

Lazy Android Developers: Be Productive

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A man with curly brown hair and glasses is sitting on a dark brown leather couch. He is wearing a light orange long-sleeved shirt and has his mouth wide open in a yawn. His eyes are closed, and his facial muscles are tensed from the yawn. In the background, there is a large window with white frames, letting in bright light. A newspaper is visible on the couch in the foreground, partially obscured by the man's arm.

Are you lazy #AndroidDev?

No Googling...

I am new to the world of Android programming and I am trying to create an app which takes in user numbers.



As I mentioned in the question I am new to Android programming and know a little Java. I am trying to receive user input in the application, representing numbers from a lottery ticket, which can then be compared with numbers from the website. I have used JSoup library to parse the numbers from the website but I am struggling with receiving user input into the app. I have used EditText object to allow the user to enter their numbers but currently my app is only displaying the results of the user input. I would like to know how to receive the input that can then be compared with the lottery numbers. Can anyone please help.

Please Help! I am new to android development



I am quite new to android and SQLite.

Pinterest like custom GridView




I am new to android, and I am searching for a logic for grid view like pinterest(homescreen) app that has been build for i-phone. A large no. of images are coming from the server that I need to show in following form with pagination effect i.e loading images on scroll.

Writing boilerplate code

```
HttpClient httpClient = new DefaultHttpClient();
// Prepare a request object
HttpGet httpget = new HttpGet(url);
// Accept JSON
httpget.addHeader("accept", "application/json");
// Execute the request
HttpResponse response;

try {
    response = httpClient.execute(httpget);
    // Get the response entity
    // Log.e("myApp", "Issue is here...!");
    HttpEntity entity = response.getEntity();
    // If response entity is not null
    if (entity != null) {
        // get entity contents and convert it to string
        InputStream instream = entity.getContent();
        String result= convertStreamToString(instream);
        // construct a JSON object with result
        json=new JSONObject(result);
        // Closing the input stream will trigger connection release
        instream.close();
    }
} catch (ClientProtocolException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
} catch (IOException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
} catch (JSONException e) {
    // TODO Auto-generated catch block
```



Let's be Productive
While being lazy

A man in a light grey suit and blue shirt is reclining against a white wall, resting his head on his hands. He is wearing large, colorful striped socks (black, blue, yellow, and green). A silver laptop is open on a white surface in front of him. The text "But.....How?" is overlaid in a black box in the center of the image.

But.....How?

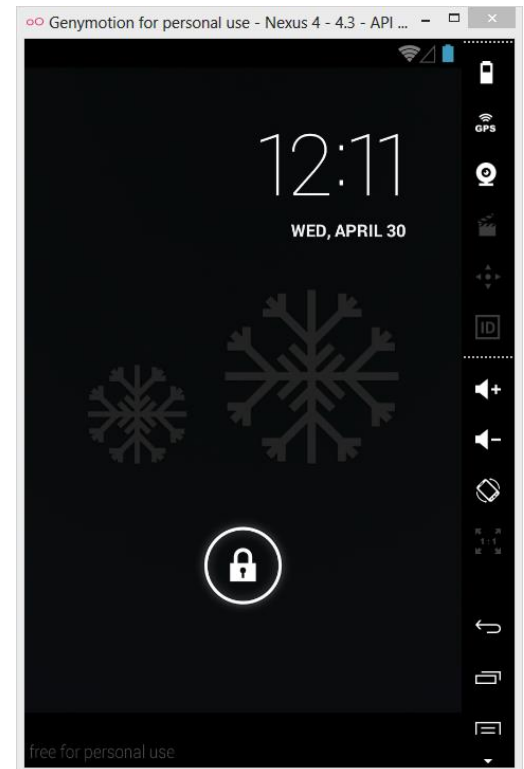
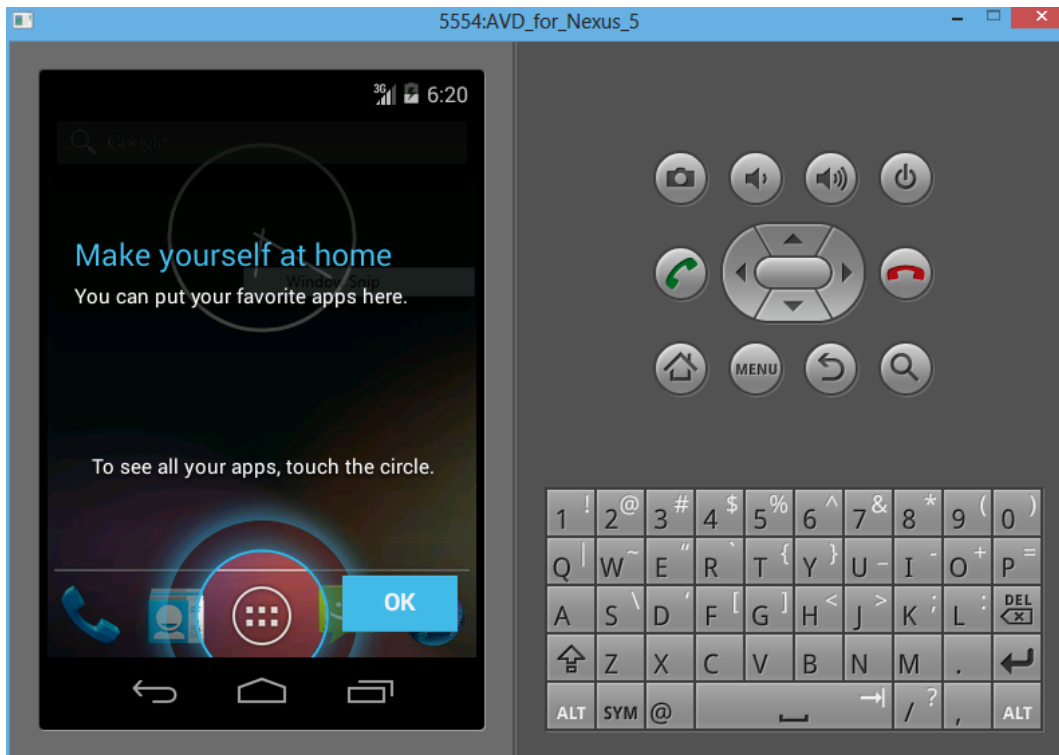
Tip: #1

