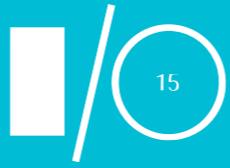


Support Design Library

김태호 (커니)

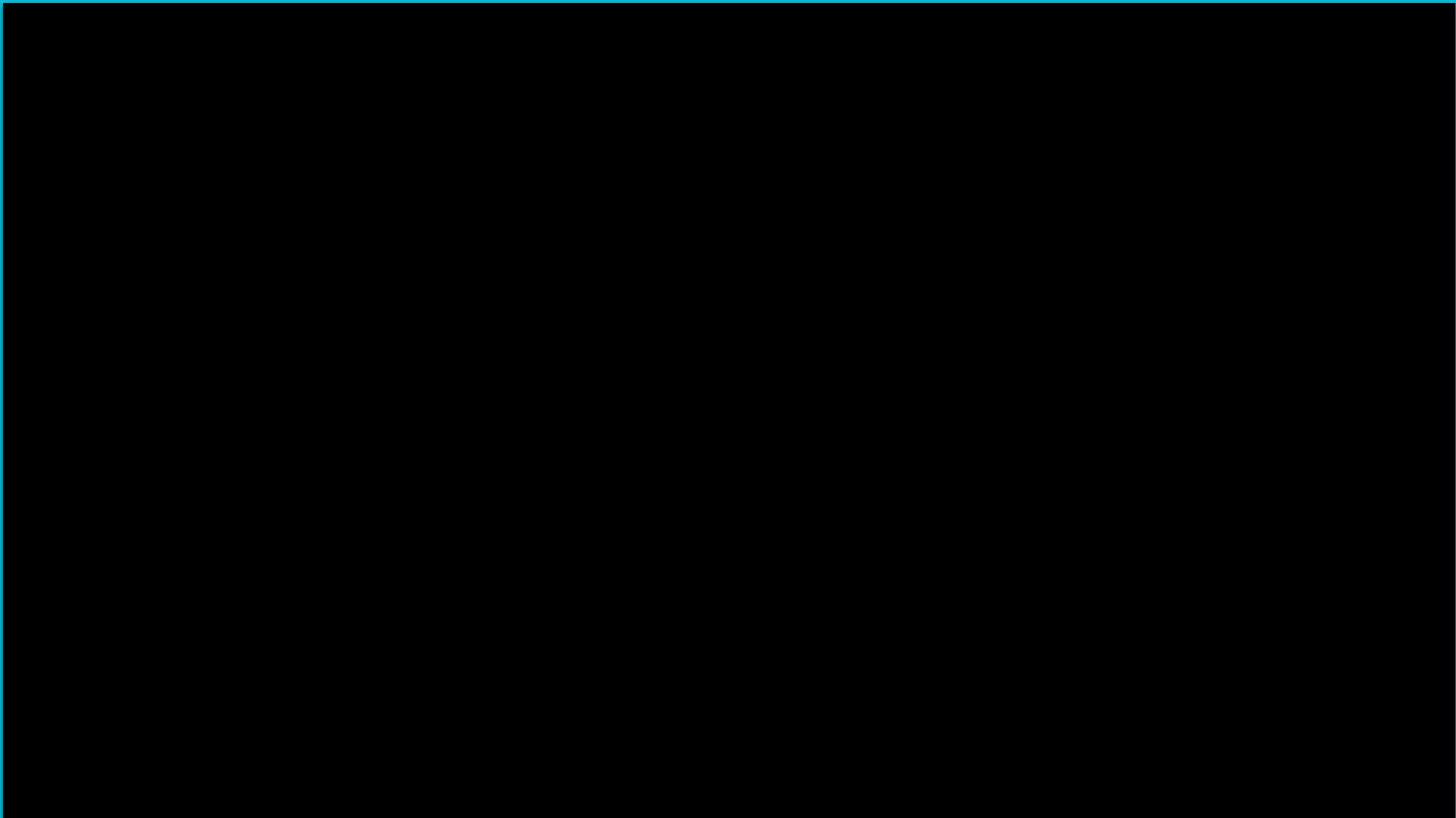
레진엔터테인먼트 / GDG Korea Android

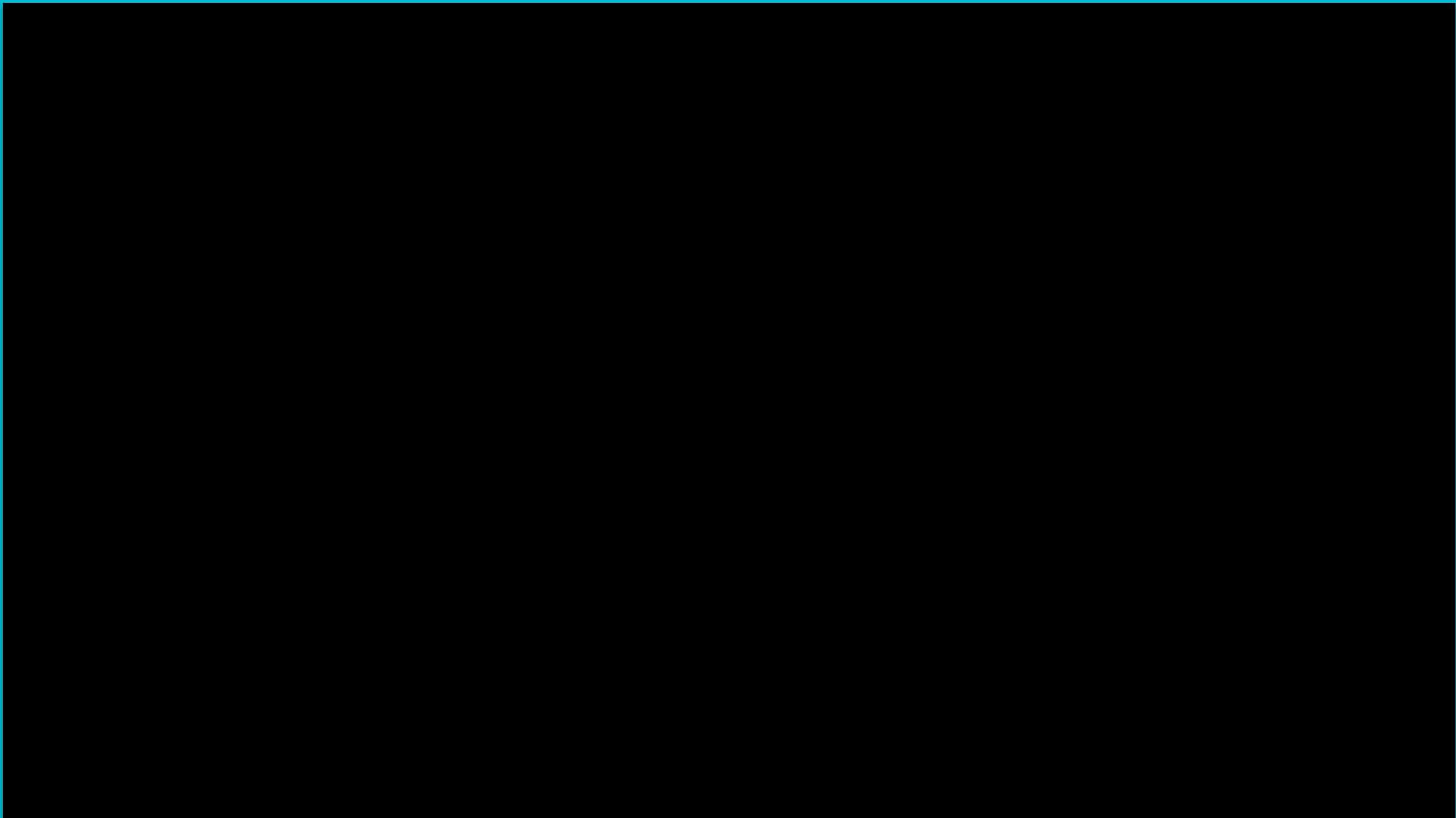


Extended/Seoul

Material Design

- Google I/O 2014에서 최초 공개
- 모바일/데스크탑을 아우르는 디자인 가이드 제시
- 가이드 페이지 (<https://www.google.com/design/>)를 통해 상세 사양 및 적용 가이드 제공





우와, 좋네요! 그럼 어떻게 적용하면 되나요?

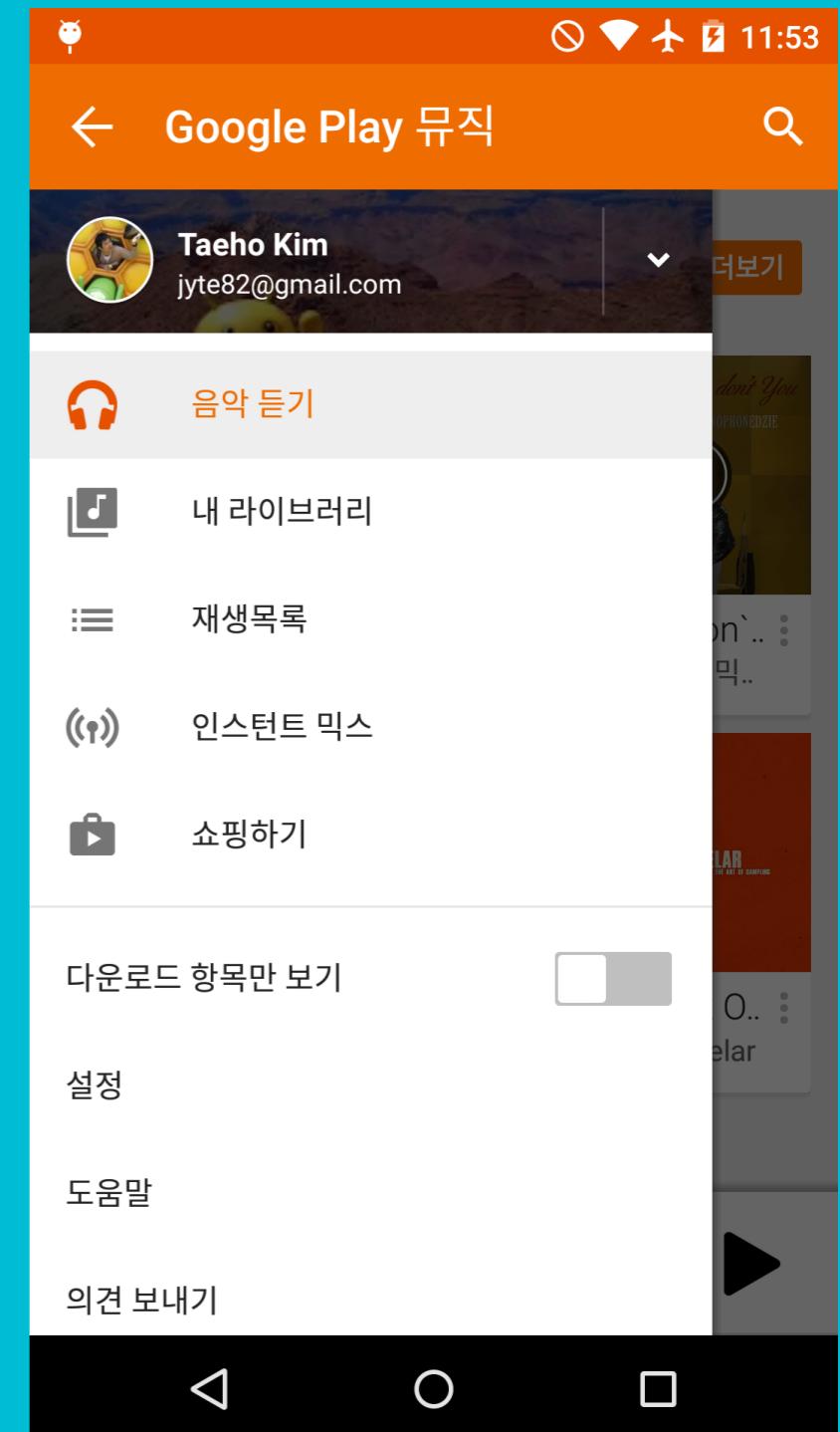
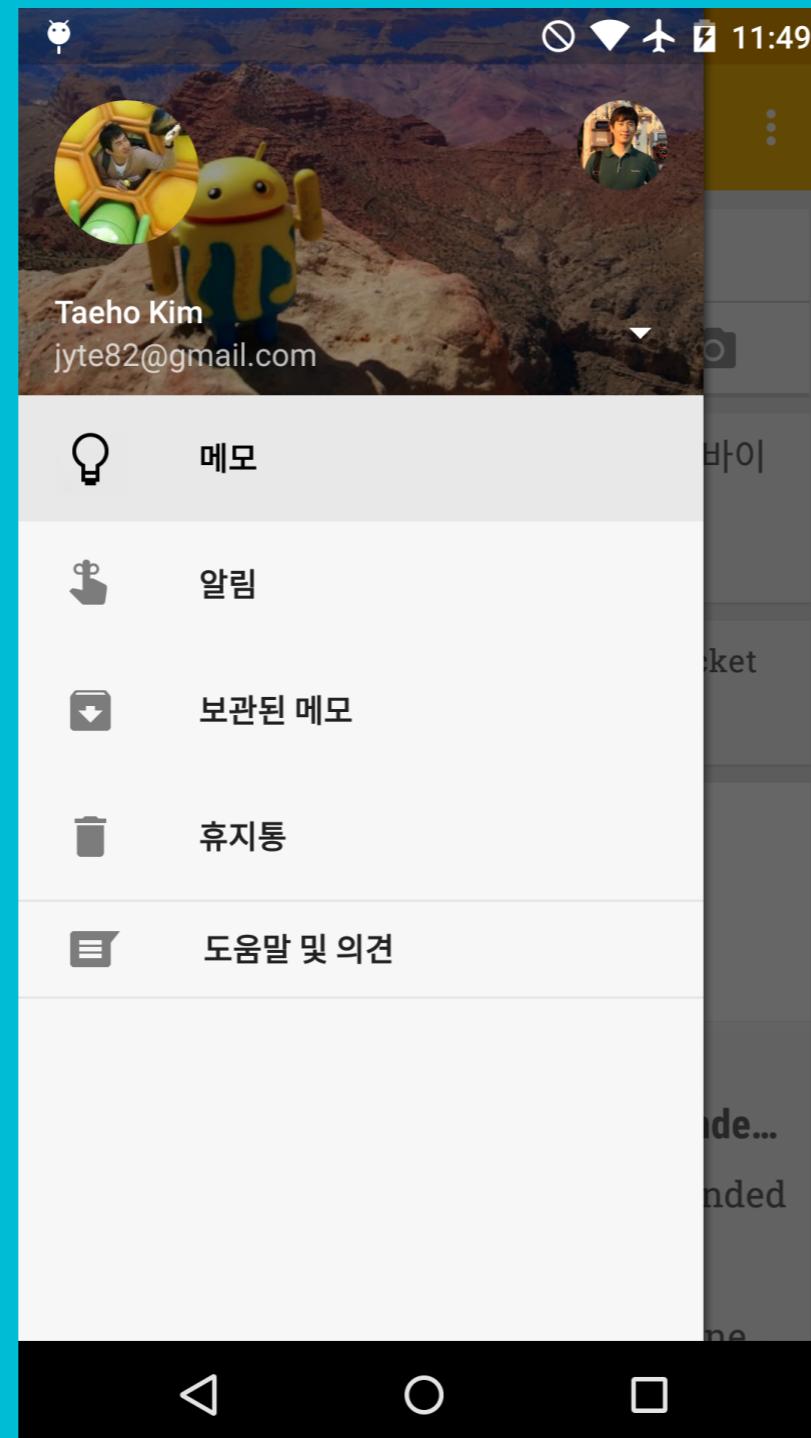
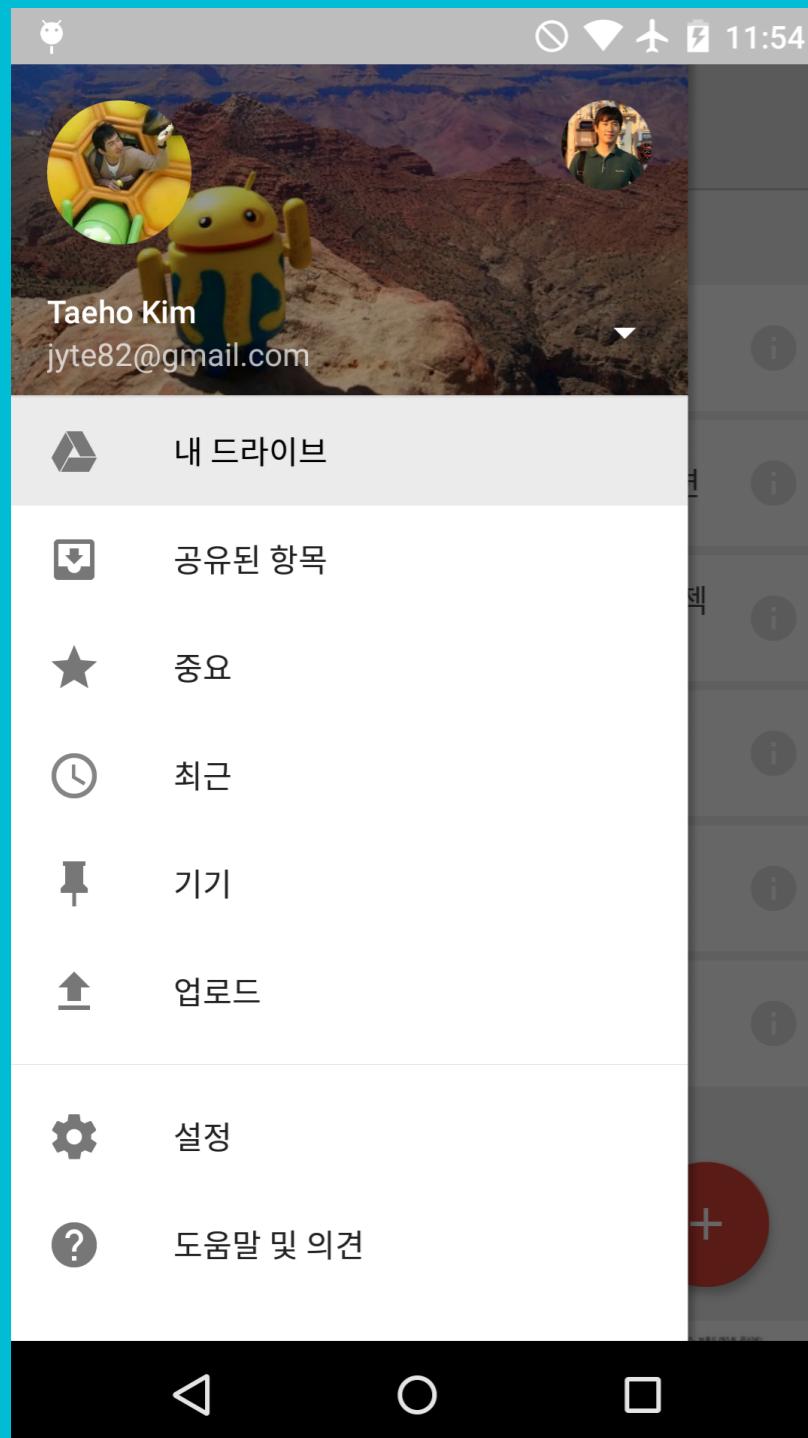
- 머티리얼 디자인을 한 시라도 빨리 적용해보고 싶은 김모 씨 (개발자)

