





So you read the style guide.

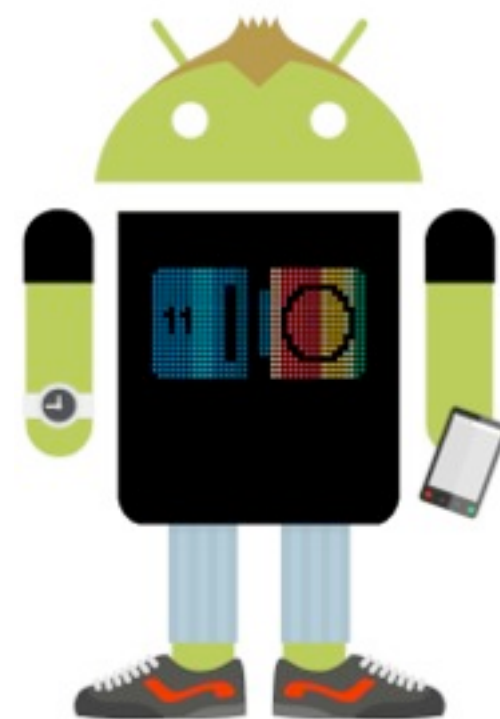
Now what?



Richard Ngo
Visual Designer



Daniel Lehmann
Software Engineer



Tor Norbye
Tools Engineer

✉ ✉ 📶 📶 📶 🔋 11:26

✕ CANCEL | ✓ DONE

Event name

Location

FROM
Thu, Jun 21, 2012 11:30

TO
Thu, Jun 21, 2012 12:30

ALL DAY

(GMT-7:00) Pacific Time 🌞

GUESTS
Guests

Description

REPETITION
One-time event

REMINDERS
10 minutes Notification ✕

← 🏠 📄



✓ DONE

✗ CANCEL

Event name

Location

FROM

Thu, Jun 21, 2012 11:30

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ALL DAY

(GMT-7:00) Pacific Time *

GUESTS

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REPETITION

One-time event

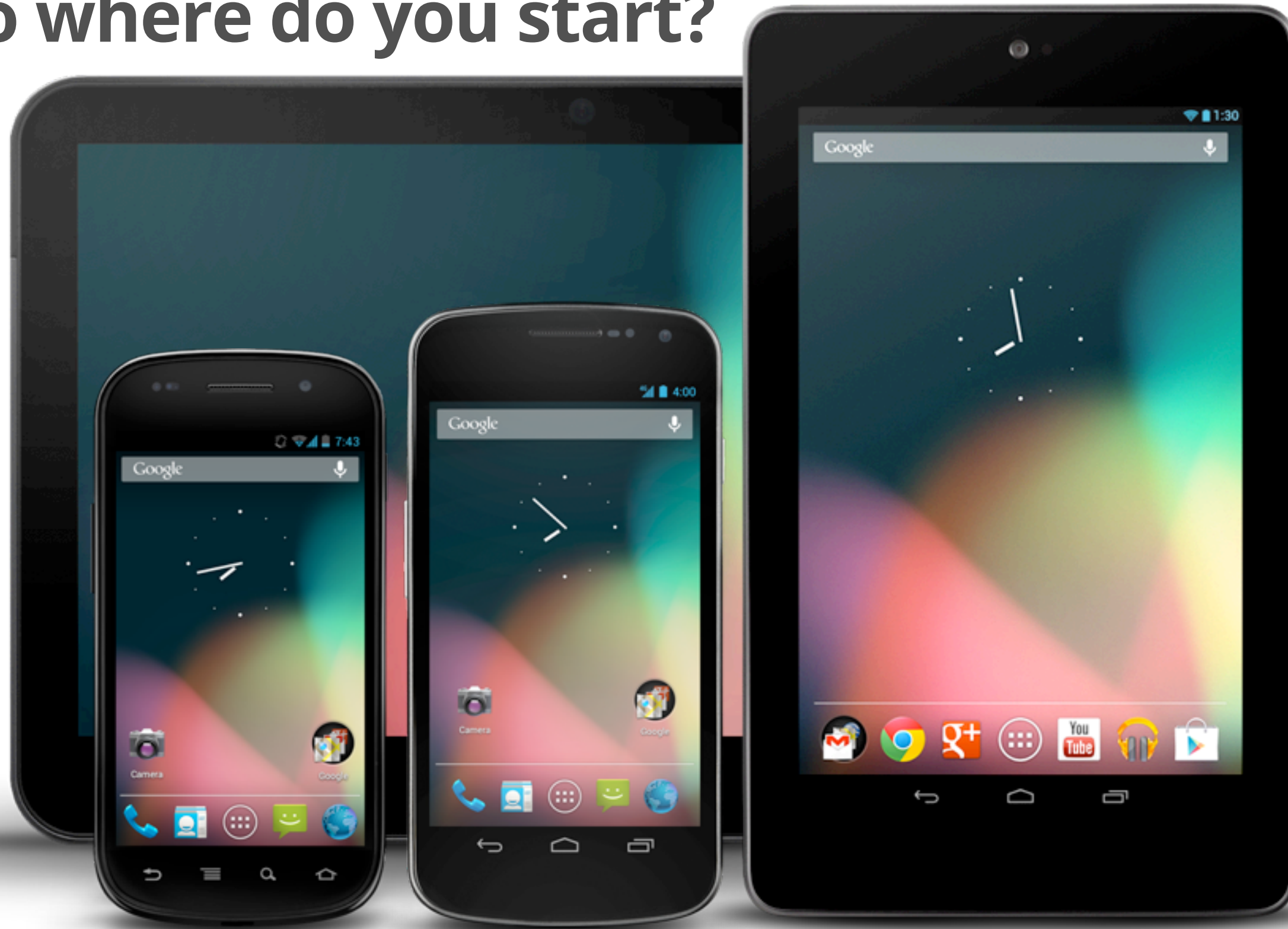
REMINDERS

10 minutes Notification





So where do you start?





Standardize in DPs

(Density-independent pixel)



3 Devices, same resolution



GALAXY NEXUS 1280X720

NEXUS 7 1280X800

XOOM 1280X800



XOOM

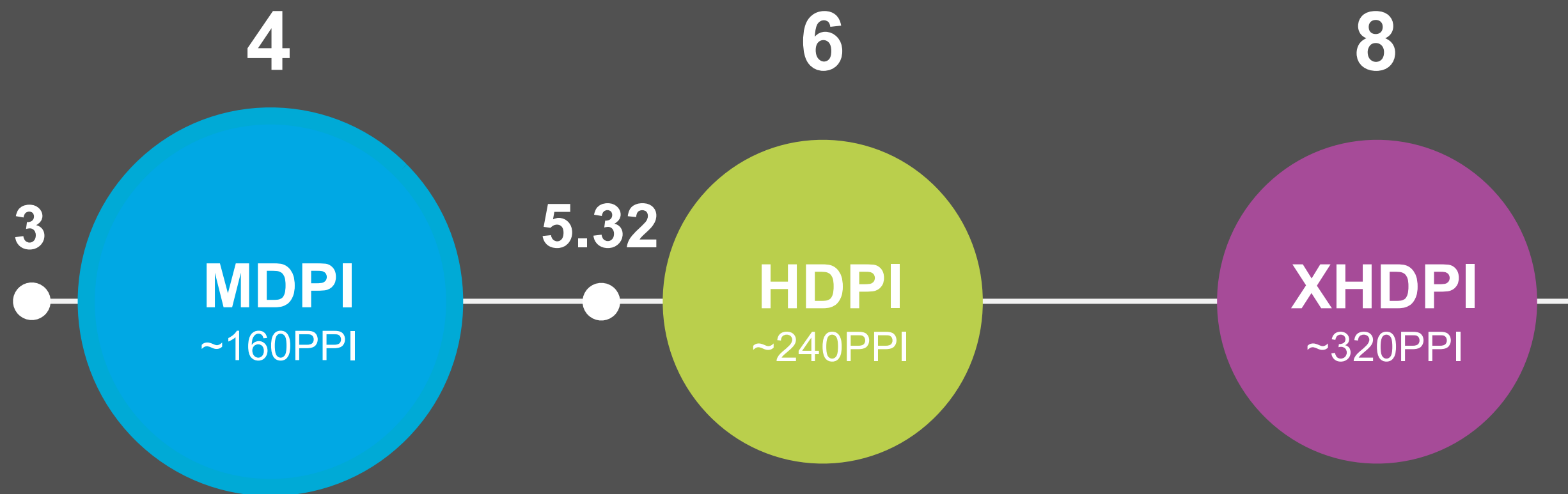


NEXUS 7



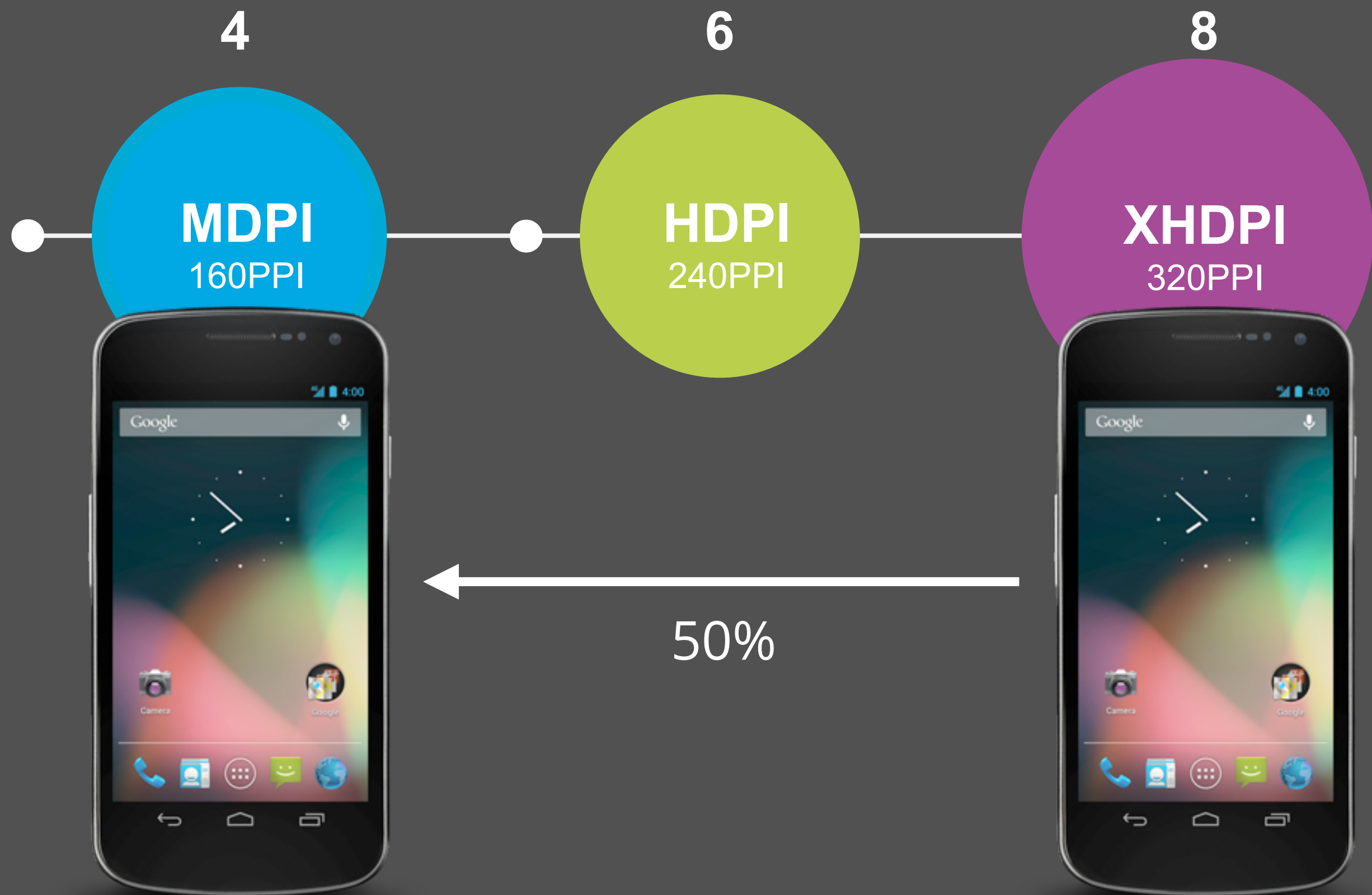
GALAXY NEXUS

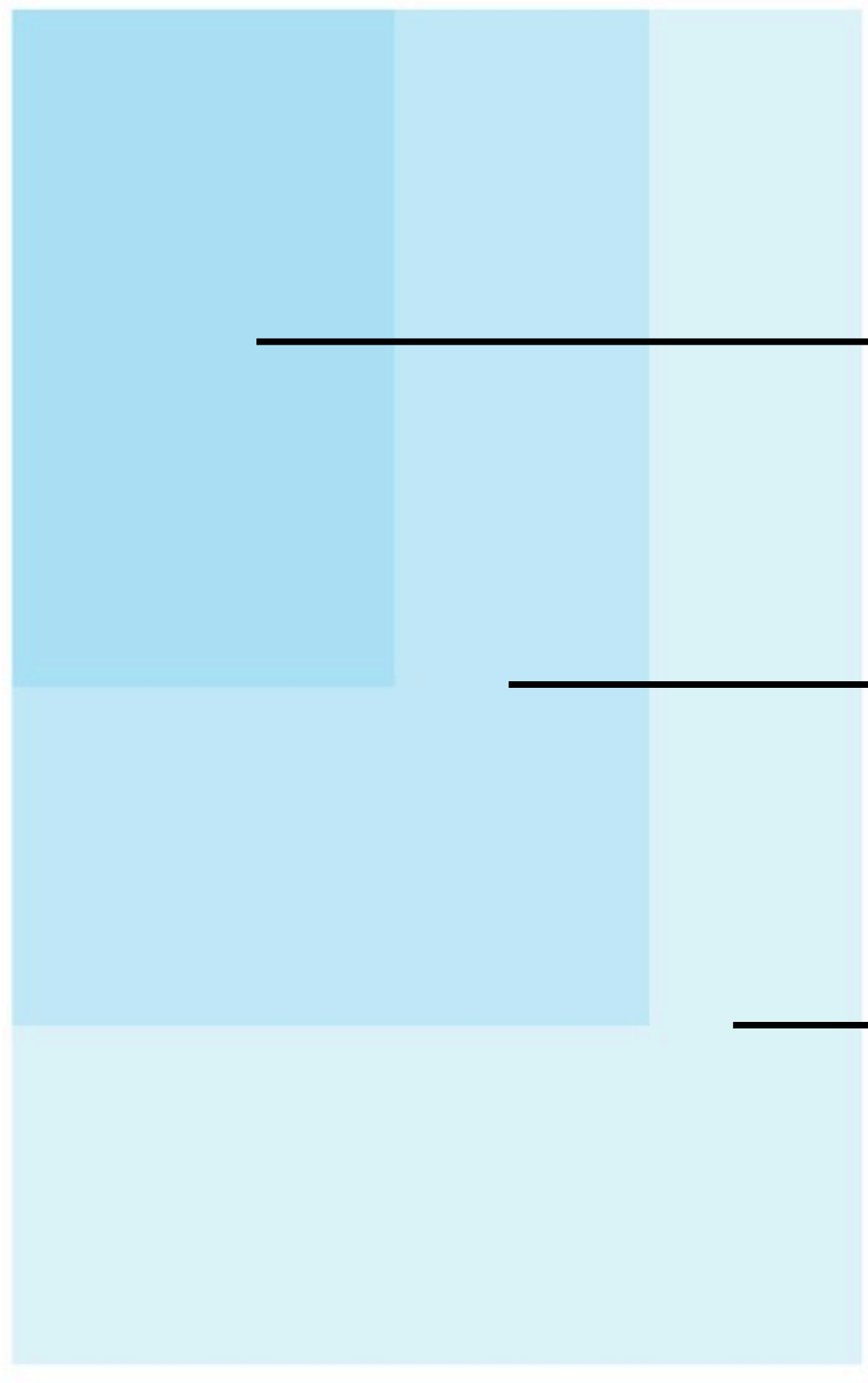




1PX IN MDPI = 1DP







GALAXY NEXUS

360X640DP

NEXUS 7

600X960DP

XOOM

800X1280DP





4 DP GRID





32-bit Preview Options...

- Zoom In ⌘ +
- Zoom Out ⌘ -
- Fit on Screen ⌘ 0
- Actual Pixels ⌘ 1
- Print Size

Screen Mode Preferences ▶

- ✓ Extras ⌘ H
- Show ▶
- Rulers ⌘ R
- ✓ Snap ⌘ ;
- Snap To ▶**
- Lock Guides ⌘ ;
- Clear Guides
- New Guide...
- Lock Slices
- Clear Slices

- ✓ Guides
- ✓ Grid**
- ✓ Layers
- ✓ Slices
- ✓ Document Bounds
- All
- None

General

Interface

File Handling

Performance

Cursors

Transparency & Gamut

Units & Rulers

Guides, Grid & Slices

Plug-Ins

Type

3D

Guides

Color: Cyan

Style: Lines

Smart Guides

Color: Magenta

Grid

Color: Custom

Style: Lines

Gridline Every: 4 pixels

Subdivision: None

Slices

Line Color: Light Blue

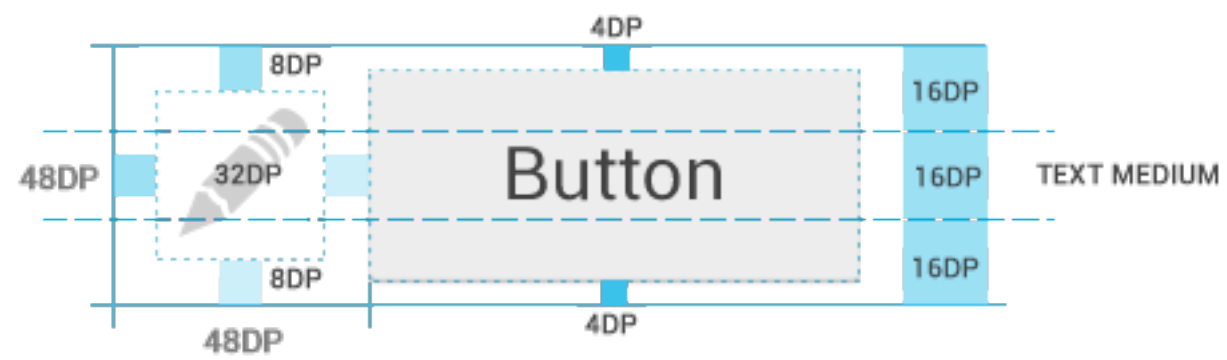
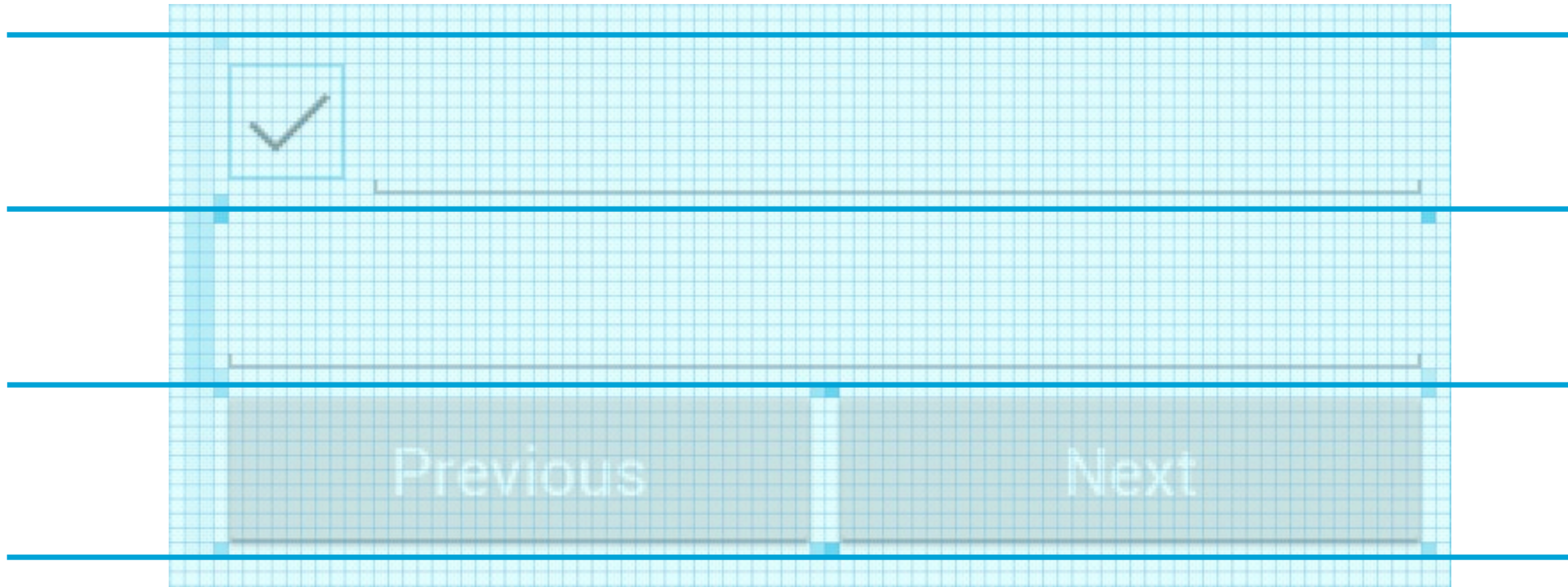
Show Slice Numbers

OK

Cancel

Prev

Next



Android Design Stencil

HOLO LIGHT & DARK

All elements are standardized in MDPI and created with vector shapes.

