# Material Design



# **Tim Roes**



Android- & Web-Developer @ inovex in Karlsruhe



GDG Karlsruhe Co-Organizer



www.timroes.de/+





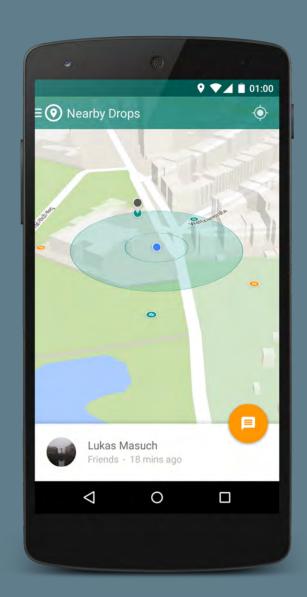


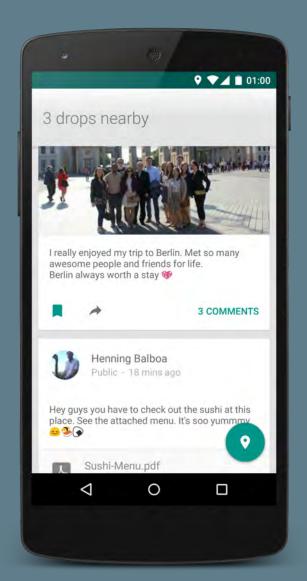


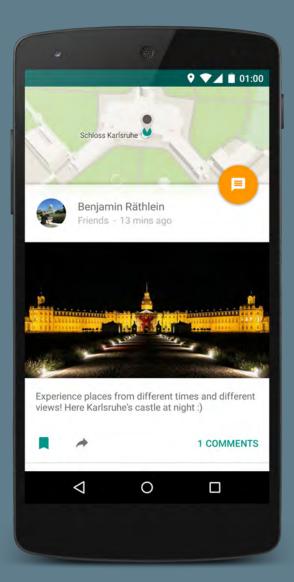


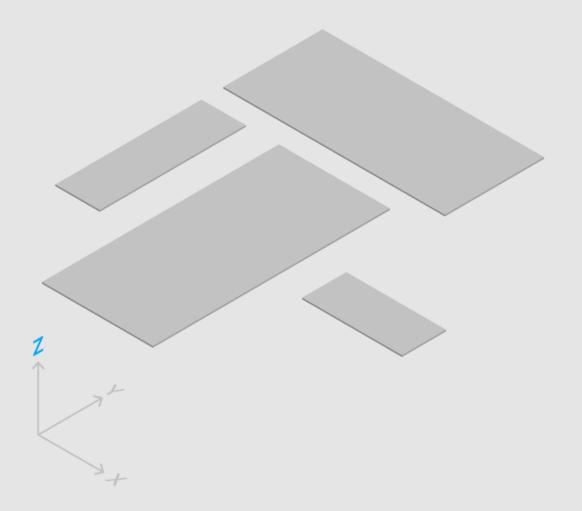
bit.ly/12PX9ih

Invite Code: INOVEX

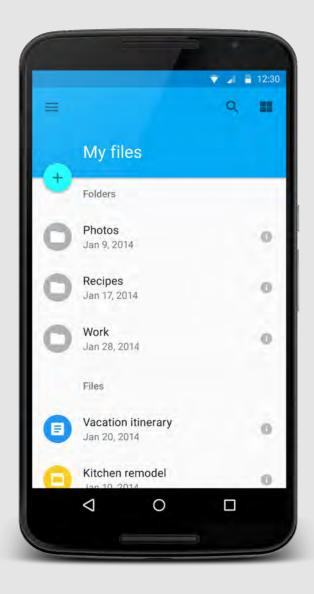




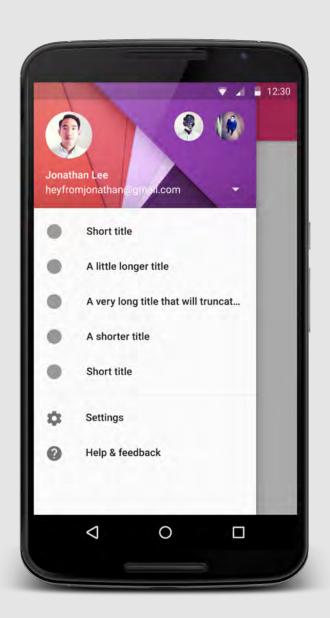




Paper





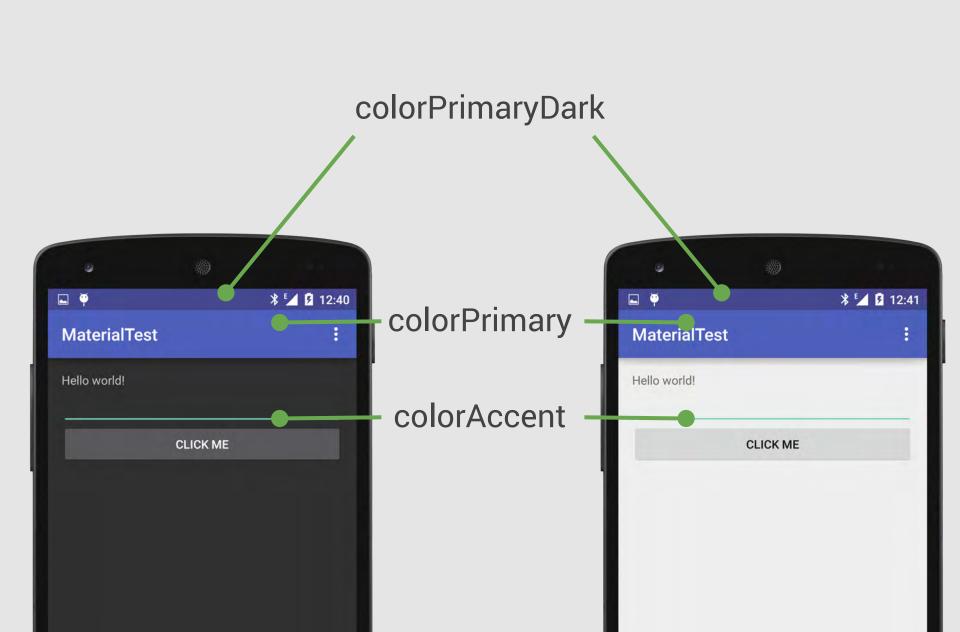


Settings, Help & Feedback

now in the Navigation Drawer

## Theme.Material.Light

<sup>\*</sup> Compatibility with AppCompat v7



android:TextAppearance.Material. Display4

Display3

Display2

Display1

Headline

Title

Subhead

Body2

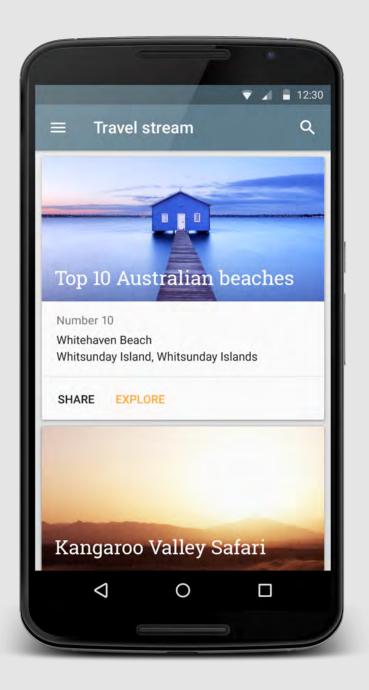
Body1

Caption

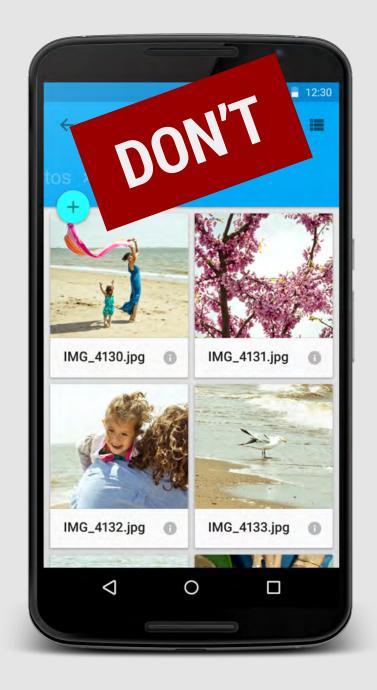
Menu

**Button** 

## Cards



# Cards





### **Shadows**

android:elevation="4dp"

View.setElevation(float);

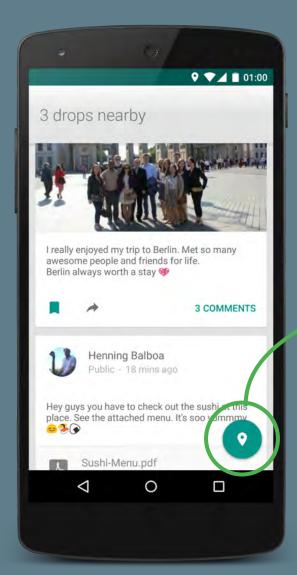
# **Ripples and Translation**

view.animate()

CLICK ME

**CLICK ME** 

```
.translationZ(float)
    .start();
<selector>
   <objectAnimator</pre>
       android:property="translationZ"
       android:valueTo="8dp"
       android:valueType="floatType"/>
</selector>
```



