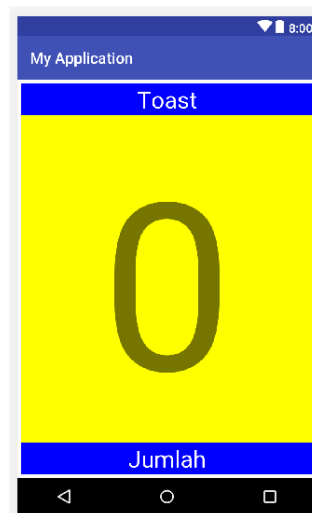
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="0" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Jumlah" />

</LinearLayout>

```

Editing Desain Tampilan



```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_margin="5dp"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:textSize="30sp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="0"
        android:background="#FF0000FF"
        android:textColor="#FFFFFF"

```

```
        android:gravity="center"
        android:text="Toast" />
```

<TextView

```
    android:id="@+id/textView1"
    android:textSize="300sp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:background="#FFFFFF00"
    android:gravity="center"
    android:text="0" />
```

<TextView

```
    android:id="@+id/textView2"
    android:textSize="30sp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="0"
    android:background="#FF0000FF"
    android:textColor="#FFFFFFF"
    android:gravity="center"
    android:text="Jumlah" />
```

</LinearLayout>

b. Relative Layout

1) Relative to Parent

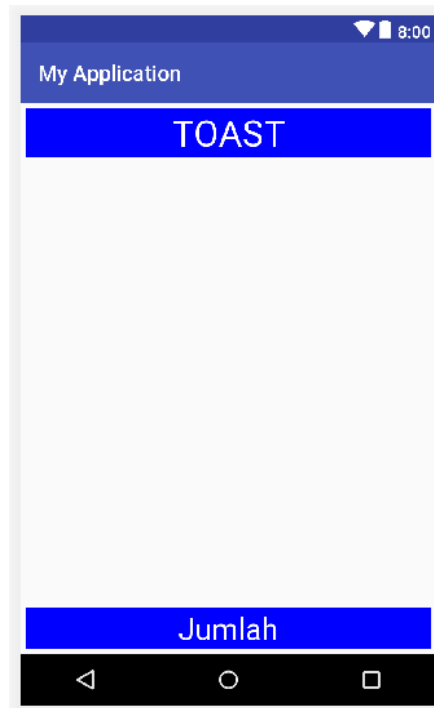
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Main2Activity">

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="44dp"
        android:text="TextView" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="22dp"
        android:text="TextView" />
```


</RelativeLayout>

Editing Desain Tampilan



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Main2Activity">

    <TextView
        android:id="@+id/textView3"
        android:textSize="33dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="44dp"
        android:gravity="center"
        android:background="#FF0000FF"
        android:textColor="#FFFFFF"
        android:layout_margin="5dp"
        android:text="TOAST" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="22dp"
        android:gravity="center"
        android:textSize="28dp"
```

```

        android:textColor="#FFFFFFF"
        android:background="#FF0000FF"
        android:layout_margin="5dp"
        android:text="Jumlah" />

</RelativeLayout>

```

2) Relative to Child

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Main2Activity">

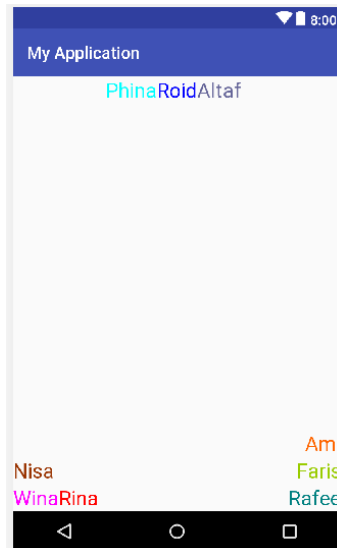
    <TextView
        android:id="@+id/textView9"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:text="TextView" />

    <TextView
        android:id="@+id/textView10"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:text="TextView" />

    <TextView
        android:id="@+id/textView11"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:text="TextView" />
</RelativeLayout>

```

Editing Desain Tampilan



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Main2Activity">

    <TextView
        android:id="@+id/textView9"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:textSize="24dp"
        android:textColor="#FF0000FF"
        android:text="Roid" />

    <TextView
        android:id="@+id/textView10"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:textSize="24dp"
        android:textColor="#FFFF00FF"
        android:text="Wina" />

    <TextView
        android:id="@+id/textView11"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:textSize="24dp"
        android:textColor="#FF008080"
        android:text="Rafee" />

    <TextView
        android:id="@+id/textView12"
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_toLeftOf="@id/textView9"
        android:textSize="24dp"
        android:textColor="#FF00FFFF"
        android:text="Phina" />

<TextView
    android:id="@+id/textView13"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentRight="true"
    android:layout_above="@id/textView11"
    android:textSize="24dp"
    android:textColor="#FF99CC00"
    android:text="Faris" />

<TextView
    android:id="@+id/textView14"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentRight="true"
    android:layout_above="@id/textView13"
    android:textSize="24dp"
    android:textColor="#FFFF6600"
    android:text="Ami" />

<TextView
    android:id="@+id/textView15"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_toRightOf="@id/textView10"
    android:textSize="24dp"
    android:textColor="#FFFF0000"
    android:text="Rina" />

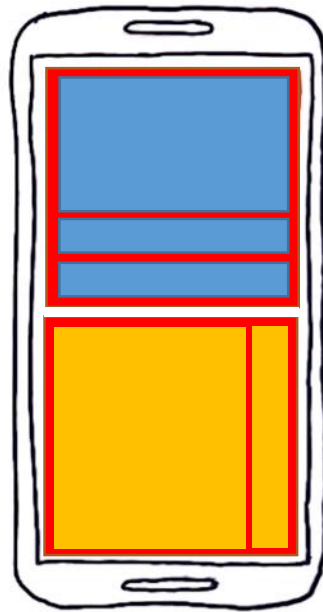
<TextView
    android:id="@+id/textView16"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_above="@+id/textView10"
    android:textSize="24dp"
    android:textColor="#FF993300"
    android:text="Nisa" />

<TextView
    android:id="@+id/textView17"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_toRightOf="@id/textView9"
    android:layout_above="@+id/textView13"
    android:textSize="24dp"
    android:textColor="#FF666699"
    android:text="Altaf" />
</RelativeLayout>

```

4. Tugas

- a. Desainlah sesuai dengan gambar di bawah ini:
1) Linear Layout



- 2) Relative Layout



- b. Buatlah tampilan tabel, absolute, frame layout, berikan masing-masing contoh. Tidak diperkenankan memiliki desain yang sama dengan mahasiswa lainnya.