

**LAPORAN**  
**PRAKTIKUM PENGEMBANGAN BERBASIS PLATFORM B2**



**PRAKTIKUM MANAJEMEN PENGEMBANGAN BERBASIS PLATFORM KE-11**

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**PRODI S-1 INFORMATIKA**

**FAKULTAS SAINS DAN MATEMATIKA**

**UNIVERSITAS DIPONEGORO**

**SEMARANG**

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## Praktikum 11 : Android Style and Theme

### Membuat Aplikasi Aplikasi Sederhana dengan memanfaatkan komponen Style dan Theme.

1. Membuka project “ViewandViews” yang sudah dibuat sebelumnya
2. Menambahkan resource color pada file *color.xml*

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="gray">#607D8B</color>
    <color name="gray_light">#B0BEC5</color>
    <color name="gray_dark">#455A64</color>
    <color name="orange">#FF5722</color>
    <color name="orange_light">#FFAB91</color>
    <color name="orange_dark">#E64A19</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFF</color>
    <color name="colorSubtitle">#757575</color>
</resources>
```

3. Mengubah warna tampilan di *themes.xml* dan *themes.xml(night mode)*

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.ViewandViews"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/gray</item>
        <item name="colorPrimaryVariant">@color/gray_dark</item>
        <item name="colorOnPrimary">@color/white</item>
        <!-- Secondary brand color. -->
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/orange_light</item>
        <item name="colorSecondaryVariant">@color/orange_dark</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <!--<item
name="android:statusBarColor">?attr/colorPrimaryVariant</item>-->
        <item name="android:statusBarColor"
tools:targetApi="1">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>

    <style name="TextContent">
        <item name="android:layout_width">wrap_content</item>
        <item name="android:layout_height">wrap_content</item>
```

```

        <item name="android:layout_marginLeft">16dp</item>
        <item name="android:layout_marginRight">16dp</item>
    </style>
    <style name="TextContent.Small">
        <item
name="android:textAppearance">@style/TextAppearance.MaterialComponents.Subtitle1</item>
    </style>
    <style name="TextContent.Small.White">
        <item name="android:textColor">@android:color/white</item>
    </style>
    <style name="TextContent.Subtitle">
        <item name="android:textColor">@color/colorSubtitle</item> <item
name="android:textSize">12sp</item>
    </style>
    <style name="TextSpec">
        <item name="android:textSize">14sp</item>
    </style>
    <style name="TextSpec.Field">
        <item name="android:layout_width">wrap_content</item>
        <item name="android:layout_height">wrap_content</item>
        <item name="android:layout_marginRight">16dp</item>
        <item name="android:textColor">@color/colorSubtitle</item>
    </style>
    <style name="TextSpec.Value">
        <item name="android:layout_width">match_parent</item>
        <item name="android:layout_height">wrap_content</item>
        <item name="android:layout_weight">1</item>
    </style>
</resources>

```

### themes.xml (night mode)

```

<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.ViewandViews"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/gray_light</item>
        <item name="colorPrimaryVariant">@color/gray</item>
        <item name="colorOnPrimary">@color/black</item>
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/orange_light</item>
        <item name="colorSecondaryVariant">@color/orange_light</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <item name="android:statusBarColor"
tools:targetApi="1">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>
</resources>

```

#### 4. Konfigurasi warna pada *activity\_main.xml*

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <FrameLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <ImageView
                android:layout_width="match_parent"
                android:layout_height="270dp"
                android:adjustViewBounds="true"
                android:contentDescription="TODO"
                android:scaleType="fitCenter"
                android:src="@drawable/headset" />
            <TextView
                style="@style/TextContent.Small.White"
                android:layout_gravity="bottom"
                android:layout_marginStart="16dp"
                android:layout_marginBottom="16dp"
                android:background="#4D000000"
                android:drawablePadding="4dp"
                android:gravity="center_vertical"
                android:padding="8dp"
                android:text="@string/dummy_photos"

app:drawableStartCompat="@drawable/ic_collections_white_18dp" />
            <!--
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="44dp"
                android:layout_gravity="bottom"
                android:layout_marginStart="16dp"
                android:layout_marginBottom="16dp"
                android:adjustViewBounds="true"
                android:background="#4D000000"
                android:drawablePadding="4dp"
                android:gravity="center_vertical"
                android:padding="8dp"
                android:scaleType="fitCenter"
                android:text="@string/dummy_photos"

