

# Non-Designers' Android Design

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# About me

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  - Google Developer Expert (Android)



# Agenda

Android Designを  
読んで、実践する

# Goal

デザイナーじゃない人でも  
綺麗なAndroidアプリを  
デザインできるようになって  
帰ってもらう

# Android Design



<http://developer.android.com/design/index.html>

# Matias Duarte



# webOS / Palm Inc



Jan. 2009

# Designed Android



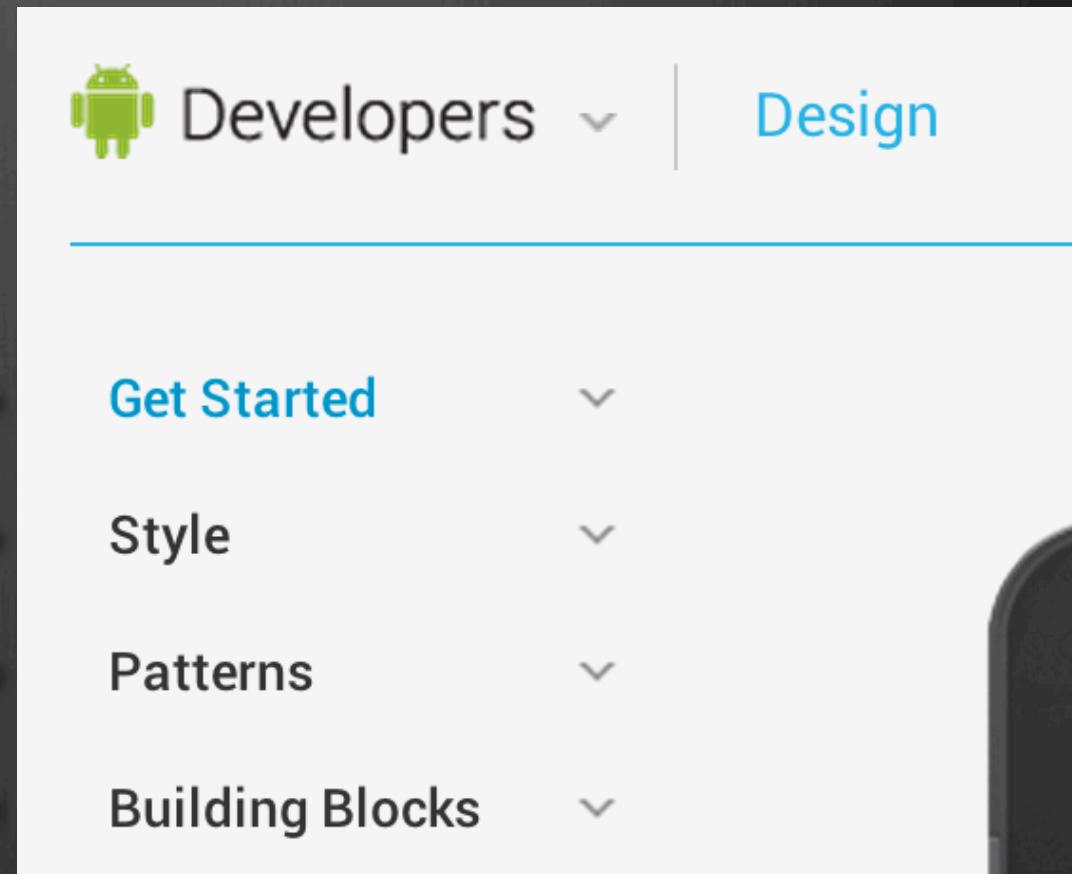
Android2.3



Android3.0

# How to read

設計指針 →  
様式 →  
デザインパターン →  
デザインパーツ →



The screenshot shows the top navigation bar of the Android Developers website. It features a green Android icon, the text "Developers" followed by a dropdown arrow, and a blue "Design" link. Below this is a horizontal line. To the right of the line, there are four menu items: "Get Started", "Style", "Patterns", and "Building Blocks", each preceded by a dropdown arrow.

