





For Android Developers

Lee Denison - Developer Programs Engineer
Wes Tarle - Software Engineer



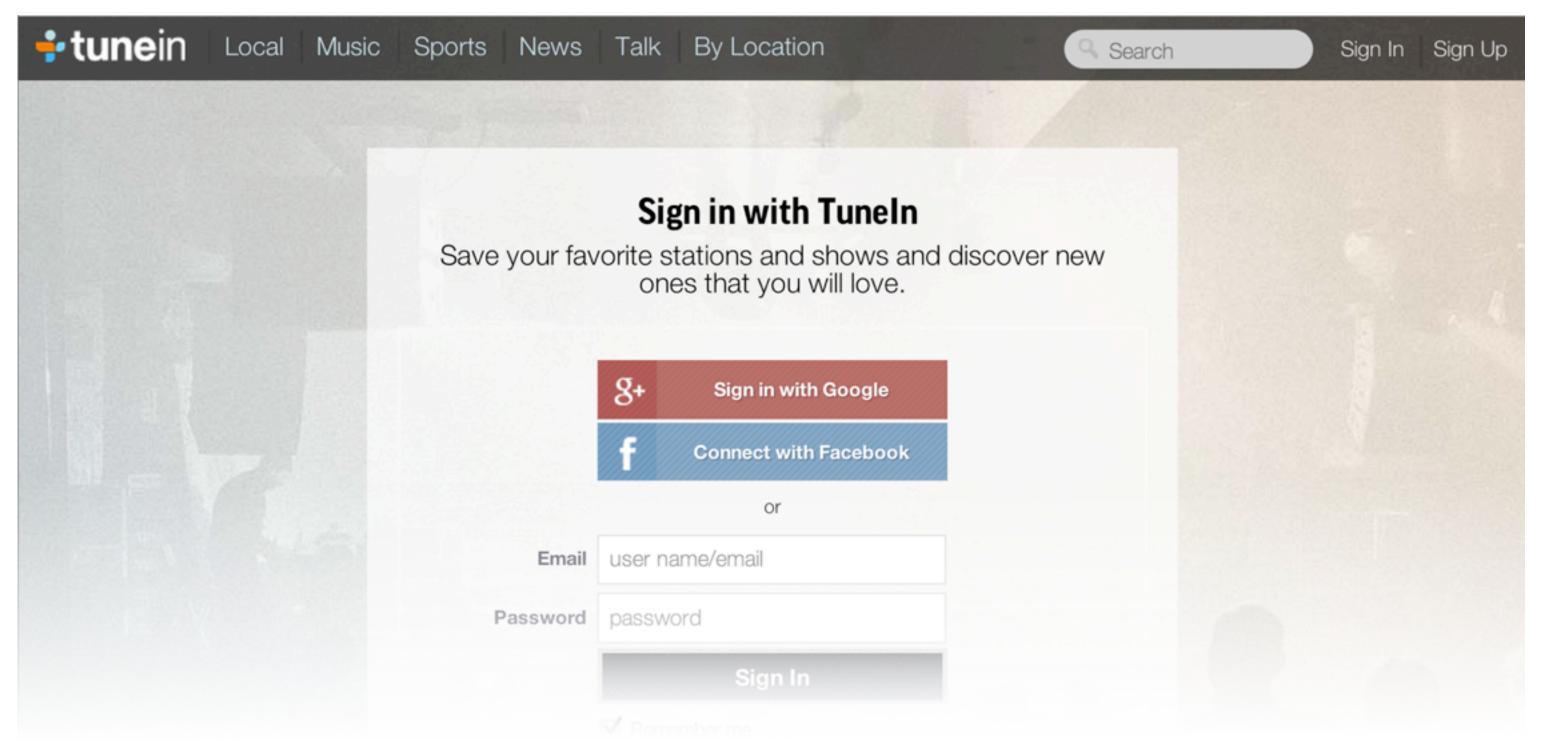
8+

Sign in with Google

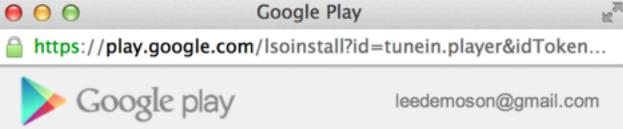


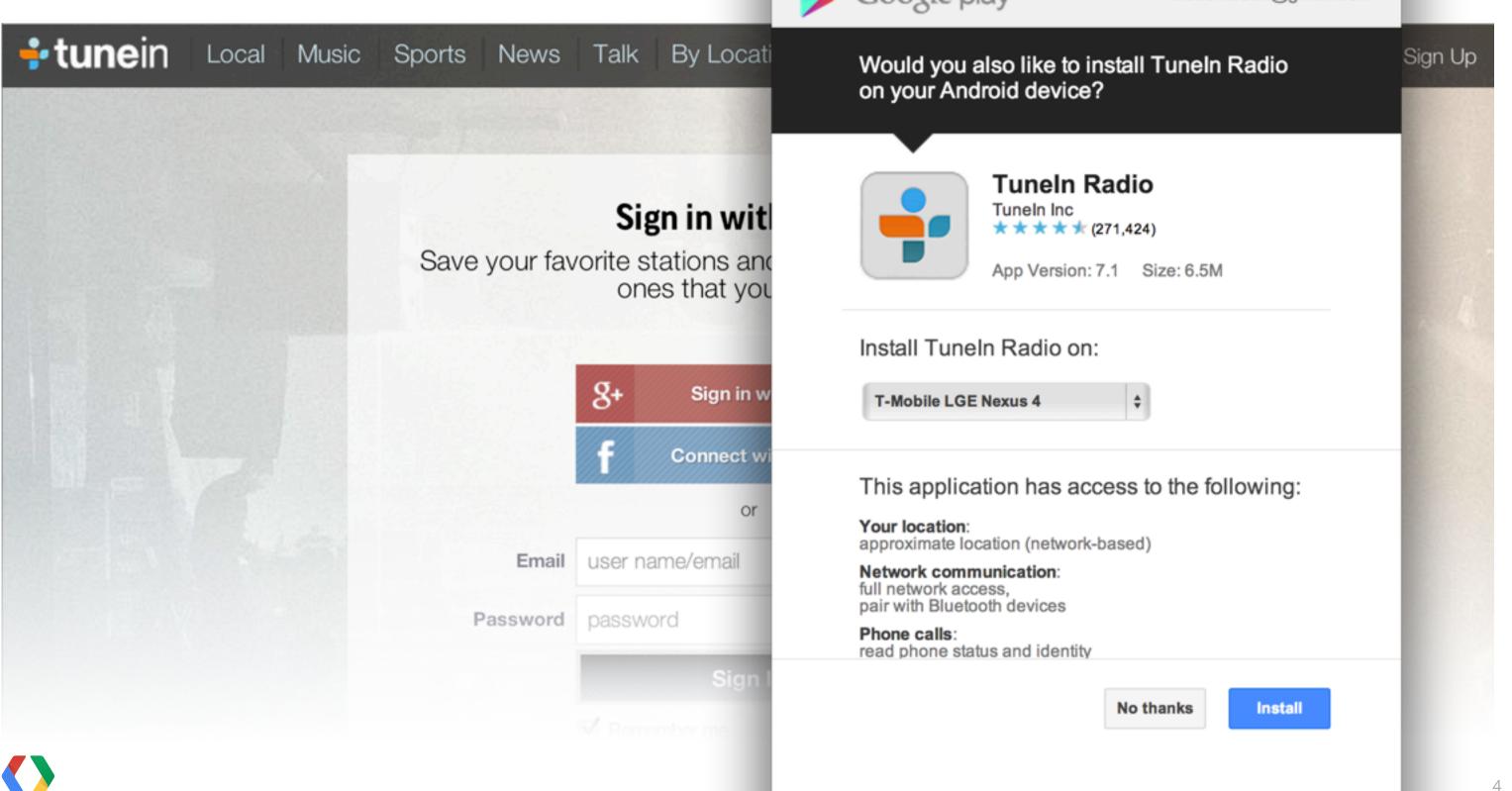
Sign in with Google

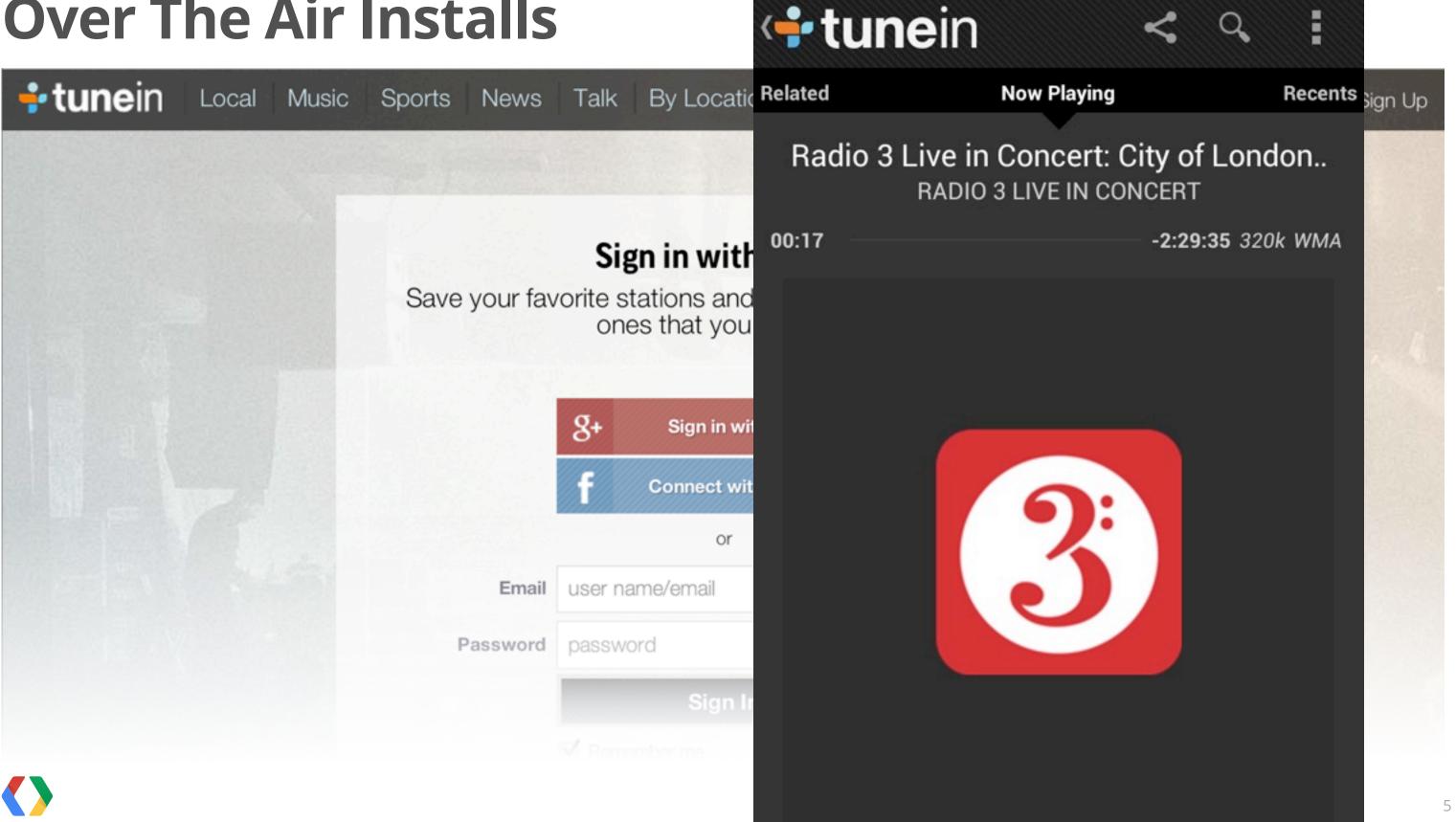








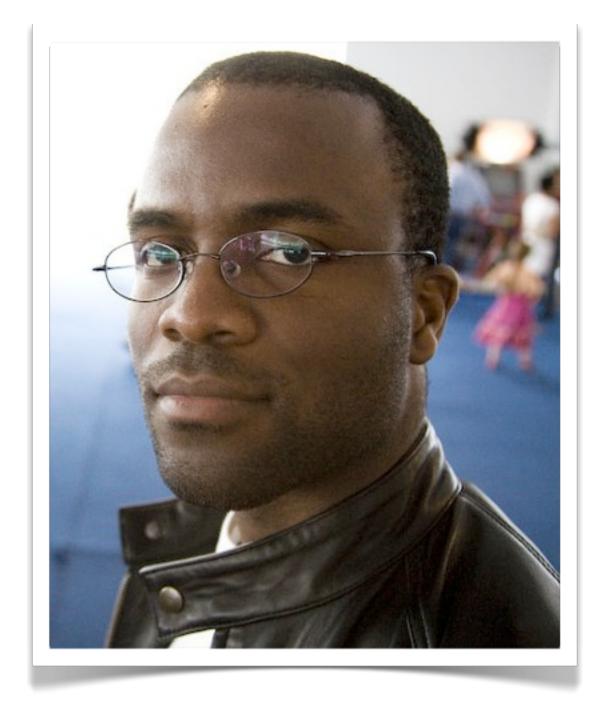




```