Material Design 페이지 보고 만들면 됩니다.

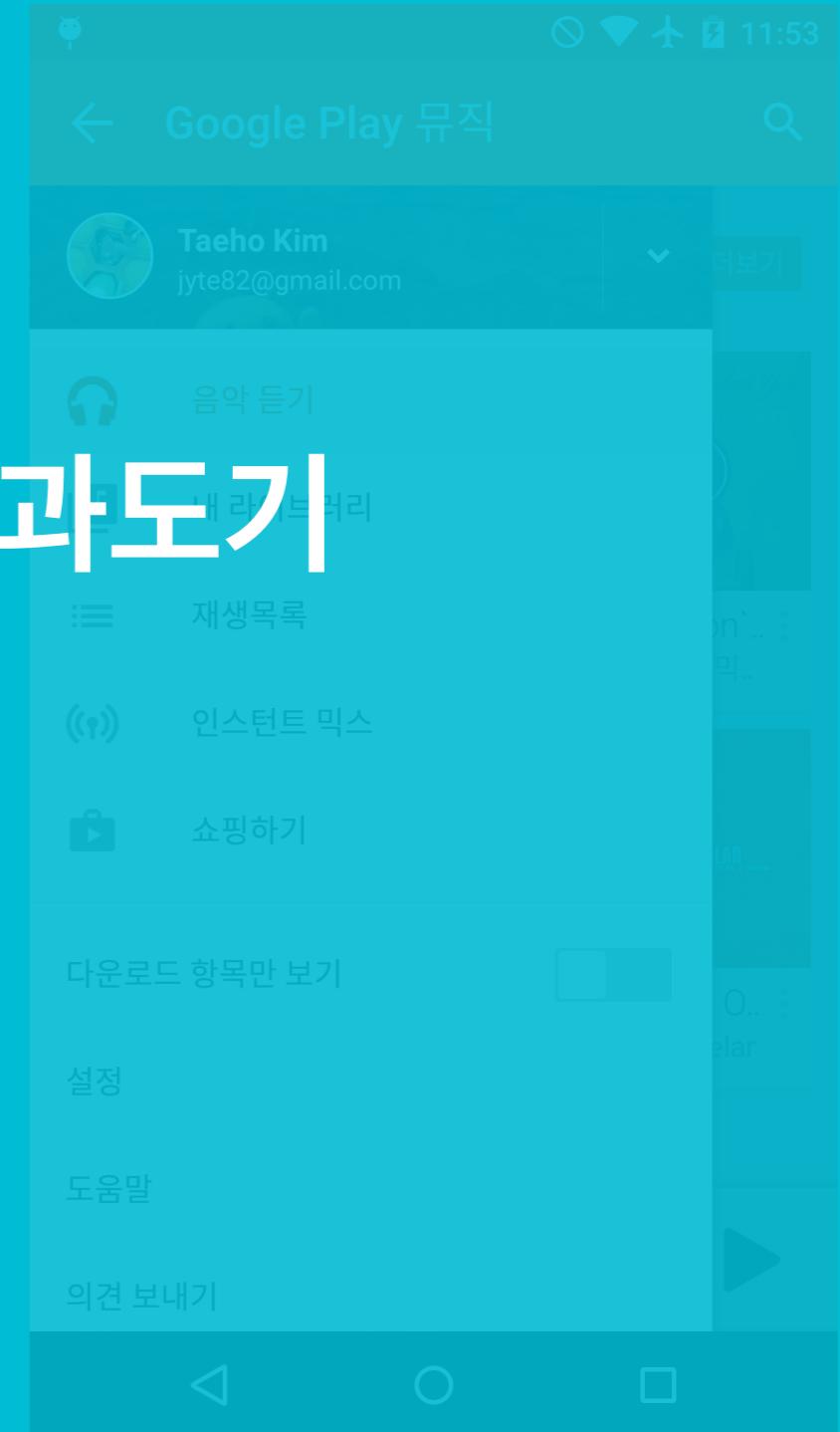
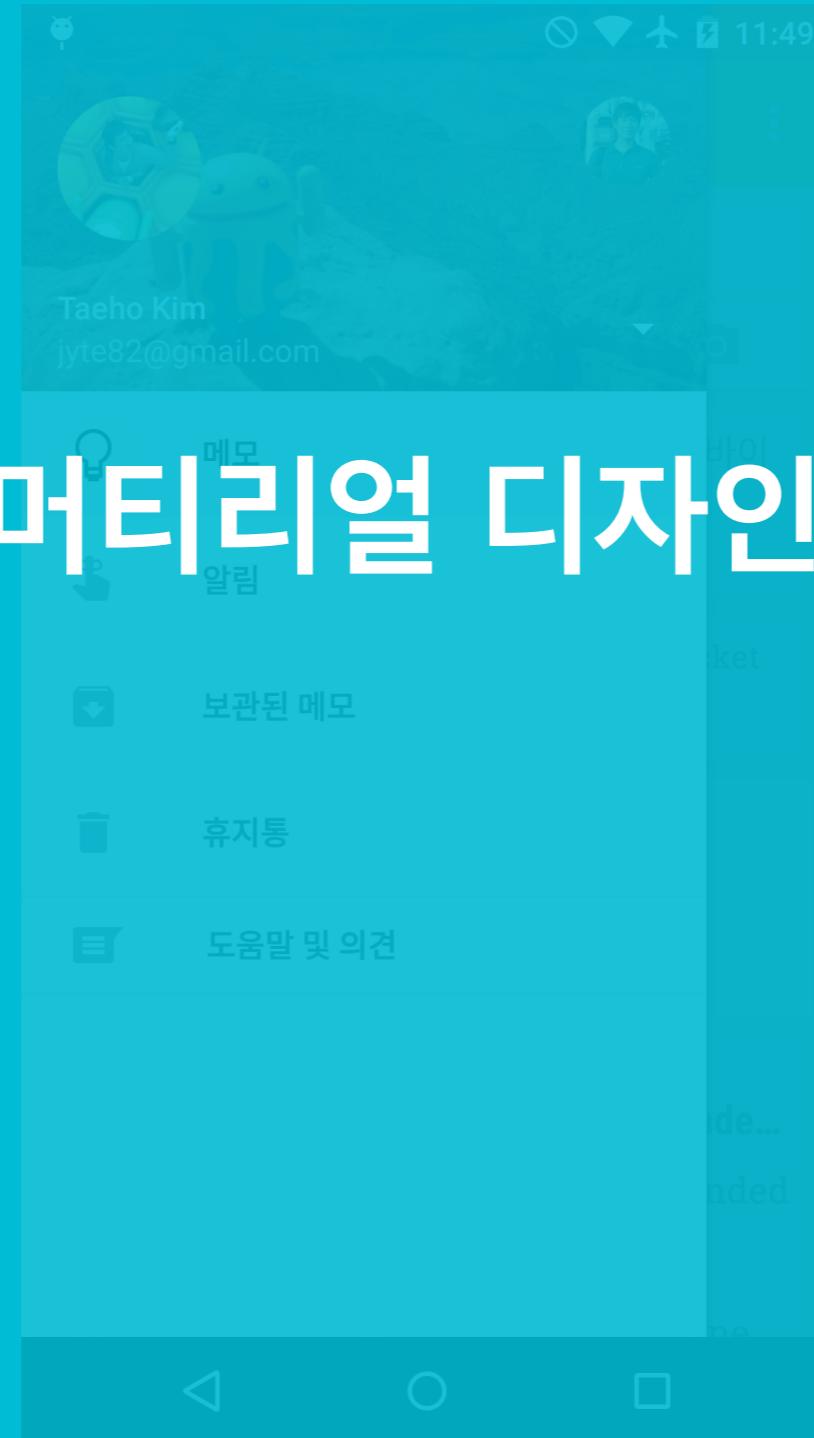
Material Design 페이지 보고 만들면 됩니다.

상세한 디자인 가이드, 하지만 다 알아서 만들어야 한다는거...

구글, 너 마저도...



구글, 너 마저도...



a.k.a 머티리얼 디자인 과도기

Support Design Library



Support Design Library



Support Design Library

(1년을 기다렸다...)

시작해 봅시다.

```
compile 'com.android.support:design:22.2.0'
```

Contents

- CoordinatorLayout
- AppBarLayout
- CollapsingToolbarLayout
- TabLayout
- NavigationMenu
- TextInputLayout
- FloatingActionButton
- Snackbar

CoordinatorLayout

- 다양한 방법으로 자식 뷰들의 위치를 지정할 수 있음
- 자식 뷰에서 각각 자신의 Behavior, Anchor를 지정함
- Behavior
 - 뷰와의 상호작용을 정의함
 - Drag, Click, Fling, etc.
- Anchor
 - 특정 뷰에 붙어 함께 이동하도록 함
 - 붙는 위치 및 정렬 기준 지정 가능

CoordinatorLayout

```
<android.support.design.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true">

    <android.support.design.widget.AppBarLayout
        android:id="@+id/app_bar" .. />

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/ic_check_white_24dp"
        android:layout_margin="16dp"
        android:theme="@style/FabTheme"
        app:layout_anchor="@+id/app_bar"
        app:layout_anchorGravity="bottom|right|end"
        />

</android.support.design.widget.CoordinatorLayout>
```

CoordinatorLayout

```
<android.support.design.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true">

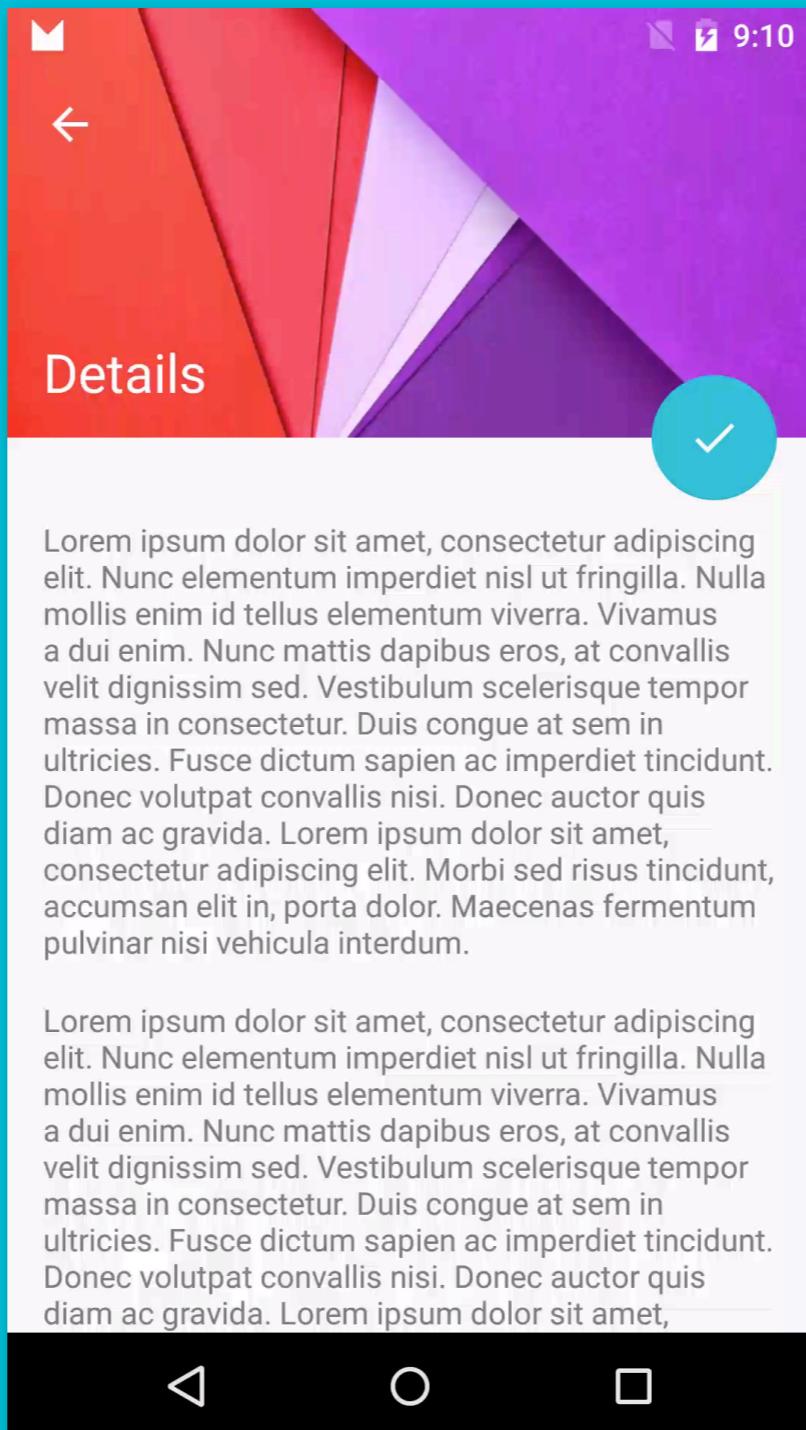
    <android.support.design.widget.AppBarLayout
        android:id="@+id/app_bar" ... />

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:src="@drawable/ic_check_white_24dp"
        android:layout_margin="16dp"
        android:theme="@style/FabTheme"
        app:layout_anchor="@+id/app_bar"
        app:layout_anchorGravity="bottom|right|end"
    />

</android.support.design.widget.CoordinatorLayout>
```