- Get Started
- Style
- Patterns
- Building Blocks

# Non-Designers' Design Rule

整理 × 整頓

# ActionBar

整理

必要なモノを  
必要なトキに

## Patterns ^

New in Android

Gestures

App Structure

Navigation

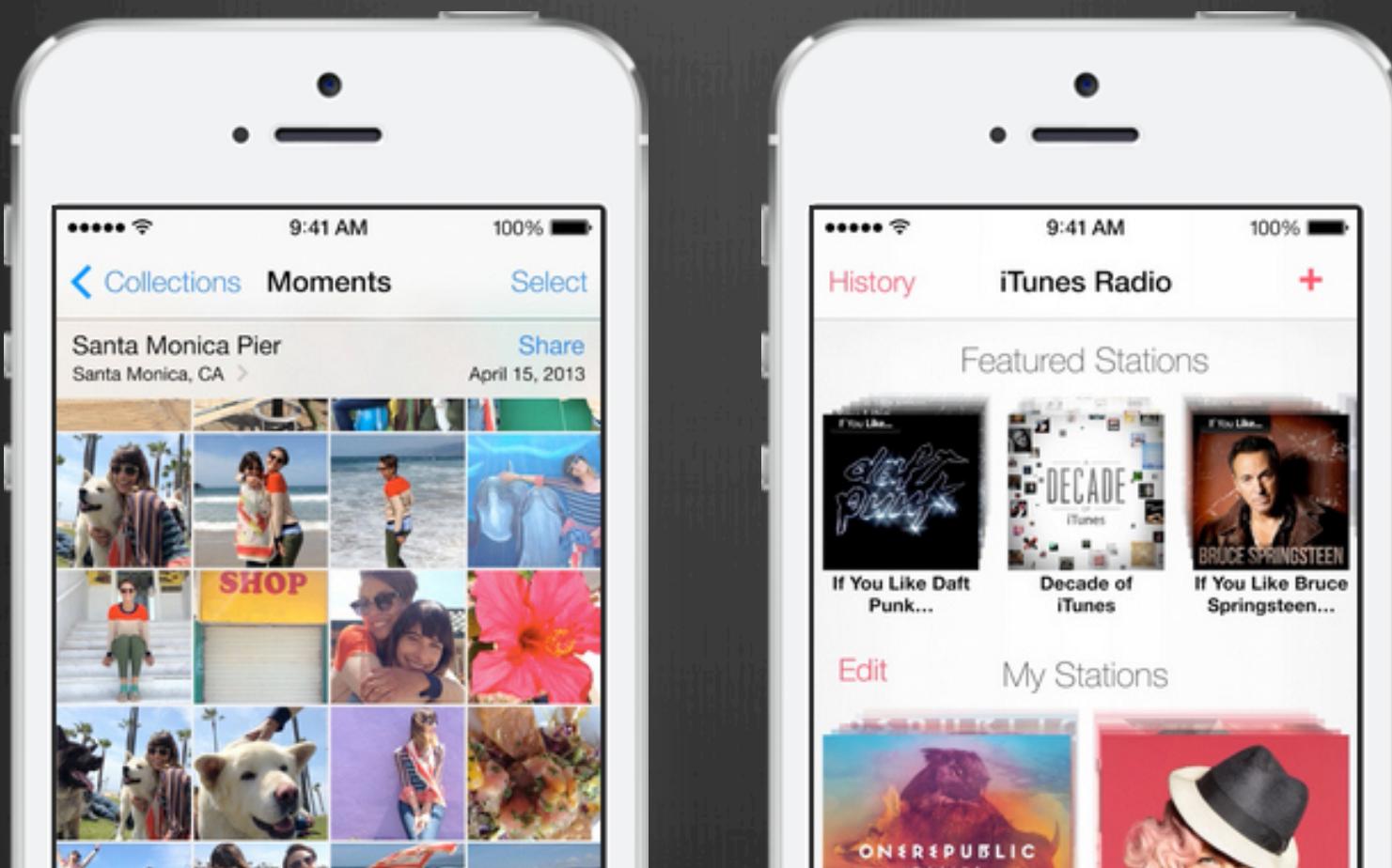
Action Bar

Multi-pane Layouts

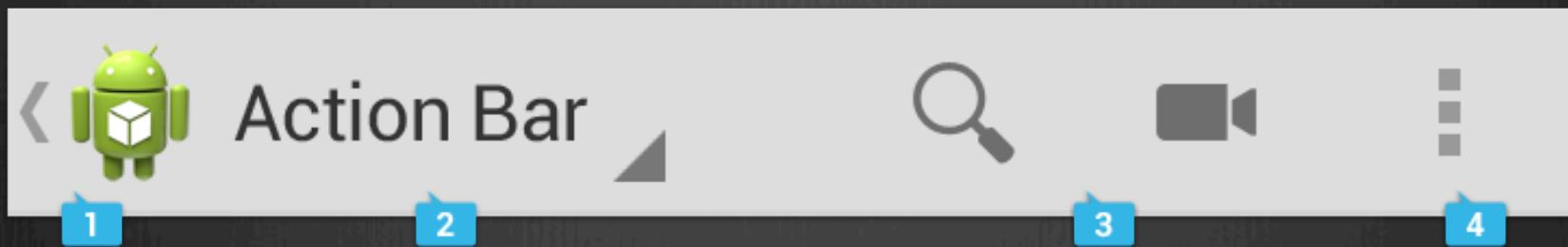
Swipe Views

Selection

# ActionBar Pattern

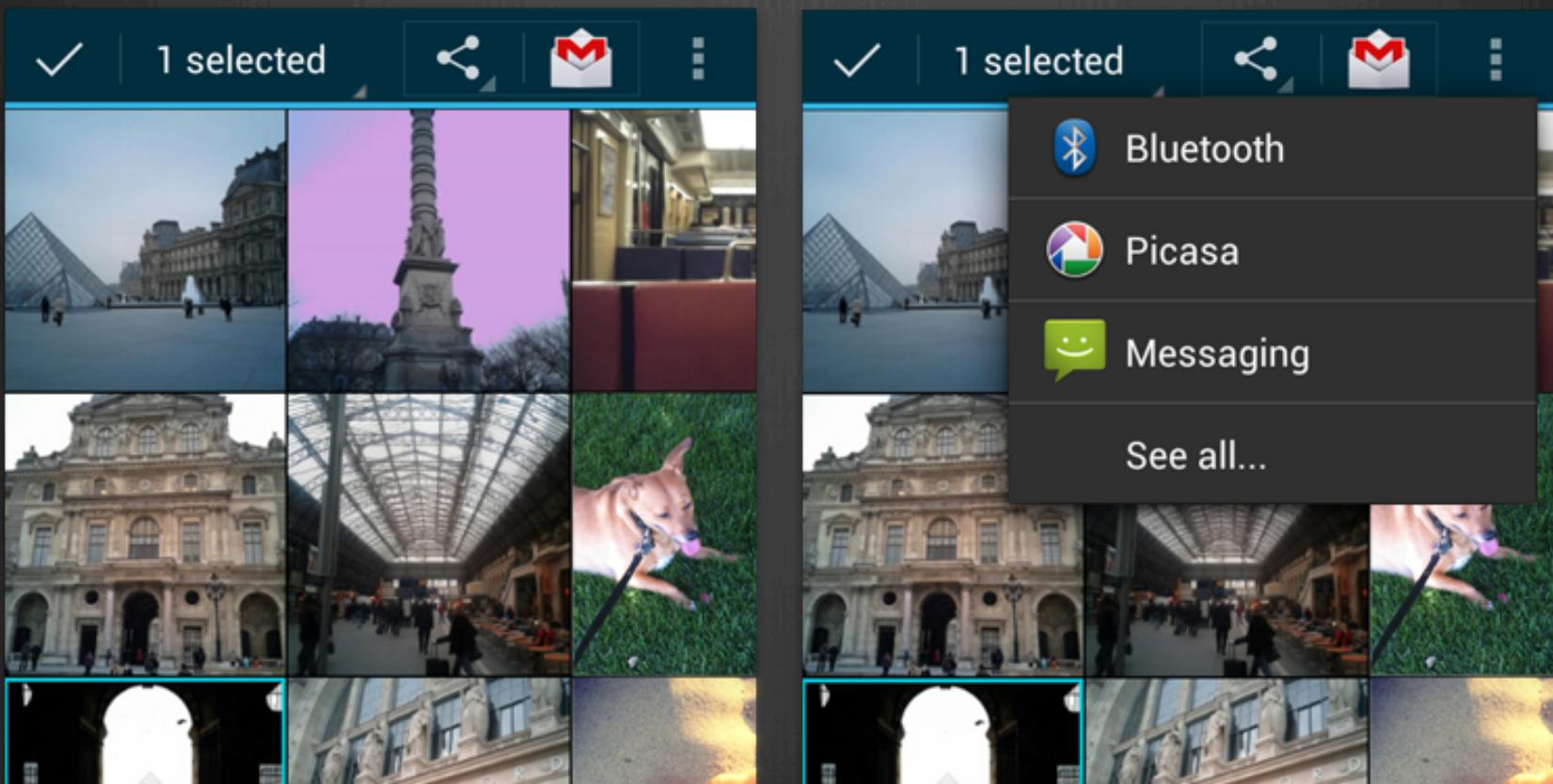


# General ActionBar



# Sharing data

写真が選択されたとき  
何が必要ですか？



# Contextual ActionBar

テキストが選択されたとき  
何が必要ですか？

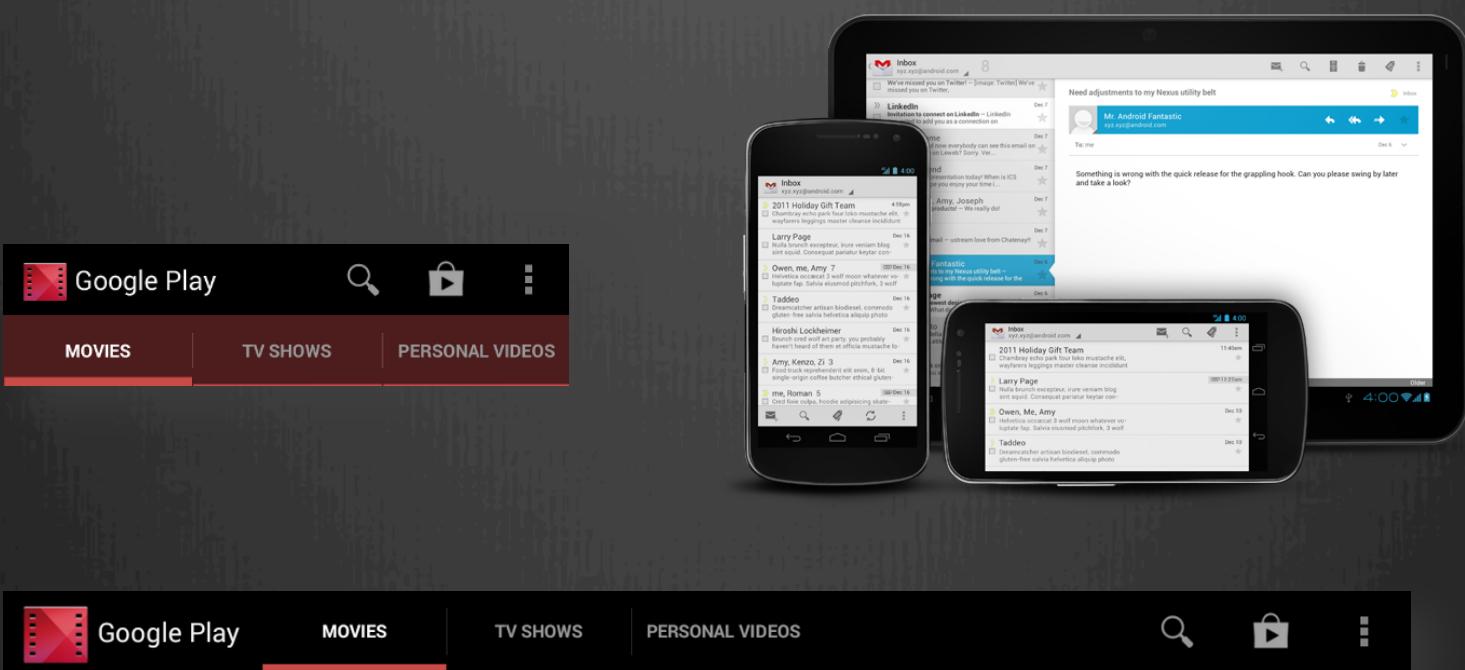


Ribeye salami shoulder, tail ham frankfurter fatback. Filet mignon short loin meatloaf chuck, venison capicola rump shank pig. Prosciutto meatloaf boudin turducken, meatball pork loin tongue bresaola chuck. Turkey jerky pork belly shankle, flank hamburger venison boudin pork chop drumstick turducken ball tip sausage. Pork flank venison, chicken chuck sirloin kielbasa. Venison pig short ribs meatloaf chuck kielbasa. Filet mignon drumstick ribeye capicola leberkäse jerky, tail bacon tongue.