20120229

TYPOGRAPHY

Roboto, text size micro 12sp

Roboto, text size small - 14sp

Roboto, text size medium - 18sp

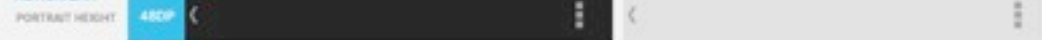
Roboto, text size large - 22sp

A shimmering global phenomenon
Surfing invisible currents of information
Design the soul of an intelligent machine

COLOR



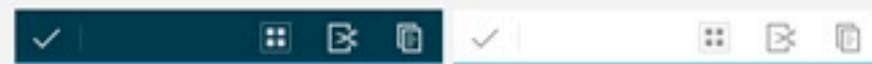
ACTION BAR



SPLIT ACTION BAR



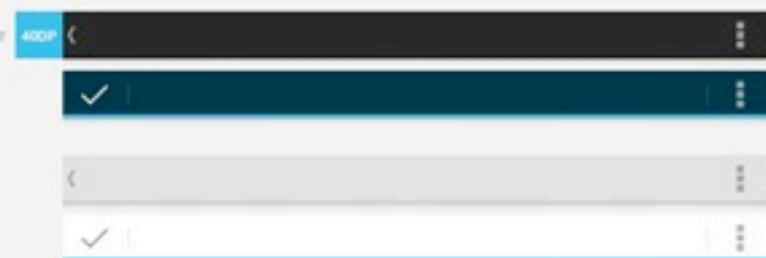
CONTEXTUAL ACTION BAR



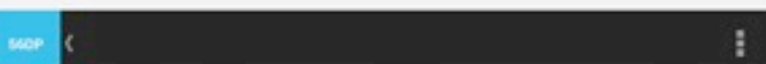
CONTEXTUAL SPLIT ACTION BAR



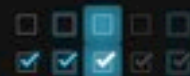
LANDSCAPE HEIGHT



TABLET HEIGHT



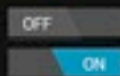
CHECKBOX



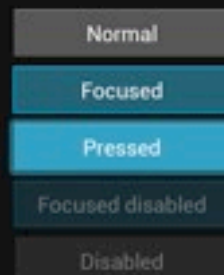
RADIO BUTTON



SWITCHES



DEFAULT BUTTONS



LIST

SECTION HEADER

Normal

Pressed

Activated

Focused

Disabled focused

Disabled

SECTION HEADER

Single line item

Single line item with button

Single line item with avatar

TWO LINE LIST

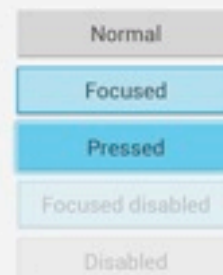
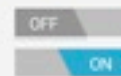
Lorem ipsum dolor sit amet
secondary line item

Lorem ipsum dolor sit amet
secondary line item

Lorem ipsum dolor sit amet
secondary line item

THREE LINE LIST

Lorem ipsum dolor sit amet
Dapibus, neque id cursus faucibus, tortor
neque egestas



SECTION HEADER

Normal

Pressed

Activated

Focused

Disabled focused

Disabled

SECTION HEADER

Single line item

Single line item with button

Single line item with avatar

TWO LINE LIST

Lorem ipsum dolor sit amet
secondary line item

Lorem ipsum dolor sit amet
secondary line item

Lorem ipsum dolor sit amet
secondary line item

TWO LINE LIST

Lorem ipsum dolor sit amet
Dapibus, neque id cursus faucibus, tortor
neque egestas

TEXTFIELD

DISABLED

NORMAL

ACTIVATED

PROGRESS BAR

PROGRESS SCRUBBERS

DISABLED

PRESSED

FOCUSED

NORMAL

INDETERMINATE PROGRESS BAR & SPINNER

SPINNERS

NORMAL

FOCUSED

PRESSED

DISABLED FOCUSED

DISABLED

QUICKSCROLL

Aa

Aa

SCROLLBARS

MENU

Menu item 1

Menu item 2

Menu item 3

Menu item 1

Menu item 2

Menu item 3

Design Downloads

<http://developer.android.com/design/downloads/>

The screenshot shows the 'Design Downloads' page on the Android Developer website. The navigation bar includes 'Developers', 'Design', 'Develop', and 'Distribute'. A sidebar on the left lists 'Get Started', 'Style', 'Patterns', 'Building Blocks', and 'Downloads' (which is highlighted). The main content area is titled 'Downloads' and includes a 'PREVIOUS' link and a 'Download All' button. Below this, there is a section for 'Stencils and Sources' with a descriptive paragraph and a grid of four items, each with a checkbox and a corresponding button. The items are: Adobe® Fireworks® PNG Stencil, Omni® OmniGraffle® Stencil, and Adobe® Photoshop® Sources. A fourth item is partially visible. At the bottom of the grid, there are 'OFF' and 'ON' toggle buttons.

Developers ▾ | Design Develop Distribute

Get Started ▾
Style ▾
Patterns ▾
Building Blocks ▾
Downloads

Downloads

< PREVIOUS

Want everything? We've bundled all the downloads available on Android Design into a single ZIP file. You can also download individual files listed below.

You may use these materials without restriction in your apps and to develop your apps.

Download All

Stencils and Sources

Drag and drop your way to beautifully designed Ice Cream Sandwich apps. The stencils feature the rich typography, colors, interactive controls, and icons found throughout Android 4.0, along with phone and tablet outlines to frame your creations. Source files for icons and controls are also available.

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Adobe® Fireworks® PNG Stencil
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Omni® OmniGraffle® Stencil
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Adobe® Photoshop® Sources
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

OFF ON



Android Design Stencil

HOLO LIGHT & DARK

All elements are standardized in MDPI and created with vector shapes.

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TYPOGRAPHY

Roboto, text size micro 12sp

Roboto, text size small - 14sp

Roboto, text size medium - 18sp

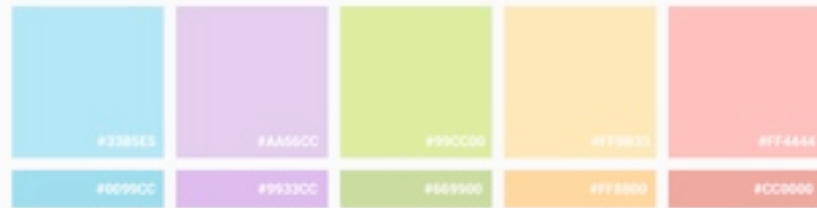
Roboto, text size large - 22sp

A shimmering global phenomenon

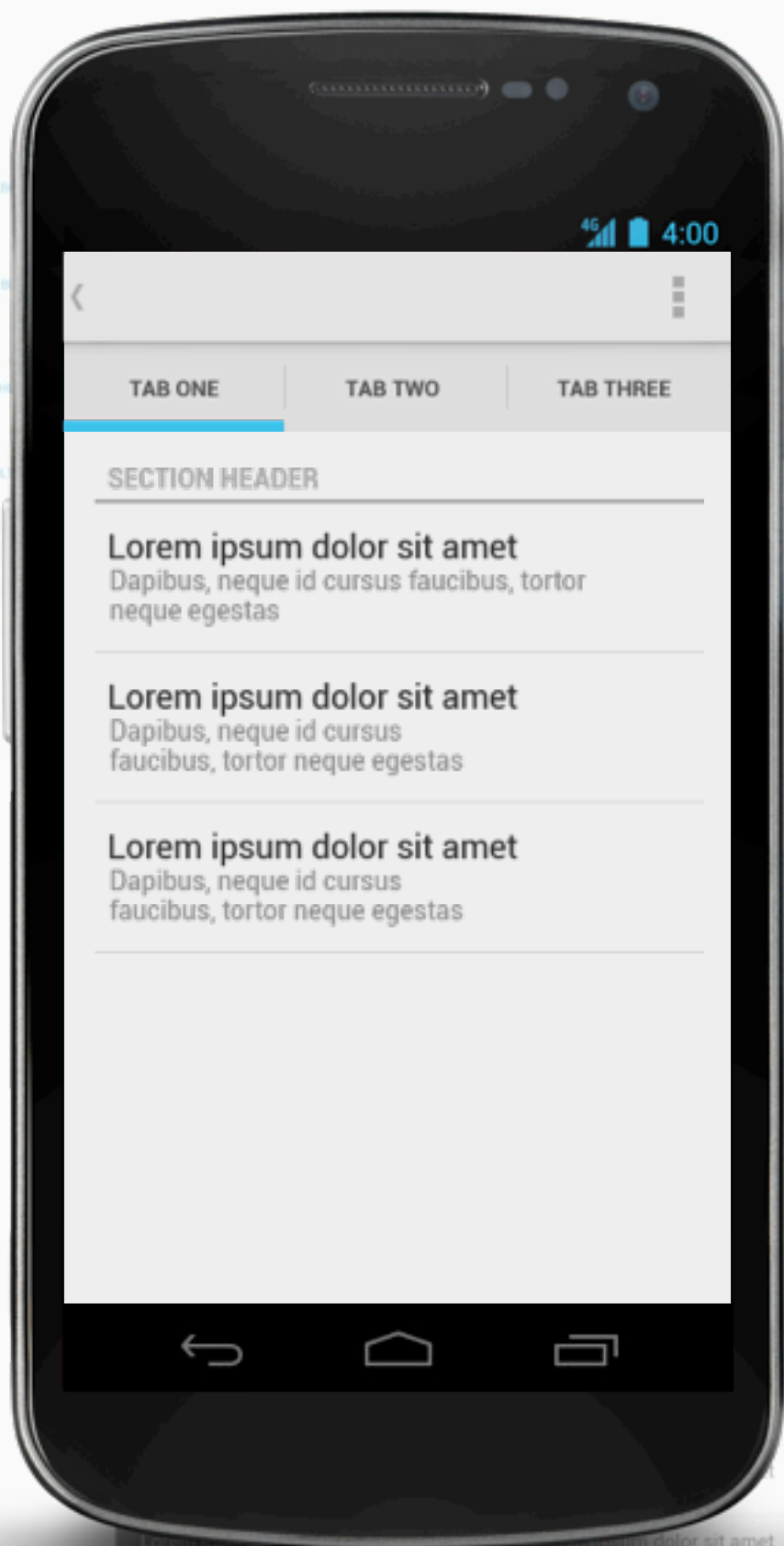
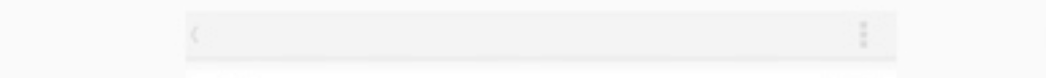
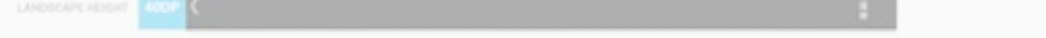
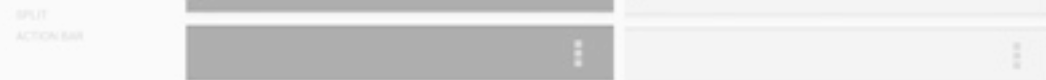
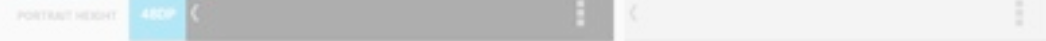
Surfing invisible currents of information

Design the soul of an intelligent machine

COLOR



ACTION BAR



TEXTFIELD

DISABLED

NORMAL

ACTIVATED

PROGRESS BAR

PROGRESS SCRUBBERS

DISABLED

PRESSED

FOCUSED

NORMAL

INDETERMINATE PROGRESS BAR & SPINNER

SPINNERS

NORMAL

FOCUSED

PRESSED

DISABLED FOCUSED

DISABLED

QUICKSCROLL

SCROLLBARS

MENU

Menu item 1

Menu item 2

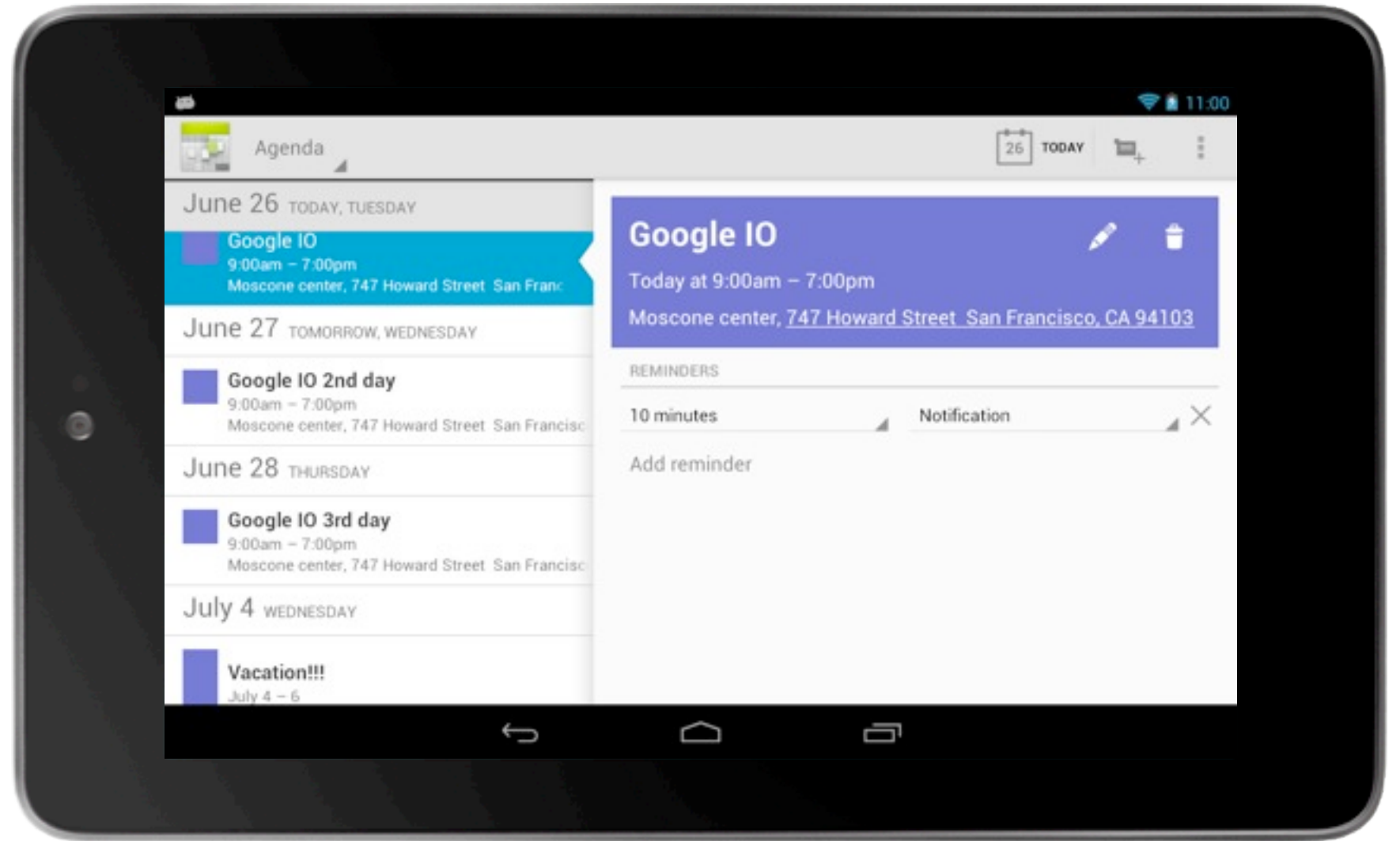
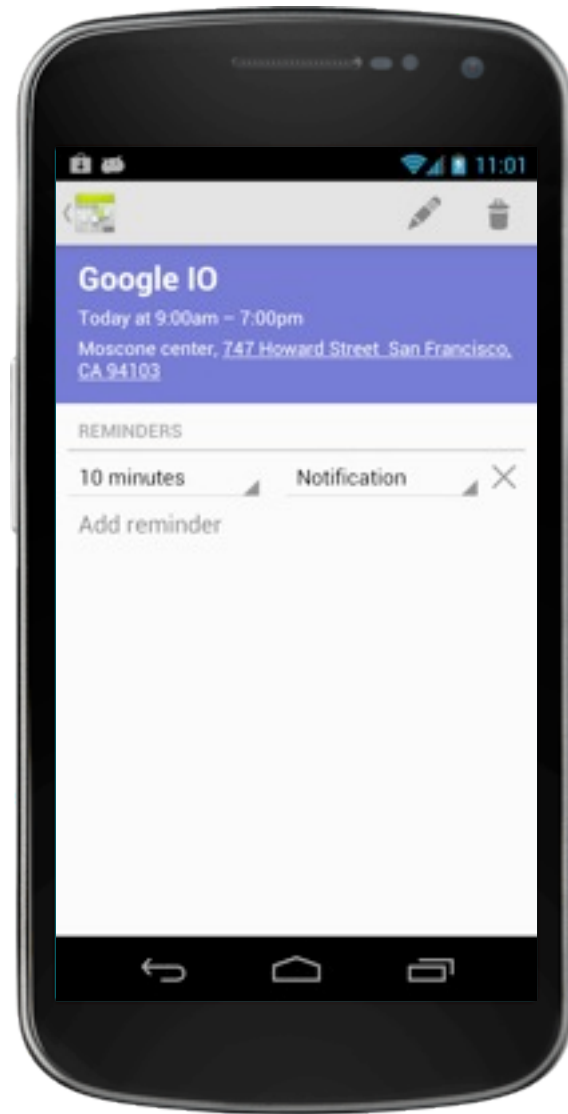
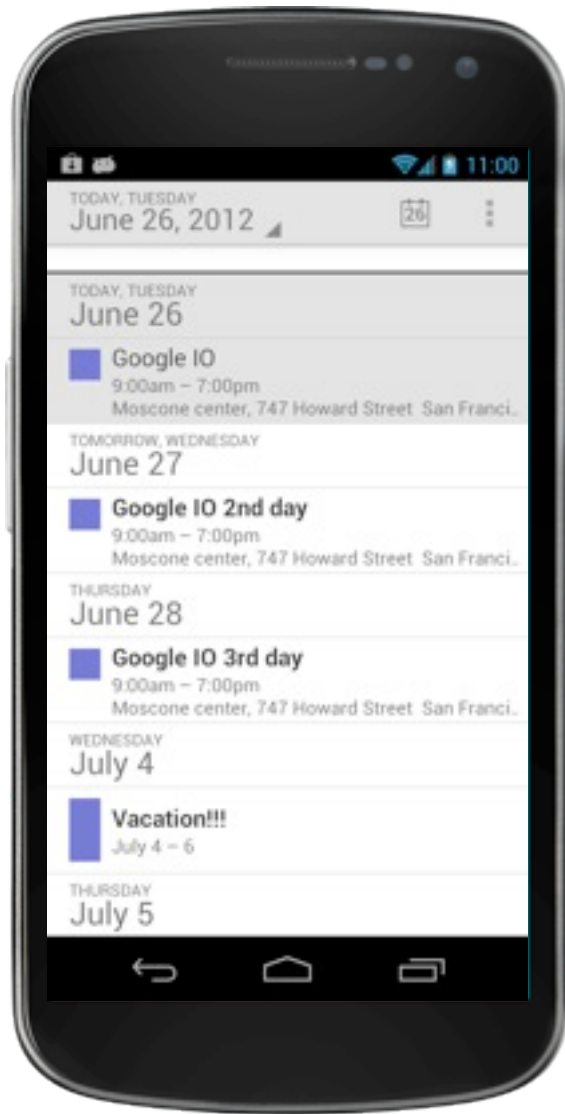
Menu item 3

Menu item 1

Menu item 2

Menu item 3

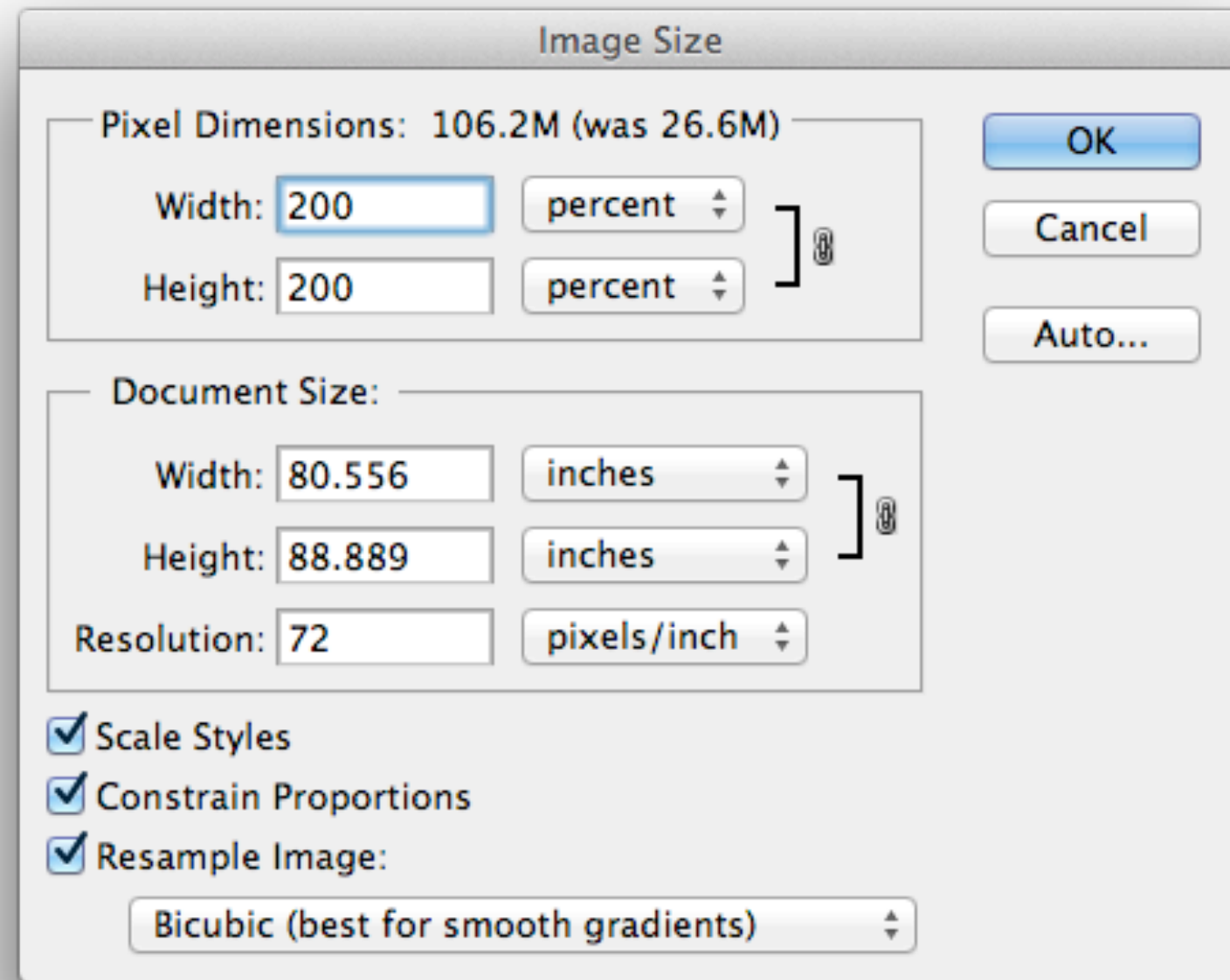






But how do a look at my mockups on my device?