<span id="signinButton">
    <span
        class="g-signin"
        data-callback="signinCallback"
        data-clientid="CLIENT_ID"
        data-cookiepolicy="single_host_origin"
        data-apppackagename="com.example.android.package"
        data-requestvisibleactions="http://schemas.google.com/AddActivity"
        data-scope="https://www.googleapis.com/auth/plus.login">
        </span>
</span>
```



Find out more...



Google+ Sign-In For Web Apps





Trusted Identity Platform Sign in with Google





Trusted Identity Platform Sign in with Google

Device Accounts

Uses accounts already registered on the device.



Trusted Identity Platform Sign in with Google

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Uses accounts already registered on the device.

Token Management

Handles OAuth2.0 exchanges.

Takes care of token management and caching.





Trusted Identity Platform

8+

Sign in with Google

Device Accounts

Uses accounts already registered on the device.

Token Management

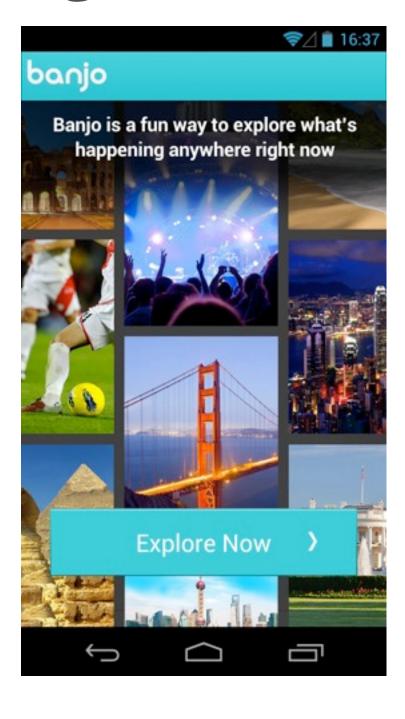
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Takes care of token management and caching.