Jerky meatball filet mignon swine jowl. T-bone cow tail, ribeye jowl shankle frankfurter chicken neck belly shoulder meatloaf leberkäse. Ball tip shankle jowl, tri-tip shoulder meatball turkey ham hock pancetta frankfurter swine prosciutto tail. Biltong short swine beefalo fatback leberkäse ham boudin spare ribs t-bone filet mignon, tenderloin tri-tip meatball drumstick beef ribs ball tip turducken strip steak capicola tongue. Pancetta t-bone chicken venison sausage pork loin.

- 
- A screenshot of a social media application interface. At the top, there is a header with a checkmark icon and the text "2 selected". Below the header is a list of posts. The first post is by "2011 Holiday Gift Team" with a timestamp of "4:55pm". The second post is by "Larry Page" with a timestamp of "Dec 16". The third post is by "Owen, me, Amy" with a timestamp of "Dec 16". The fourth post is by "Taddeo" with a timestamp of "Dec 16". The fifth post is by "Hiroshi Lockheimer" with a timestamp of "Dec 16". Each post has a small profile picture, a title, a timestamp, and a star icon.
- 2011 Holiday Gift Team 4:55pm  
Chambray echo park four loko mustache elit, ★ wayfarers leggings master cleanse incididuntut
  - Larry Page Dec 16  
Nulla brunch excepteur, irure veniam blog sint squid. Consequat pariatur keytar con-
  - Owen, me, Amy Dec 16  
Helvetica occaecat 3 wolf moon whatever vo- ★ luptate fap. Salvia eiusmod pitchfork, 3 wolf
  - Taddeo Dec 16  
Dreamcatcher artisan biodiesel, commodo gluten-free salvia helvetica aliquip photo
  - Hiroshi Lockheimer Dec 16

# Auto-Layout



# Compatibility

The [ActionBar APIs](#) were first added in Android 3.0 (API level 11) but they are also available in the [Support Library](#) for compatibility with Android 2.1 (API level 7) and above.

**Caution:** Be certain you import the [ActionBar class](#) (and related APIs) from the appropriate package:

- If supporting API levels *lower than* 11:  
`import android.support.v7.app.ActionBar`
- If supporting *only* API level 11 and higher:  
`import android.app.ActionBar`

# Sample App



# Order of Padding

整頓

大きさ、間隔に  
秩序を与える

## Style

Devices and Displays

Themes

Touch Feedback

Metrics and Grids

Typography

Color

Iconography

Writing Style

# 48dp magic

## 48dp Rhythm

Touchable UI components are generally laid out along 48dp units.