Productive Development Environment

IDE



Emulator



Tip: #2

Write less code, Solve more problems

{Less code}



{Less Mistakes}



{Faster Development}

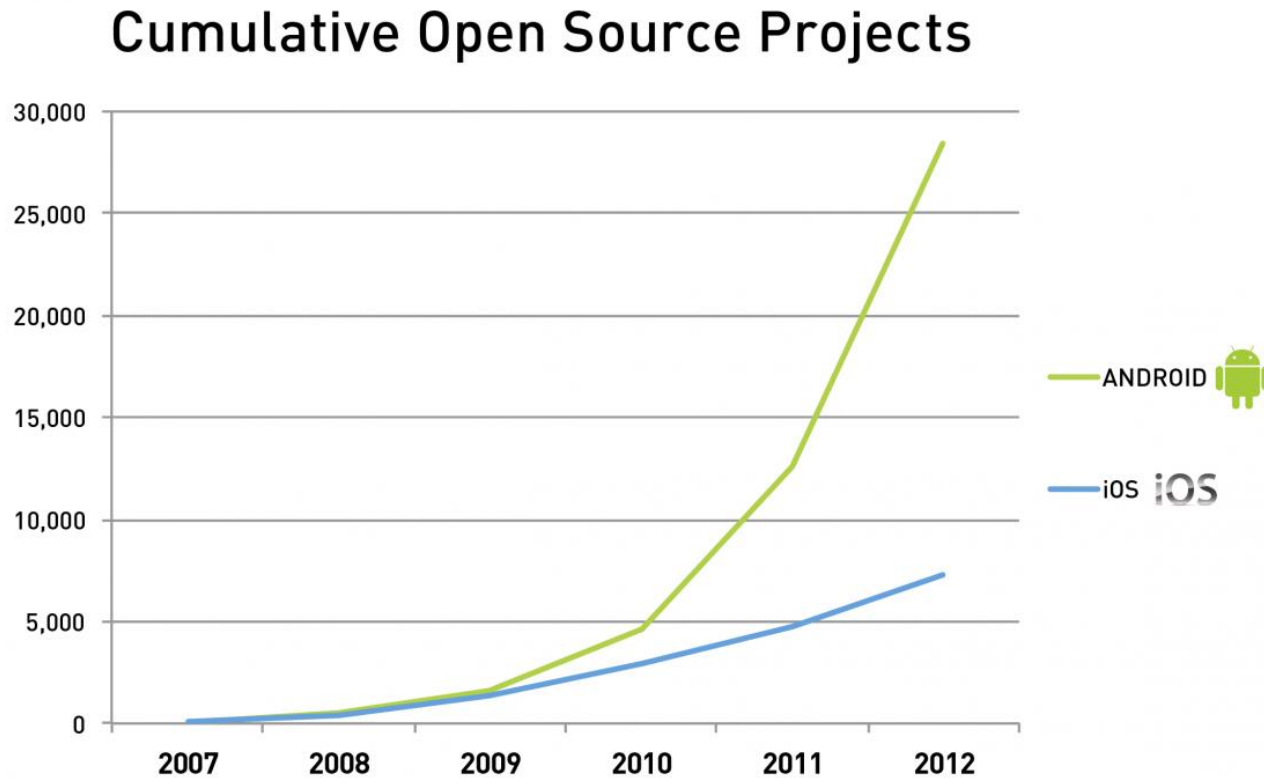


{Code Snippets}

+

{Open source libraries}

Open source libraries



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android

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AndroidBootstrap/android-bootstrap

A template/bootstrap/boilerplate application that includes tons of great open source tools and frameworks.

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Java ★ 2,483 704

68 repositories

Android Libraries Portal



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Extended ActionBar

Takhion

27 March

Extended ActionBar

In this repository I show how to achieve an illusion of "ActionBar extensi [...]"

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0



AndroidStaggeredGrid

etsy

AndroidViews.net

26 January

AndroidStaggeredGrid View

An Android staggered grid view which supports multiple columns with rows of vary [...]"

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62

6



Android StackBlur

Enrique López Mañas

AndroidViews.net



Cropper

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Android Libraries Portal

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The Android Toolbox [Tweet](#)

Choosing the right libraries to get things done can be a tough job. We've compiled a lot of them that we've found during the last years of Android development.

Architecture

Frameworks

[GreenDroid](#)

[Ignition](#)

Database

ORM

[Active Record for Android](#)

[GreenDAO](#)

[OrmLite](#)

Design

Pattern

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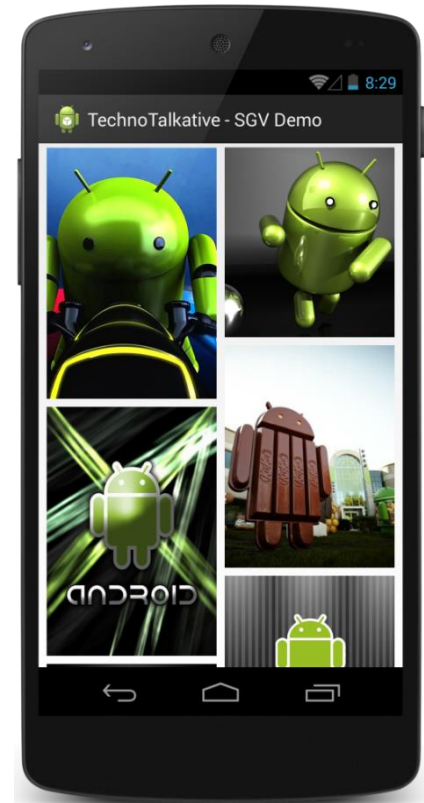
- | | | | |
|-------------|----------------|--|---|
| 23
votes | 20
comments | Prompt engaged users to rate your app in the Android market (AppiRater)
prompt, user, activity, market, intent | 1 day, 14 hours ago · sissi |
| 1
votes | 0
comments | Class Dialog box
android, dialog | 1 day, 19 hours ago · pouyelayese88 |
| 1
votes | 0
comments | Class Dialog box
android, dialog | 1 day, 19 hours ago · pouyelayese88 |
| 1
votes | 1
comments | Open Any type of file with Default Intent
android, intent | 2 days, 7 hours ago · Pratik Butani |
| 7
votes | 9
comments | Open file with default application using Intents
files, sound, intents, video | 2 days, 7 hours ago · Anders |
| 2
votes | 4
comments | Scan for Wireless Networks
network, wifi | 3 days, 1 hour ago · sissi |
| 10
votes | 54
comments | Encrypt / Decrypt Between Android and PHP
webservice, php, encrypt, encryption | 1 week, 6 days ago · SeRPRo |
| 4
votes | 3
comments | AsynTask in Android
AsynTask, Android | 2 weeks ago · mukichamps |
| 14
votes | 15
comments | How to Make an Activity Fullscreen
interface, games, other | 2 weeks, 4 days ago · dylan |
| 1
votes | 4
comments | Get My Phone Number
phone, settings | 3 weeks ago · jbrohan |

Window Snip

UI & Custom Views

Custom Views

- Crouton
- Staggered GridView
- GoogleProgressBar
- Sticky List Headers
- Card UI
- Fading ActionBar
- Swipe ListView