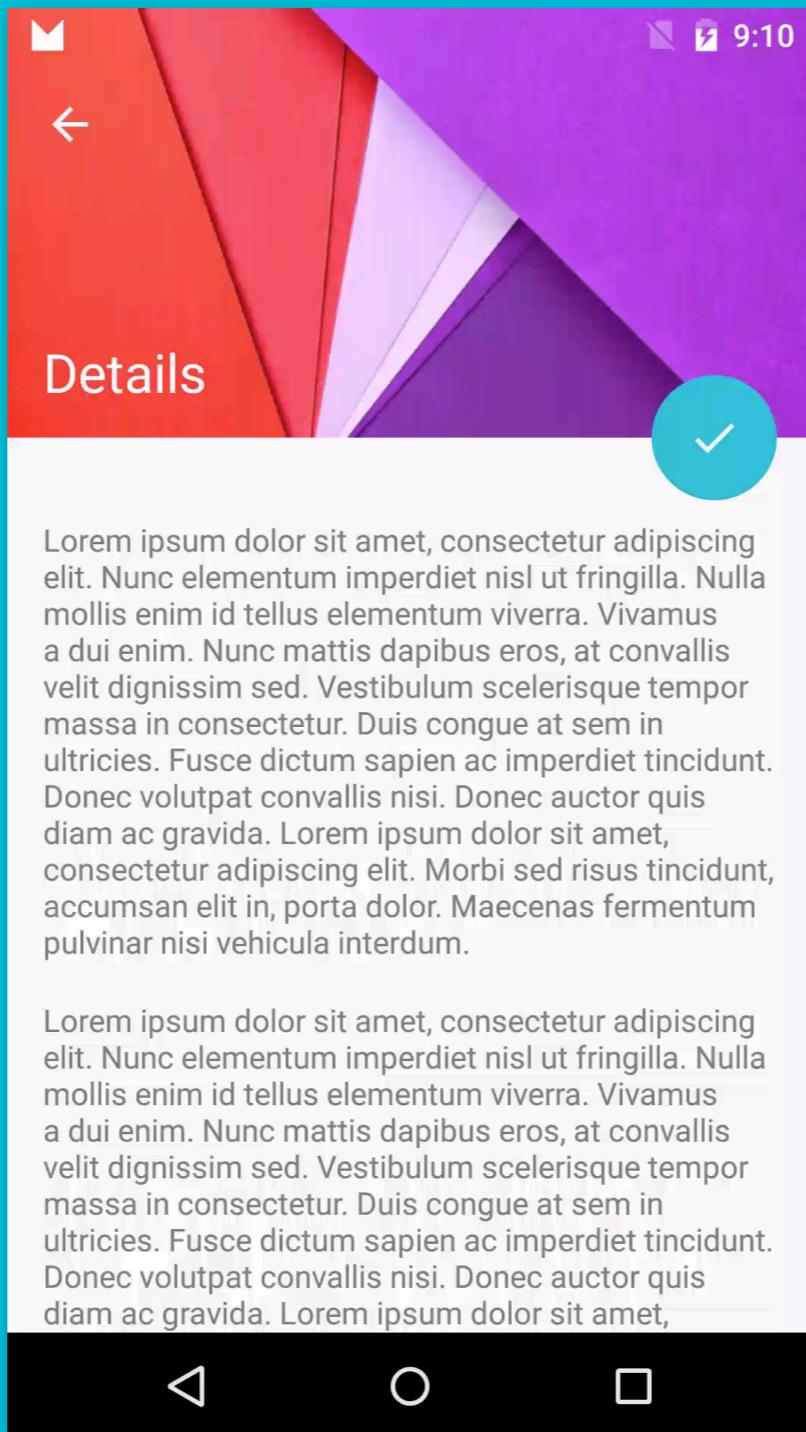
CoordinatorLayout

anchor to AppBar



CoordinatorLayout

anchor to AppBar

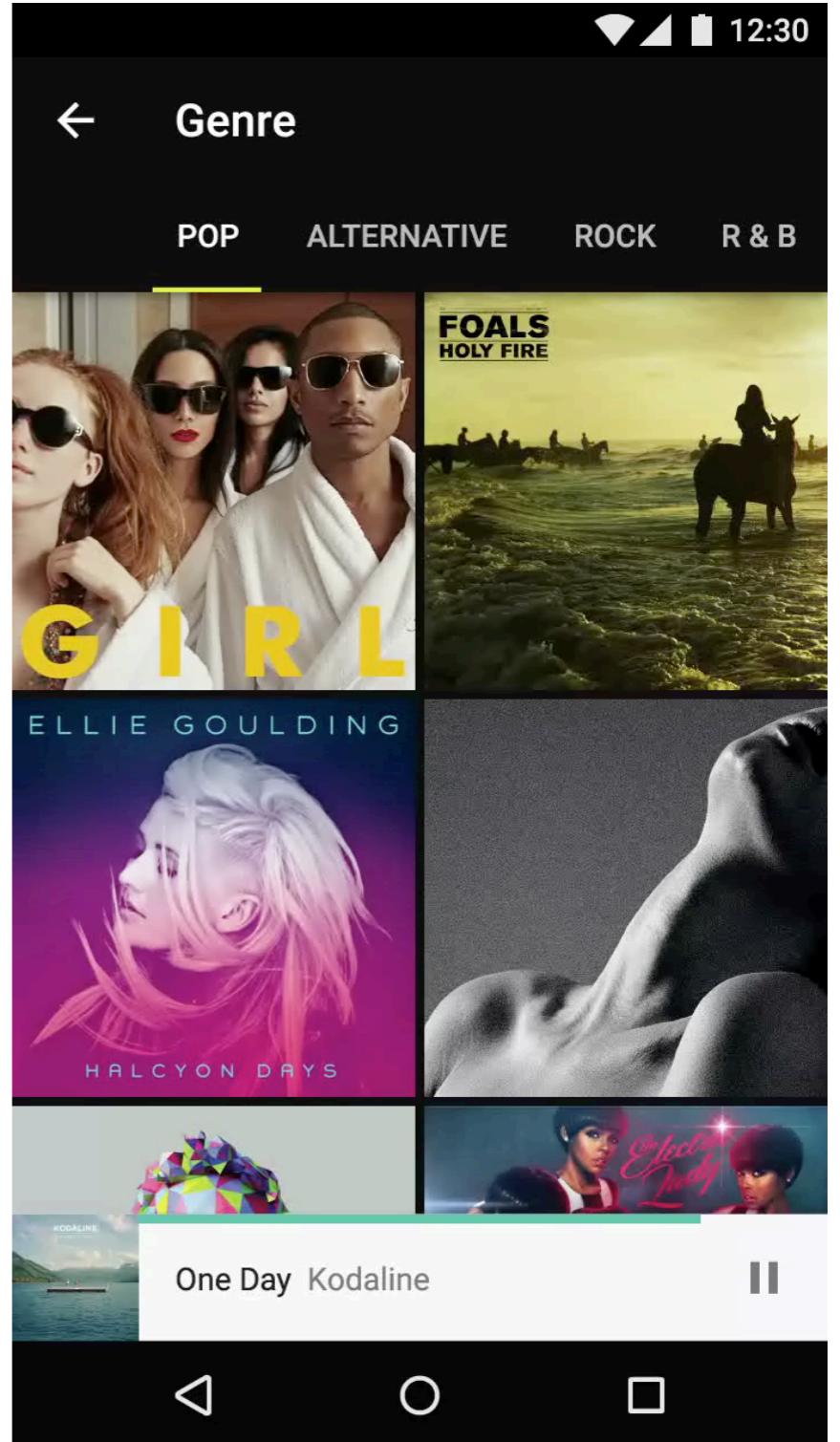


CoordinatorLayout

- 자체 스크롤이 가능한 뷰는 아래의 뷰만 전체 기능 지원
 - android.support.v7.widget.RecyclerView
 - android.support.v4.widget.NestedScrollView
- 위 외에 자체 스크롤이 가능한 뷰를 자식으로 추가하는 것은 가능하나, Nested scroll 지원 불가
- 자체 스크롤이 되지 않는 뷰는 app:layout_behavior로 스크롤 시 동작을 별도로 지정하여 Nested scroll 지원 가능

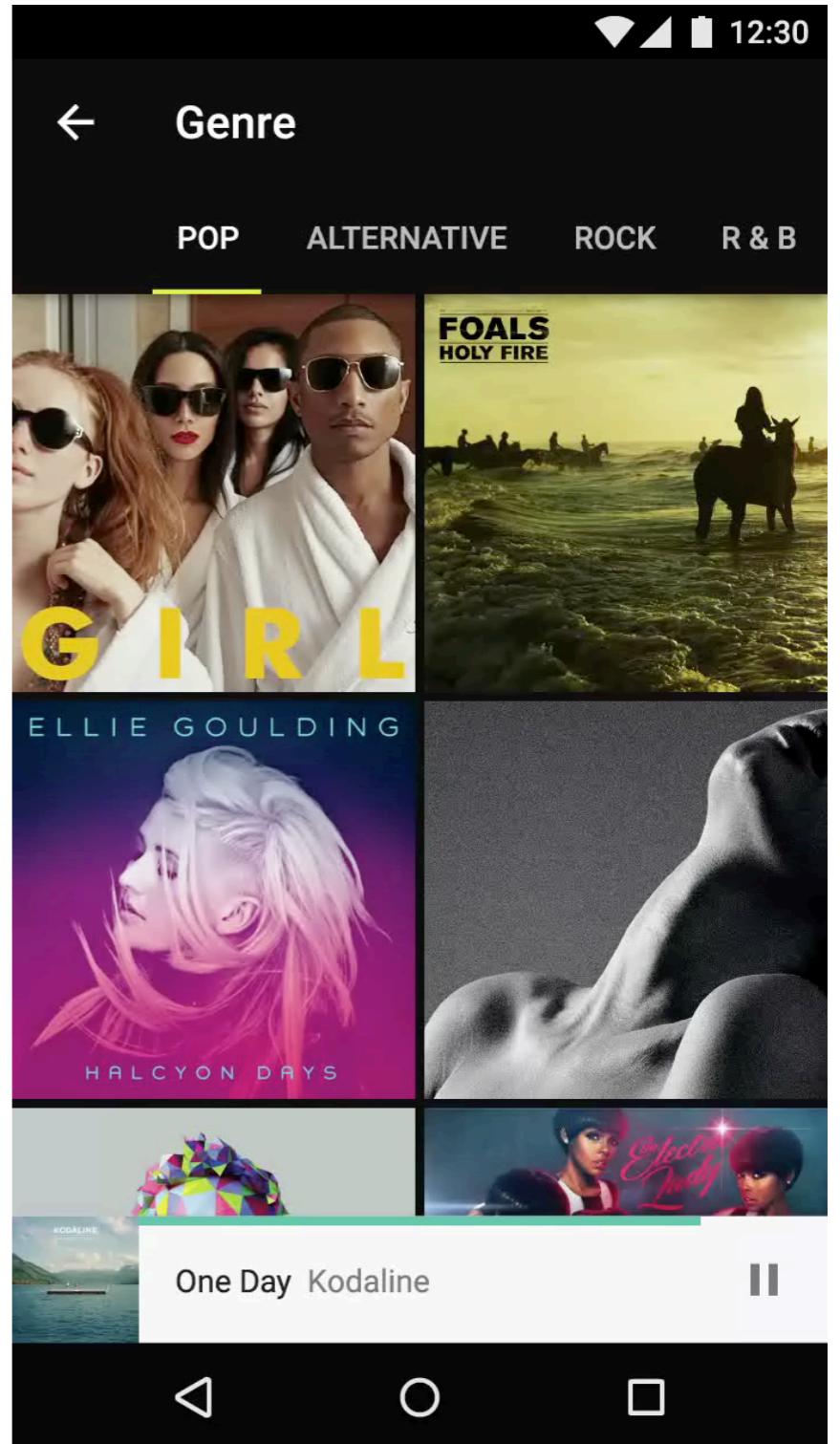
AppBarLayout

- AppBar 영역을 감싸는 레이아웃
- 일반적으로 Toolbar+TabLayout 구성
- 스크롤 가능한 다른 UI 요소와의 상호작용 구현에 최적화
- 형제 뷰에 scrollFlags를 지정
- scrollFlags (app:layout_scrollFlags)
 - SCROLL_FLAG_SCROLL
 - SCROLL_FLAG_ENTER_ALWAYS
 - SCROLL_FLAG_ENTER_ALWAYS_COLLAPSED
 - SCROLL_FLAG_EXIT_UNTIL_COLLAPSED



AppBarLayout

- AppBar 영역을 감싸는 레이아웃
- 일반적으로 Toolbar+TabLayout 구성
- 스크롤 가능한 다른 UI 요소와의 상호작용 구현에 최적화
- 형제 뷰에 scrollFlags를 지정
- scrollFlags (app:layout_scrollFlags)
 - SCROLL_FLAG_SCROLL
 - SCROLL_FLAG_ENTER_ALWAYS
 - SCROLL_FLAG_ENTER_ALWAYS_COLLAPSED
 - SCROLL_FLAG_EXIT_UNTIL_COLLAPSED



AppBarLayout

```
<android.support.design.widget.CoordinatorLayout>

    <android.support.design.widget.AppBarLayout>

        <android.support.v7.widget.Toolbar/>

        <android.support.design.widget.TabLayout/>

    </android.support.design.widget.AppBarLayout>

    <android.support.v4.view.ViewPager
        android:id="@+id/viewpager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>

</android.support.design.widget.CoordinatorLayout>
```

AppBarLayout

```
<android.support.design.widget.CoordinatorLayout>

    <android.support.design.widget.AppBarLayout>

        <android.support.v7.widget.Toolbar/>

        <android.support.design.widget.TabLayout/>

    </android.support.design.widget.AppBarLayout>

    <android.support.v4.view.ViewPager
        android:id="@+id/viewpager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>

</android.support.design.widget.CoordinatorLayout>
```

AppBarLayout

```
<android.support.design.widget.CoordinatorLayout>

    <android.support.design.widget.AppBarLayout>

        <android.support.v7.widget.Toolbar/>

        <android.support.design.widget.TabLayout/>

    </android.support.design.widget.AppBarLayout>

    <android.support.v4.view.ViewPager>
        android:id="@+id/pager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>

</android.support.design.widget.CoordinatorLayout>
```

AppBarLayout.ScrollingViewBehavior

AppBarLayout

```
<android.support.design.widget.AppBarLayout
    android:id="@+id/appbar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
    >

    <android.support.v7.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:minHeight="?attr/actionBarSize"
        app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
        app:layout_scrollFlags="scroll|enterAlways"/>

    <android.support.design.widget.TabLayout
        android:id="@+id/tabs"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

</android.support.design.widget.AppBarLayout>
```