48DP



1 selected



1 selected



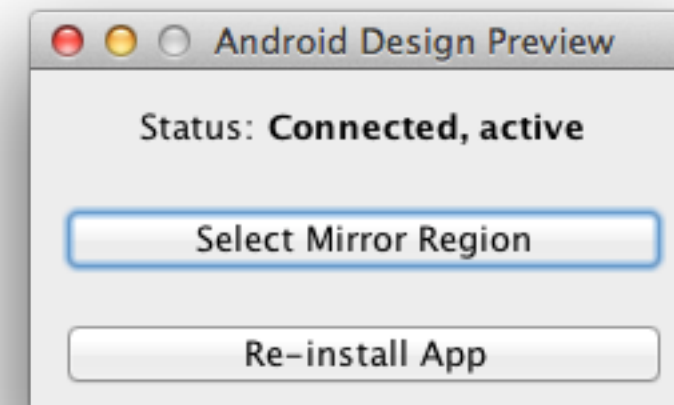
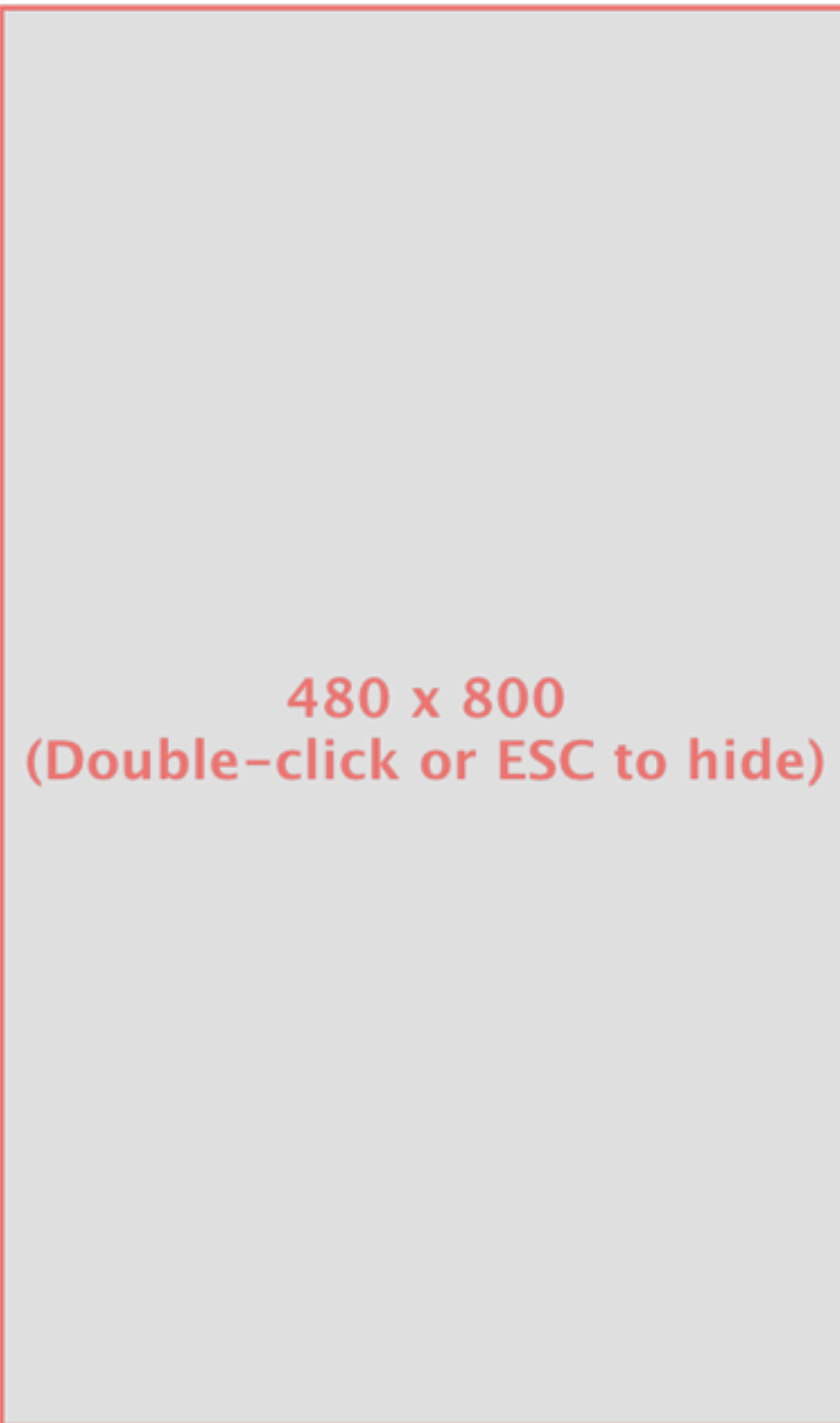
Android Design Preview



<http://code.google.com/p/android-ui-utils/>

Thanks Amith and Roman





Android Design Stencil

HOLO LIGHT & DARK

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20120229

TYPOGRAPHY

Roboto, text size micro - 12sp

Roboto, text size small - 14sp

Roboto, text size medium - 18sp

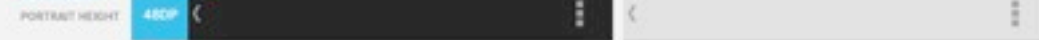
Roboto, text size large - 22sp

A shimmering global phenomenon
Surfing invisible currents of information
Design the soul of an intelligent machine

COLOR



ACTION BAR



SPLIT ACTION BAR



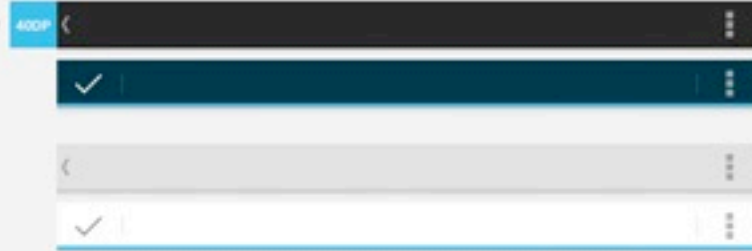
CONTEXTUAL ACTION BAR



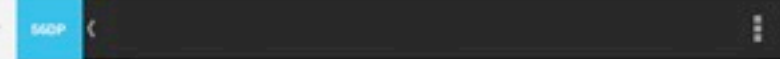
CONTEXTUAL SPLIT ACTION BAR



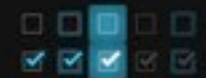
LANDSCAPE HEIGHT



TABLET HEIGHT



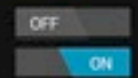
CHECKBOX



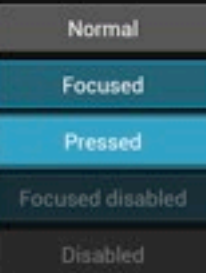
RADIO BUTTON



SWITCHES

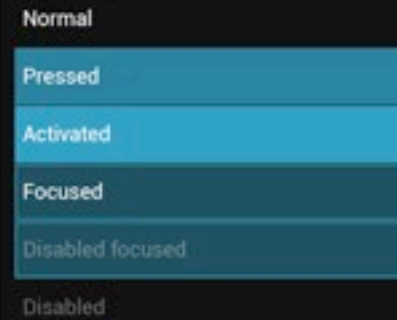


DEFAULT BUTTONS

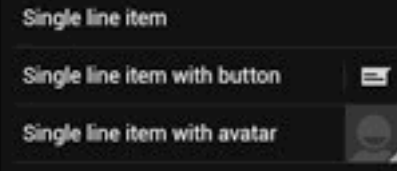


LIST

SECTION HEADER



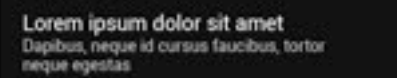
SECTION HEADER



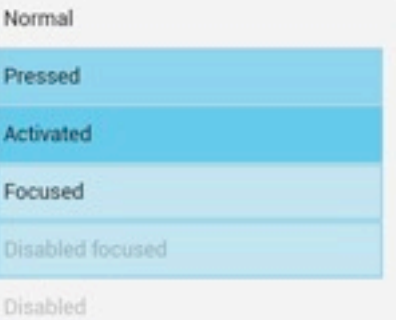
TWO LINE LIST



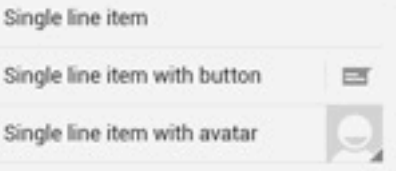
THREE LINE LIST



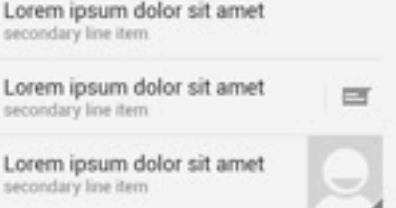
SECTION HEADER



SECTION HEADER



TWO LINE LIST



TWO LINE LIST



TEXTFIELD



PROGRESS BAR

PROGRESS SCRUBBERS

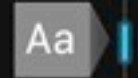


INDETERMINATE PROGRESS BAR & SPINNER

SPINNERS

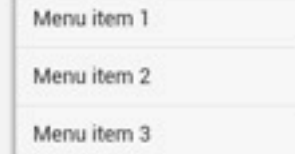
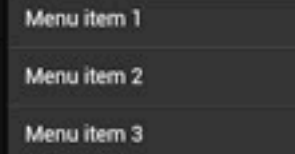