Networking

REST Clients

- Spring for Android
- Retrofit

Async Requests

- OKHttp
- Volley

	One Discussion	Dashboard (7 requests)	25 Discussions
AsyncTask	941 ms	4,539 ms	13,957 ms
Volley	560 ms	2,202 ms	4,275 ms
Retrofit	312 ms	889 ms	1,059 ms

Asynchronous Image Loading

- Picasso
- Universal Image loader (Nostra)
- UrlImageViewHelper & ion (Koush)



Database

- OrmLite
- Green DAO
- SQL Cipher

Dependency Injection

Class

- Dagger

View Injection

- Butter Knife

Universal

- RoboGuice
- Android Annotations (AA)

Example

```
//Before using Android annotation library
```

```
public class ActivityWithoutAA extends Activity{

    Button button1;
    ImageView imageView1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        button1 = (Button) findViewById(R.id.button1);
        imageView1 = (ImageView) findViewById(R.id.imageView1);

        button1.setOnClickListener(new OnClickListener() {

            @Override
            public void onClick(View v) {
                // TODO Auto-generated method stub
                imageView1.setImageResource(R.drawable.ic_launcher);}
            });
    }
}
```

Example

//After using Android annotation library, result is less code.

```
@EActivity(R.layout.activity_main)
```

```
public class MainActivity extends Activity {
```

```
@ViewById  
Button button1;
```

```
@ViewById  
ImageView imageView1;
```

} View Initialization

```
@Click
```

```
void button1() {
```

```
    imageView1.setImageResource(R.drawable.ic_launcher);
```

```
}
```

} Click Listener

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

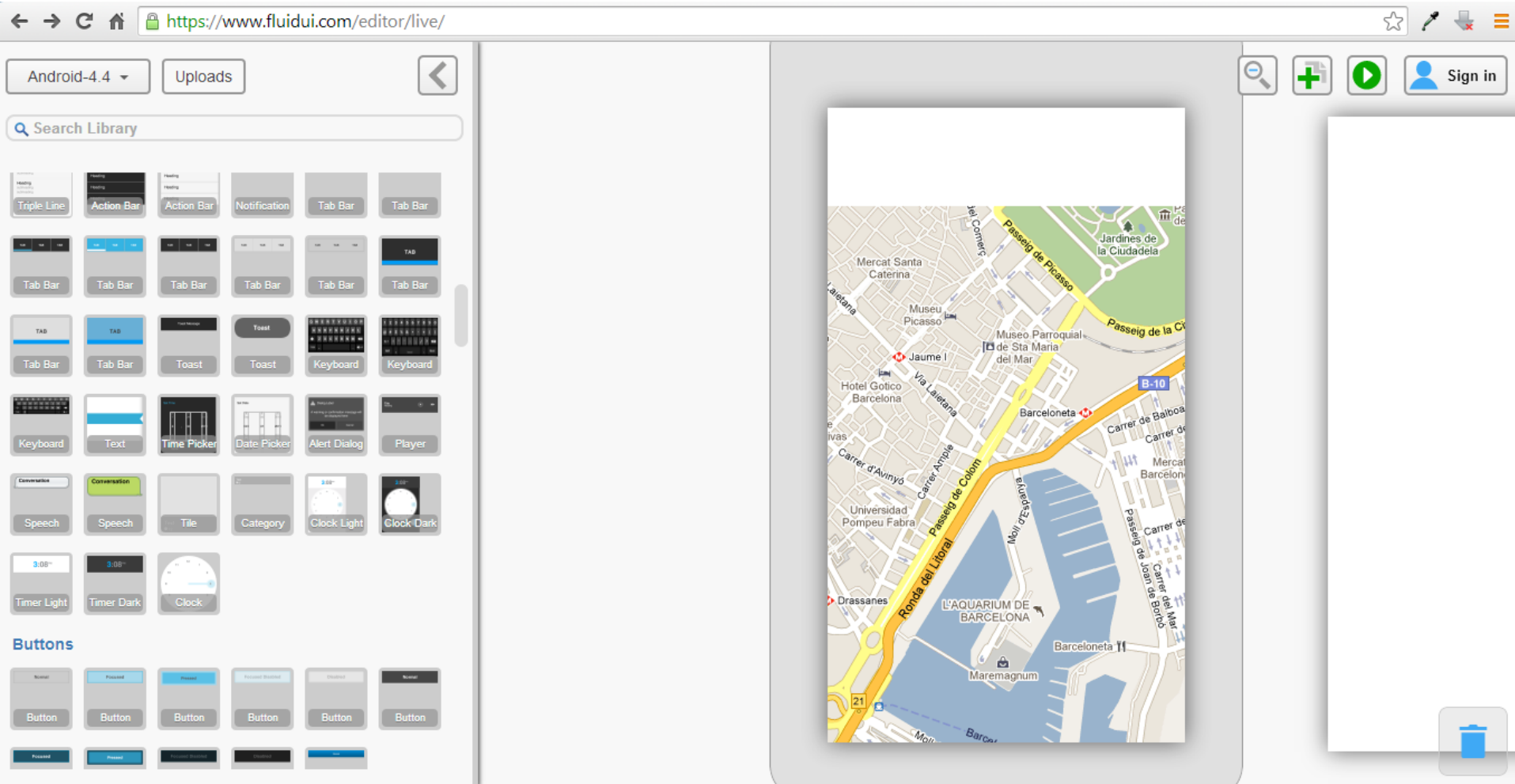
```
}
```

```
}
```

Tip: #3

Use Available Tools

Mockup design tool



Shrink icon/image size



Drop your .png files here!

Up to 20 images, max 5 MB each.



Shrink PNG files

Advanced lossy compression for PNG images that preserves full alpha transparency.

What does TinyPNG do?

TinyPNG uses smart lossy compression techniques to **reduce the file size** of your PNG files. By selectively decreasing the number of colors in the image, fewer bytes are required to store the data. The effect is nearly invisible but it makes a very large difference in file size!

How does it work?

Why should I use TinyPNG?

PNG is useful because it's the only widely supported format that can store partially **transparent images**. The format uses compression, but the files can still be large. Use TinyPNG to shrink images for your apps and sites. It will use less bandwidth and **load faster**.

TinyPNG for Photoshop

We are proud to announce the TinyPNG plugin for Photoshop, available for **Windows** and **Mac**.

[Get Photoshop plugin](#)

Why did you create TinyPNG?

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

Android Action Bar Style Generator

<< Android Asset Studio

The **Android Action Bar Style Generator** allows you to easily create a simple, attractive and seamless custom action bar style for your Android application. It will generate all necessary nine patch assets plus associated XML drawables and styles which you can copy straight into your project.