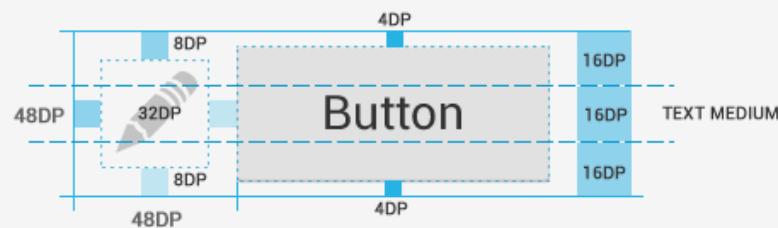


## Why 48dp?

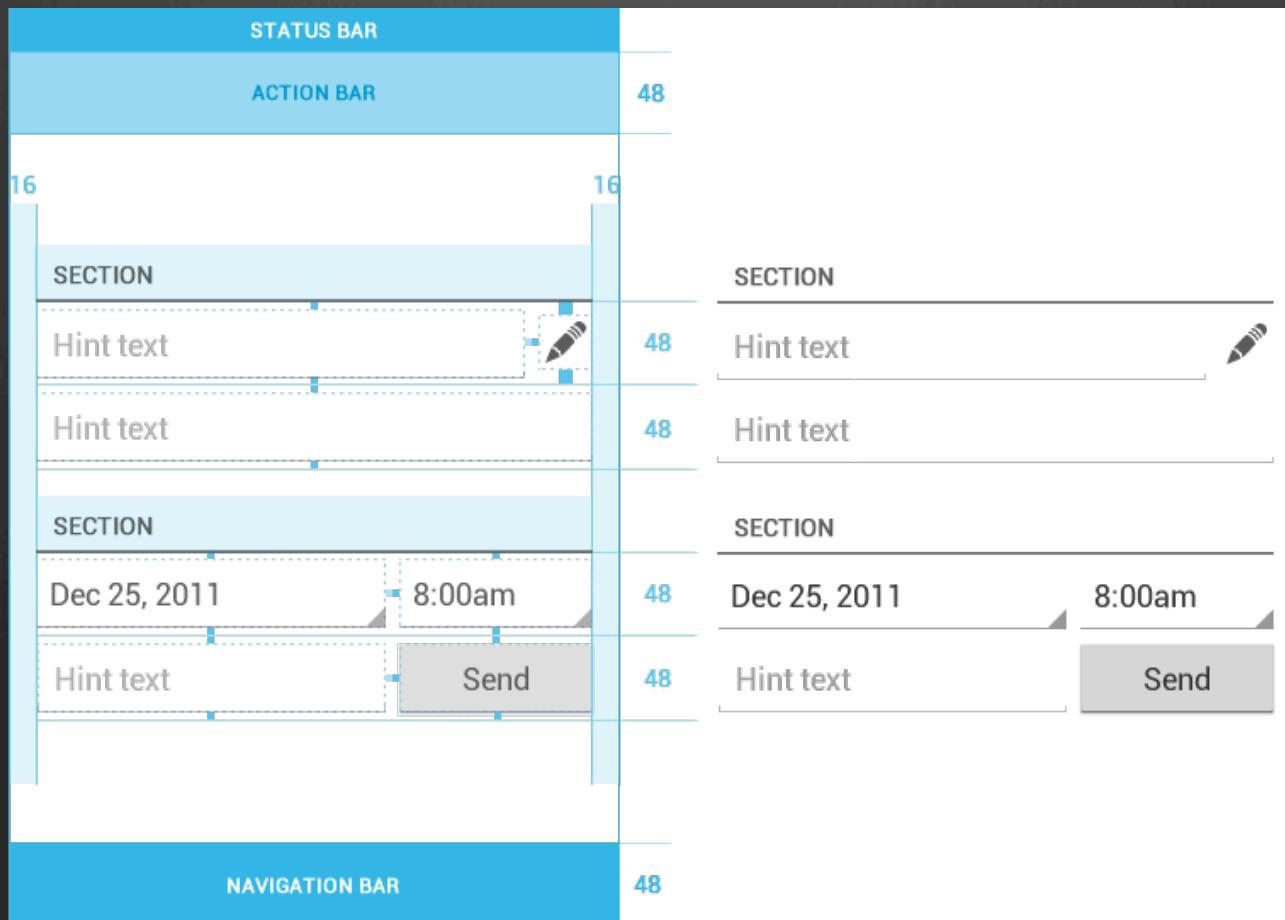
On average, 48dp translate to a physical size of about 9mm (with some variability). This is comfortably in the range of recommended target sizes (7-10 mm) for touchscreen objects and users will be able to reliably and accurately target them with their fingers.

If you design your elements to be at least 48dp high and wide you can guarantee that:

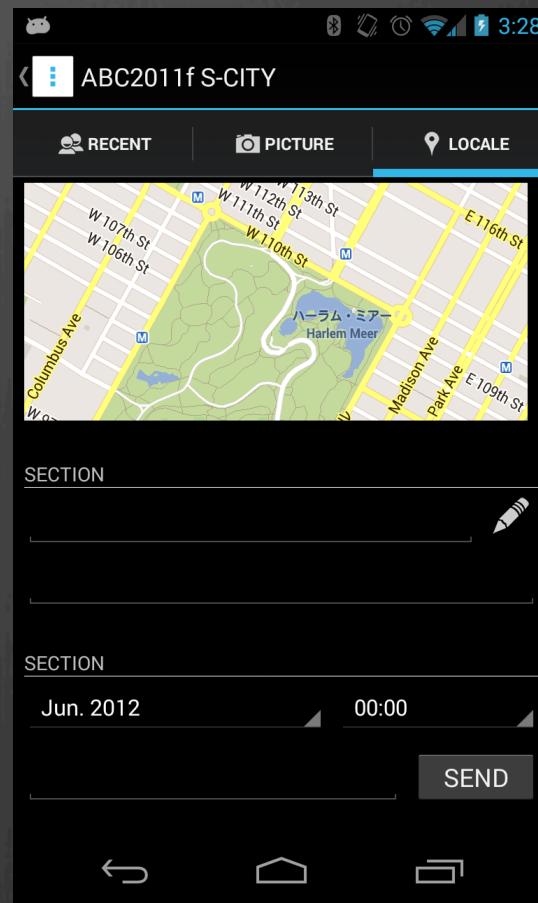
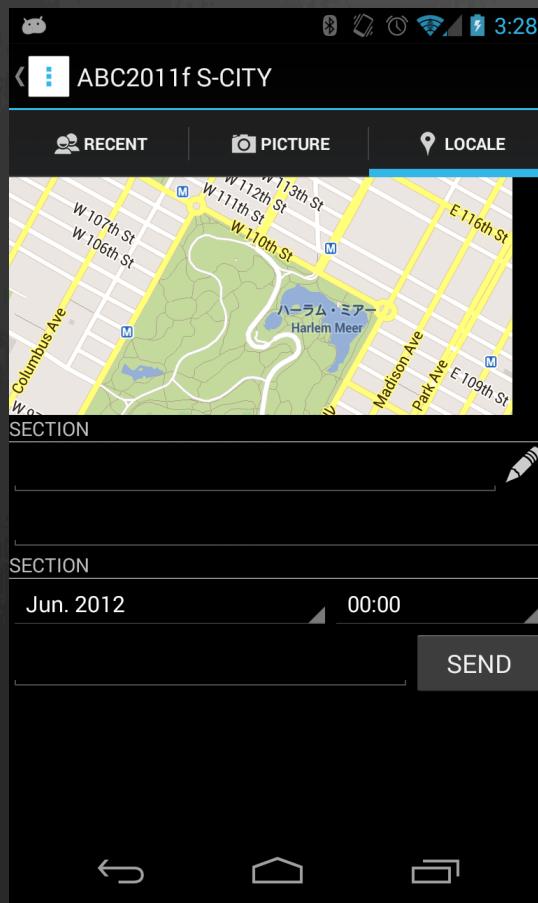
- your targets will never be smaller than the minimum recommended target size of 7mm regardless of what screen they are displayed on.
- you strike a good compromise between overall information density on the one hand, and targetability of UI elements on the other.



# 48dp Rhysm



# Sample App



# Order of Typography

整頓

文字にも秩序を

## Style

Devices and Displays

Themes

Touch Feedback

Metrics and Grids

Typography

Color

Iconography

Writing Style

Writing Style

Iconography

# Text Size

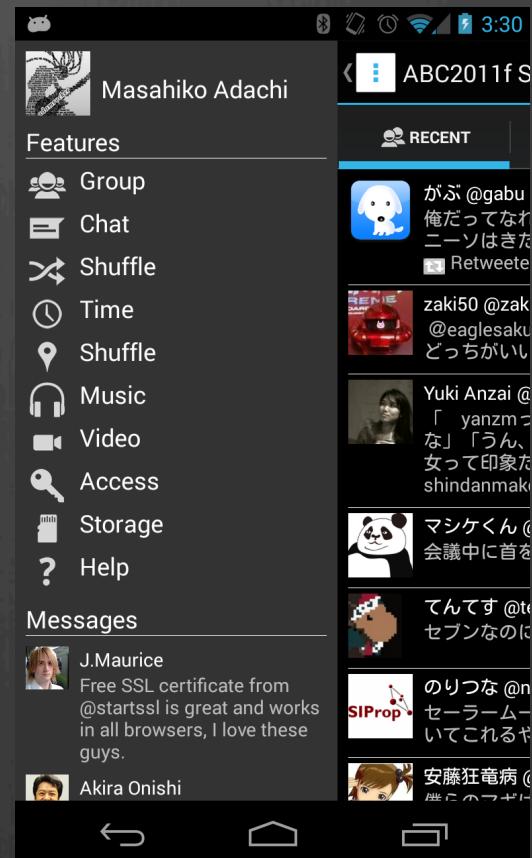
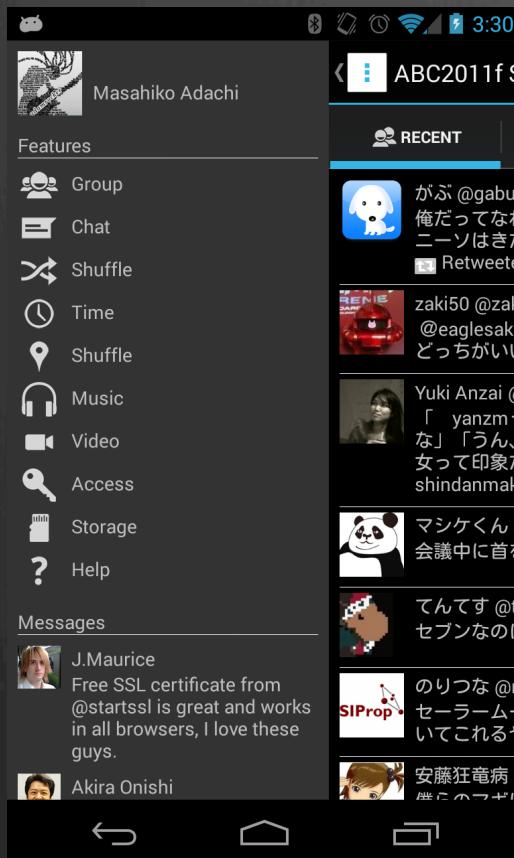
Text Size Micro 12sp