QUICKSCROLL

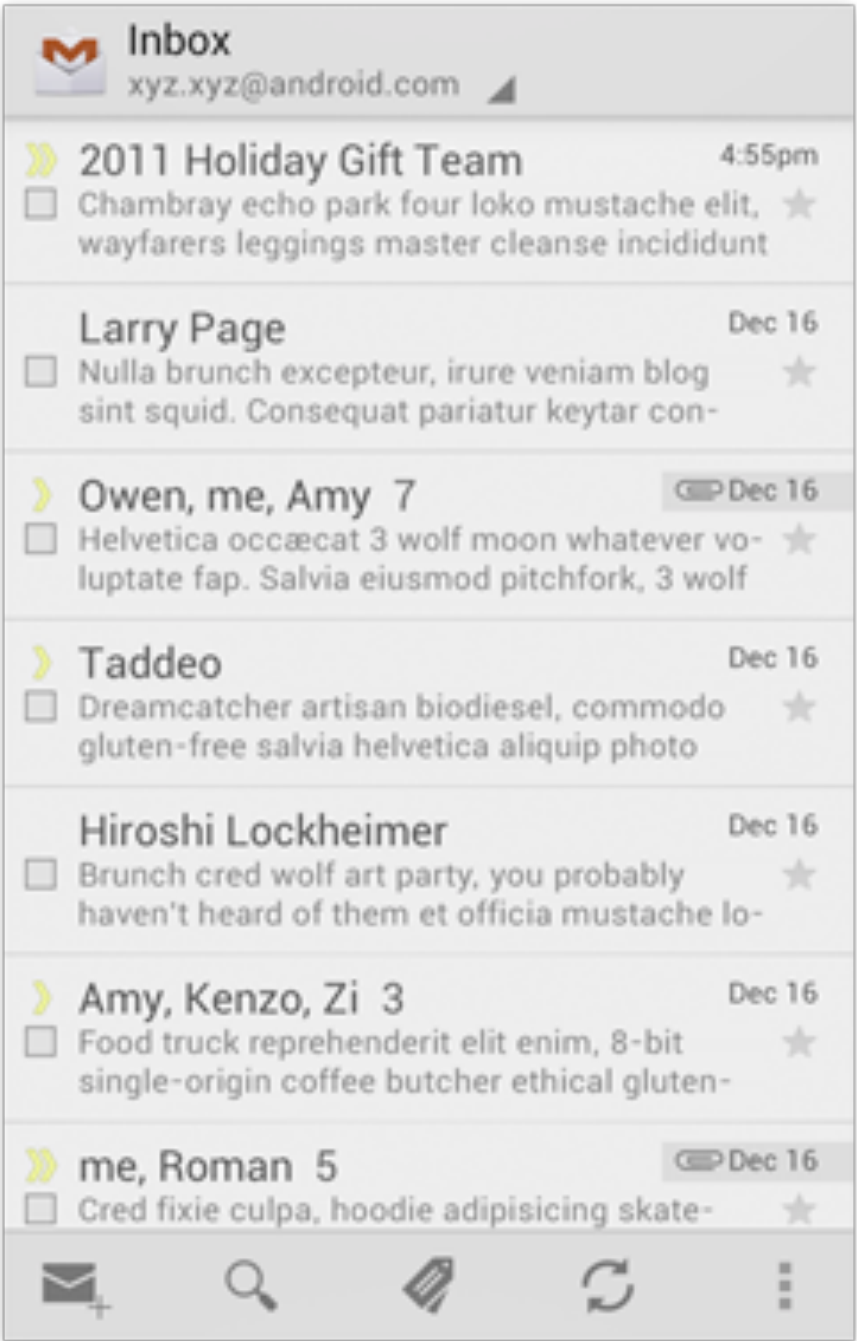


SCROLLBARS

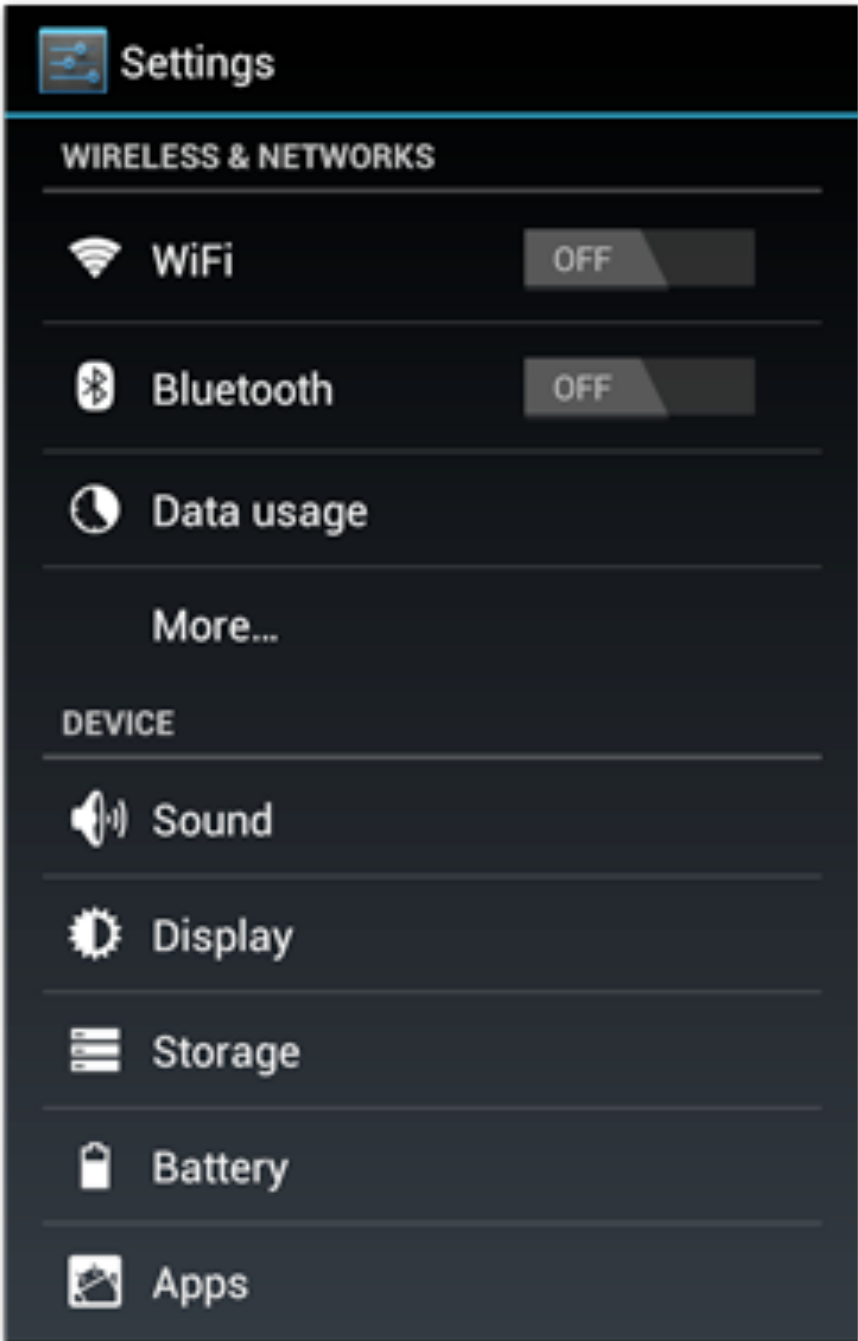
MENU



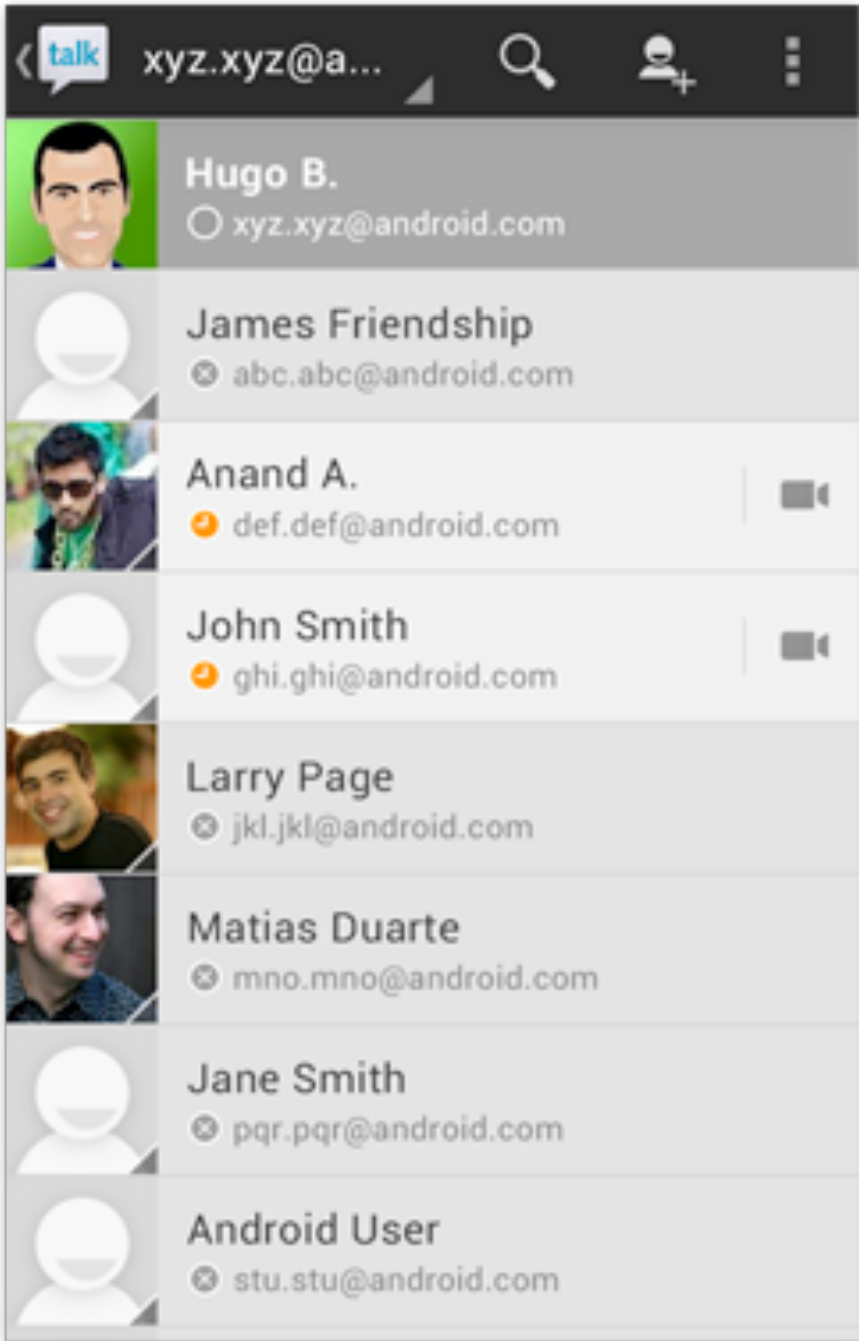
Pick a theme



Light



Dark



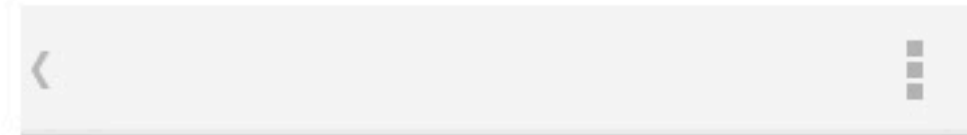
Light
with dark actionbar



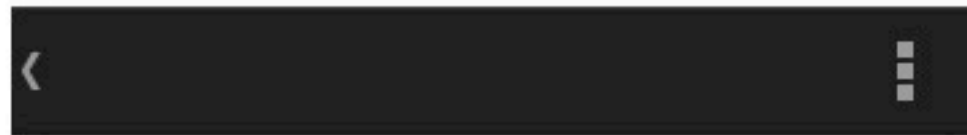
DARK

LIGHT

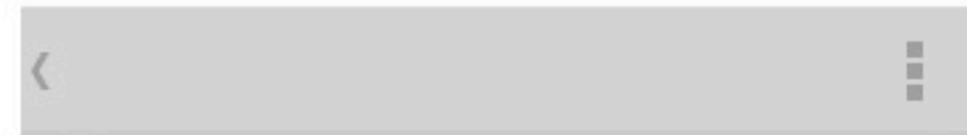
100%



90%



80%



70%



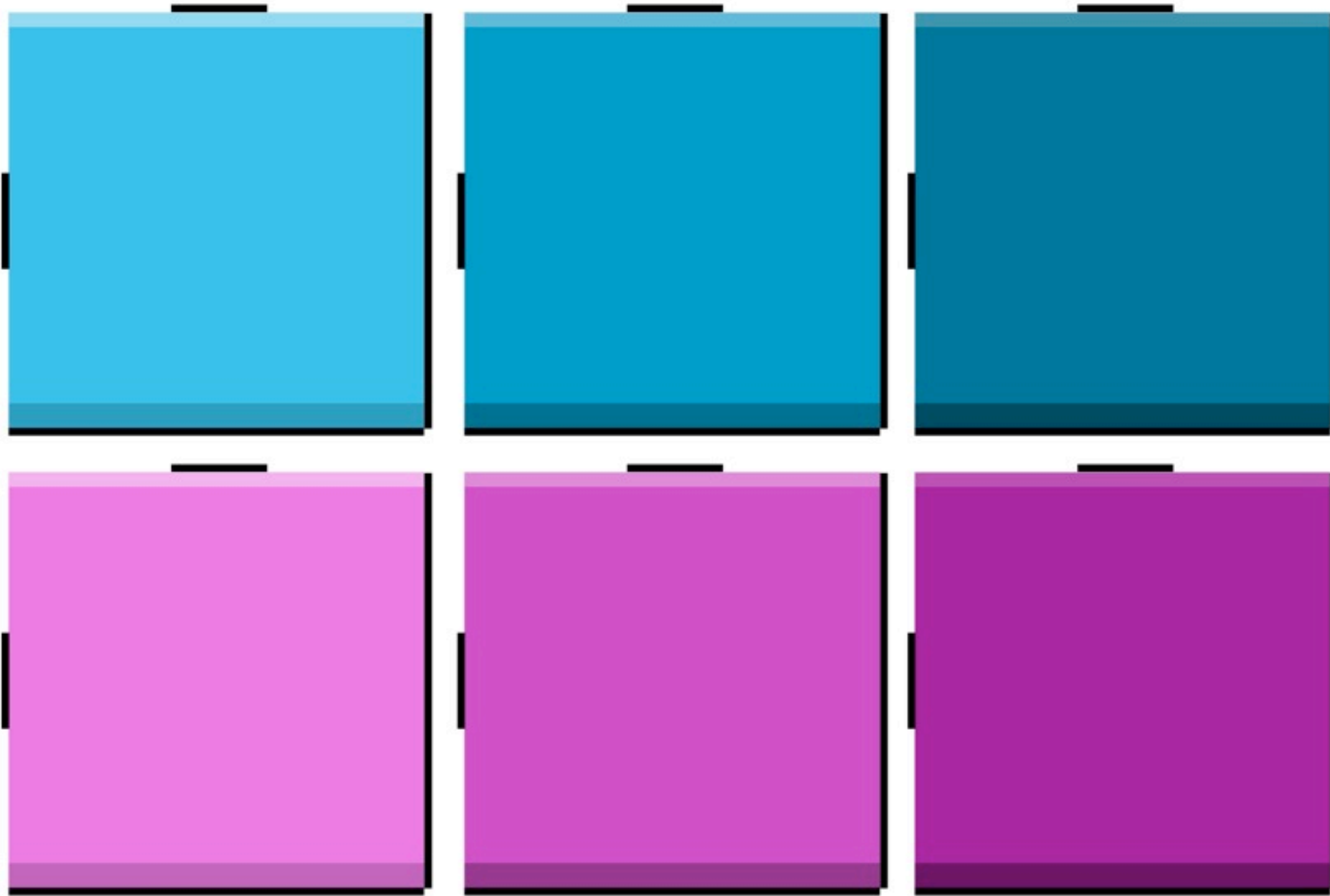
60%

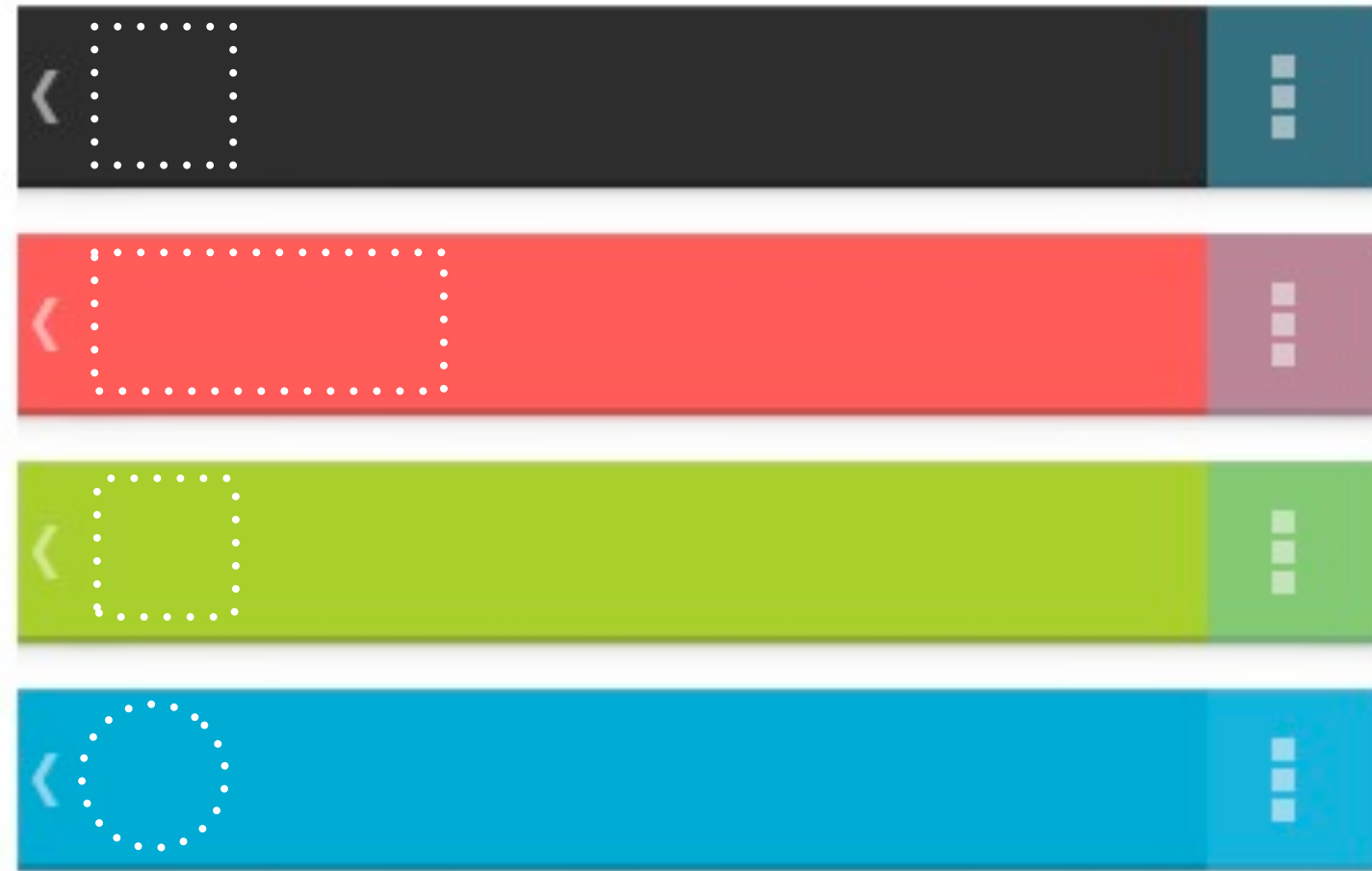


50%



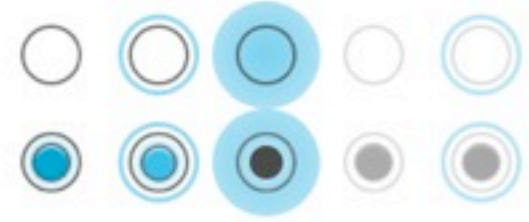






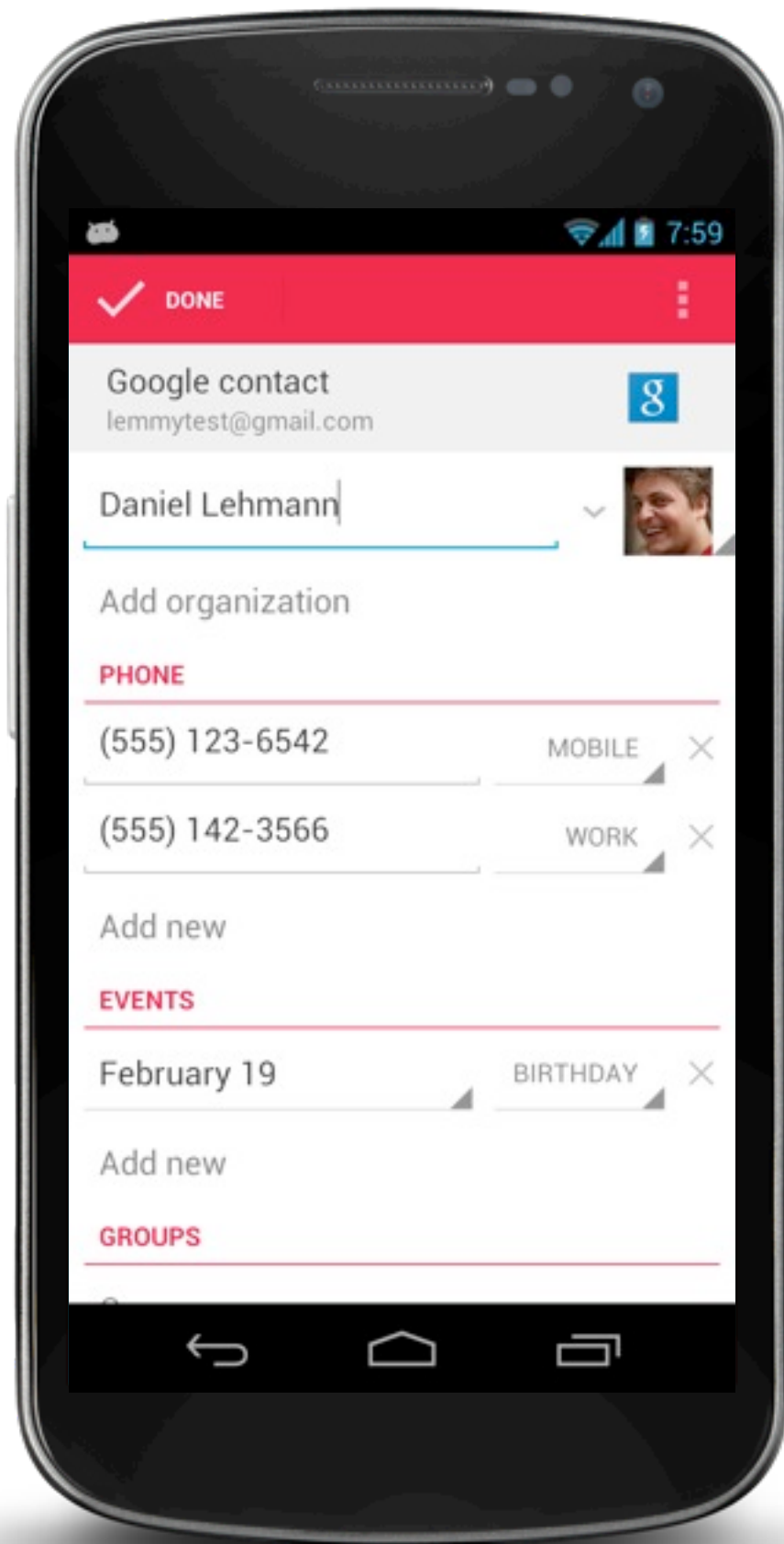


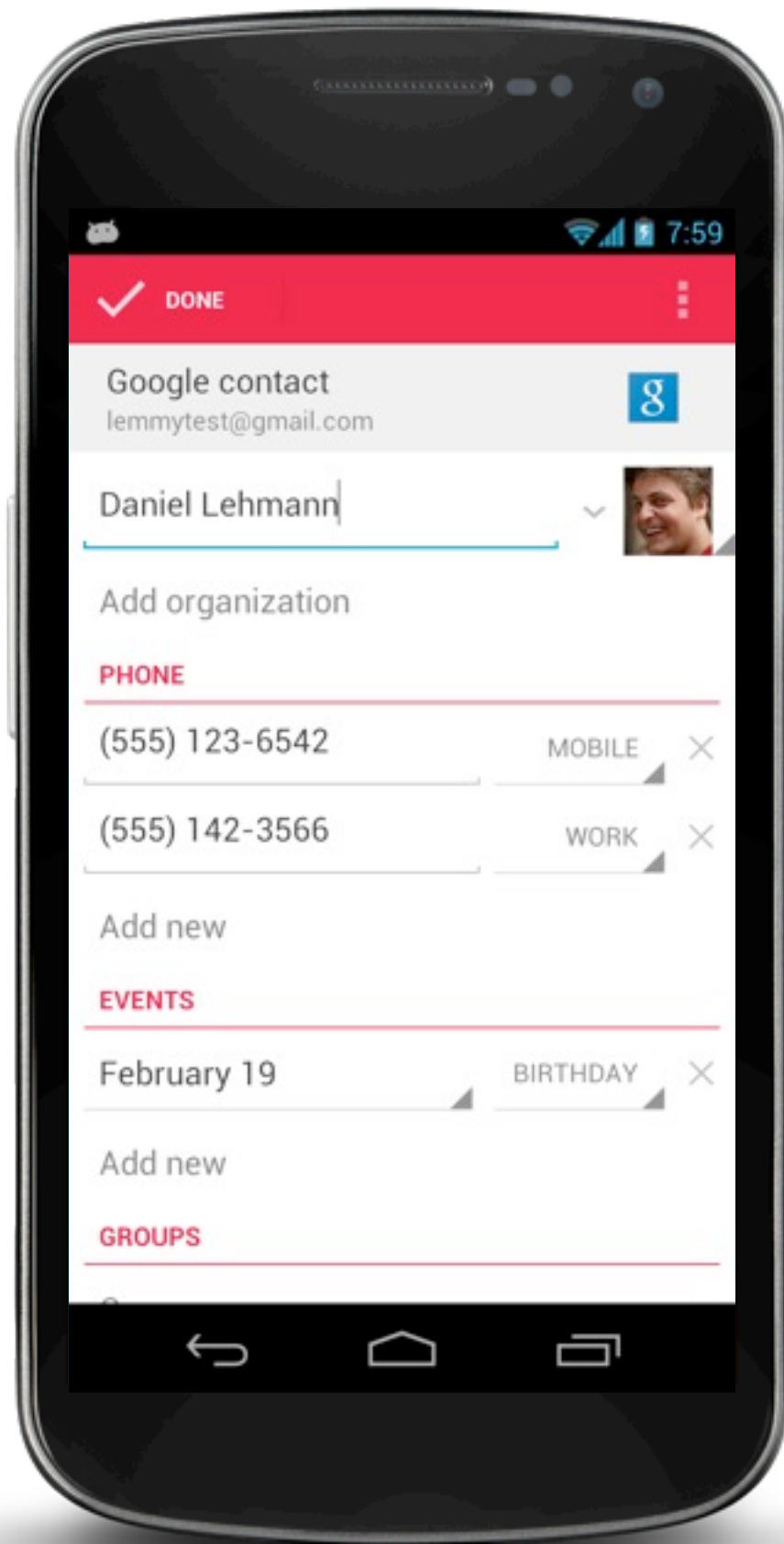
- Normal
- Focused
- Pressed
- Focused disabled
- Disabled



- Normal
- Focused
- Pressed
- Focused disabled
- Disabled







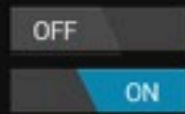
CHECKBOX



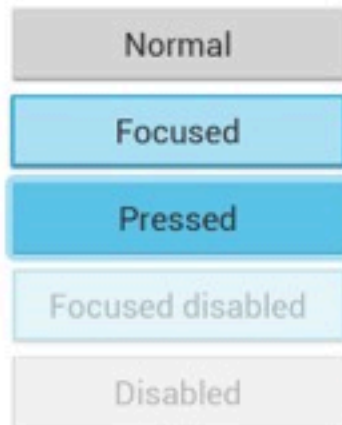
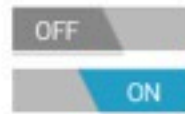
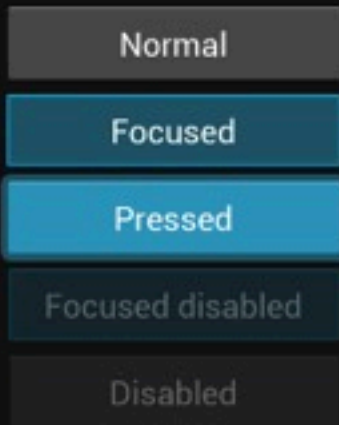
RADIO BUTTON



SWITCHES



DEFAULT BUTTONS



TEXTFIELD

DISABLED

NORMAL

ACTIVATED

PROGRESS BAR

PROGRESS SCRUBBERS

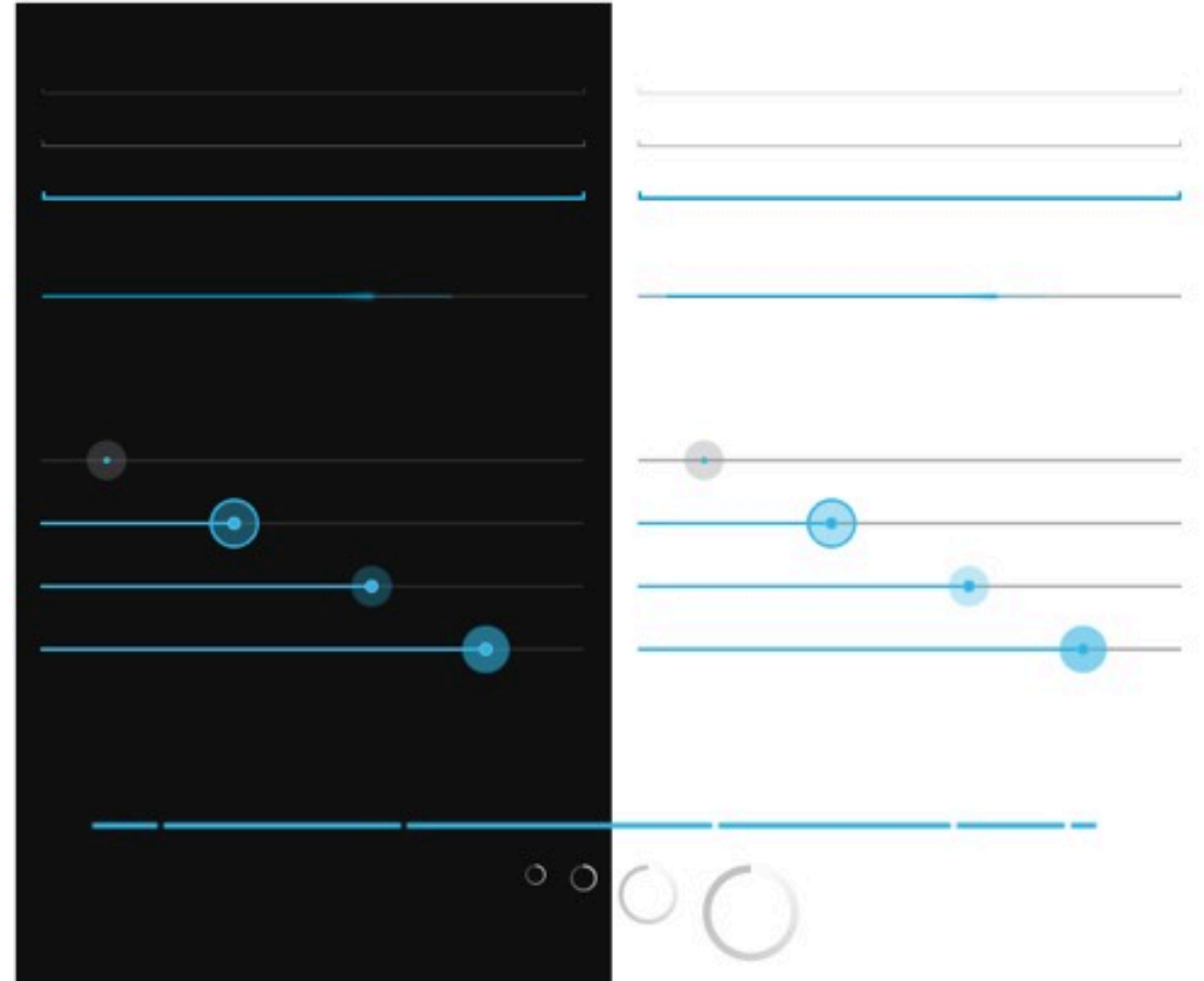
DISABLED

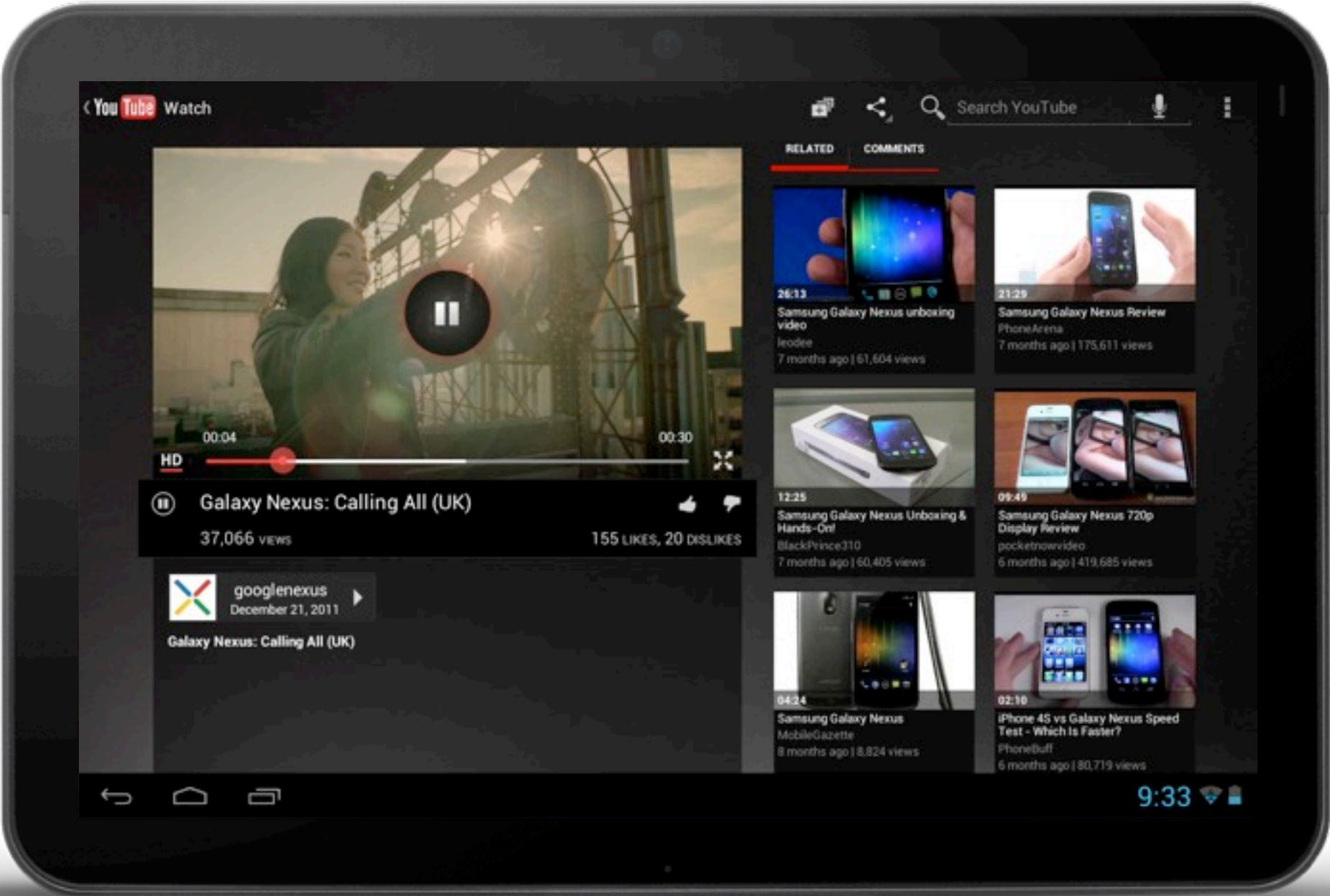
PRESSED

FOCUSED

NORMAL

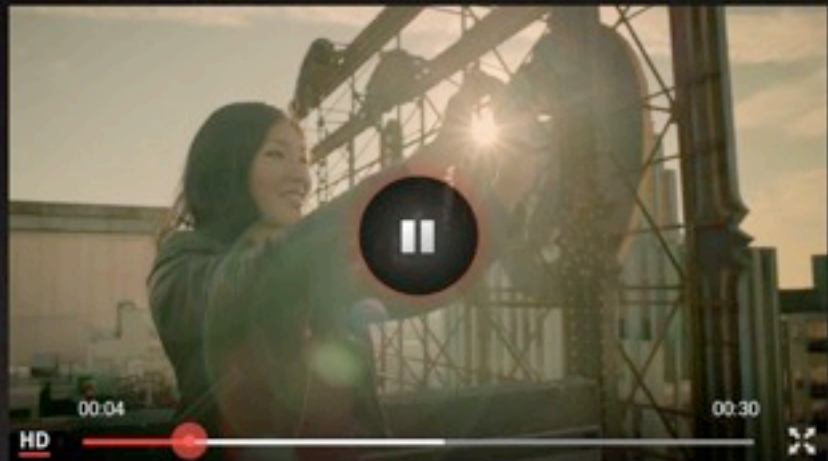
INDETERMINATE
PROGRESS BAR &
SPINNER





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37,066 VIEWS 155 LIKES, 20 DISLIKES

googlenexus
December 21, 2011

Galaxy Nexus: Calling All (UK)