Style name

Used as name suffix when generating resources. No spaces or punctuation.

Style compatibility

Sherlock styles require the [ActionBarSherlock](#) library.

Base theme

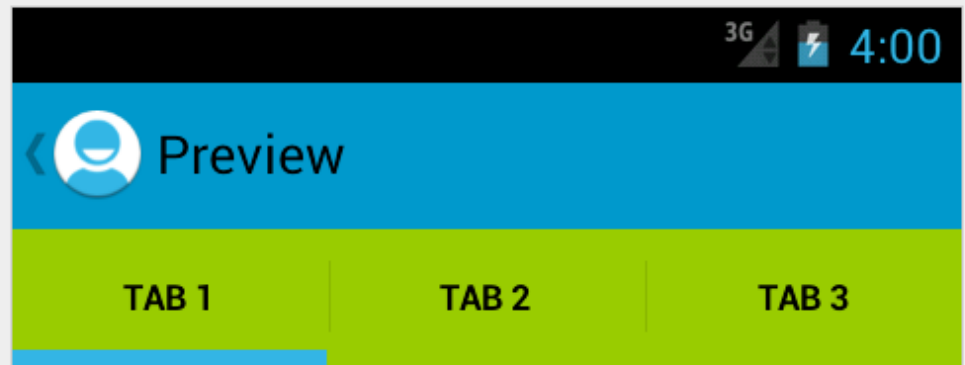
The application base theme. Changing this setting will reset the form to Android defaults.

Action bar style

☒ Solid☐ Transparent

Action bar texture

Solid style action bar texture effect on API 14+.

☐ On☒ Off

Launcher Icon Generator

Foreground

IMAGE

CLIPART

TEXT

TRIM

TRIM

DON'T TRIM

PADDING

0%



Color

For transparent
foregrounds



0%

Scaling

CROP

CENTER

Shape

NONE

BEVEL

SQUARE

CIRCLE

Background



DOWNLOAD .ZIP

GENERATE WEB ICON

xxxhdpi

xxhdpi

xhdpi

hdpi

mdpi

web, hi-res



Device Art Generator

Developers

Design

Develop

Distribute

Google Play

Publishing

Promoting

Linking to Your Products

Google Play Badges

Device Art Generator

Brand Guidelines

App Quality

Policies

Spotlight

Google Play for Education

Open Distribution

Device Art Generator

The device art generator allows you to quickly wrap your app screenshots in real device artwork. This provides better visual context for your app screenshots on your web site or in other promotional materials.

Note: Do not use graphics created here in your 1024x500 feature image or screenshots for your Google Play app listing.

STEP 1

Drag a screenshot from your desktop onto a device to the right.

Nexus 5
5" @ XXHDPI
1080x1920

Nexus 7
7" @ XHDPI
1200x1920
67% size output

Nexus 10
10" @ XHDPI
1600x2560
50% size output

OLDER DEVICES

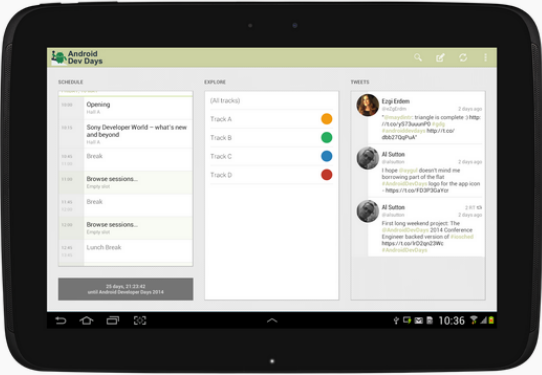
STEP 2

Customize the generated image and drag it to your desktop to save.

☐ Shadow

☐ Screen Glare

Rotate



Android Holo Colors Generator

<< Android Asset Studio

The **Android Holo Colors Generator** allows you to easily create Android components such as edittext or spinner with your own colours for your Android application. It will generate all necessary nine patch assets plus associated XML drawables and styles which you can copy straight into your project. If you have any question, please refer to the [FAQ](#) or [report an issue](#).

Theme Name

Used in styles.xml and themes.xml

Color



Min SDK Version

Min SDK supported by your app (if >= 11, will only generate holo resources)

< 11 >= 11

Compatibility

With None, no library is needed but AppCompat is recommended for a best Holo support

NONE HOLOEVERYWHERE SHERLOCK **APPCOMPAT**

Theme

LIGHT DARK LIGHT DARK ACTIONBAR

Theme

LIGHT DARK LIGHT DARK ACTIONBAR

KitKat Style

Unblue touch feedback, see [guidelines](#)

YES NO

EditText

YES NO

Text Select Handle

And Text Highlight Color

YES NO

Autocomplete

No preview, see edittext

YES NO

Button

YES NO

Colored Button

Like Button, but colored

YES NO

CheckBox

YES NO

Radio

YES NO

Spinner

YES NO

Colored Spinner

Like spinner, but colored

YES NO

TabWidget

See [tag](#) for help

YES NO

ProgressBar

And ProgressBar Indeterminate

YES NO

SeekBar

YES NO

RatingBar

Editable by user

YES NO

RatingBar Small

Not editable by user

YES NO

RatingBar Big

Not editable by user

YES NO

Toggle

YES NO

List Selector

YES NO

Fast Scroll

For listview

YES NO

Fast Scroll

For listviews

YES NO

Switch

Deprecated. Use Switch Jelly Bean below.

YES NO

Switch Jelly Bean

Styles are not public for this widget, see [switch-backport](#) or [SwitchCompatLibrary](#)

YES NO

Navigation Drawer

YES NO

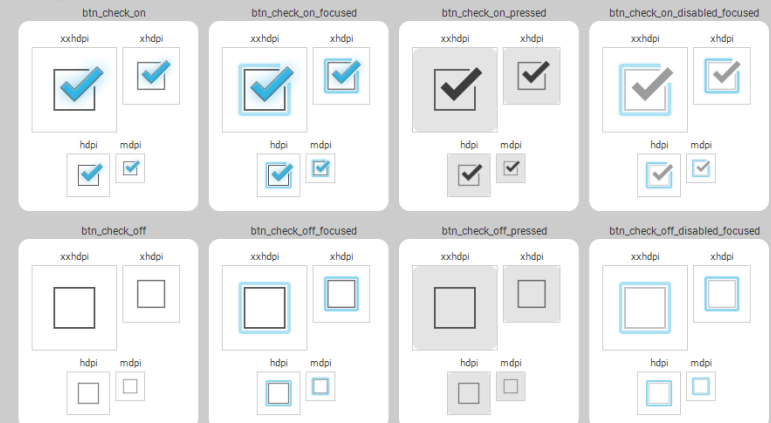
Output resources (zip file contains a "res" folder):

[DOWNLOAD ZIP](#)


This website is **totally free** but if you saved time and money with it, please **make a small donation** :

Support via **PayPal**

CheckBox :



Gradle, please

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```
dependencies {
    // Google Play Services
    compile 'com.google.android.gms:play-services:4.3.23'

    // Support Libraries
    compile 'com.android.support:support-v4:19.0.1'
    compile 'com.android.support:appcompat-v7:19.0.1'
    compile 'com.android.support:gridlayout-v7:19.0.1'
    compile 'com.android.support:mediarouter-v7:19.0.1'
    compile 'com.android.support:support-v13:19.0.1'

    // Note: these libraries require the "Google Repository" and "Android Repository"
    //       to be installed via the SDK manager.
}
```

Something else?