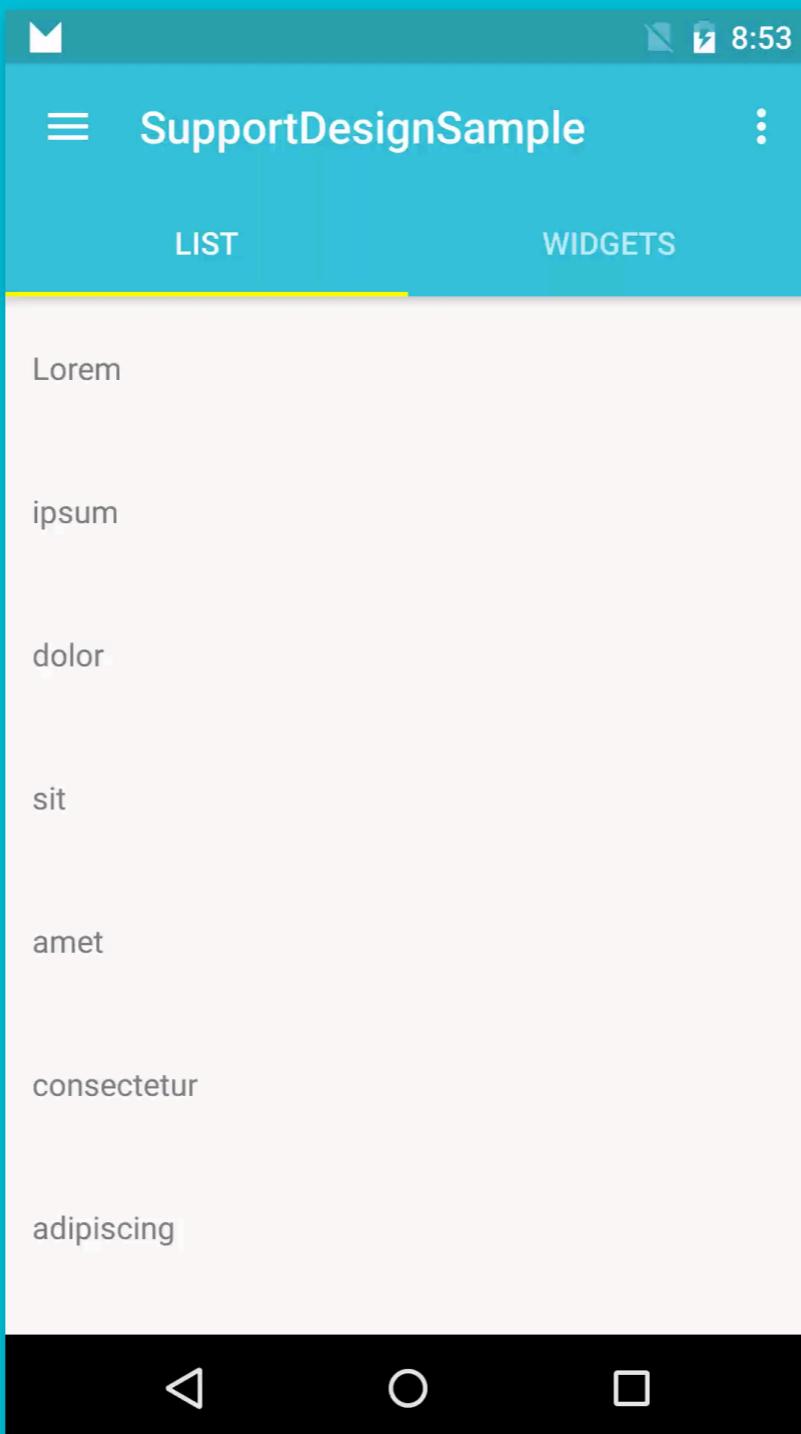
AppBarLayout

```
<android.support.design.widget.AppBarLayout
    android:id="@+id/appbar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
    >

    <android.support.v7.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:minHeight="?attr/actionBarSize"
        app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
        app:layout_scrollFlags="scroll|enterAlways"/>
```

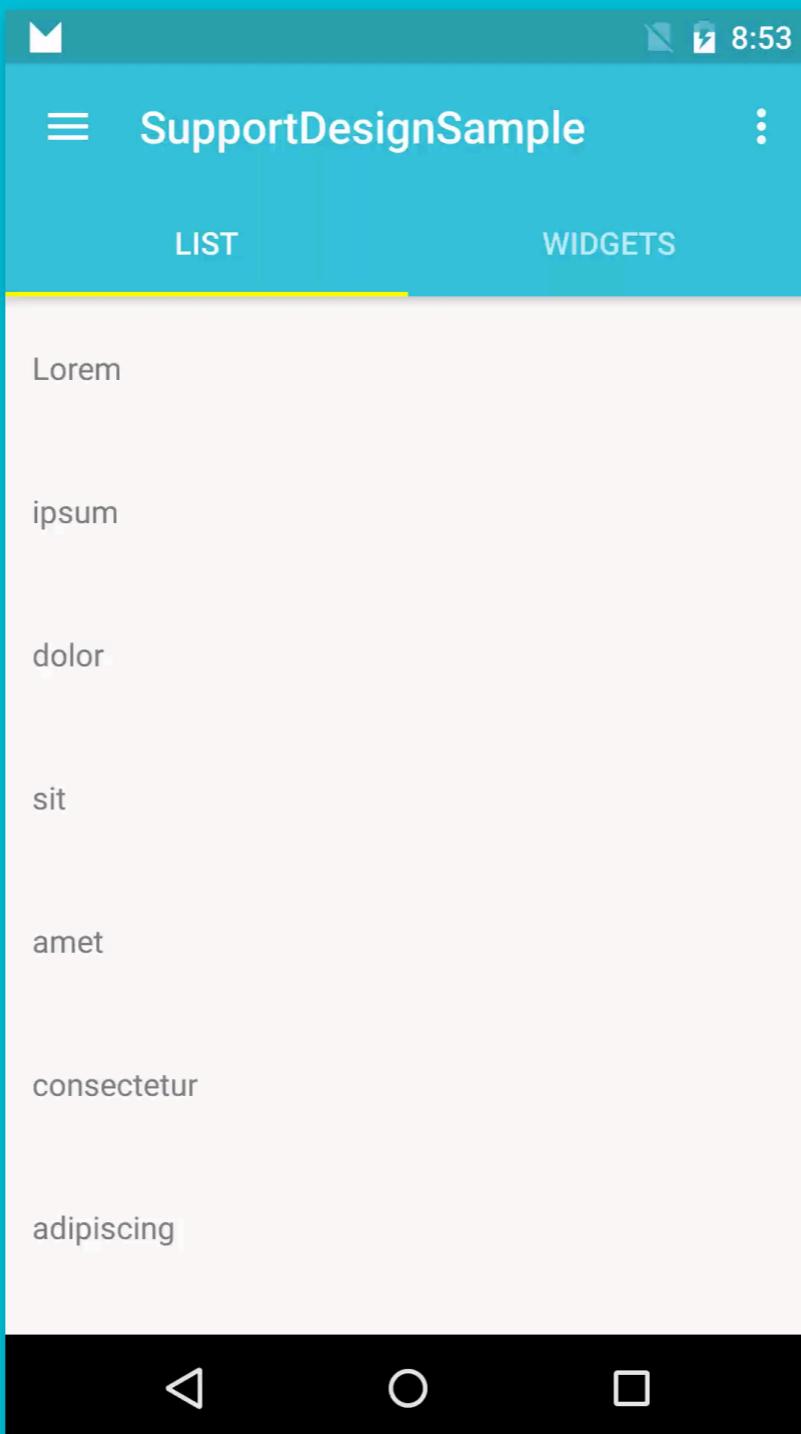
AppBarLayout

`layout_scrollFlags="scroll|enterAlways"`



AppBarLayout

`layout_scrollFlags="scroll|enterAlways"`



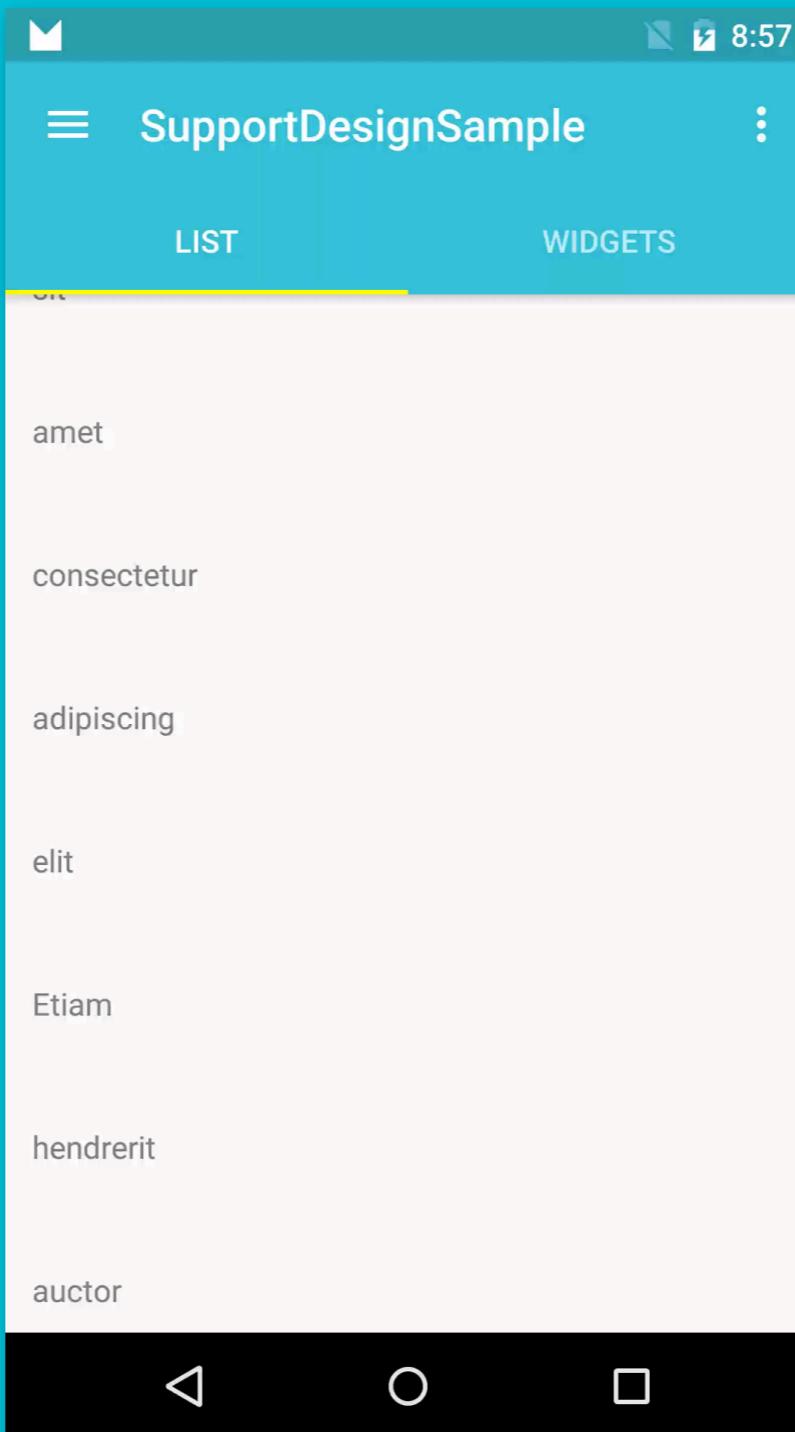
AppBarLayout

```
<android.support.design.widget.AppBarLayout
    android:id="@+id/appbar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar"
    >

    <android.support.v7.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:minHeight="?attr/actionBarSize"
        app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
        app:layout_scrollFlags="scroll|enterAlways"/>
```