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9:33



Normal
`android:state_pressed="true" android:state_selected="true"`

`android:state_pressed="true"`

Focused
`android:state_focused="true" android:state_selected="true"`



`android:state_focused="true"`

Pressed
`android:state_selected="true"`





```
<selector xmlns:android="http://schemas.android.com/apk/res/android">
  <item
    android:state_pressed="true" android:state_selected="true"
    android:drawable="@drawable/my_item_selected_pressed"/>
  <item
    android:state_pressed="true"
    android:drawable="@drawable/my_item_unselected_pressed"/>
  <item
    android:drawable="@drawable/my_item_selected_focused"/>
    android:state_focused="true" android:state_selected="true"
  <item
    android:drawable="@drawable/my_item_unselected_focused"/>
    android:state_focused="true"
  <item
    android:state_selected="true"
    android:drawable="@drawable/my_item_selected"/>
  <item
    android:state_selected="true"
    android:drawable="@drawable/my_item_unselected"/>
</selector>
```



2:53 PM

Wednesday, June 20

 Set alarm



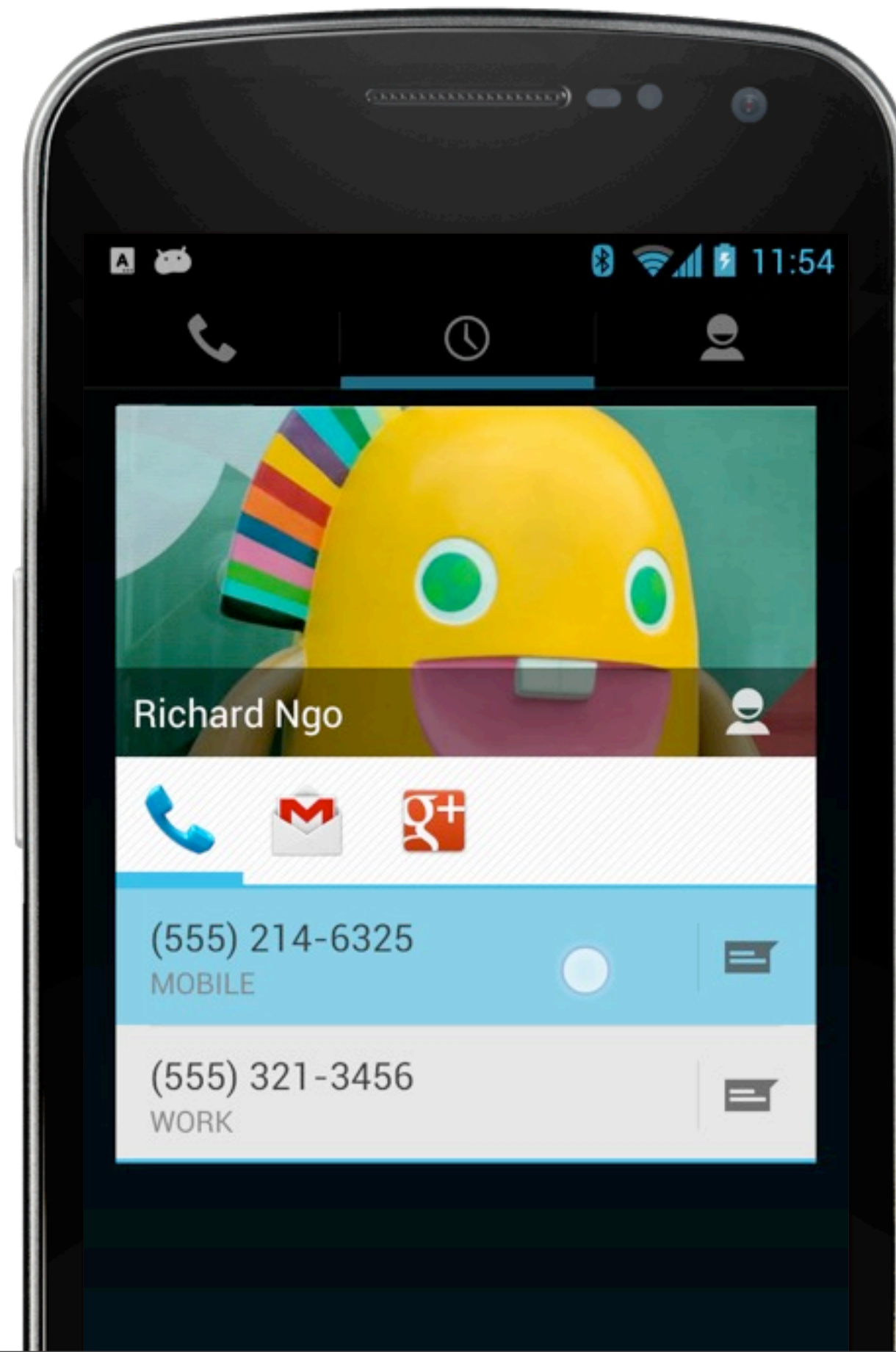
Standard Selector

```
android:background="?android:attr/selectableItemBackground"
```



How to test?

- Touch and hold



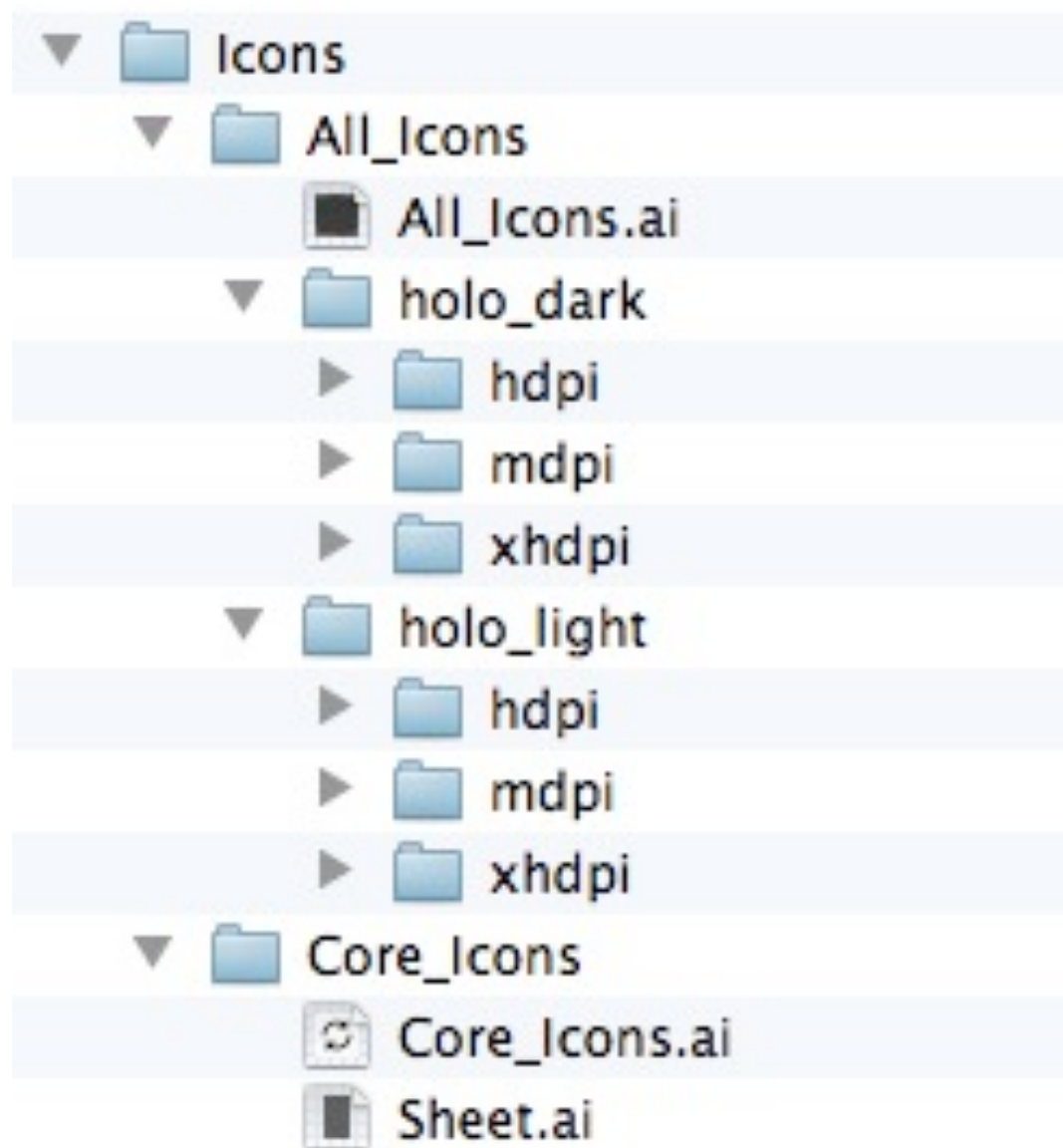
How to test?

- Device with hardware keyboard
- Bluetooth keyboard



Iconography





Be aware of system icons

Android 4.0 Core Icon Set

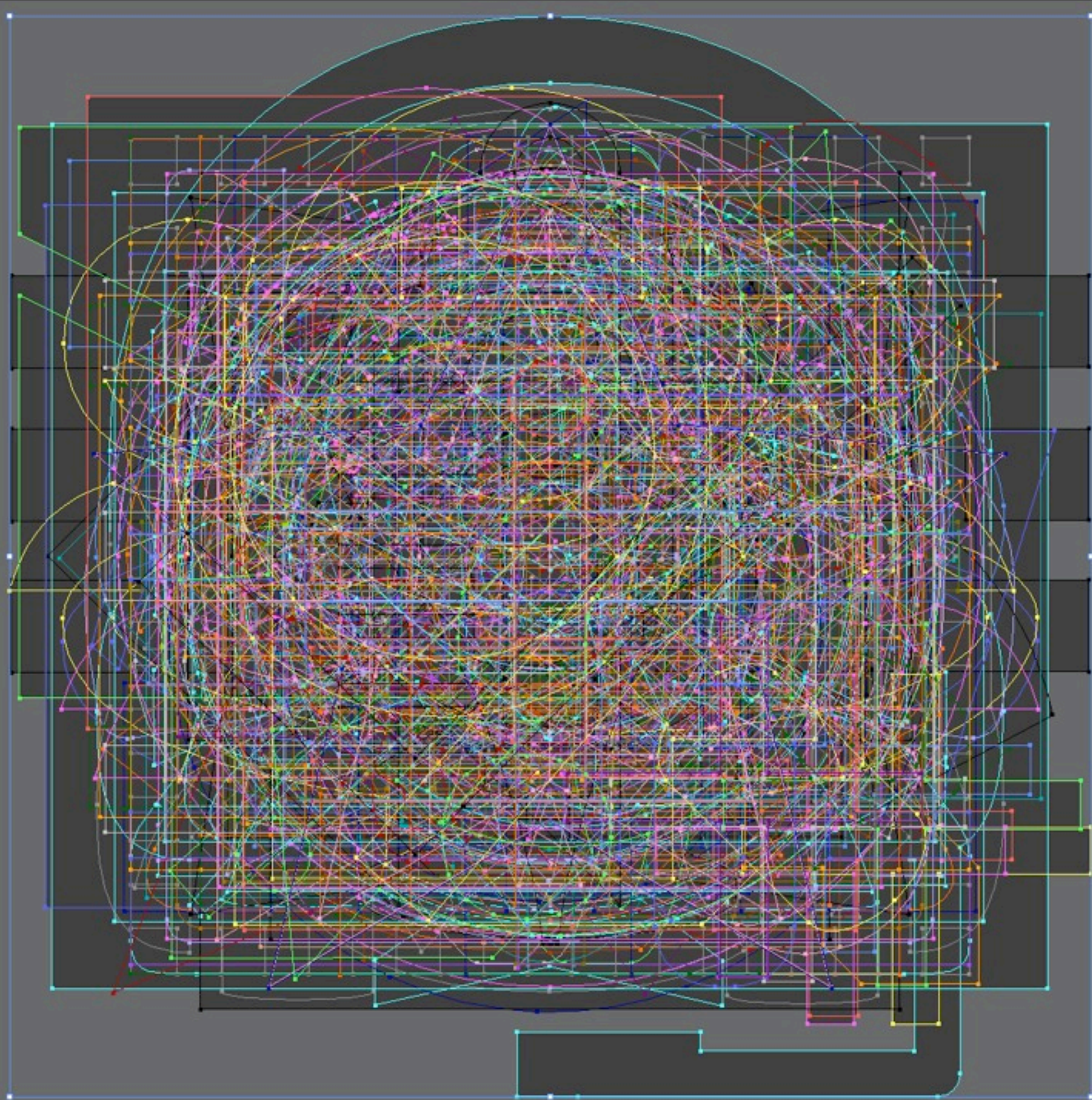


Creating data

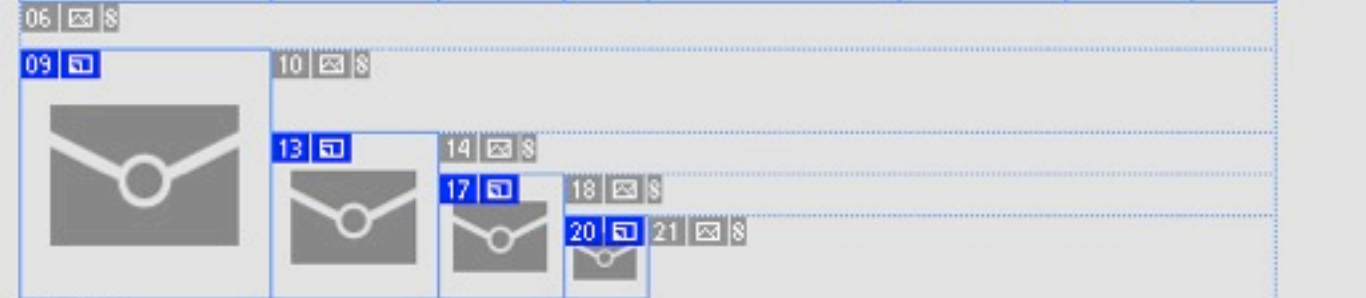
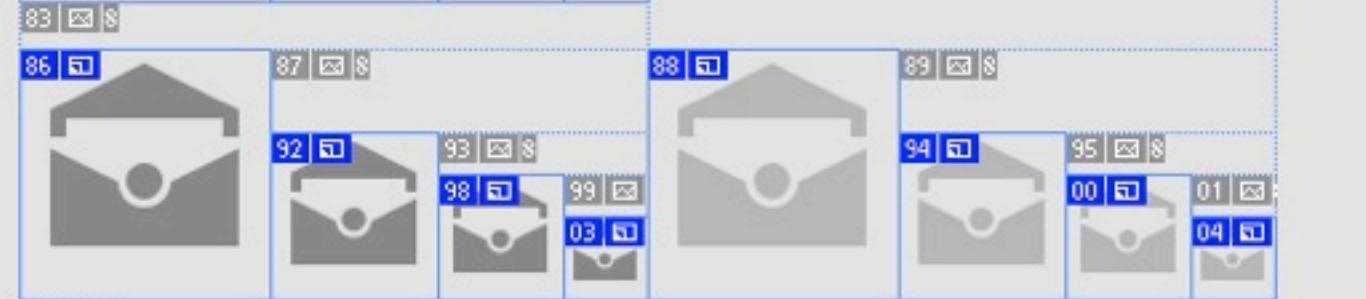
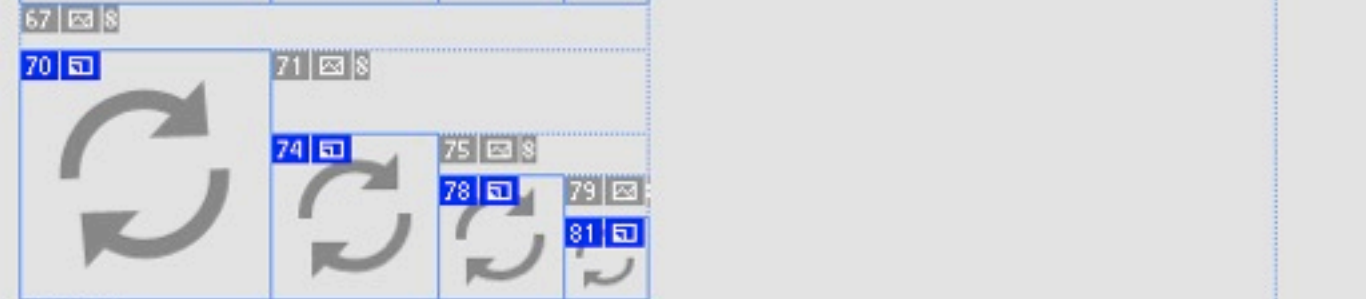
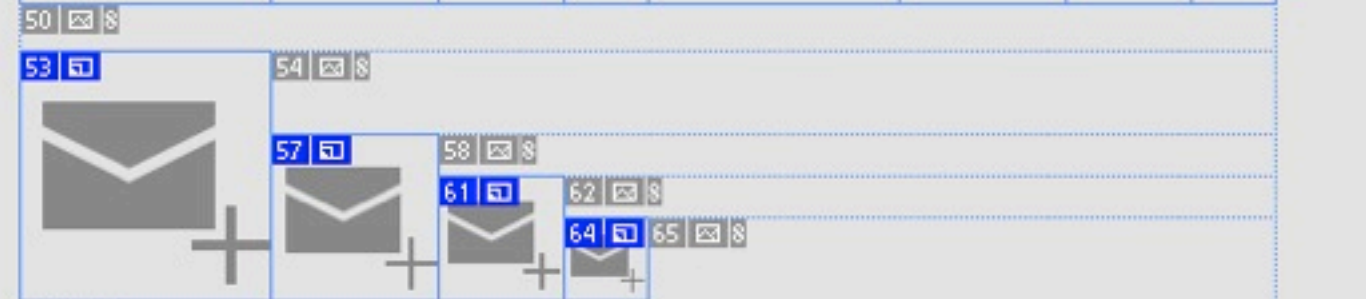
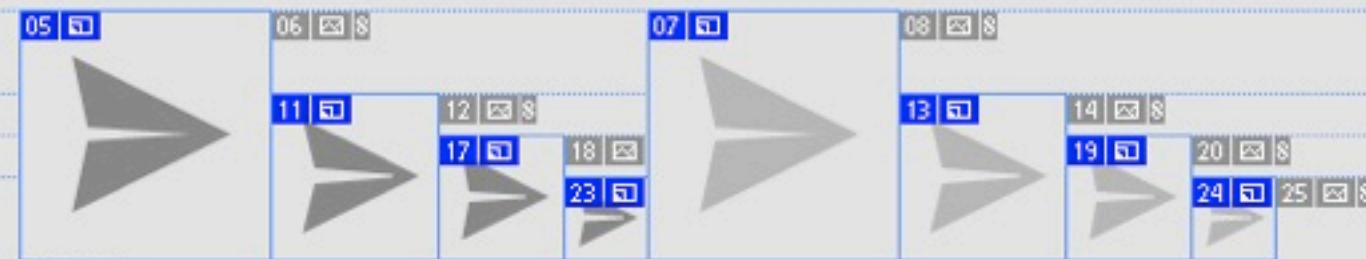
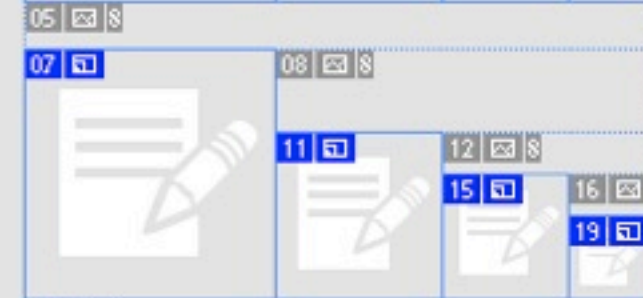
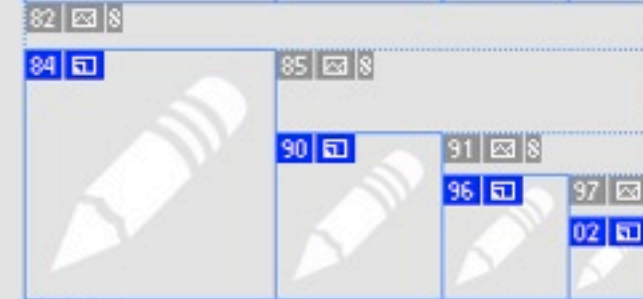
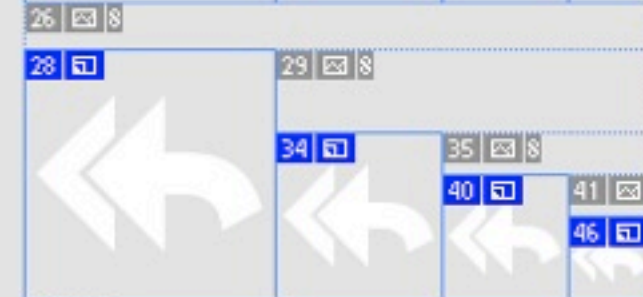
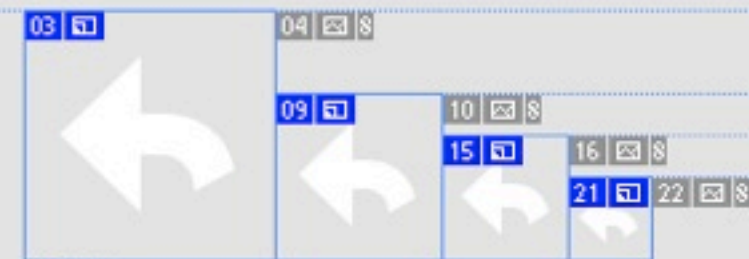


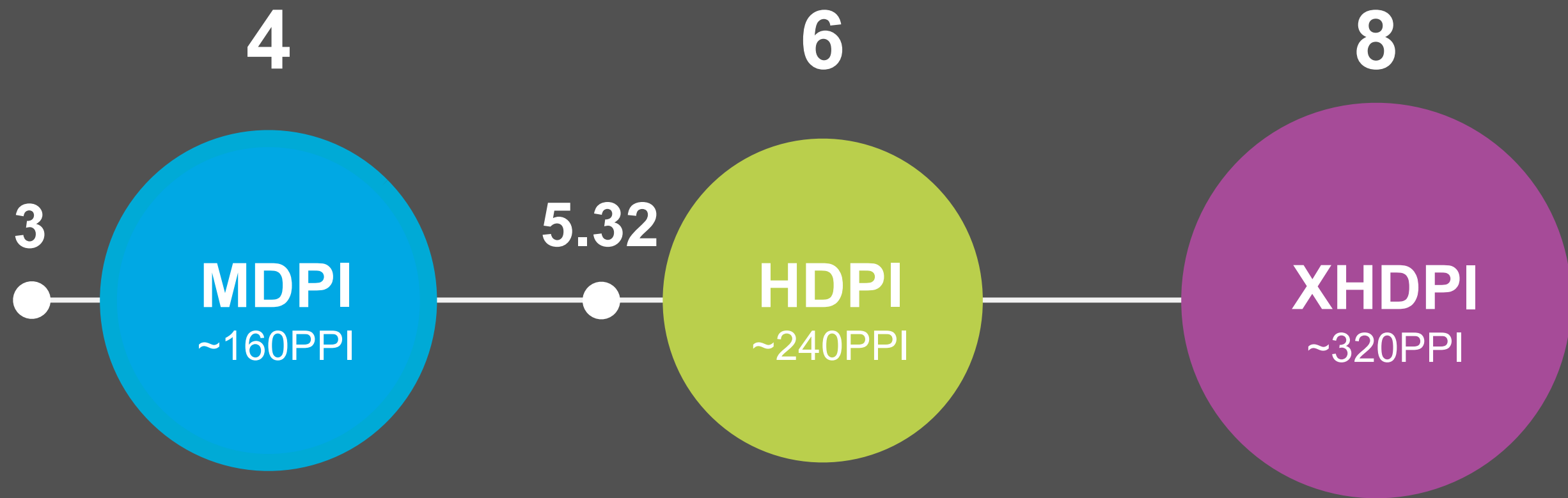
Creating data is an important part of the user experience. It makes the user aware of the data they are creating. Showing the user how to create data is an important part of the user experience.