```
dependencies {
    compile 'com.squareup.picasso:picasso:2.2.0'
}
```

// Was this result helpful?  

Popular

[gson](#) [actionbarsherlock](#) [joda-time](#) [picasso](#) [otto](#) [slf4j](#) [crouton](#) [nineoldandroids](#)
[butterknife](#) [guava](#) [okhttp](#) [dagger](#)

Where do the results come from?

Maven Central. To have your library listed here (and have people include your library easily), upload your project to [Maven Central](#). The easiest way to do this is via [Sonatype](#).

Portions of this page are reproduced from work created and [shared by the Android Open Source Project](#) and used according to terms described in the [Creative Commons 2.5 Attribution License](#).

by Chris Broadfoot



Android Button Maker

Android Button Maker is online tool to generate buttons code for Android Apps. Android API provide Drawable Resources where XML file defines geometric shape, including colors, border and gradients. These button is generating based on shape drawable XML code which load faster compare to normal png buttons. You can customize button properties in setting panel and get source code.



Button buttonshape.xml

```
<Button
    android:id="@+id/angry_btn"

    android:text="Button"
    android:textColor="#FFFFFF"
    android:textSize="30sp"

    android:layout_width="270dp"
    android:layout_height="60dp"
    android:background="@drawable/buttonshape"
    android:shadowColor="#A8A8A8"
    android:shadowDx="0"
    android:shadowDy="0"
    android:shadowRadius="5"
/>
```

Button

android:text

Button

android:textColor

FFFFFF

android:textSize

30

Shadow On

android:shadowColor

A8A8A8

android:shadowDx

0

android:shadowDy

0

android:shadowRadius

5

Size

android:width

270

android:height

60

Corners

android:radius

14

Radius Property

android:topLeftRadius

0

android:topRightRadius

0

android:bottomLeftRadius

0

android:bottomRightRadius

0

Background

gradient

solid

android:type

linear

android:centerX

35

android:startColor

E8E8E8

android:centerColor

7995A8

android:endColor

000000

android:angle

45

Center

Center

android:centerX

35

android:centerY

35

Padding

Padding On

android:left

0

android:top

0

android:right

0

android:bottom

0

Stroke

android:width

3

android:color

878787

<http://angrytools.com/android/button/>

Android Layout Finder | Buzzing Android

The Android Layout Finder helps you create the code that ties your Android UI and Java code together.

It's real easy! Just paste your Android XML layout code in the first text field, pick the views that you need, and your code is automatically generated for you.

No more typing out all those nearly identical findViewById() and findViewById() calls in your activities or fragments whenever you change your Android layouts.

1. Enter Android XML Layout:

Paste in your Android XML Layout code

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/container"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <ProgressBar
        android:id="@+id/progressBar1"
        style="?android:attr/progressBarStyleLarge"
        android:layout_centerInParent="true"
```

2. Pick your Views:

Select the views that you need to interact with

☐ container *RelativeLayout*
☒ progressBar1 *ProgressBar*
☒ button1 *Button*
☒ button2 *Button*
☒ imgDemo *com.android.volley.toolbox.NetworkImageView*

3. Get your Java code:

Click on the code to select the entire text

```
private ProgressBar progressBar1;
private Button button1;
private Button button2;
private NetworkImageView imgDemo;

/**
 * Find the Views in the layout<br />
 * <br />
 * Auto-created on 2014-05-07 15:43:09 by Android Layout Finder
 * (http://www.buzzingandroid.com/tools/android-layout-finder)
 */
private void findViews() {
    progressBar1 = (ProgressBar)findViewById( R.id.progressBar1 );
    button1 = (Button)findViewById( R.id.button1 );
    button2 = (Button)findViewById( R.id.button2 );
    imgDemo = (NetworkImageView)findViewById( R.id.imgDemo );

    button1.setOnClickListener( this );
    button2.setOnClickListener( this );
}

/**
 * Handle button click events<br />
 * <br />
 * Auto-created on 2014-05-07 15:43:09 by Android Layout Finder
 * (http://www.buzzingandroid.com/tools/android-layout-finder)
 */
@Override
public void onClick(View v) {
    if ( v == button1 ) {
        // Handle clicks for button1
    } else if ( v == button2 ) {
        // Handle clicks for button2
    }
}
```

General settings

- ☐ Use support package ?
- ☐ Use full package name for custom views
- ☐ Don't convert underscores to camelCase

Remove ID prefix (None) ?

Variable prefix (None)

Output settings

Generated code type:

- ☒ Member variables
- ☐ ViewHolder pattern ([Link](#))
- ☐ ArrayAdapter with ViewHolder
- ☐ CursorAdapter with ViewHolder
- ☐ RoboGuice

- ☐ Pass root view as method parameter

Custom view root variable ?

- ☒ Implement ClickListeners for Buttons and ImageButtons

Example

Paste example XML

Share this

Bitcoin donations

Please help support Buzzing Android by donating bitcoins:



112xgk2JYn2PKiV42YCxgB83xfVJynGzag

Comments and suggestions

If you have any comments or suggestions to this tool, please leave a message [here](#).