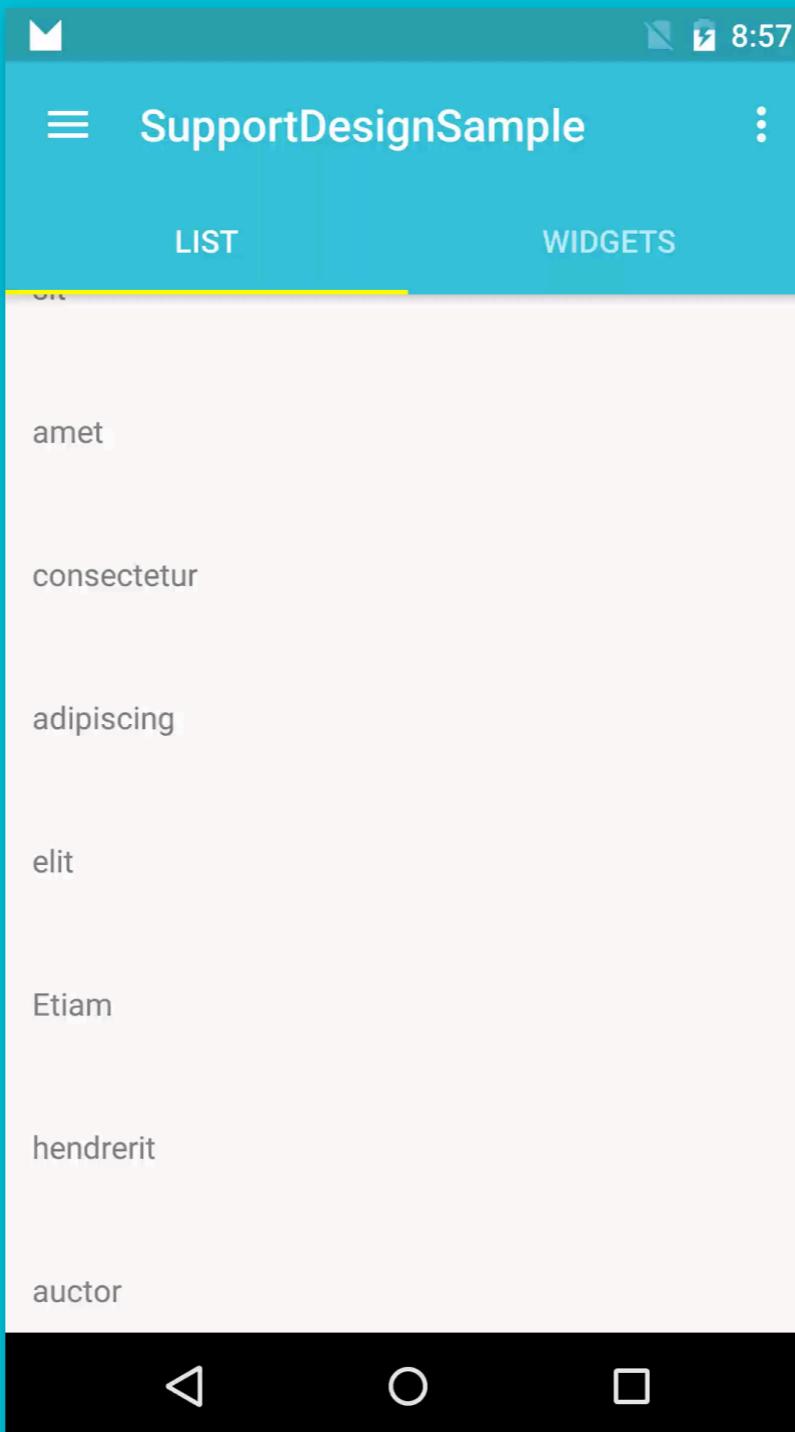
AppBarLayout

no `layout_scrollFlags`



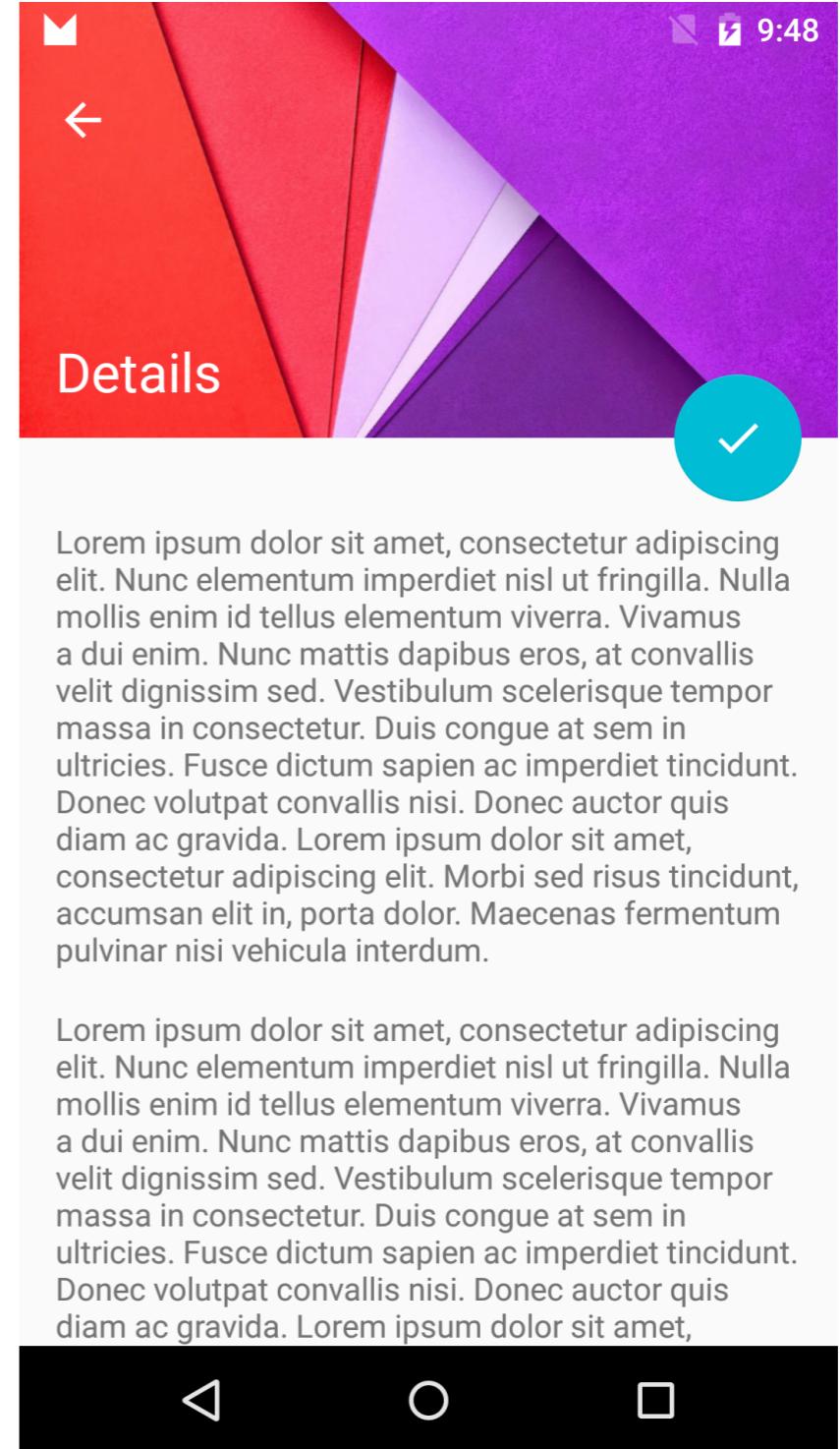
AppBarLayout

no `layout_scrollFlags`



CollapsingToolbarLayout

- 일정 높이까지 늘어날 수 있는 Toolbar를 만들 때 사용
- 항상 AppBarLayout의 자식 뷰로만 사용한다.
- AppBar 영역에 Hero 이미지를 넣을 때 주로 사용
- 크기 변화에 따라 UI 요소 이동



CollapsingToolbarLayout

- Collapsing title
 - 제목 텍스트 이동
- Content/Status bar scrim
 - 스크롤 상태에 따라 표시할 색상(혹은 그림) 지원
- Pinned position/Parallax scrolling children

CollapsingToolbarLayout

```
<android.support.design.widget.CoordinatorLayout>

    <android.support.design.widget.AppBarLayout>

        <android.support.design.widget.CollapsingToolbarLayout
            android:id="@+id/collapsing_toolbar"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:fitsSystemWindows="true"
            app:layout_scrollFlags="scroll|exitUntilCollapsed"
            app:contentScrim="?attr/colorPrimary">

            <ImageView android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:src="@drawable/bg_material"
                android:scaleType="centerCrop"
                android:fitsSystemWindows="true"
                app:layout_collapseMode="parallax"/>

            <android.support.v7.widget.Toolbar
                android:id="@+id/toolbar"
                android:layout_width="match_parent"
                android:layout_height="?attr/actionBarSize"
                app:layout_collapseMode="pin" />

        </android.support.design.widget.CollapsingToolbarLayout>

    </android.support.design.widget.AppBarLayout>

    <android.support.v4.widget.NestedScrollView>

        <android.support.design.widget.FloatingActionButton/>

    </android.support.design.widget.CoordinatorLayout>
```

CollapsingToolbarLayout

```
<android.support.design.widget.CoordinatorLayout>

    <android.support.design.widget.AppBarLayout>

        <android.support.design.widget.CollapsingToolbarLayout
            android:id="@+id/collapsing_toolbar"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:fitsSystemWindows="true"
            app:layout_scrollFlags="scroll|exitUntilCollapsed"
            app:contentScrim="?attr/colorPrimary">

            <ImageView android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:src="@drawable/bg_material"
                android:scaleType="centerCrop"
                android:fitsSystemWindows="true"
                app:layout_collapseMode="parallax"/>

            <android.support.v7.widget.Toolbar
                android:id="@+id/toolbar"
                android:layout_width="match_parent"
                android:layout_height="?attr/actionBarSize"
                app:layout_collapseMode="pin" />

        </android.support.design.widget.CollapsingToolbarLayout>

    </android.support.design.widget.AppBarLayout>

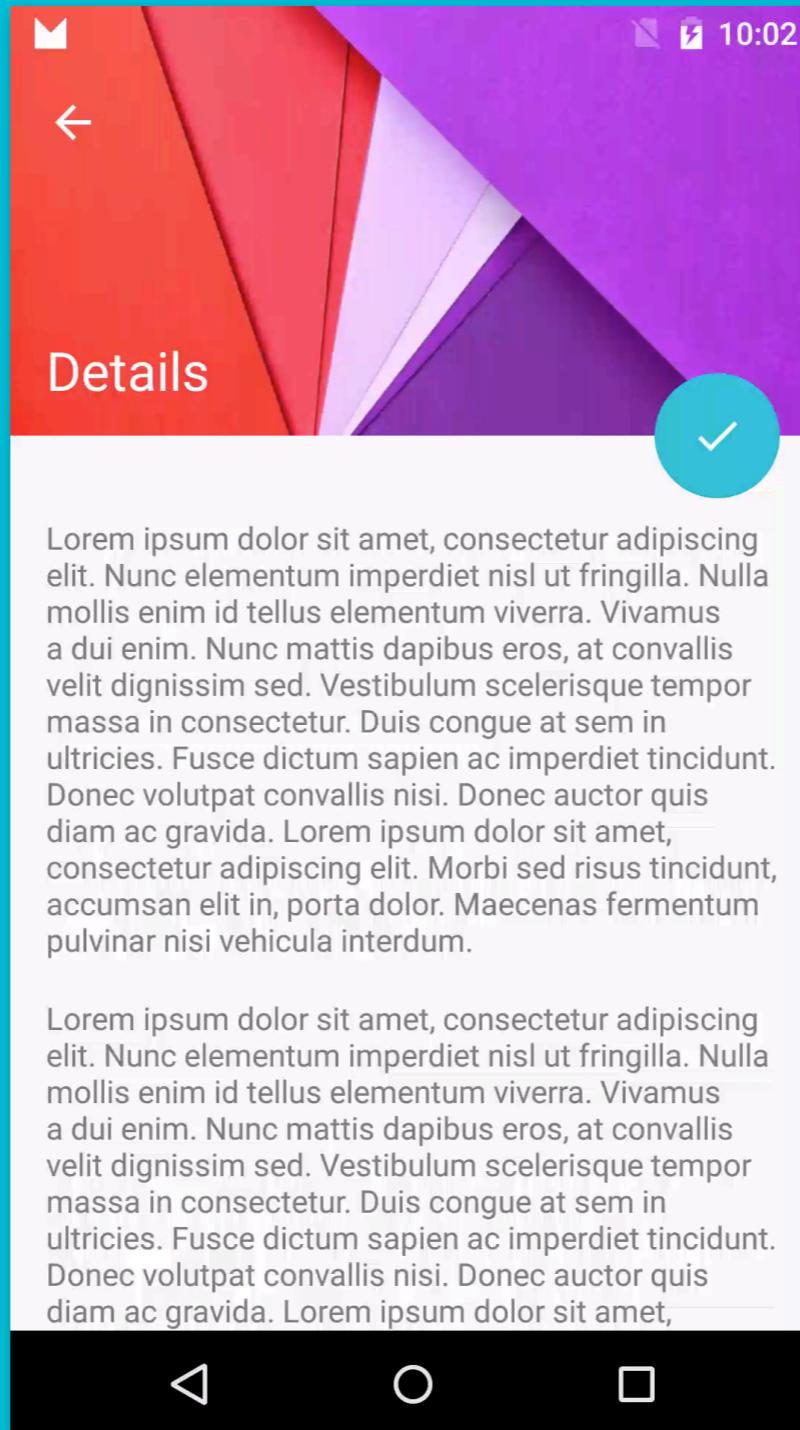
    <android.support.v4.widget.NestedScrollView/>

    <android.support.design.widget.FloatingActionButton/>

</android.support.design.widget.CoordinatorLayout>
```

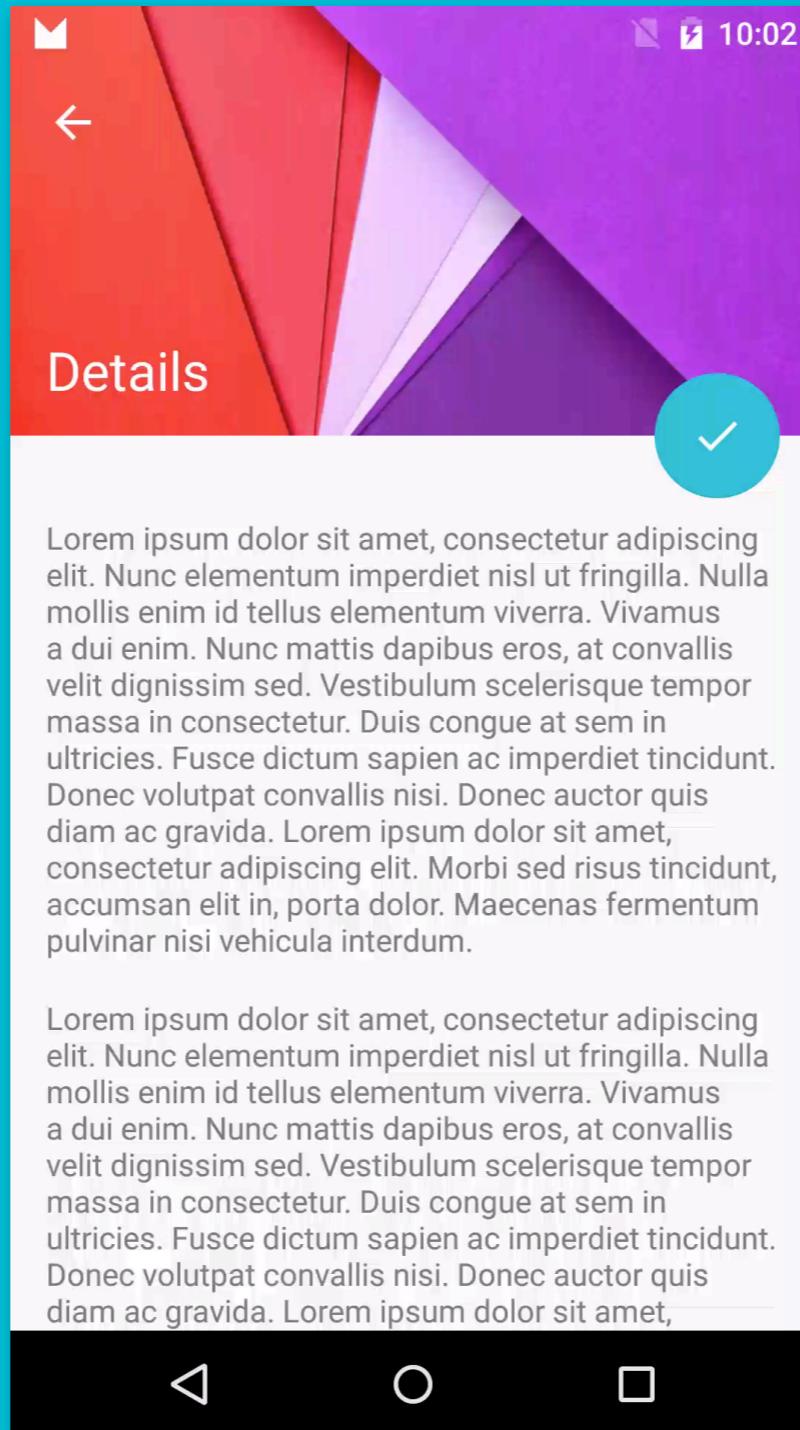
CollapsingToolbarLayout

Pinned Toolbar, Parallax scrolling ImageView



CollapsingToolbarLayout

Pinned Toolbar, Parallax scrolling ImageView



TabLayout

- ViewPager indicator
- 액션바에서 제공하던 탭 기능을 분리한 레이아웃
- ViewPager에 매우 쉽게 적용 가능
- 2개의 모드 및 2개의 정렬(Gravity) 옵션 제공
 - Mode: FIXED, SCROLLABLE
 - Gravity: CENTER, FILL

TabLayout

```
ViewPager vpPager = (ViewPager) findViewById(R.id.viewpager);  
vpPager.setAdapter(  
    new ViewPagerAdapter(getSupportFragmentManager()));
```

```
TabLayout tab = (TabLayout) findViewById(R.id.tabs);  
tab.setupWithViewPager(vpPager);
```

TabLayout

```
ViewPager vpPager = (ViewPager) findViewById(R.id.viewpager);
vpPager.setAdapter(
    new ViewPagerAdapter(getSupportFragmentManager()));

TabLayout tab = (TabLayout) findViewById(R.id.tabs);
tab.setupWithViewPager(vpPager);
```