Text Size Small 14sp

Text Size Medium 18sp

Text Size Large 22sp

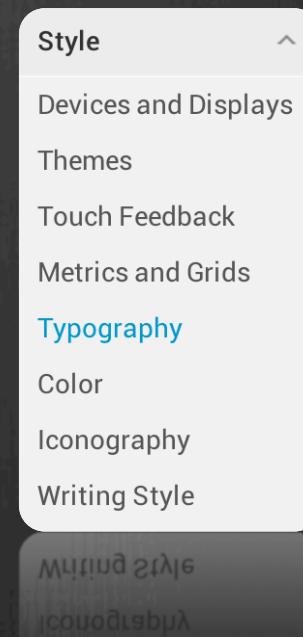
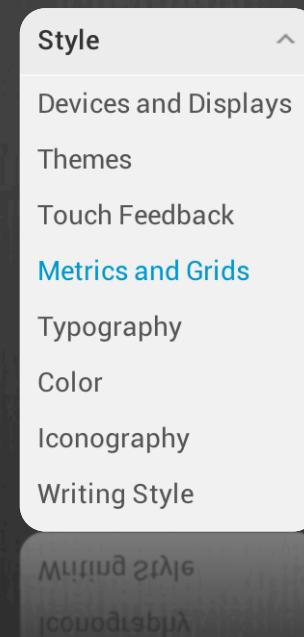
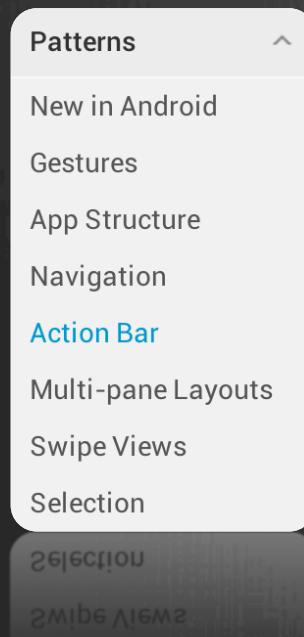
# Sample App



# Summary

デザイナーじゃない人でも綺麗なAndroidアプリを  
デザインできるようになって帰ってもらう

## Android Designを読んで実践する



# One More Thing

カラー  
アプリのお化粧

## Style

Devices and Displays

Themes

Touch Feedback

Metrics and Grids

Typography

Color

Iconography

Writing Style

# Base Color

**Color**

Use color primarily for emphasis. Choose colors that fit with your brand and provide good contrast between visual components. Note that red and green may be indistinguishable to color-blind users.



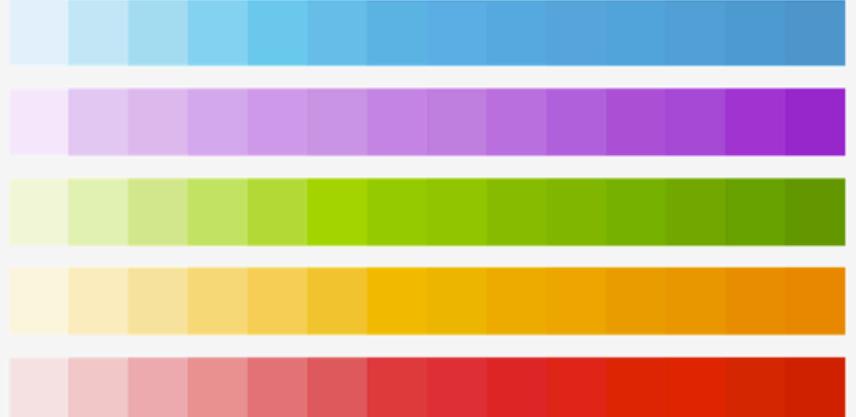
[< PREVIOUS](#) [NEXT >](#)