DPI Calculator for Android - [Install Extension for Chrome](#)

96	72	48	36	24	18	31.92
xxxhdpi	xxhdpi	xhdpi	hdpi	mdpi	ldpi	tvdpi
192	144	96	72	48	36	63.84
xxxhdpi	xxhdpi	xhdpi	hdpi	mdpi	ldpi	tvdpi
xxxhdpi	xxhdpi	xhdpi	hdpi	mdpi	ldpi	tvdpi

With thanks to [martincohen](https://github.com/martincohen) | <http://coh.io/adpi/>

jsonschema2pojo

Generate Plain Old Java Objects from JSON or JSON-Schema.

```
1 {  
2   "type": "Participant",  
3   "Participants": [  
4     { "name": "Paresh" },  
5     { "name": "Murat" }  
6   ]  
7 }
```

Package

Class name

Source type:

☐ JSON Schema ☒ JSON

Annotation style:

☐ Jackson 2.x ☐ Jackson 1.x

☒ Gson ☐ None

☐ Generate builder methods

☐ Use primitive types

☐ Use long integers

☒ Use double numbers

☐ Use Joda dates

☐ Use Commons-Lang3

☐ Include and

☐ Include

☐ Include JSR-303 annotations

Preview

Jar

jsonschema2pojo

Generate Plain Old Java Objects from JSON or JSON-Schema.

```
1 {  
2   "type": "Participant",  
3   "Participants": [  
4     { "name": "Paresh" },  
5     { "name": "Murat" }  
6   ]  
7 }
```

Preview

```
-----  
com.androiddevdays.demo.Participant.java-----  
-----  
  
package com.androiddevdays.demo;  
  
import javax.annotation.Generated;  
import com.google.gson.annotations.Expose;  
  
@Generated("org.jsonschema2pojo")  
public class Participant {  
  
    @Expose  
    private String name;  
  
    public String getName() {  
        return name;  
    }  
  
    public void setName(String name) {  
        this.name = name;  
    }  
  
}  
-----  
com.androiddevdays.demo.ParticipantsBean.java-----  
-----  
  
package com.androiddevdays.demo;
```

Preview

Jar

JSONLint

The JSON Validator



Want more from JSONLint? Try [JSONLint Pro](#)

A Tool from the Arc90 Lab. [Source is on GitHub.](#)

Props to [Douglas Crockford](#) of JSON and JS Lint and [Zach Carter](#), who provided the [pure JS implementation of jsonlint](#).

```
1 {
2   "FirstObject": {
3     "attr1": "one value",
4     "attr2": "two value",
5     "sub": {
6       "sub1": [
7         {
8           "sub1_attr": "sub1_attr_value"
9         },
10        {
11          "sub1_attr": "sub2_attr_value"
12        }
13      ]
14    }
15  }
16 }
17
18
19 //
```

Validate

JSON Lint is an idea from Arc90's Kindling

Kindling

[FAQ](#)

Results

Valid JSON

<http://jsonlint.com/>

← → ↻ 🏠 jsonviewer.stack.hu ☆ 🔍 📄 ☰

Viewer Text

JSON

FirstObject

attr1 : "one value"

attr2 : "two value"

sub

sub1

0

sub1_attr : "sub1_attr_value"

1

sub1_attr : "sub2_attr_value"

Name ▲	Value
FirstObject	...

Search: GO! ⬇ Next ⬆ Previous

Tip: #4

Don't Waste Time!

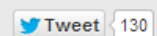
How?

How?

Bootstrap your project

Did you heard about Twitter Bootstrap?

Bootstrap your next Android Application



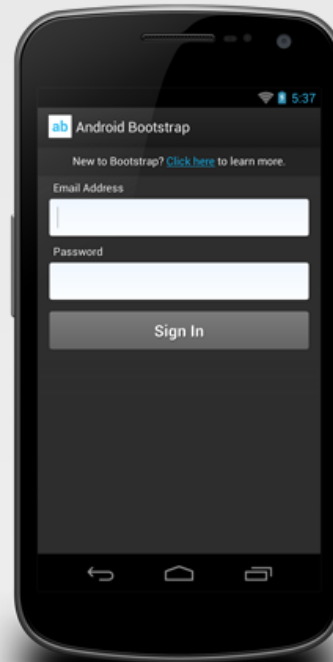
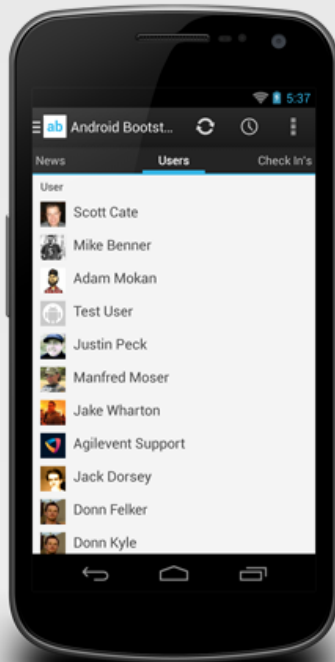
Built for Android Studio and Gradle

Android Bootstrap includes a full working implementation of Fragments, Fragment Pager, ActionBar via AppCompatActivity, Navigation Drawer, ViewPagerIndicator, http-request, GSON, Robotium for integration testing, API Consumption with an API on Parse.com and much more.

Bootstrap Your App Now

Generate Your App

[Find an issue?](#) [Report it here](#)





Android KickstartR

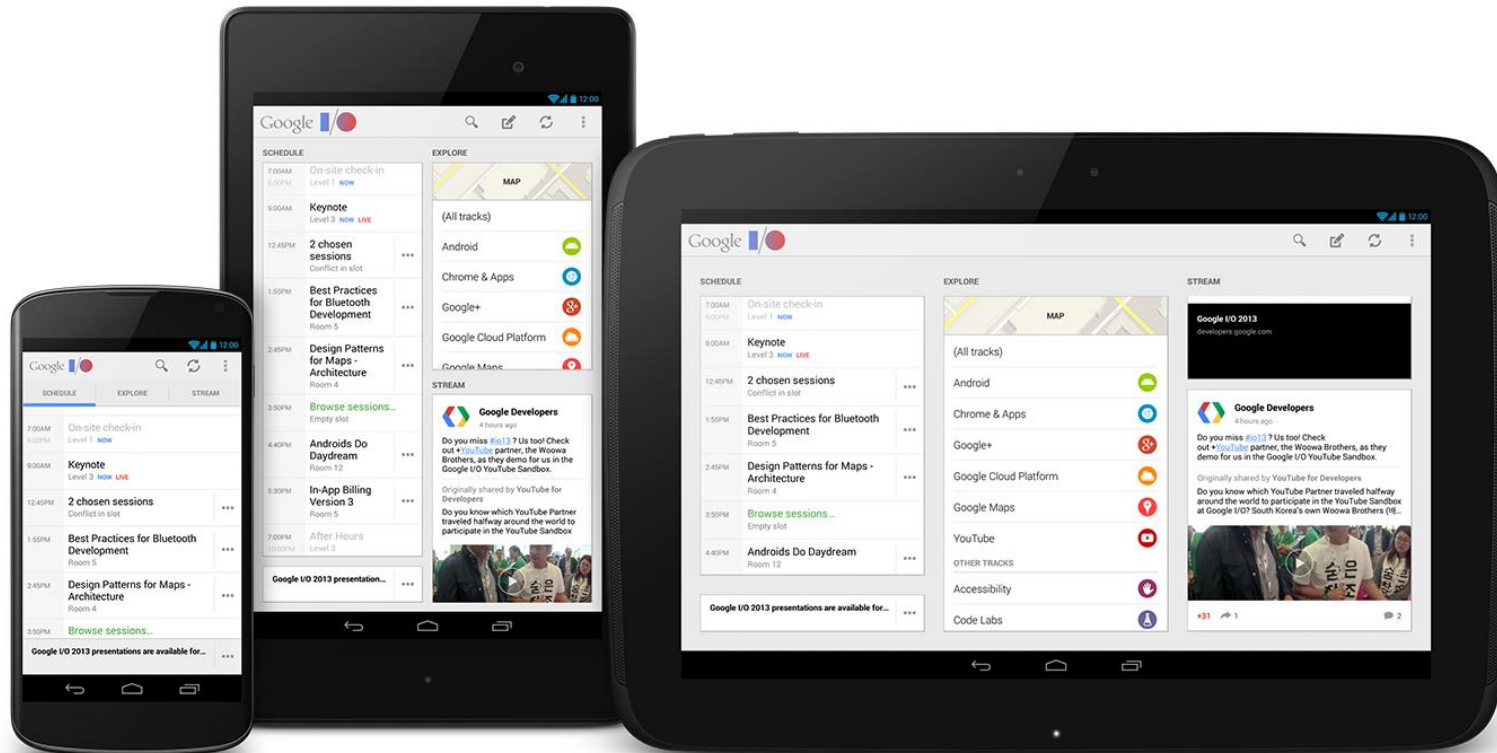
Start your next **Android** app in 10 seconds.