android:textAppearance="@style/TextAppearance.AppCompat.Small"
```

```

        android:textColor="@android:color/white" />
    -->
</FrameLayout>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginTop="16dp"
    android:layout_marginBottom="8dp"
    android:text="@string/dummy_value"
    android:textSize="32sp" />
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="12sp"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginBottom="16dp"
    android:text="@string/stock" />
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginBottom="16dp"
    android:lineSpacingMultiplier="1"
    android:text="@string/content_text" />
<TextView
    style="@style/TextContent.Subtitle"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="12sp"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginBottom="8dp"
    android:text="@string/specification" />
<TableLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginBottom="16dp">

    <TableRow
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="8dp">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textSize="14sp"

```

```

        android:layout_marginEnd="16dp"
        android:text="@string/display" />
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="14sp"
        android:layout_weight="1"
        android:text="@string/content_specs_display" />
</TableRow>

<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="8dp">
    <TextView
        style="@style/TextSpec.Field"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="16dp"
        android:textSize="14sp"
        android:text="@string/size" />
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:textSize="14sp"
        android:text="@string/content_specs_size" />
</TableRow>

<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="8dp">
    <TextView style="@style/TextSpec.Field"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="16dp"
        android:textSize="14sp"
        android:text="@string/battery" />
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:textSize="14sp"
        android:text="@string/content_specs_battery" />
</TableRow>
</TableLayout>

<TextView
    style="@style/TextContent.Subtitle"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="12sp"

```

```

        android:layout_marginLeft="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="8dp"
        android:text="@string/seller" />
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="16dp">
        <de.hdodenhof.circleimageview.CircleImageView
            android:id="@+id/profile_image"
            android:layout_width="56dp"
            android:layout_height="56dp"
            android:layout_centerVertical="true"
            android:layout_marginEnd="16dp"
            android:src="@drawable/pak_burhan" />
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_centerVertical="true"
            android:layout_toEndOf="@+id/profile_image"
            android:text="@string/my_name" />
    </RelativeLayout>

    <Button
        android:id="@+id/btn_beli"
        android:text="@string/buy"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="2dp" />

    <Button
        android:id="@+id/btn_dial_number"
        android:text="@string/hubungics"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="16dp" />
</LinearLayout>
</ScrollView>

```

## 5. Tampilan Akhir

5:08 AM

Headphone Sony WH-1000XM5



420 photos

\$100000

Stock hanya 5 buah

Headphone ultranyaman WH-1000XM5 mengubah arti dari mendengarkan tanpa gangguan dan kejernihan panggilan yang luar biasa. Dua prosesor mengontrol beberapa mikrofon, menghasilkan noise cancelling yang belum pernah ada sebelumnya, sedangkan Auto NC Optimizer mengoptimalkan noise cancelling secara otomatis berdasarkan kondisi dan lingkungan pemakaian. Unit driver 30mm desain khusus menghasilkan kualitas suara superior untuk semua hiburan Anda.

Spesifikasi

Size 30mm

Feature

- Active Noise Cancellation
- Quick-Charge 3mins. → 1hrs (10mins → 5hrs)

Other

10000 mAh battery

Standby time (LTE): up to 19 days

Talk time (3g/WCDMA): up to 26 hours

Internet use time (Wi-Fi): up to 13 hours


Internet use time (LTE): up to 13 hours

Video playback: up to 13 hours

Audio playback (via headset): up to 110 hours

Fast charging: up to 7 hours of use from only 15 minutes of charging

Dijual oleh


 Bapak Abyan

BELI

HUBUNGI CS

5:08 AM

Headphone Sony WH-1000XM5



420 photos

\$100000

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Dijual oleh


 Bapak Abyan

BELI

HUBUNGI CS

5:08 AM


Pembelian



Produk telah berhasil dibeli

5:08 AM

Pembelian



Produk telah berhasil dibeli



## 6. Mengatasi Bug Black Text pada Night Mode

Menambahkan pada *activity\_main.xml*

```
android:textColor = "?android:textColorPrimary"
```

Menambahkan pada *themes.xml* (night)

```
<!-- Customize your theme here. -->  
<item name="android:textColorPrimary">@color/white</item>
```

Menambahkan pada *themes.xml*

```
<!-- Customize your theme here. -->  
<item name="android:textColorPrimary">@color/black</item>
```