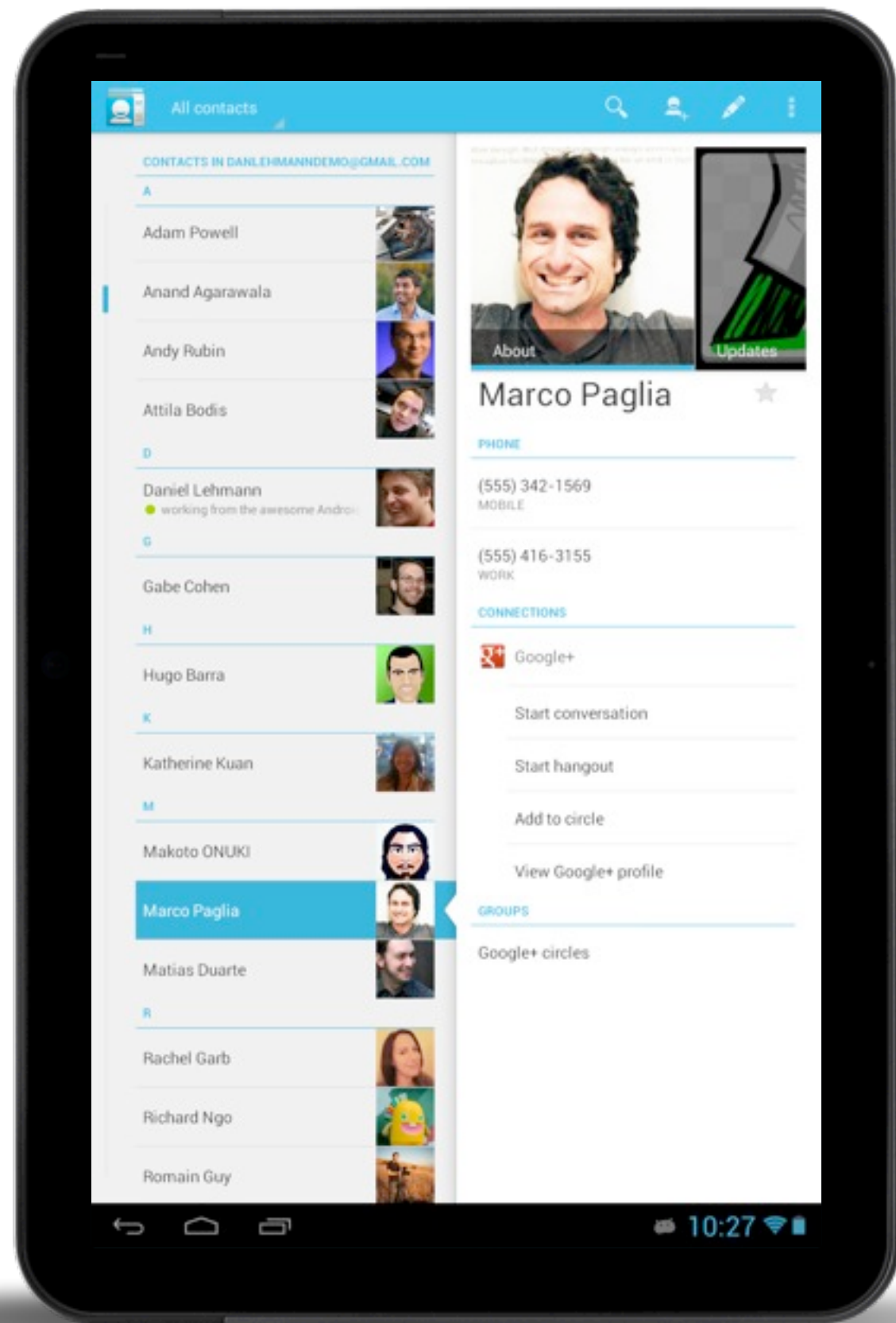
Fragments



Motivation

Why use Fragments instead of container views?





- CONTACTS IN DANLEH@MANDEMO@GMAIL.COM
- A**
- Adam Powell
 - Anand Agarawala
 - Andy Rubin
 - Attila Bodis
- D**
- Daniel Lehmann
working from the awesome Android
- G**
- Gabe Cohen
- H**
- Hugo Barra
- K**
- Katherine Kuan
- M**
- Makoto ONUKI
 - Marco Paglia**
 - Matias Duarte
- R**
- Rachel Garb
 - Richard Ngo
 - Romain Guy



About Updates

Marco Paglia ★

PHONE

(555) 342-1569
MOBILE

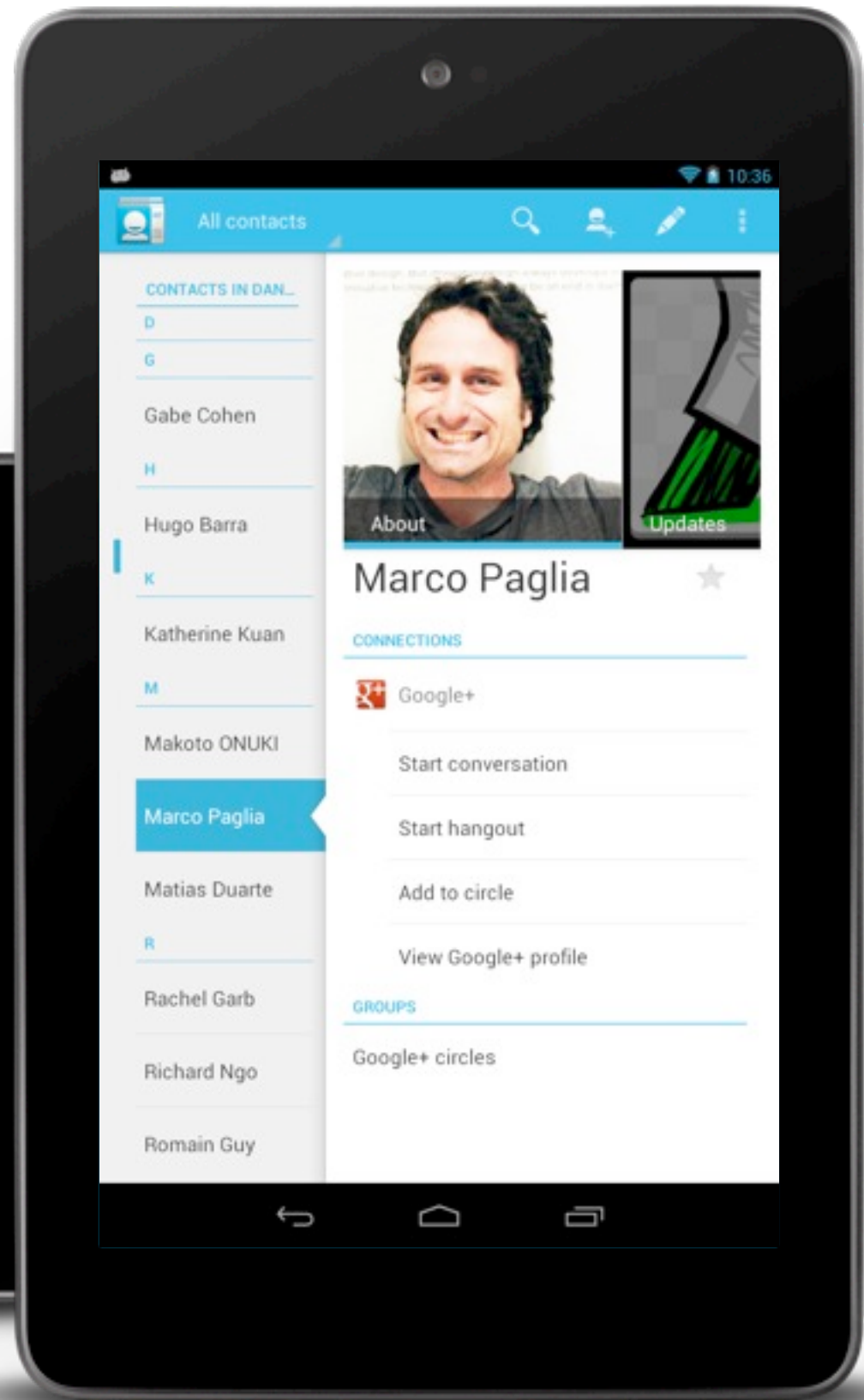
(555) 416-3155
WORK

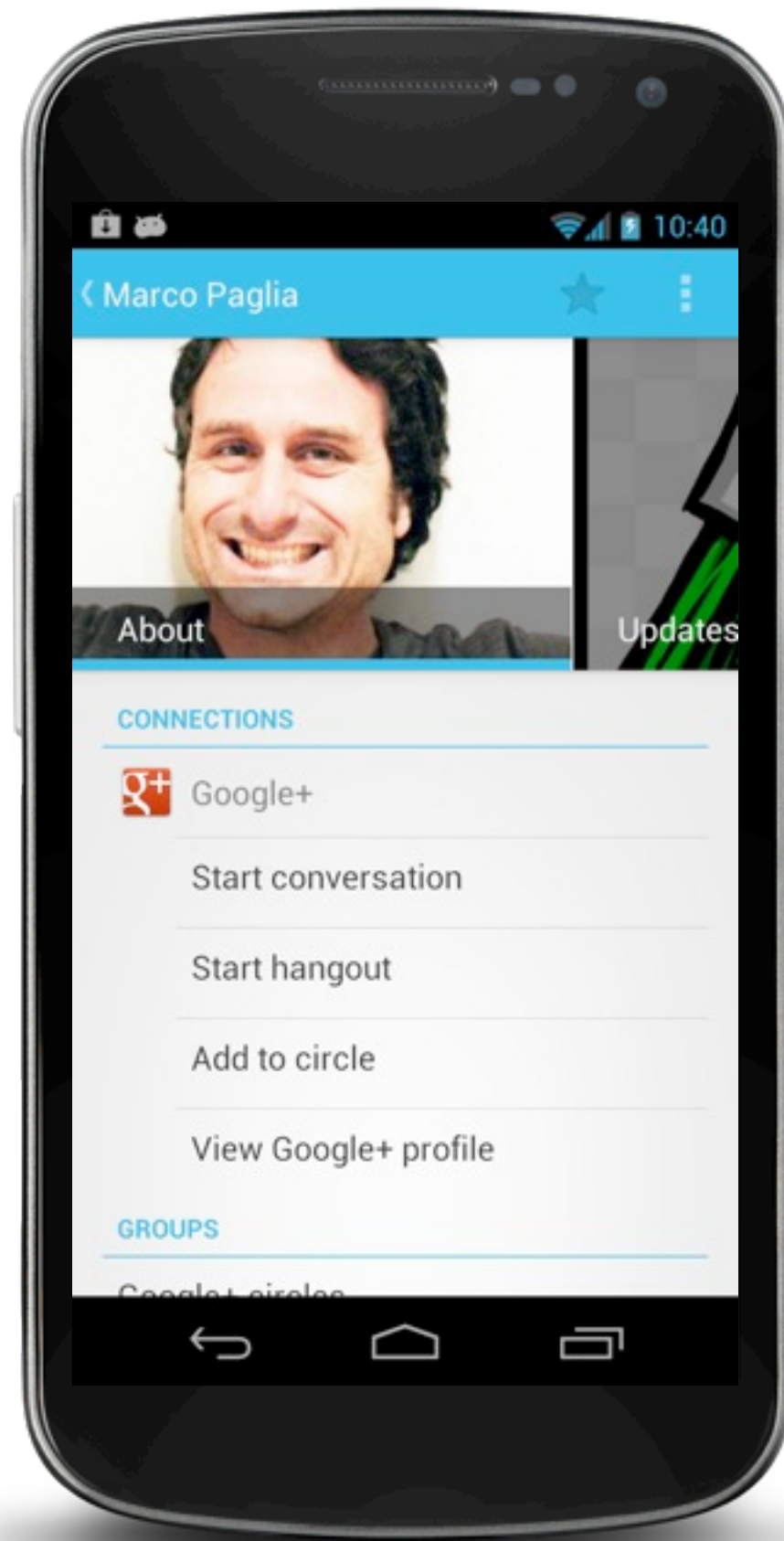
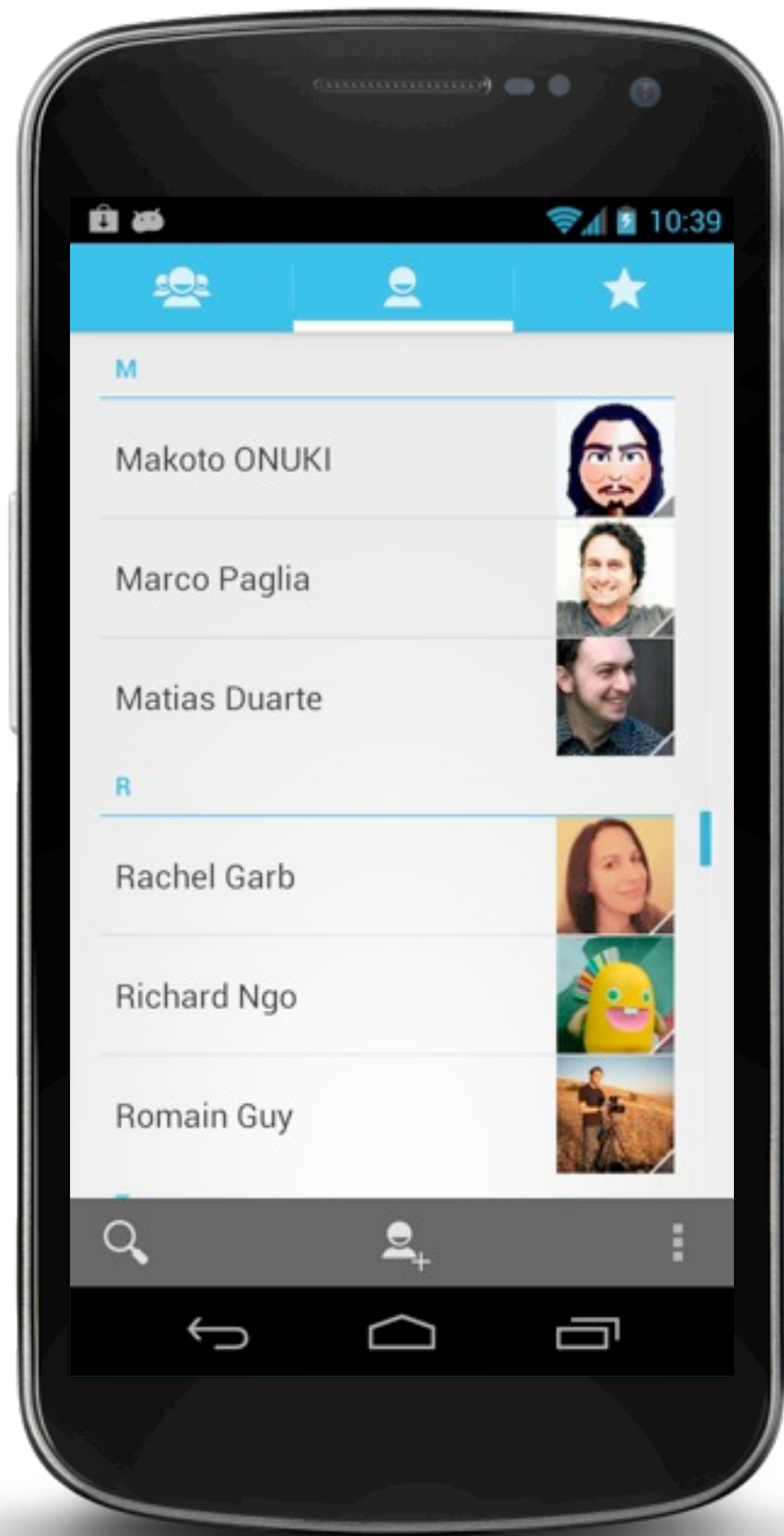
CONNECTIONS

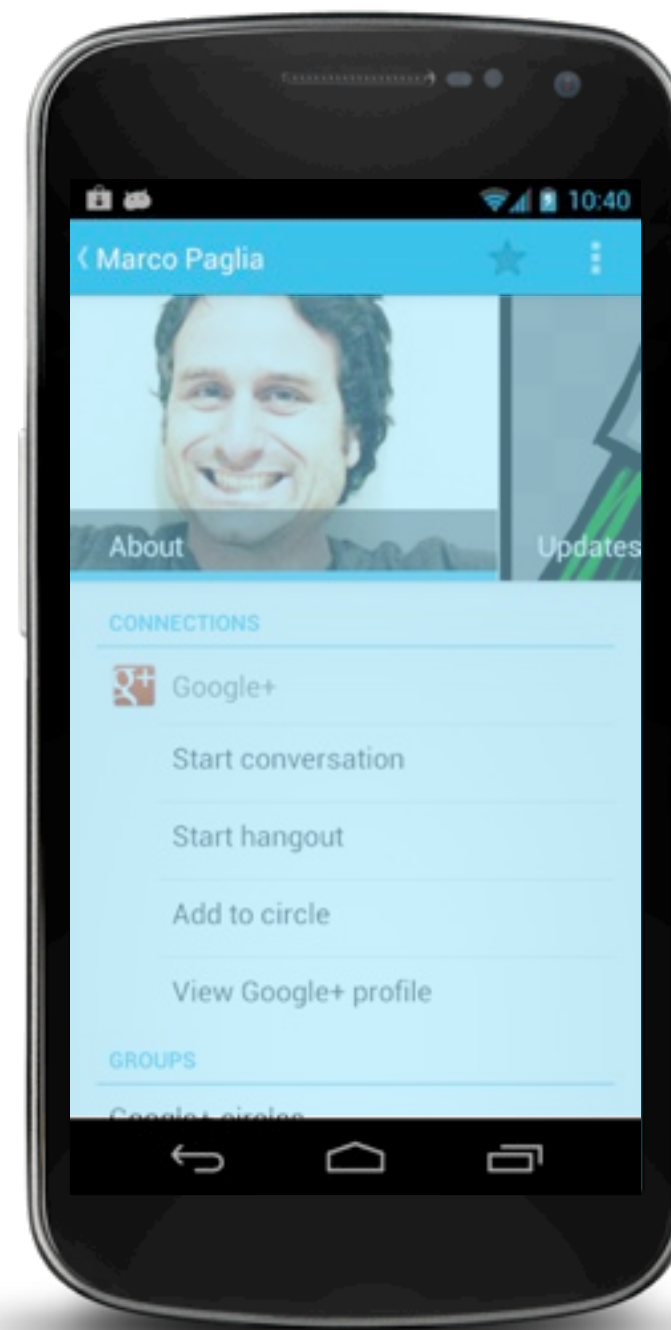
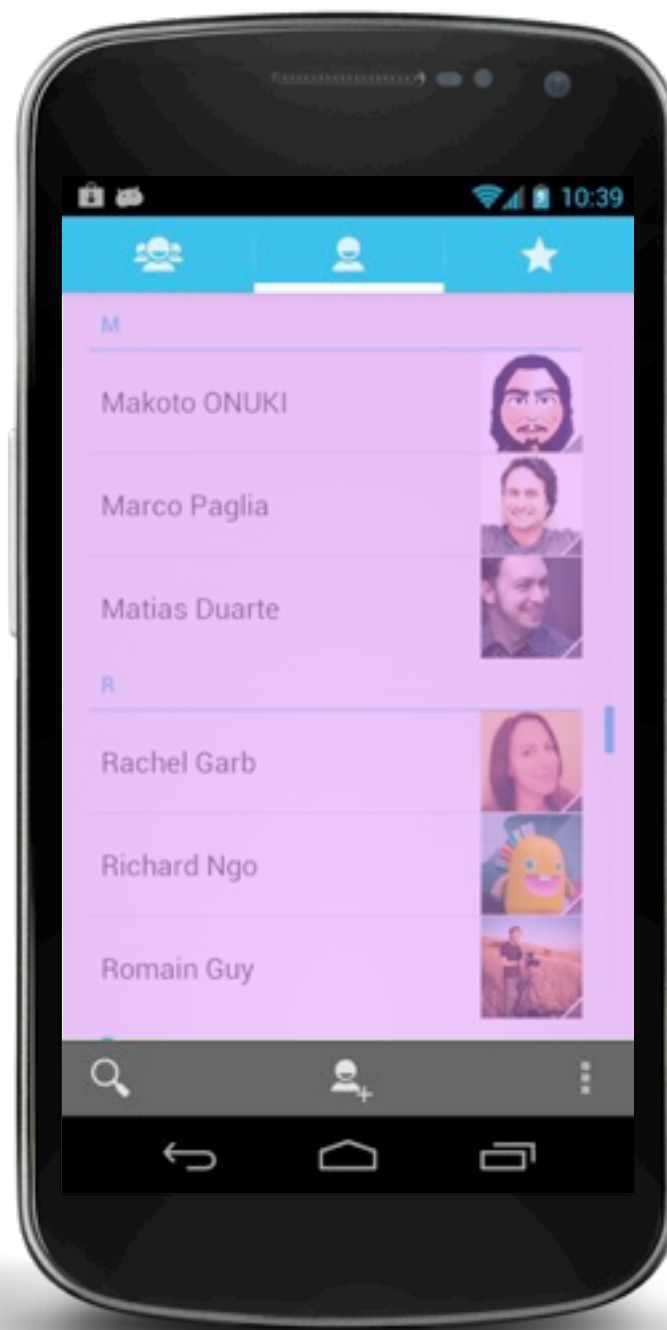
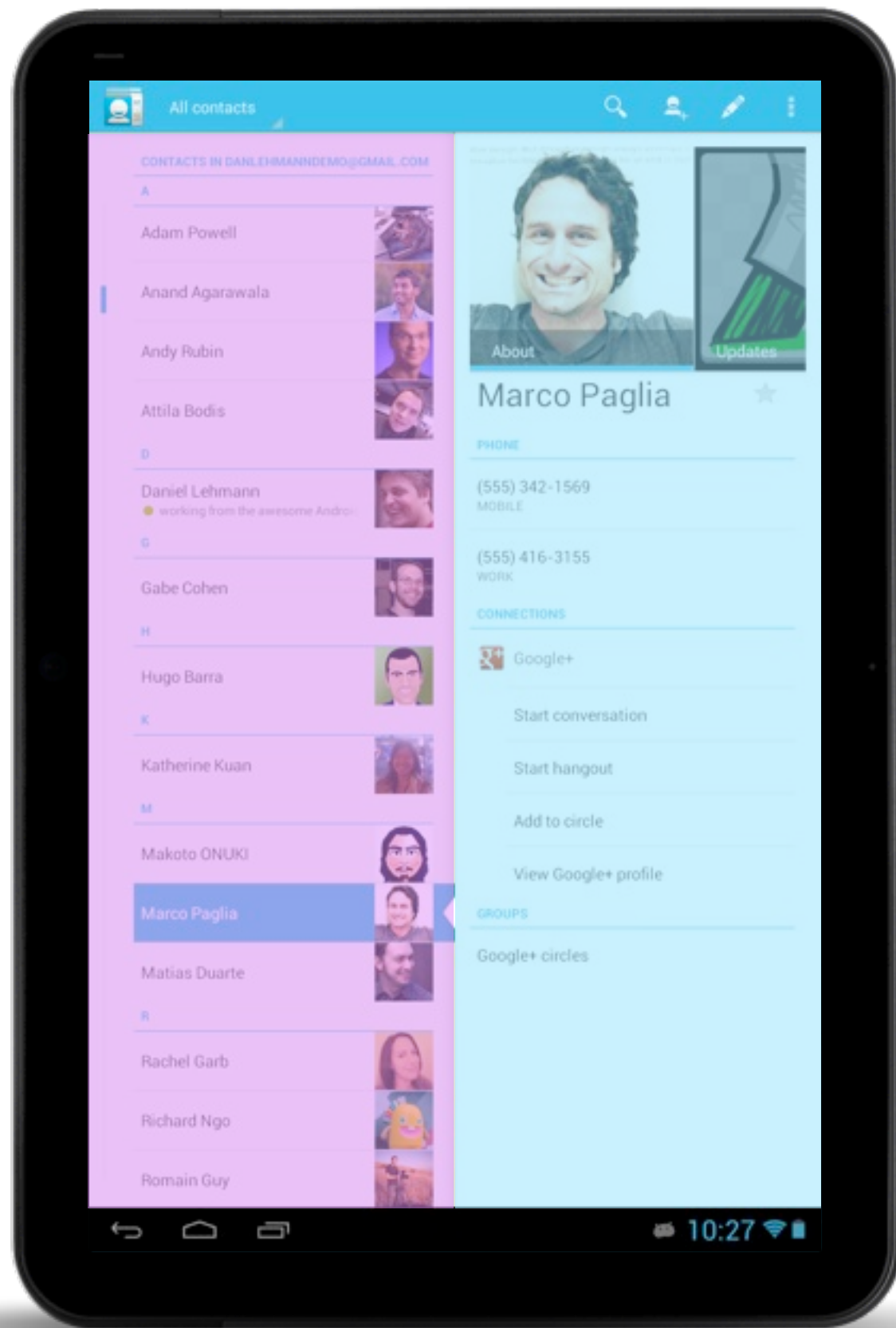
- Google+
- Start conversation
- Start hangout
- Add to circle
- View Google+ profile