AndroidKickstartR helps you to quickly create a well configured Android application using the most popular libraries. It creates and configures your project for you. Just focus on code!

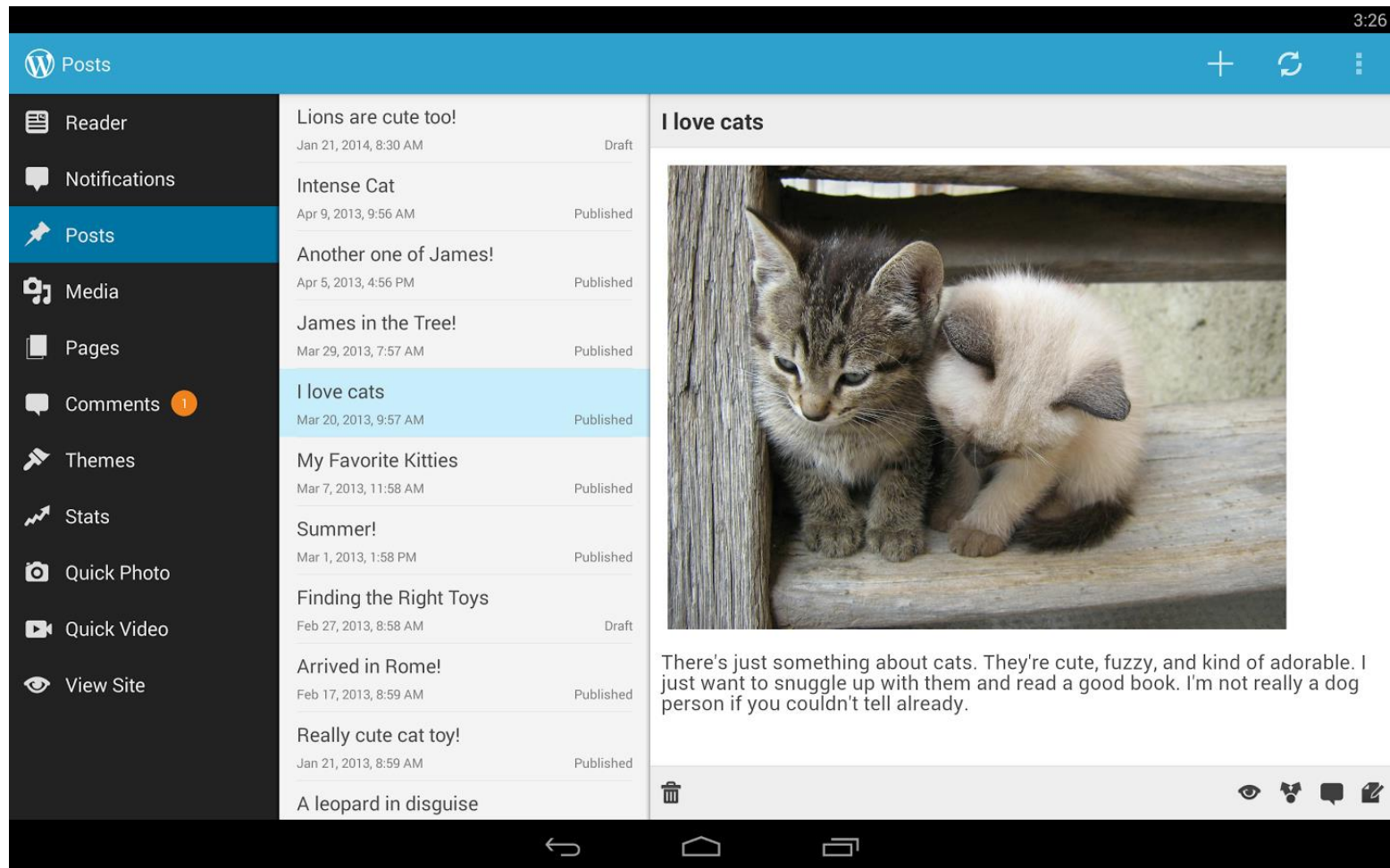
Tip: #5

Learn from Open Source Projects

iosched



WordPress for Android



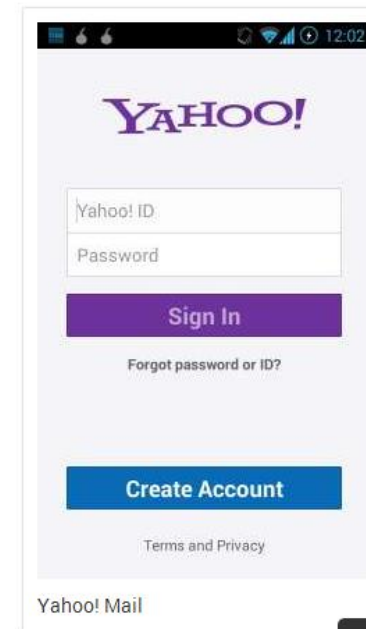
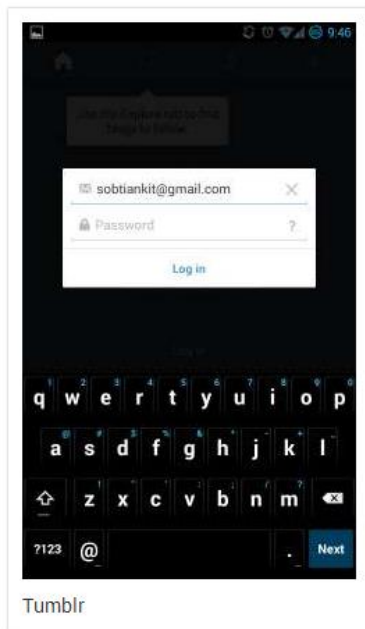
More open source projects