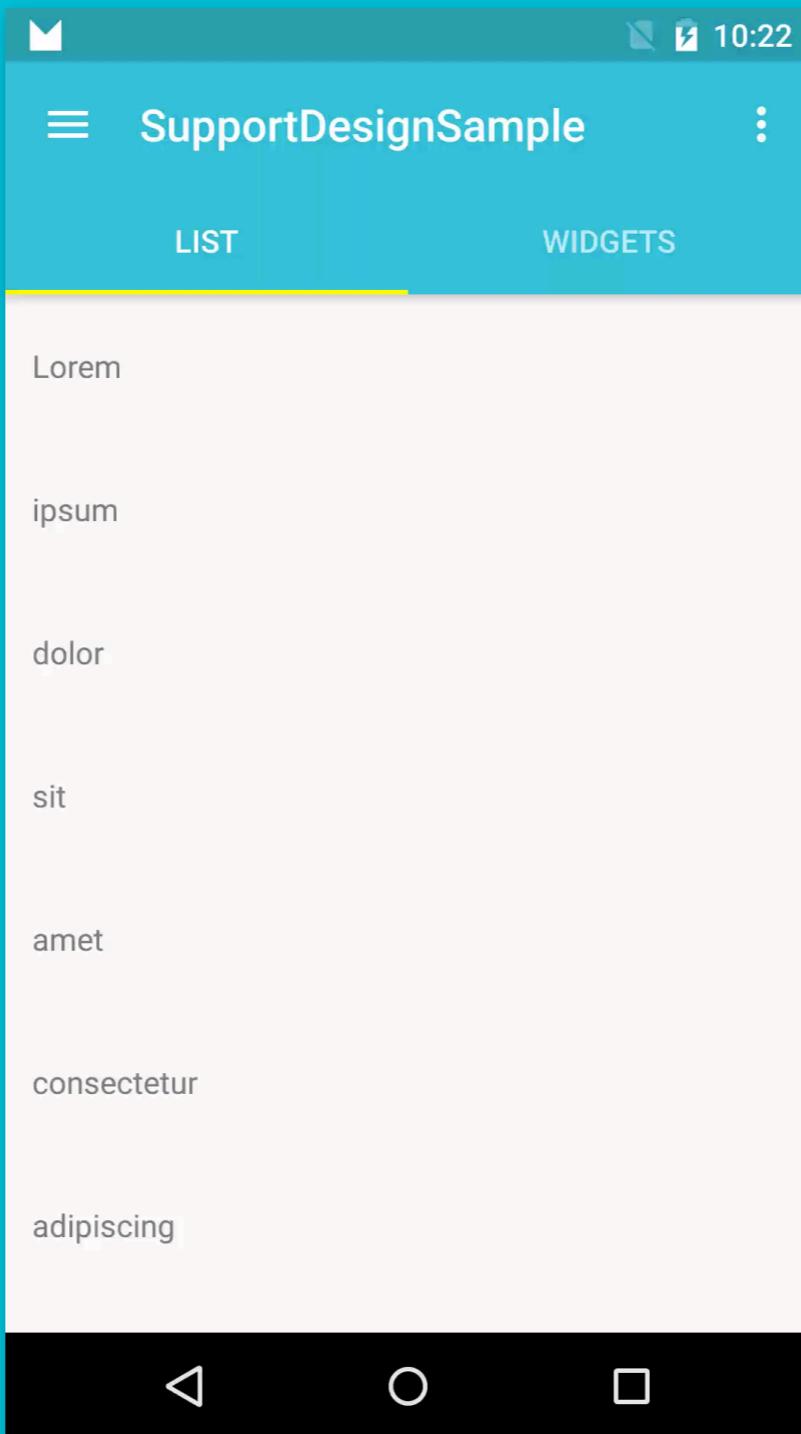
TabLayout

```
@Override  
public boolean onOptionsItemSelected(MenuItem item) {  
  
    int id = item.getItemId();  
  
    switch (id) {  
        case android.R.id.home:  
            drawer.openDrawer(GravityCompat.START);  
            return true;  
        case R.id.action_tab_fixed_fill:  
            tab.setTabMode(TabLayout.MODE_FIXED);  
            tab.setTabGravity(TabLayout.GRAVITY_FILL);  
            return true;  
        case R.id.action_tab_fixed_center:  
            tab.setTabMode(TabLayout.MODE_FIXED);  
            tab.setTabGravity(TabLayout.GRAVITY_CENTER);  
            return true;  
        case R.id.action_tab_scrollable:  
            tab.setTabMode(TabLayout.MODE_SCROLLABLE);  
            return true;  
    }  
  
    return super.onOptionsItemSelected(item);  
}
```

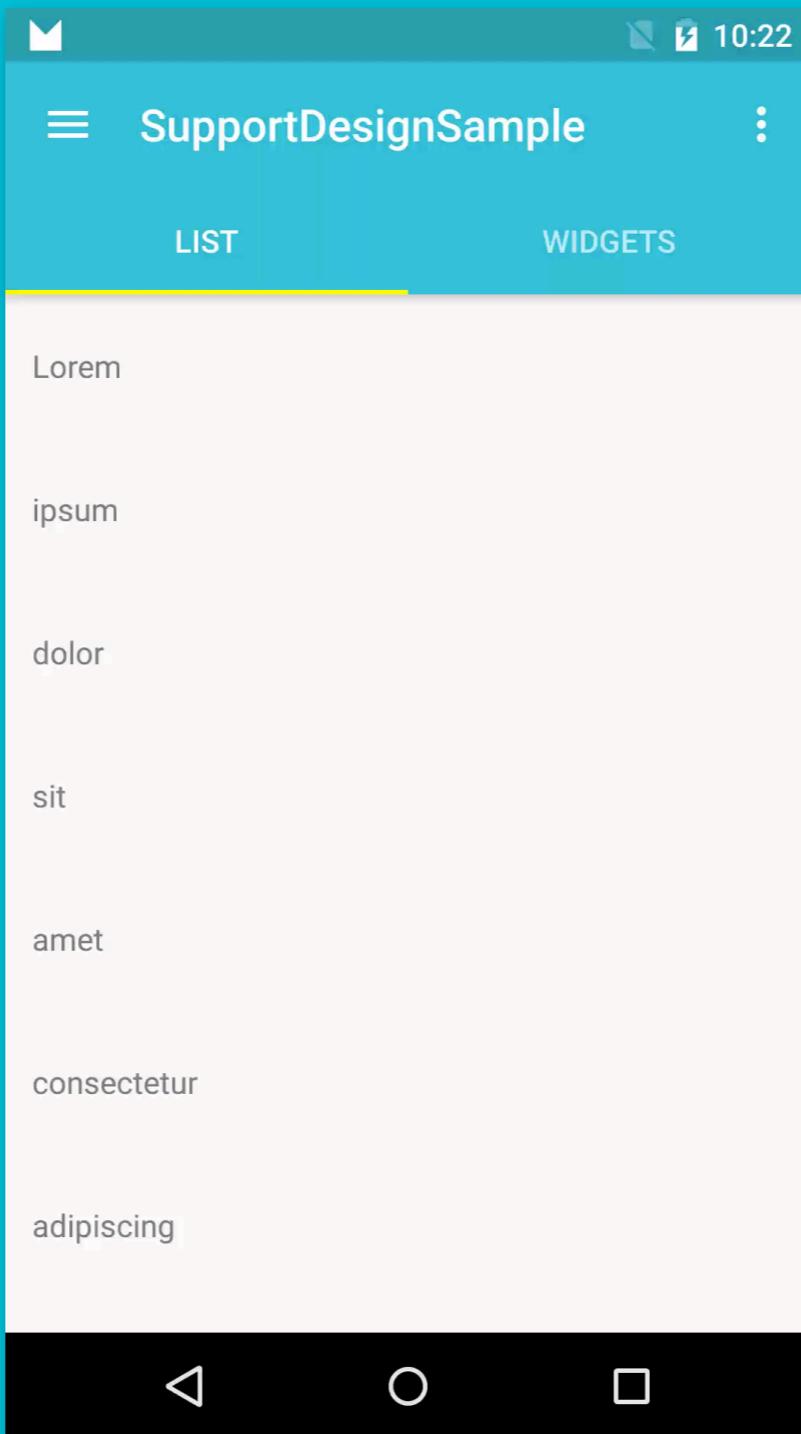
TabLayout

```
@Override  
public boolean onOptionsItemSelected(MenuItem item) {  
  
    int id = item.getItemId();  
  
    switch (id) {  
        case android.R.id.home:  
            drawer.openDrawer(GravityCompat.START);  
            return true;  
        case R.id.action_tab_fixed_fill:  
            tab.setTabMode(TabLayout.MODE_FIXED);  
            tab.setTabGravity(TabLayout.GRAVITY_FILL);  
            return true;  
        case R.id.action_tab_fixed_center:  
            tab.setTabMode(TabLayout.MODE_FIXED);  
            tab.setTabGravity(TabLayout.GRAVITY_CENTER);  
            return true;  
        case R.id.action_tab_scrollable:  
            tab.setTabMode(TabLayout.MODE_SCROLLABLE);  
            return true;  
    }  
  
    return super.onOptionsItemSelected(item);  
}
```

TabLayout

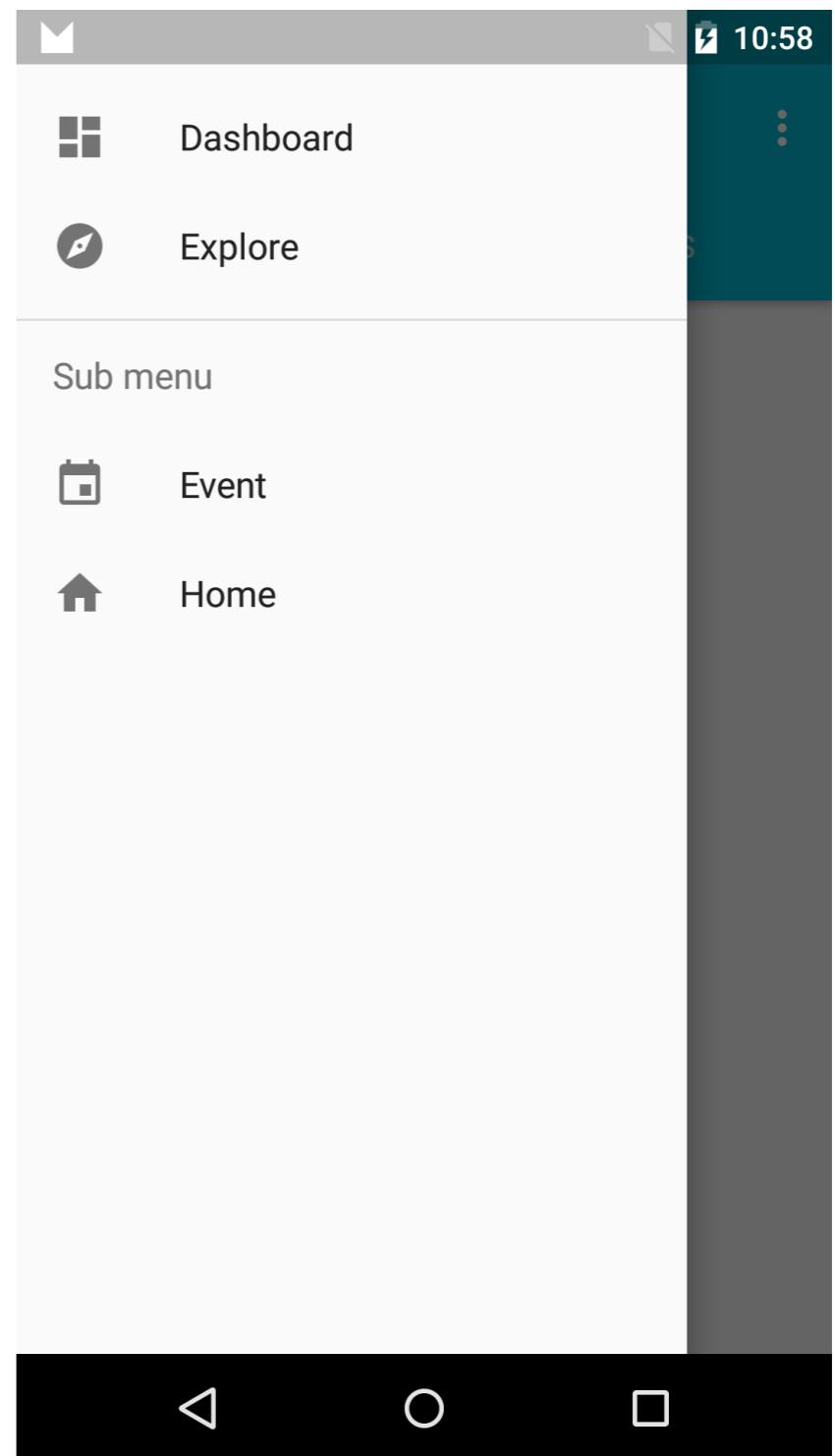


TabLayout



NavigationMenu

- App Drawer를 편리하게 구현
- 메뉴 XML로 구성 가능
- 메뉴 상단에 커스텀 뷰 구성 지원
 - 계정 정보 화면 등으로 구성 가능



NavigationMenu

```
<android.support.v4.widget.DrawerLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/drawer"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:context=".MainActivity">

    <android.support.design.widget.CoordinatorLayout/>

    <android.support.design.widget.NavigationView
        android:id="@+id/navigation_view"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_gravity="start"
        android:fitsSystemWindows="true"
        app:menu="@menu/drawer"/>

</android.support.v4.widget.DrawerLayout>
```

NavigationMenu

```
<android.support.v4.widget.DrawerLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/drawer"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:context=".MainActivity">

    <android.support.design.widget.CoordinatorLayout/>

    <android.support.design.widget.NavigationView
        android:id="@+id/navigation_view"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:layout_gravity="start"
        android:fitsSystemWindows="true"
        app:menu="@menu/drawer"/>

</android.support.v4.widget.DrawerLayout>
```

NavigationMenu

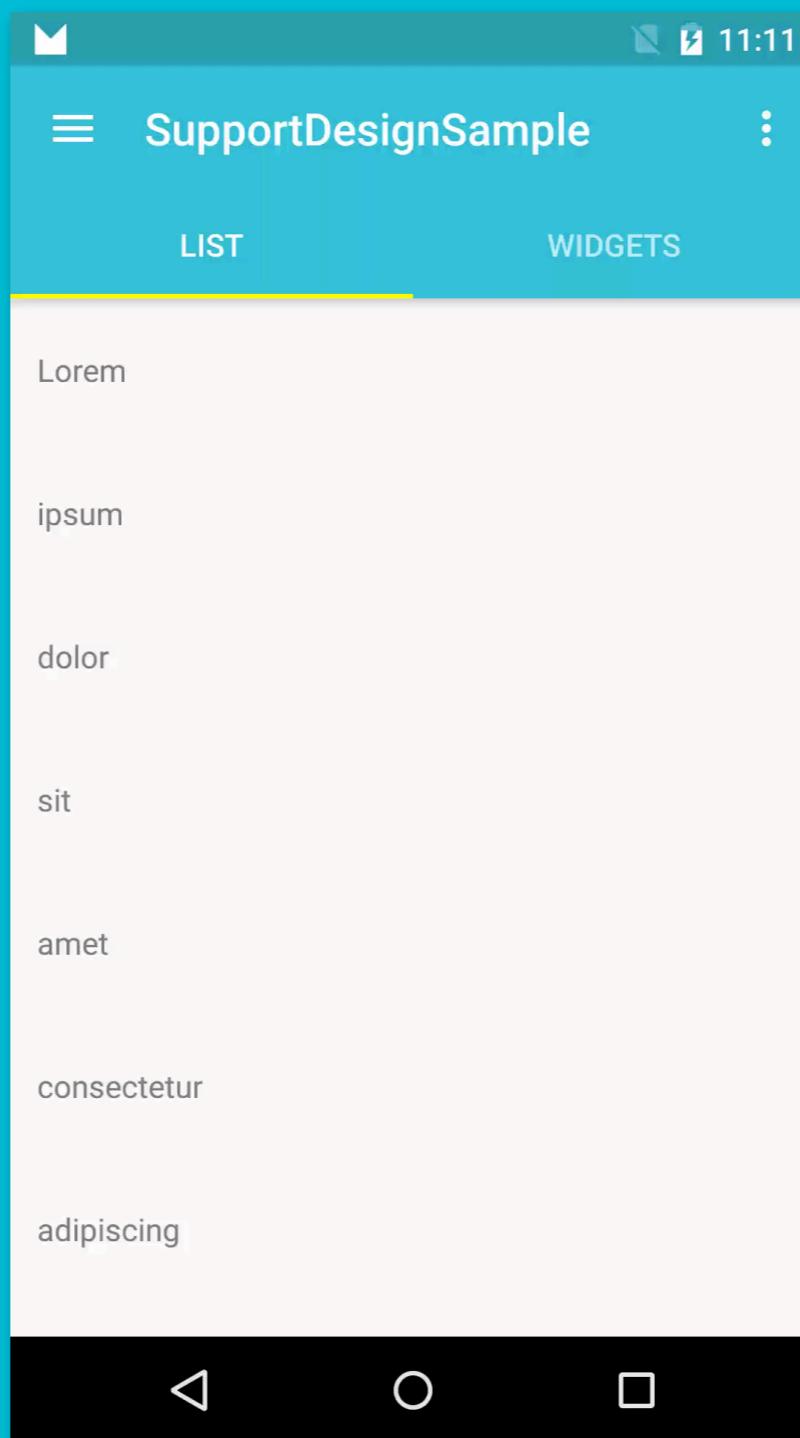
```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <group android:checkableBehavior="single">
        <item
            android:id="@+id/nav_dashboard"
            android:icon="@drawable/ic_dashboard_black_24dp"
            android:title="Dashboard" />
        <item
            android:id="@+id/nav_explore"
            android:icon="@drawable/ic_explore_black_24dp"
            android:title="Explore" />
    </group>

    <item android:title="Sub menu">
        <menu>
            <item
                android:icon="@drawable/ic_event_black_24dp"
                android:title="Event" />
            <item
                android:icon="@drawable/ic_home_black_24dp"
                android:title="Home" />
        </menu>
    </item>
</menu>
```