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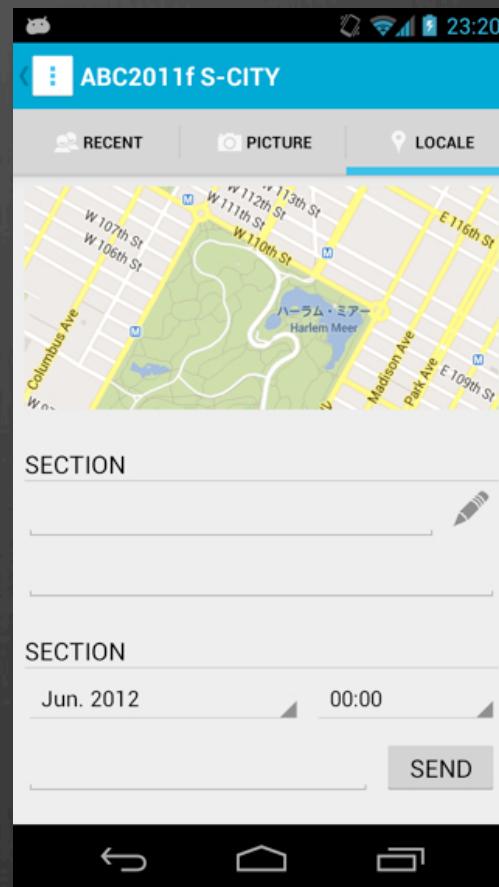
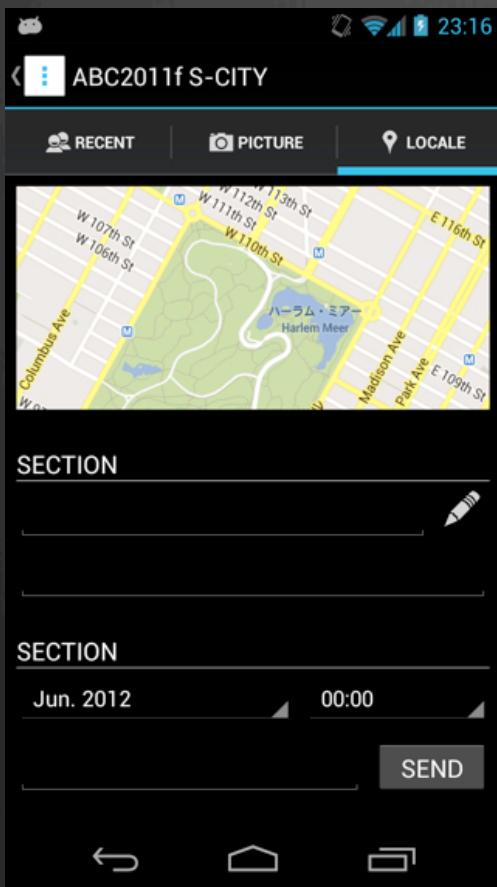
**Palette**

Blue is the standard accent color in Android's color palette. Each color has a corresponding darker shade that can be used as a complement when needed.

[Download the swatches](#)



# Sample App



# After Covering your bases!

Cover your bases!

doing this..

...without that

```
graph TD; A[Custom Transitions] --- B[Deep Branding, Custom Theming]; B --- C[Layout, Visual hierarchy, Iconography]; B --- D[Light Branding, Device independence]; C --- E[Structure, Consistency, Navigation]; E --- F[Utility, Purpose]
```

equals

# FYI: Android Asset Studio

## Android Asset Studio

### **ICON GENERATORS** – MAKE ICONS FOR YOUR APP

Icon generators allow you to quickly and easily generate icons from existing source images, clipart, or text.

[Launcher icons](#)

[Action bar and tab icons](#)

[Notification icons](#)

[Navigation drawer indicator](#)

[Generic icons](#)

[Tab icons \(pre-Android 3.0\)](#)

[Menu icons \(pre-Android 3.0\)](#)

### **OTHER GENERATORS** – MISCELLANEOUS ASSET CREATION TOOLS

[Device frame generator](#) (or see the [official version for Nexus devices](#))

[Simple nine-patch generator](#)

### **COMMUNITY TOOLS** – SIMILAR TOOLS FROM THE OPEN SOURCE COMMUNITY

[Android Action Bar Style Generator](#) by Jeff Gilfelt

[Android Holo Colors Generator](#) by Jérôme Van Der Linden

See the source at the [android-ui-utils](#) Google Code project.

# FYI: Action Bar and Tab Icon Generator

< ANDROID ASSET STUDIO

## Action Bar and Tab Icon Generator

Source  
Must be transparent

IMAGE CLIPART TEXT

For clipart sources, visit [Android Design: Downloads](#).  
Additional icons can be found at [androidicons.com](#).

TRIM DON'T TRIM

PADDING 0%

Name  
Used when generating ZIP files. Becomes ic\_action\_<name>.

Theme HOLO LIGHT HOLO DARK

DOWNLOAD .ZIP

xxhdpi xhdpi hdpi mdpi

# FYI: Simple Nine-Patch Generator

ANDROID ASSET STUDIO

## Simple Nine-patch Generator

The nine-patch generator allows you to quickly generate simple nine-patches at different screen densities, based on the specified source artwork.

Source graphic [SELECT IMAGE](#)

Source density [MDPI \(160\)](#) [HDPI \(240\)](#) **XHDPI (320)** [XXHDPI \(480\)](#)

Drawable name android\_kitkat\_icon\_  
Used when generating ZIP files. Becomes <name>.9.png.

Edit Mode [STRETCH REGIONS](#) [CONTENT PADDING](#) [OPTICAL BOUNDS \(4.3+\)](#)



AUTO-STRETCH [TRIM ▾](#) Grid [LIGHT](#) [DARK](#)

# Thank you

Non-Designers' Android Design