- http://en.wikipedia.org/wiki/List_of_free_and_open-source_Android_applications
- <http://www.aopensource.com/>

Tip: #6

Learn and Check UI Patterns

41 3 0



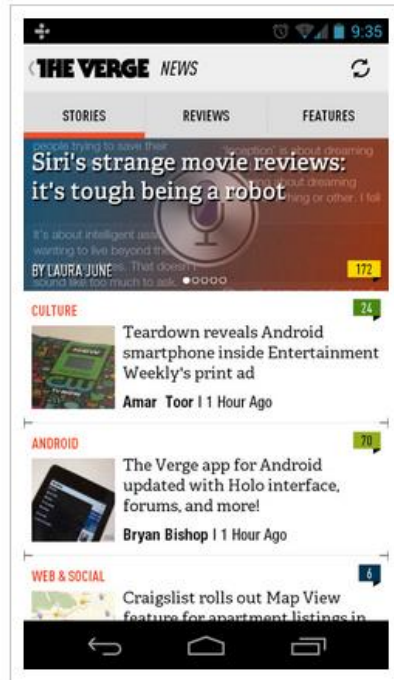
Scroll to top

android
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19

Recently added
Action bar
Article
Activity feed
Dashboard
Grid
List
Login Screen
Media player
Profile
Quick action
Search
Settings
Sliding menu
Tab bar

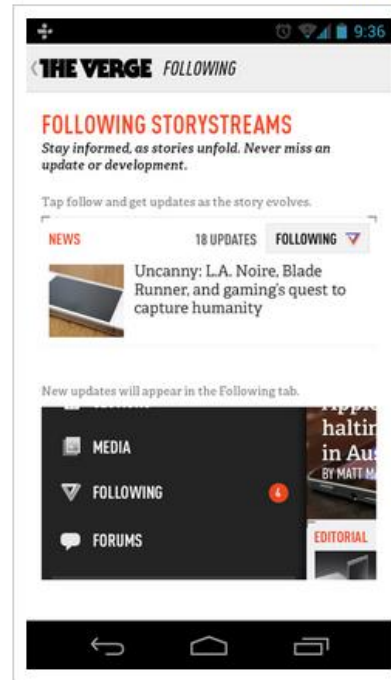
androidpttrns.com is the
shameless copy of the
awesome pttrns.com for
android.



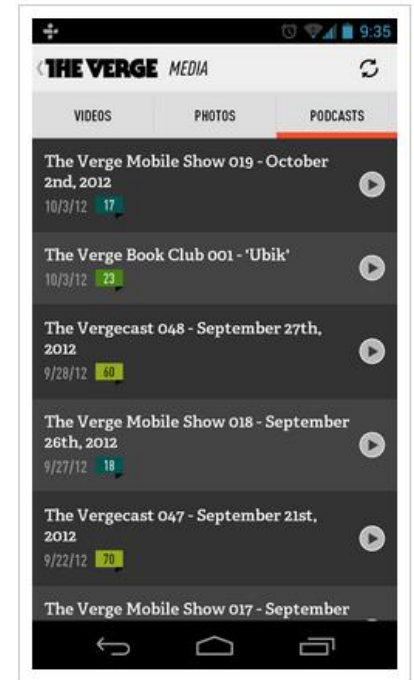
The Verge
Tab bar List

Next »

a



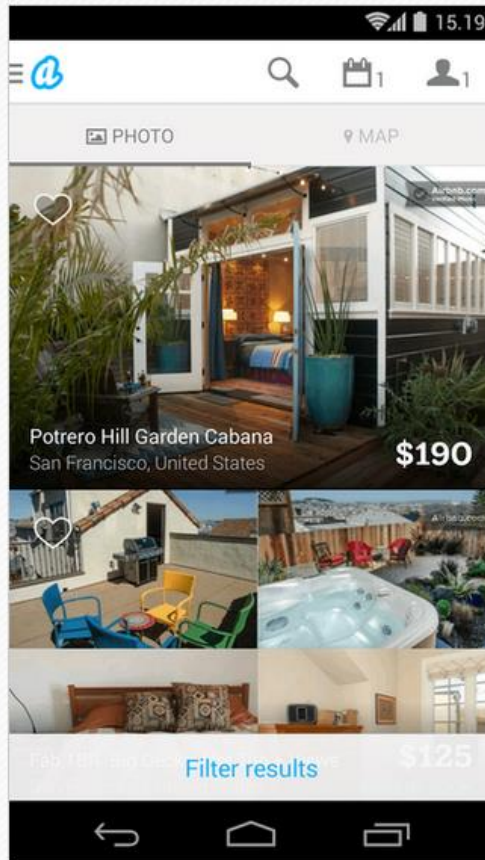
The Verge
Article



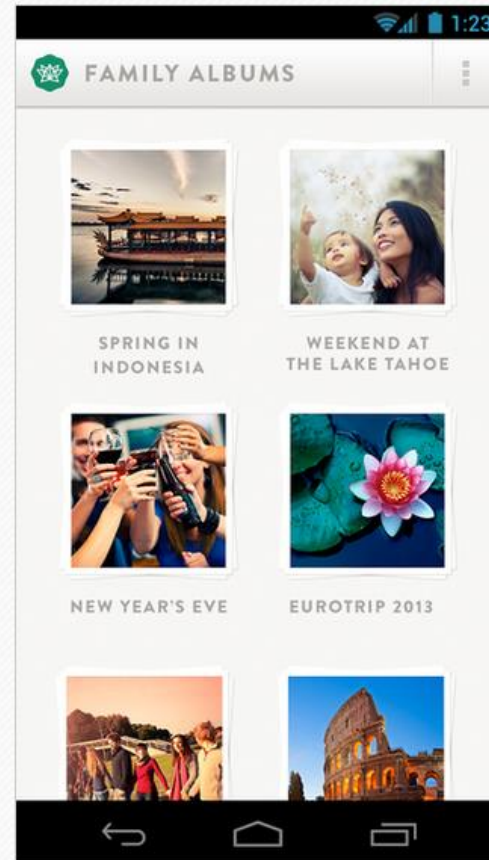
The Verge
List Tab bar

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Thank You