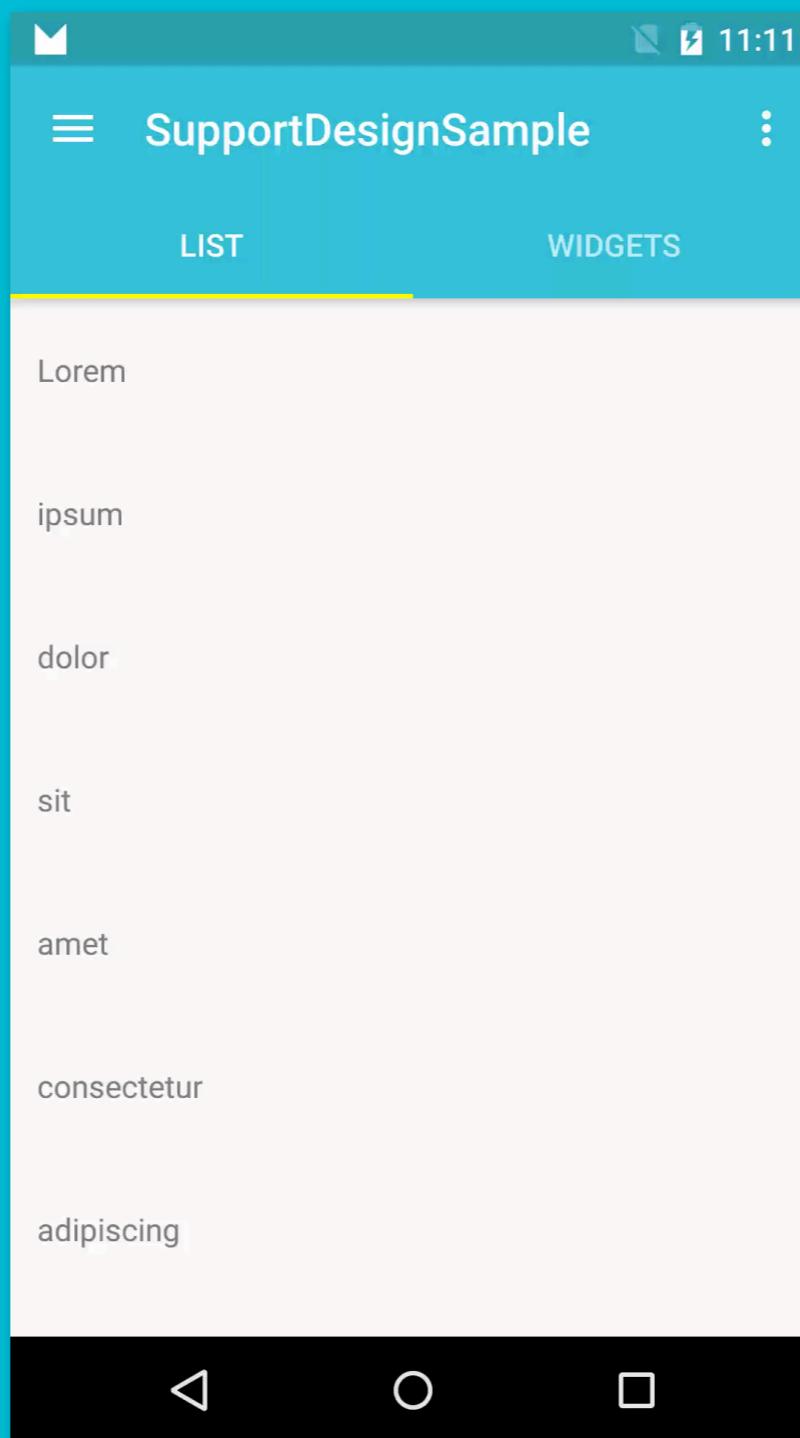
NavigationMenu

```
final DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer);
NavigationView nv = (NavigationView) findViewById(R.id.navigation_view);
nv.setNavigationItemSelectedListener(
    new NavigationView.OnNavigationItemSelected() {
        @Override
        public boolean onNavigationItemSelected(MenuItem menuItem) {
            if (menuItem.isCheckable()) {
                menuItem.setChecked(true);
            }
            Toast.makeText(getApplicationContext(),
                menuItem.getTitle(), Toast.LENGTH_SHORT).show();
            drawer.closeDrawers();
            return true;
        }
    });
});
```

NavigationMenu



NavigationMenu



TextInputLayout

- EditText의 기능을 확장
- Hint text, Error text 표시 및 애니메이션 지원
- TextInputLayout으로 EditText를 감싼다. (1:1 매칭)
- EditText 대신 AppCompatEditText 사용 권장
- 별도로 테마를 설정하지 않을 경우 colorAccent 색상으로 표시됨

TextInputLayout

```
<style name="MyTextInputLayoutTextAppearance"
      parent="TextAppearance.AppCompat">
    <item name="android:textColorHint">#0097A7</item>
    <item name="colorControlNormal">#0097A7</item>
    <item name="colorControlActivated">#0097A7</item>
</style>
```

TextInputLayout

```
<android.support.design.widget.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:theme="@style/MyTextInputLayoutTextAppearance">

    <android.support.v7.widget.AppCompatEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="E-mail address"/>

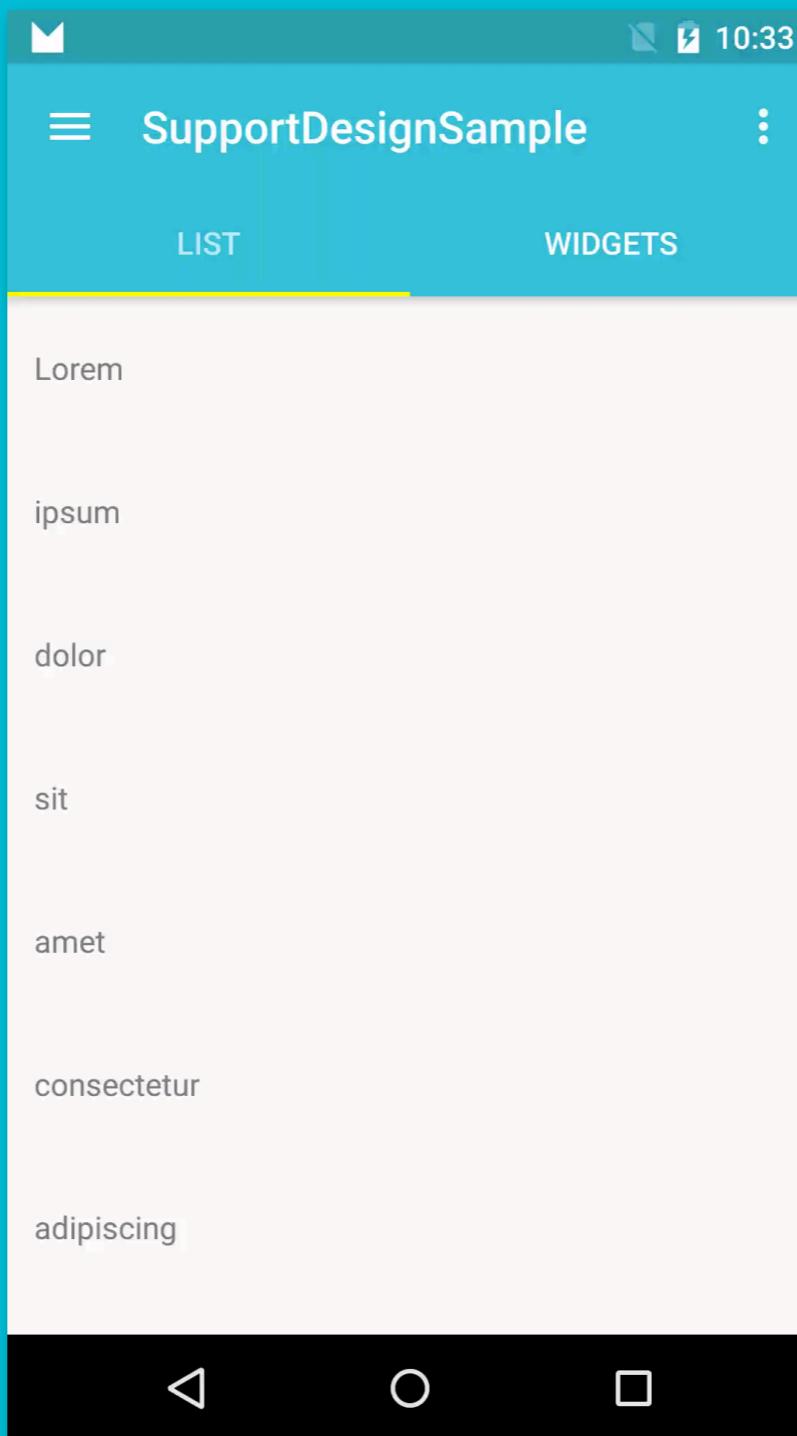
</android.support.design.widget.TextInputLayout>

<android.support.design.widget.TextInputLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:theme="@style/MyTextInputLayoutTextAppearance">

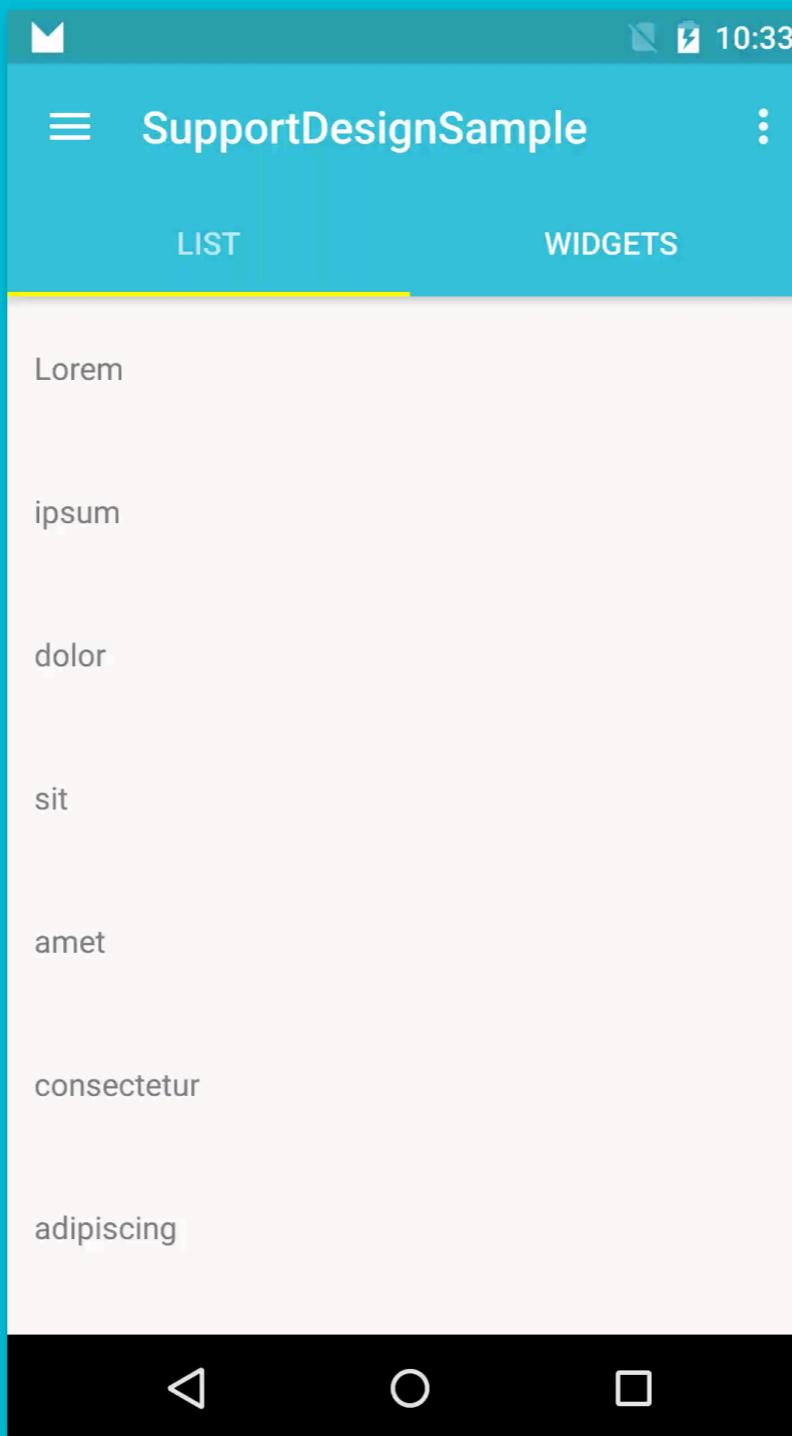
    <android.support.v7.widget.AppCompatEditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="textPassword"
        android:hint="Password"/>

</android.support.design.widget.TextInputLayout>
```

TextInputLayout

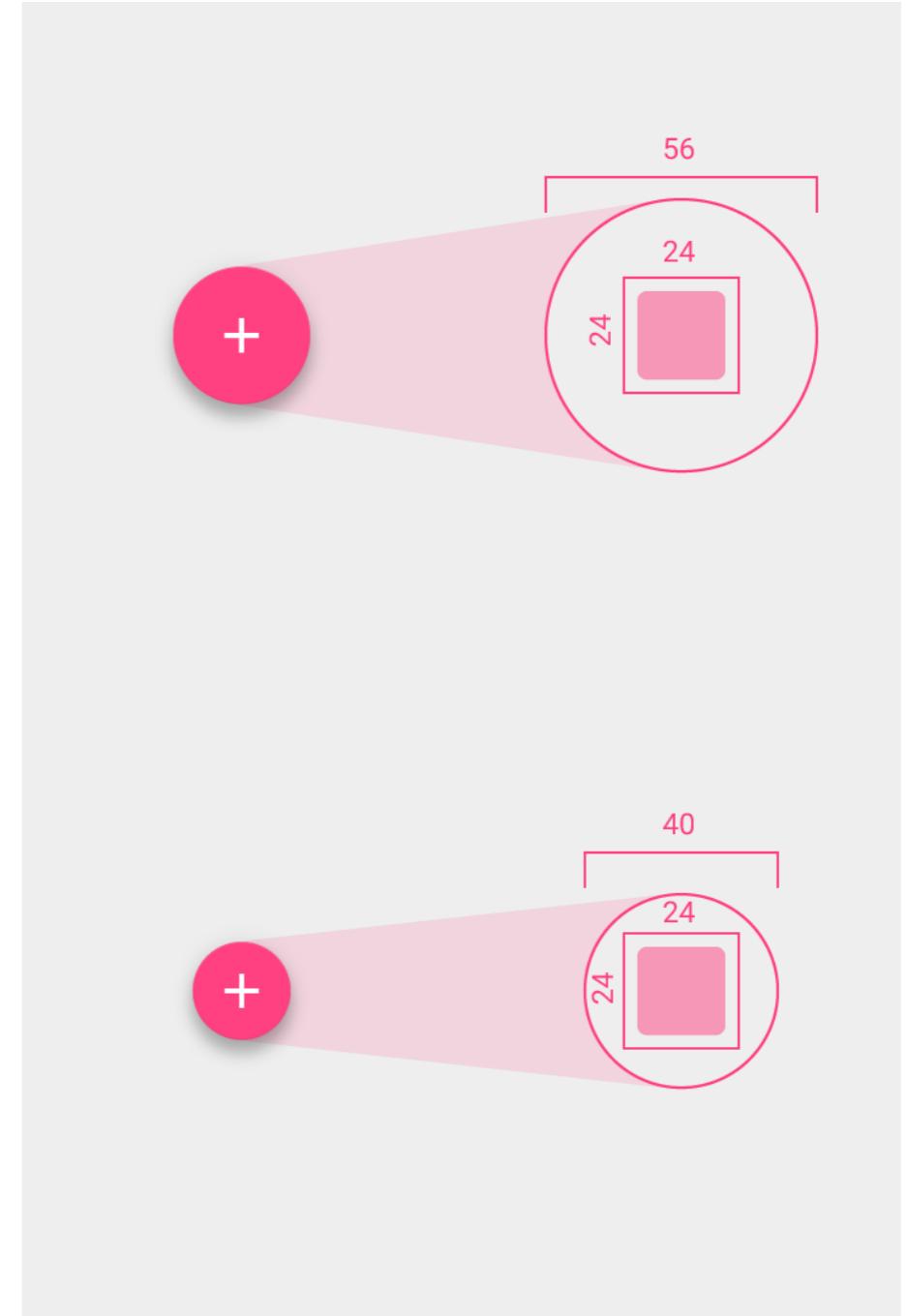


TextInputLayout



FloatingActionButton (FAB)