GROUPS

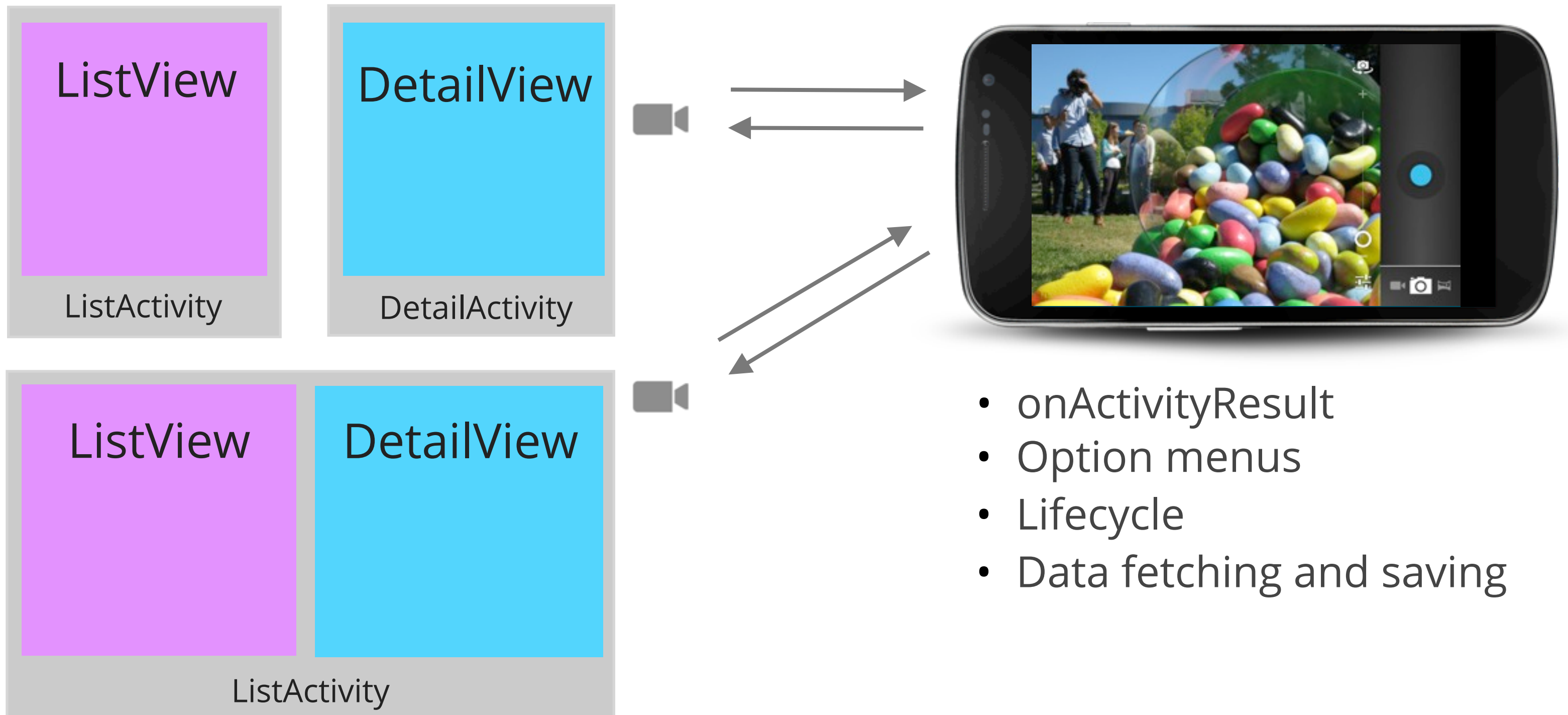
Google+ circles



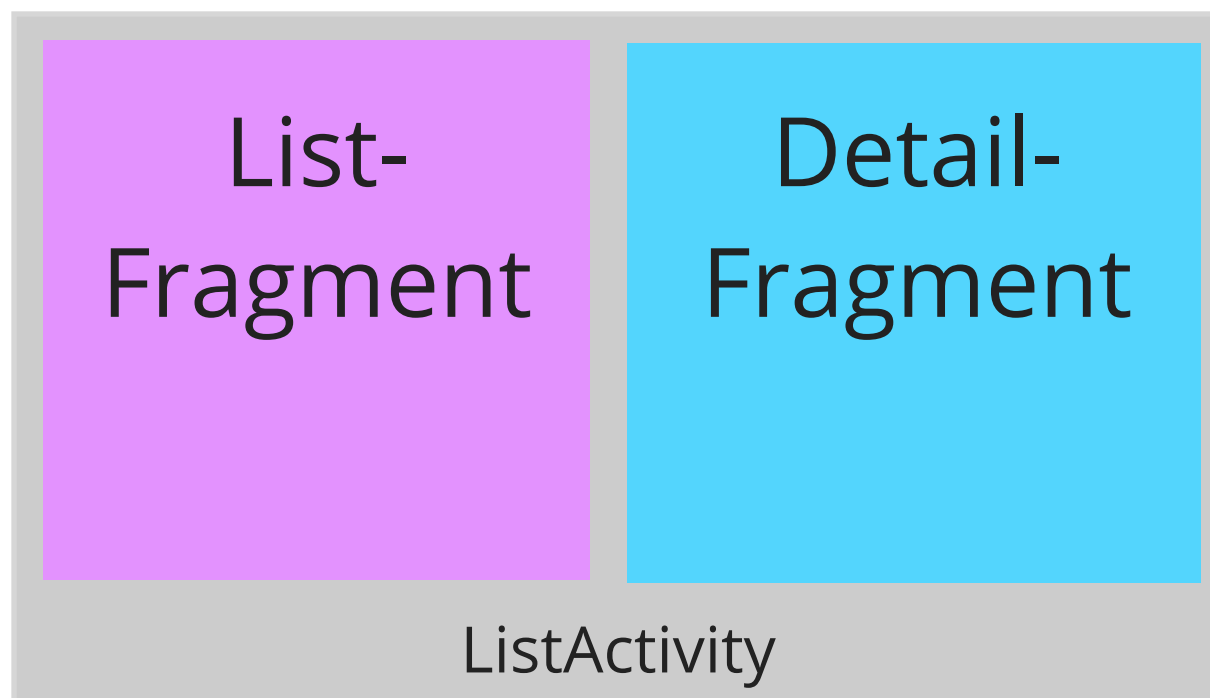
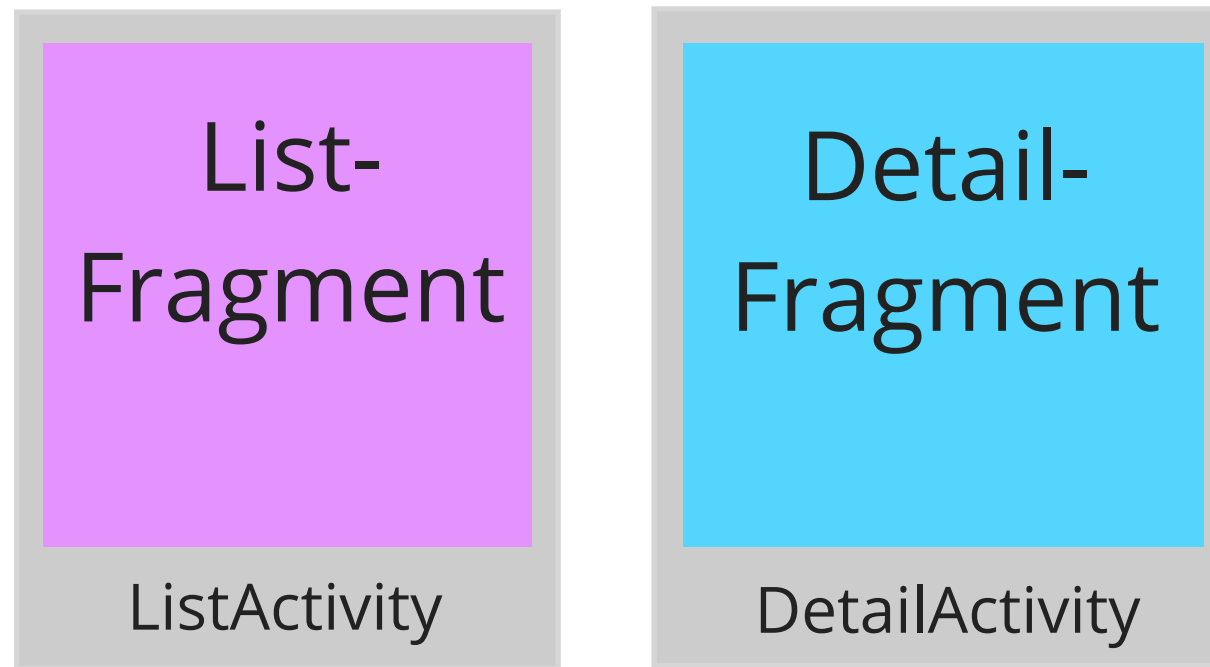


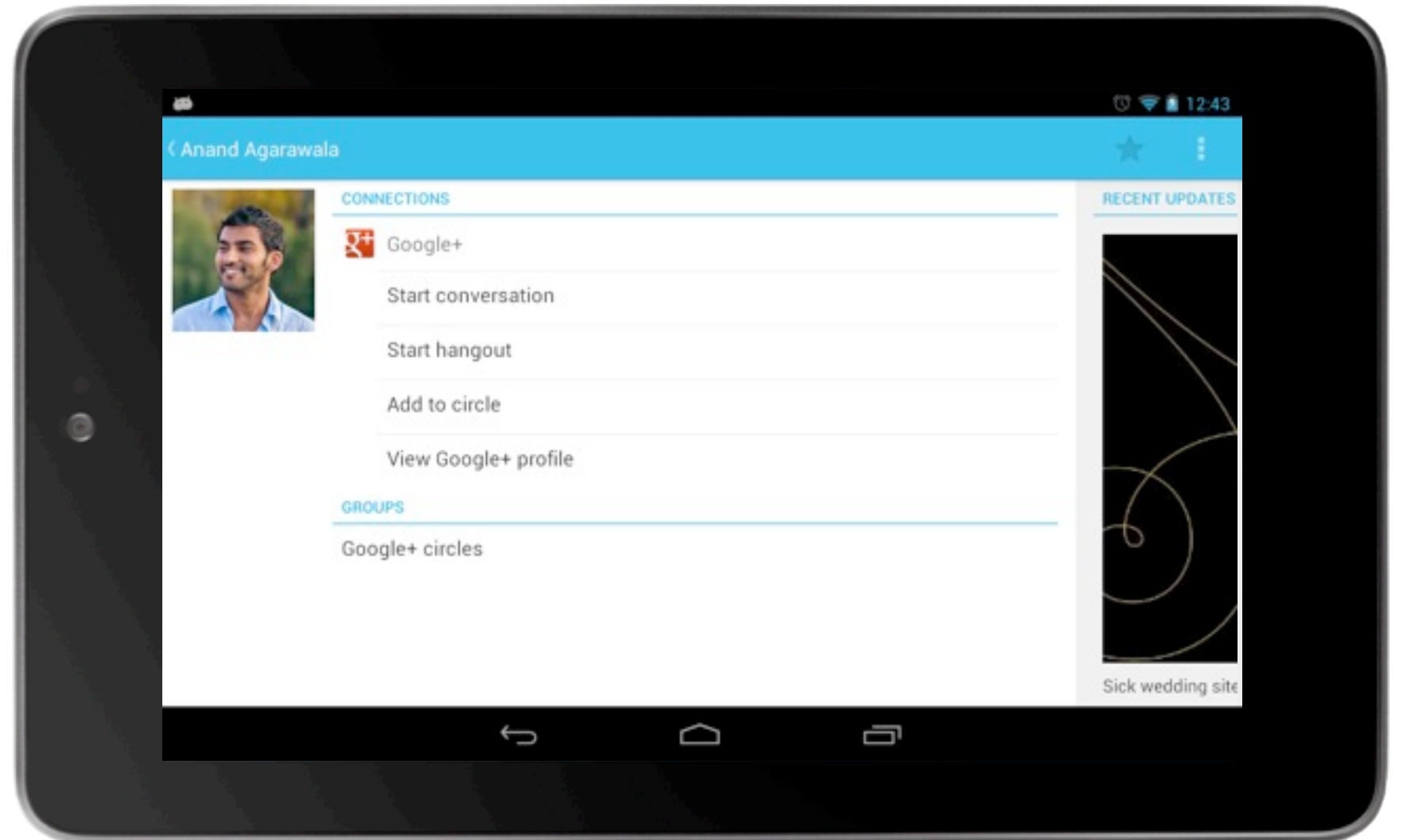
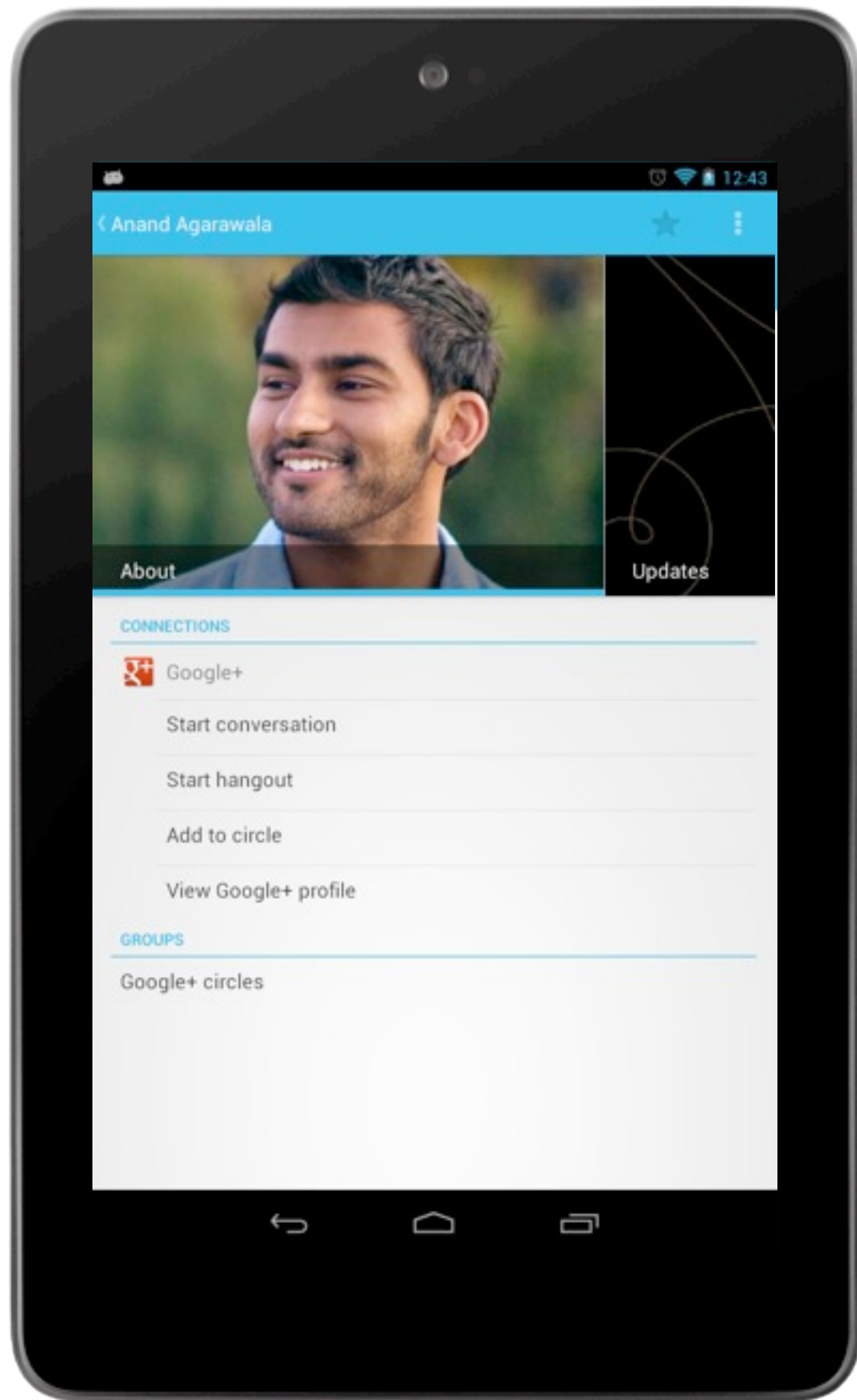