# Floating action button

### drawable/fab\_bg.xml

# **Activity Transitions**

#### 1) Enable content transitions

2) Specify transition element in target activity

```
<ImageView
...
android:transitionName="someId"/>
```

3) Start transition (with a single element)

#### 1) Enable content transitions

2) Specify transition element in target activity

```
<ImageView
...
android:transitionName="someId"/>
```

3) Start transition (with mutiple shared elements)

### **Palette**

```
Palette palette = Palette.generate(bitmap);
palette.getVibrantSwatch();
palette.getMutedSwatch();

palette.getLightVibrantSwatch();
palette.getLightMutedSwatch();

palette.getDarkVibrantSwatch();
palette.getDarkMutedSwatch();
```

<sup>\*</sup> Attention: swatches can be null

### **Swatches**

```
Swatch swatch = palette.get...Swatch();
swatch.getRgb();
swatch.getTitleTextColor();
swatch.getBodyTextColor();
swatch.getPopulation();
swatch.getHsl();
```

\* Attention: IllegalArgumentException can be thrown

### Vibrant

light style

### Vibrant

normal style

### Vibrant

dark style



Muted

light style

Muted

normal style

Muted

dark style



Palette Viewer

### Links:

- www.google.com/design
- d.android.com/training/material

- material.angularjs.org
- polymer-project.org/components/paper-elements