- 사용자가 자주 사용하는 동작을 지원
할 때 사용
- 일반적으로 다른 뷰 상단에 떠 있거나,
특정 뷰와 함께 이동함(anchor)
- 두 가지 크기 지원
 - app:fabSize=“normal” or “mini”
 - 기본 배경색으로 colorAccent 사용



Snackbar

- 토스트(Toast)와 다이얼로그의 중간

- 종류

- 단순 메시지 표시

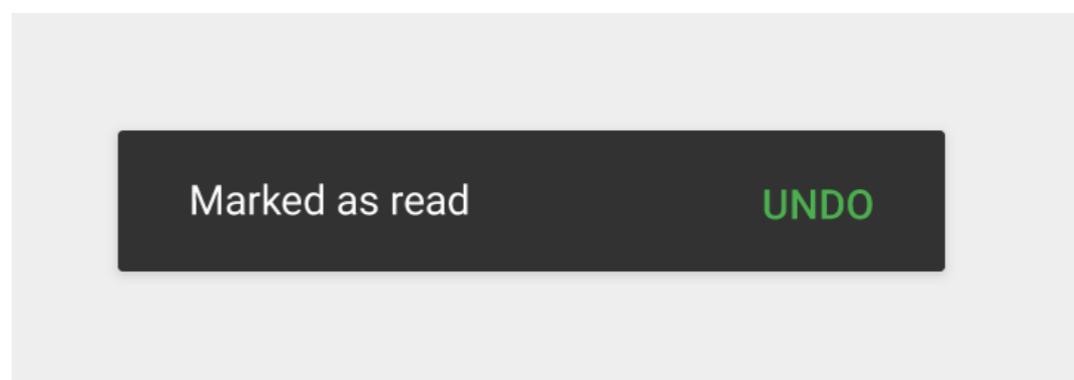
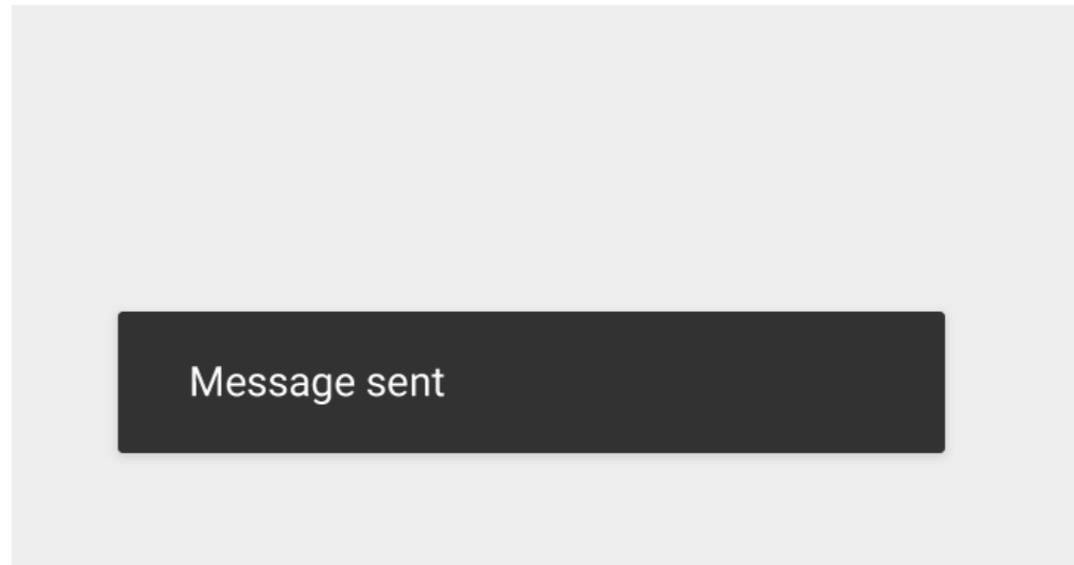
- 메시지 + 액션 버튼(1개)

- Toast 사용법과 유사

- Snackbar.make().show();

- Dismiss listener는 아직 지원 안함

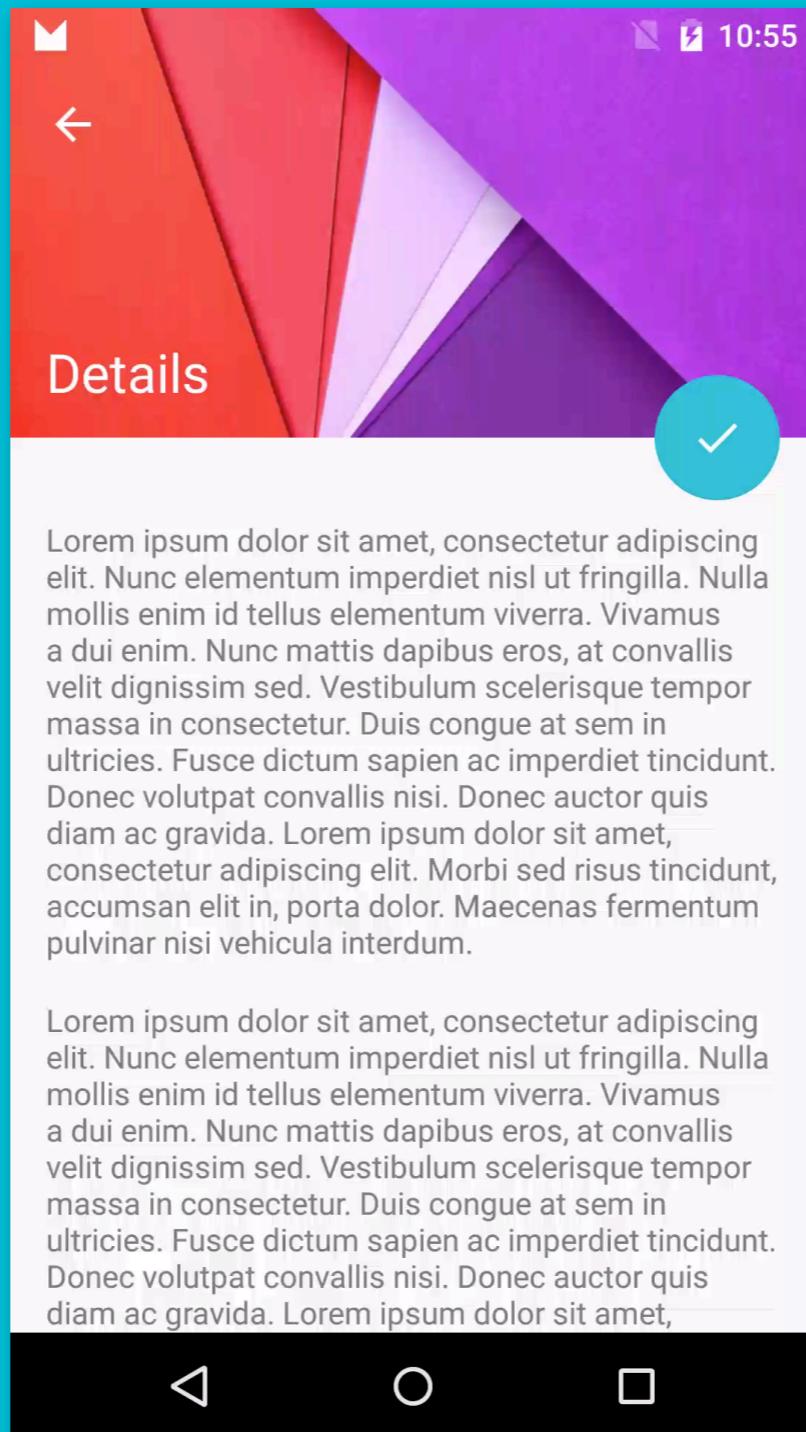
- [https://code.google.com/p/android/ issues/detail?id=175772](https://code.google.com/p/android/issues/detail?id=175772)



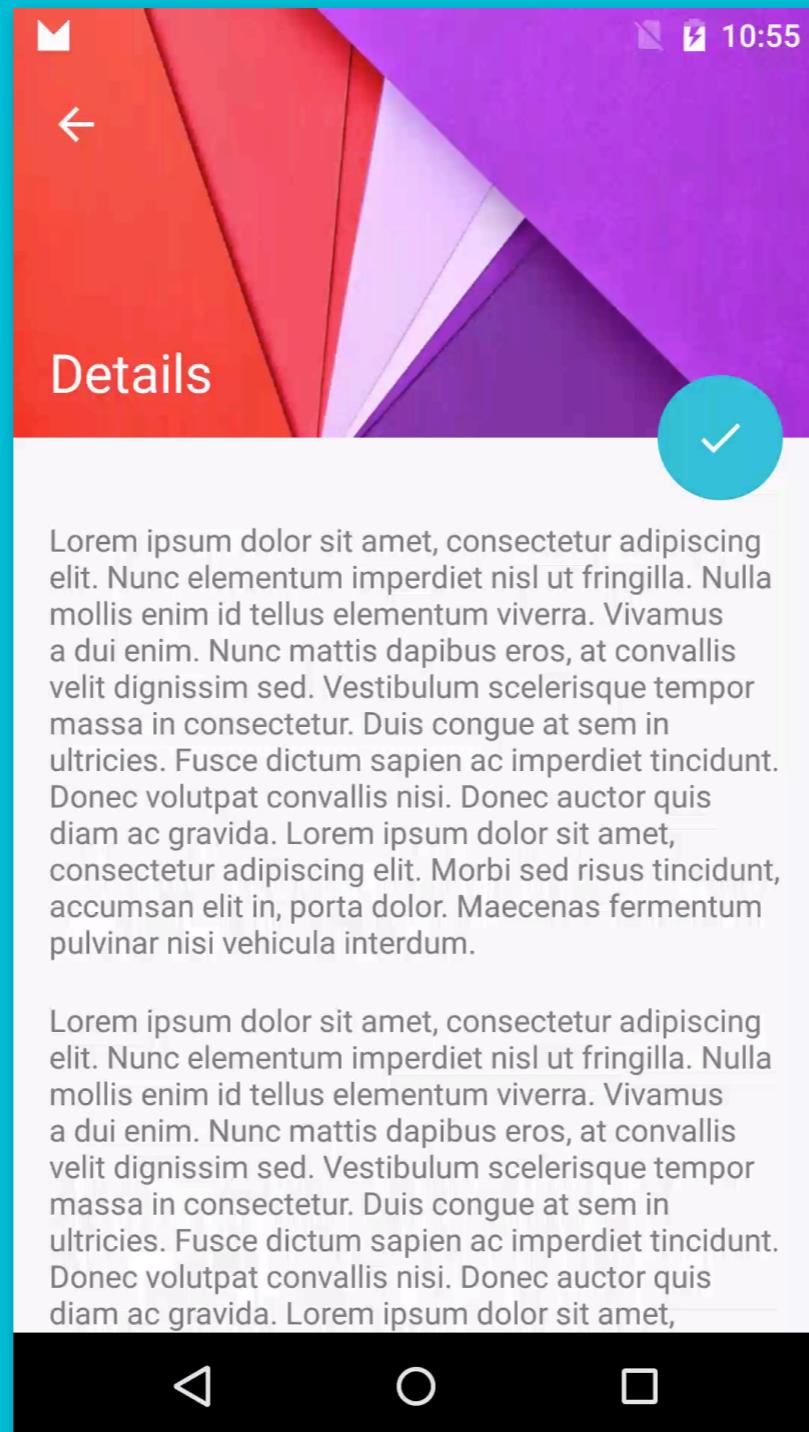
FAB + Snackbar

```
FloatingActionButton mFab = (FloatingActionButton) findViewById(R.id.fab);
mFab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        View root = findViewById(R.id.root);
        Snackbar sb = Snackbar.make(root, "Test", Snackbar.LENGTH_LONG);
        sb.setAction("Undo", new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                }
            });
        sb.show();
    }
});
```

FAB + Snackbar



FAB + Snackbar



해 봤는데.. 뭔가 제가 하고 싶은 대로 안 되는데요?

- 그렇다면 여러분은...



가엾고 땡한 자로다



그..그럼 어떻게..?

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ID ▾	Type ▾	Status ▾	Owner ▾	Summary + Labels ▾	Stars ▾	...
179483	Defect	Assigned	chrisba...@google.com	Enhancement request: Add Bottom Sheets to Design library	2	
179474	Defect	NeedsInfo	chrisba...@google.com	The FloatingActionButton has some strange lines when the elevation is more than 0 on prelollipop devices	2	
179272	Defect	Assigned	chrisba...@google.com	Possible memory leak in AppCompatEditText	1	
178153	Defect	Assigned	chrisba...@google.com	Error text in TextInputLayout is covered by keyboard	4	
177729	Defect	Assigned	chrisba...@google.com	RecyclerView NestedPreScroll offset not passed to VelocityTracker causing NestedPreFling to get wrong velocity	20	
177613	Defect	Assigned	chrisba...@google.com	Horizontal recyclerview in NestedScrollView breaks parallax collapsingtoolbarlayout	1	
177188	Defect	NeedsInfo	chrisba...@google.com	Design Support TabLayout acts strange after replacing fragment	1	
176673	Defect	Assigned	chrisba...@google.com	CollapsingToolbarLayout cannot be scrolled	13	
176305	Defect	Assigned	chrisba...@google.com	colorButtonNormal does not apply to ImageButton	2	
176116	Defect	Assigned	chrisba...@google.com	RotateAnimation doesn't work on FAB	5	
175672	Defect	Assigned	chrisba...@google.com	setError on TextInputLayout does not properly style the EditText line	19	
175506	----	Assigned	chrisba...@google.com	Toolbar should settle when only partially scrolled	17	
175086	Defect	Assigned	chrisba...@google.com	DialogFragment\$DialogStyle.class is missing from the support library from version 22.2	98	
174871	----	Assigned	chrisba...@google.com	XML based onclick handlers crashes with ContextThemeWrappers	4	
174127	Enhancement	Assigned	chrisba...@google.com	Picker divider color (customization instead of default holo blue)	3	
172356	----	Assigned	chrisba...@google.com	android.support.v7.app.AlertDialog does not have scroll indications.	6	
172279	----	Assigned	chrisba...@google.com	AlertDialog heigh issue (v7 support library) when using TableLayout	1	

Re: Issue 175465 in android: FAB in design library has extra margins on API<21, ignores elevation on API>=21



보낸사람: **android**, 받는사람: 나 ▾

6월 2일 ▾

Updates:

Status: Duplicate

Comment #2 on issue 175465 by chrisba...@google.com: FAB in design library
has extra margins on API<21, ignores elevation on API>=21
<https://code.google.com/p/android/issues/detail?id=175465>

Various duplicates.

--

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android / platform/frameworks/support

git clone https://android.googlesource.com/platform/frameworks/support

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