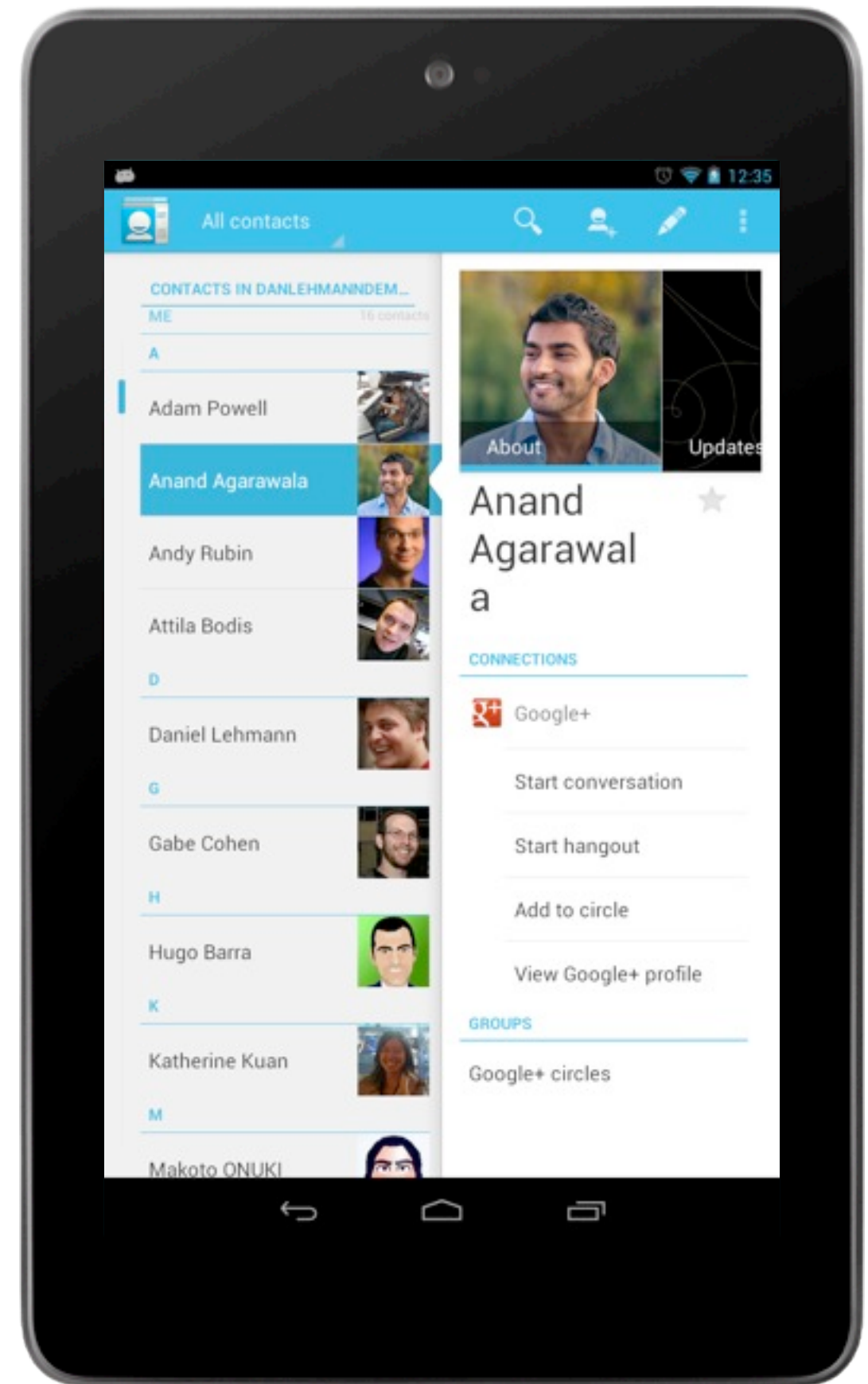
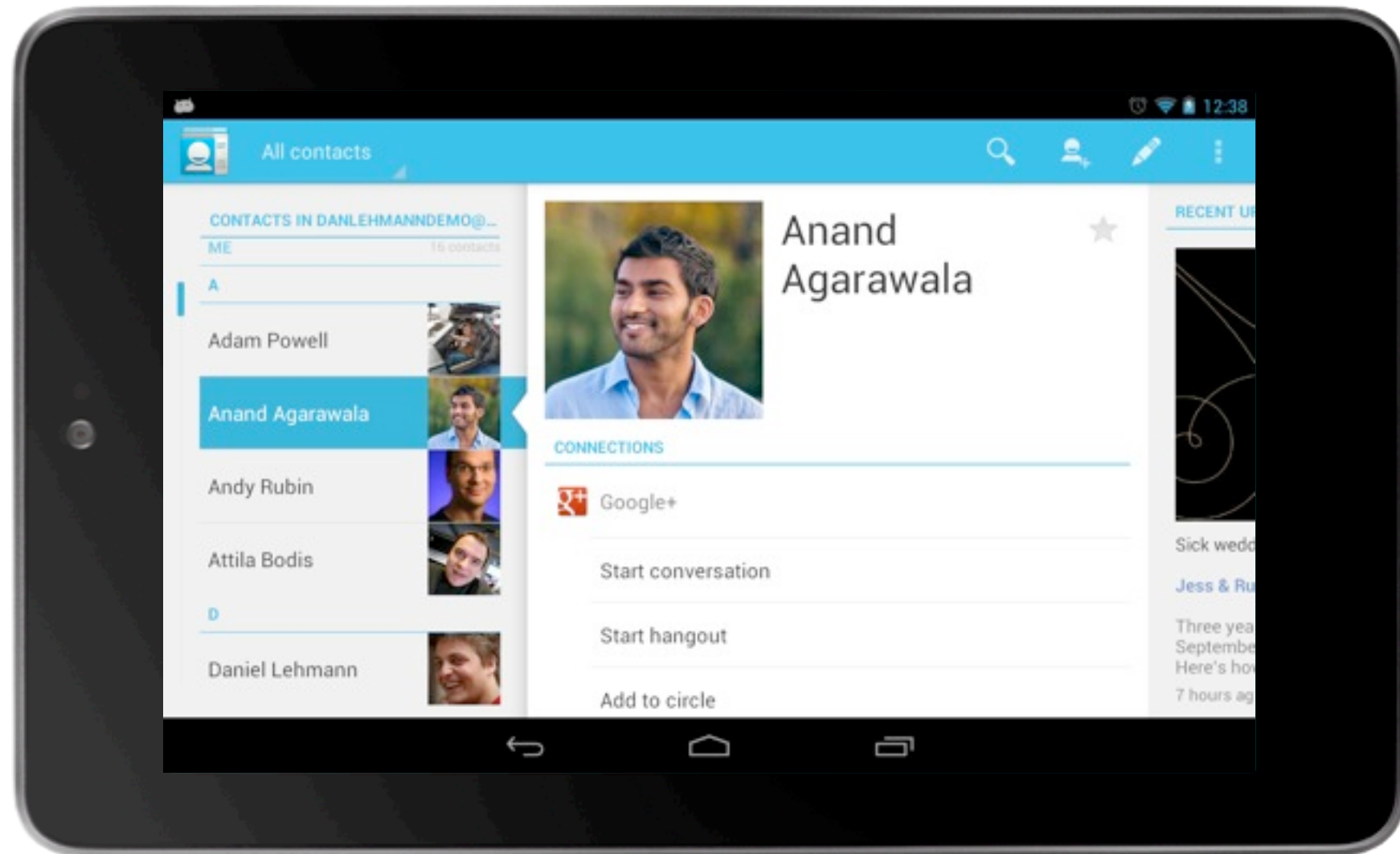
Implementation using Activity+View

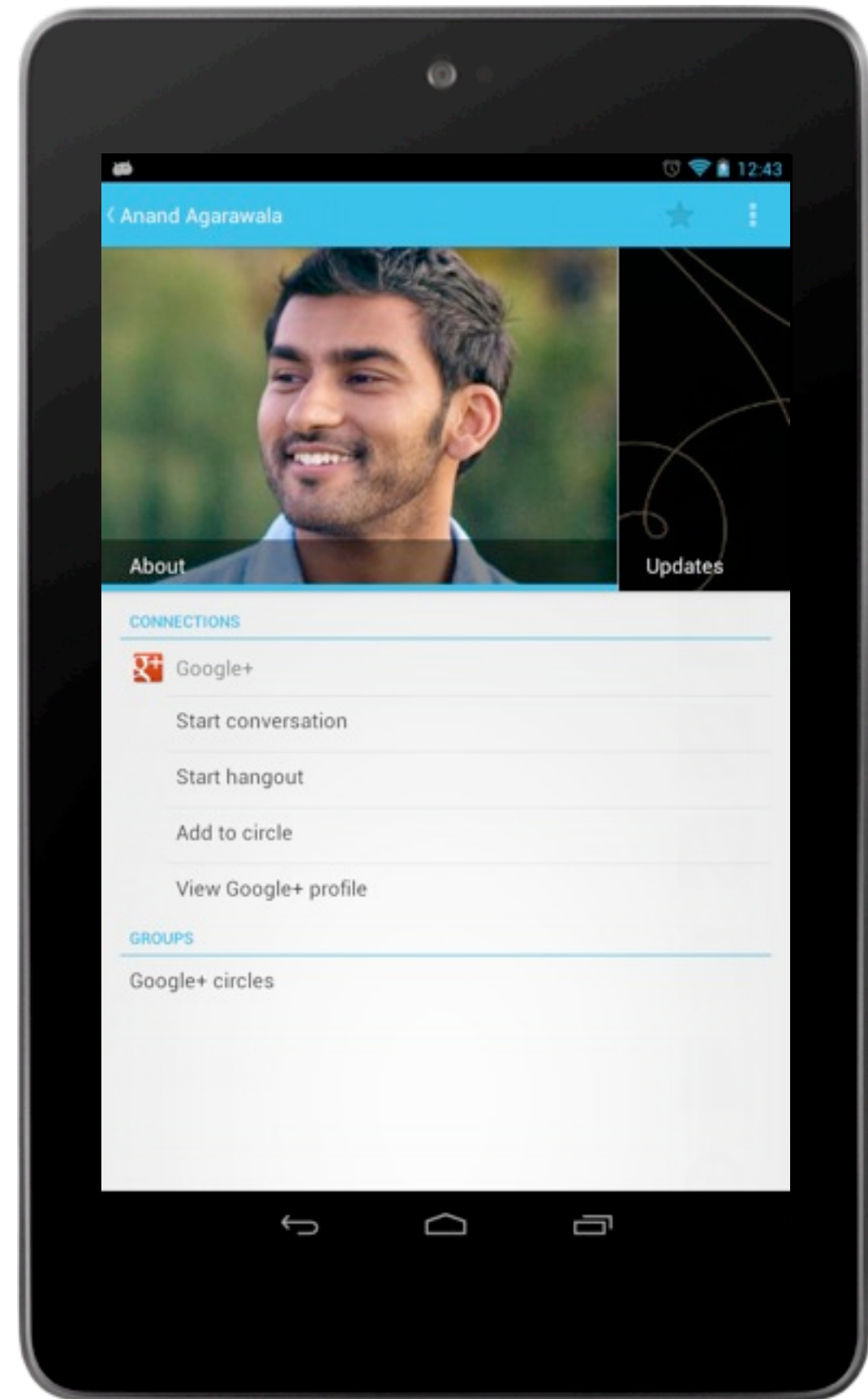
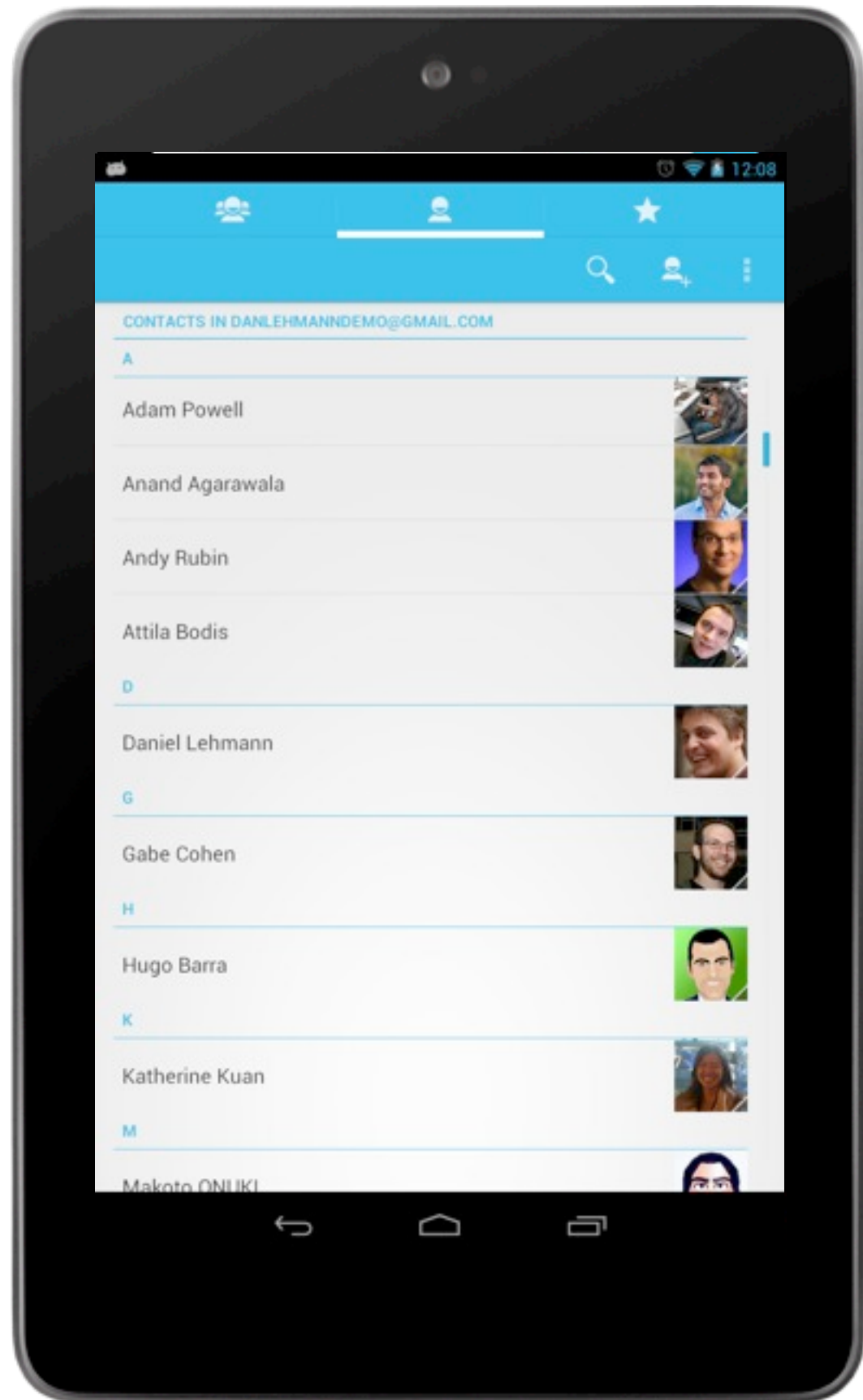


Fragments









Rotational stability

- Don't change number of panes during runtime



Testing layouts



First option

You might expense a lot of devices ;-)

(thanks)



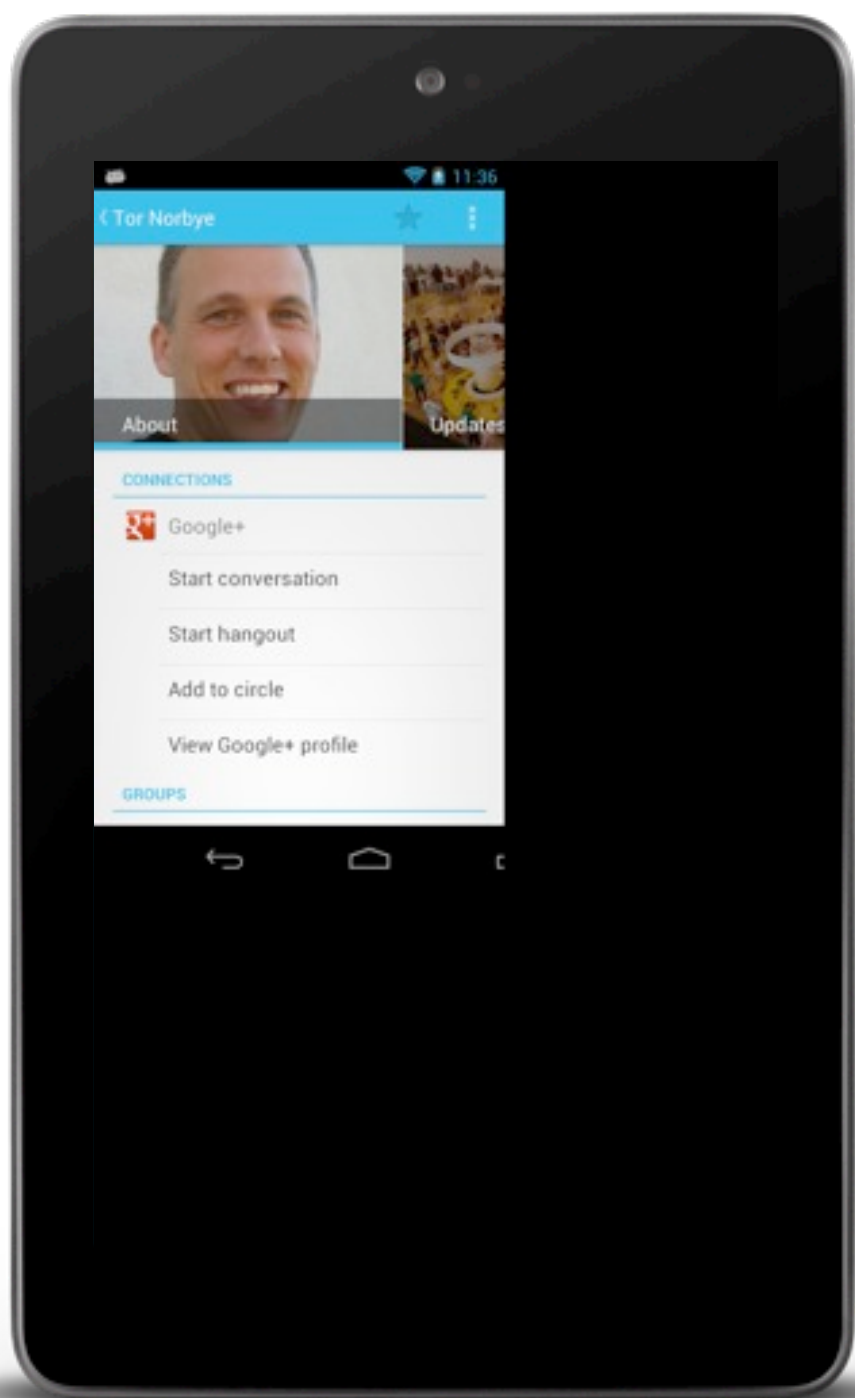
Second option

Simulate a small device in a big device





```
adb shell am display-size 1024x768
```



adb shell am display-size 852x480

Small device simulation demo

Limitations

- Can not change density
- Some limitations when crossing device buckets

Reset

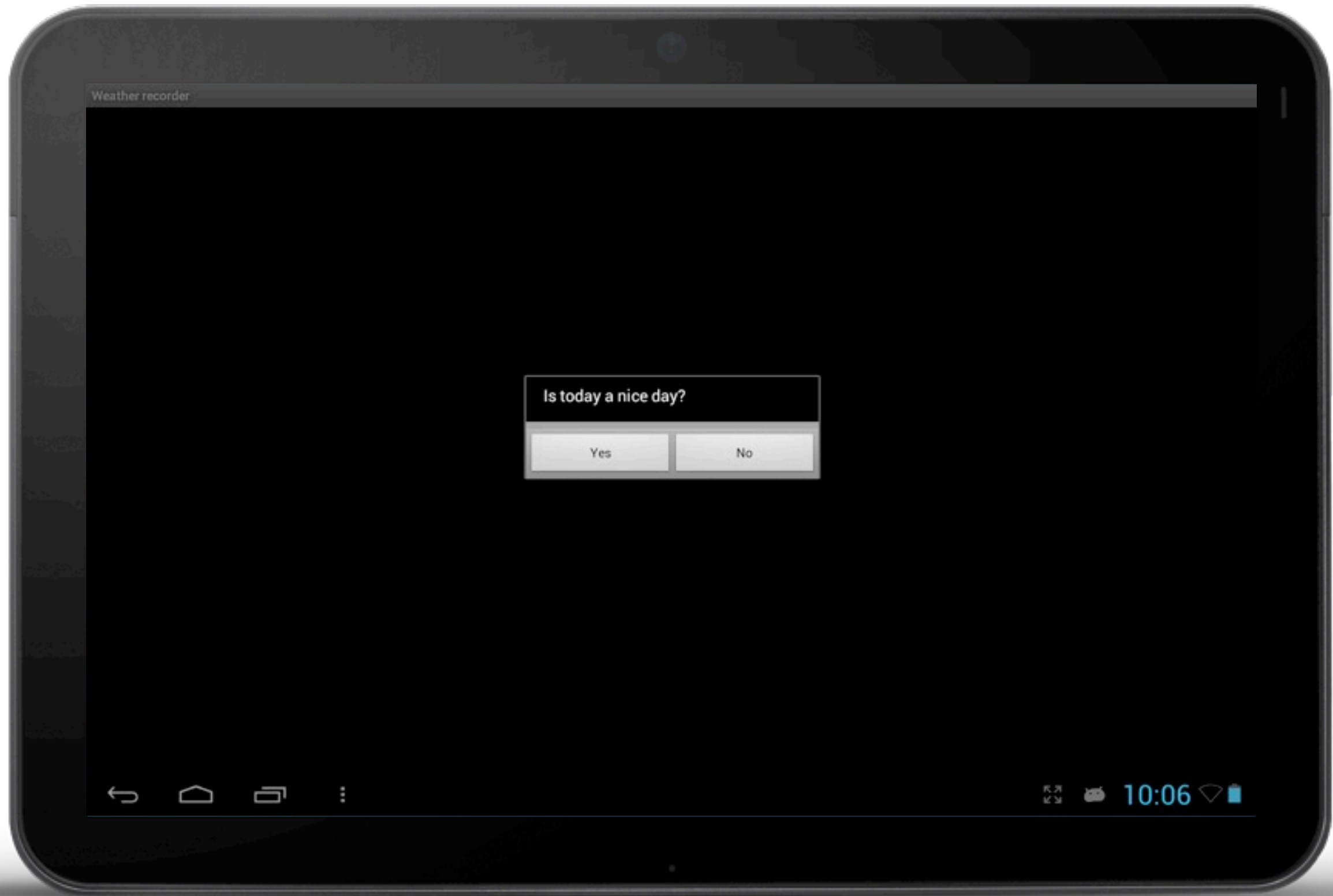
- `adb shell am display-size reset`



Target SDK Version

Set to the highest targetSdkVersion





Weather recorder

Is today a nice day?

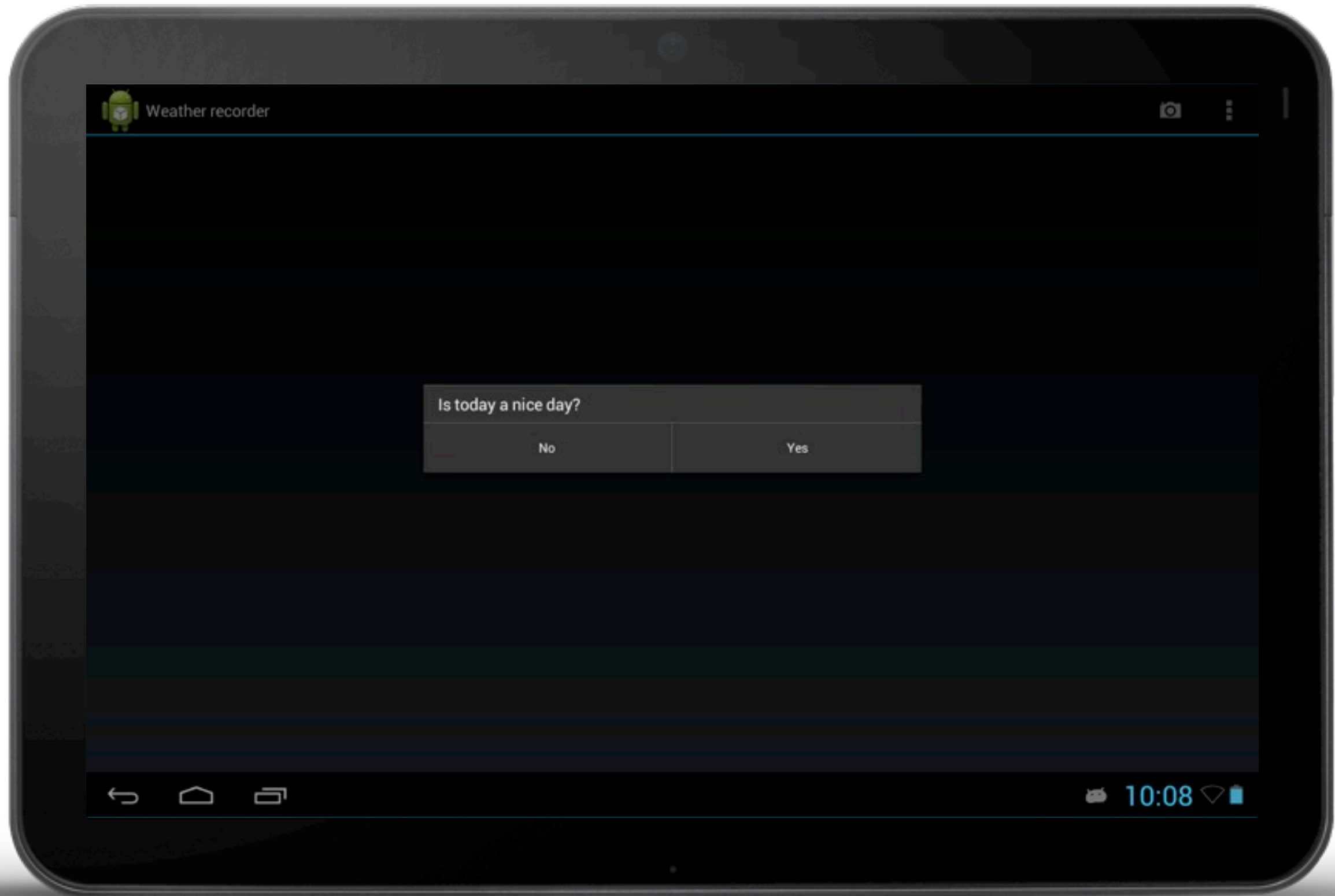
Yes

No



10:06





16