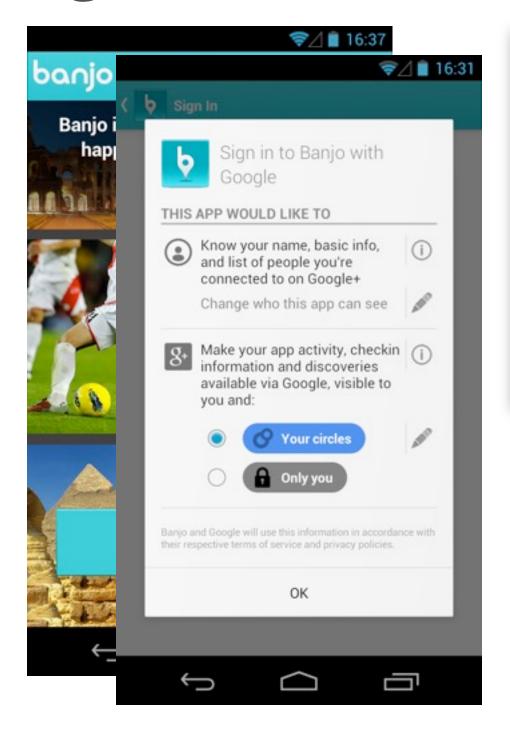
Additional Scopes

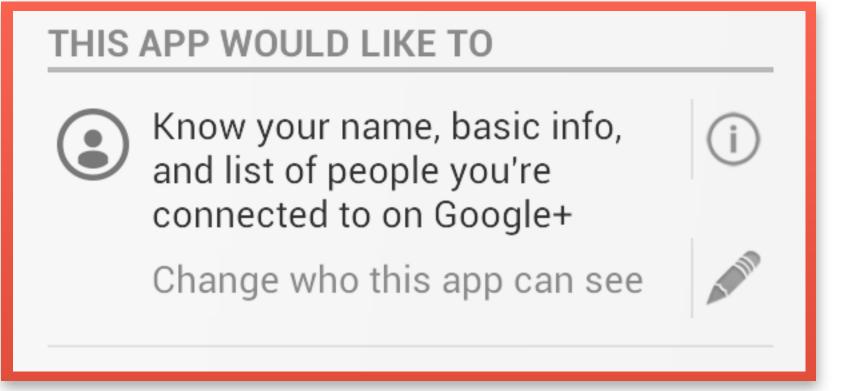
Can be used with additional scopes for other Google APIs.







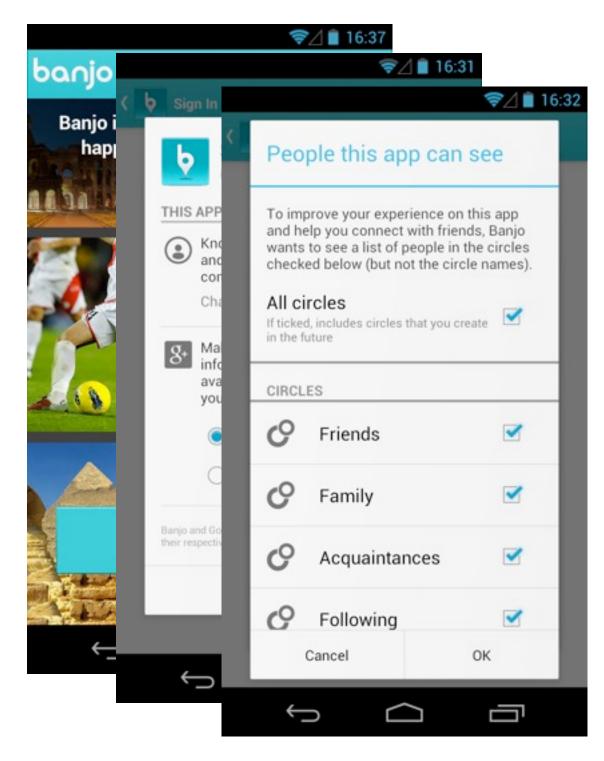




Native Consent Dialog

Keeps the user informed and in control.

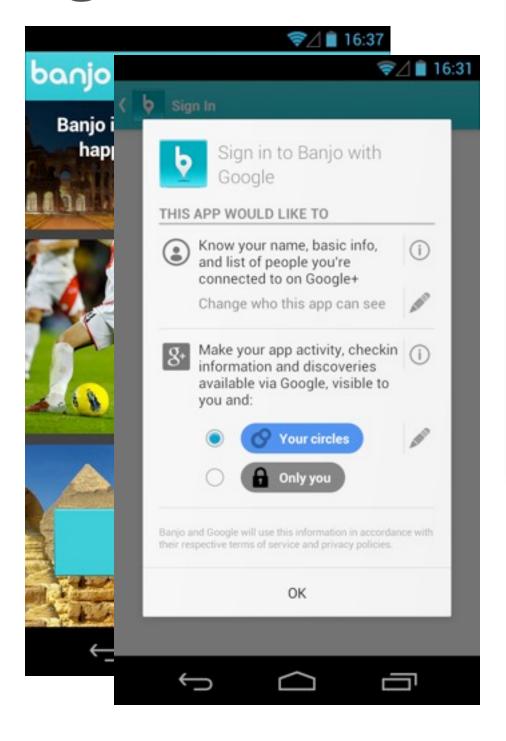


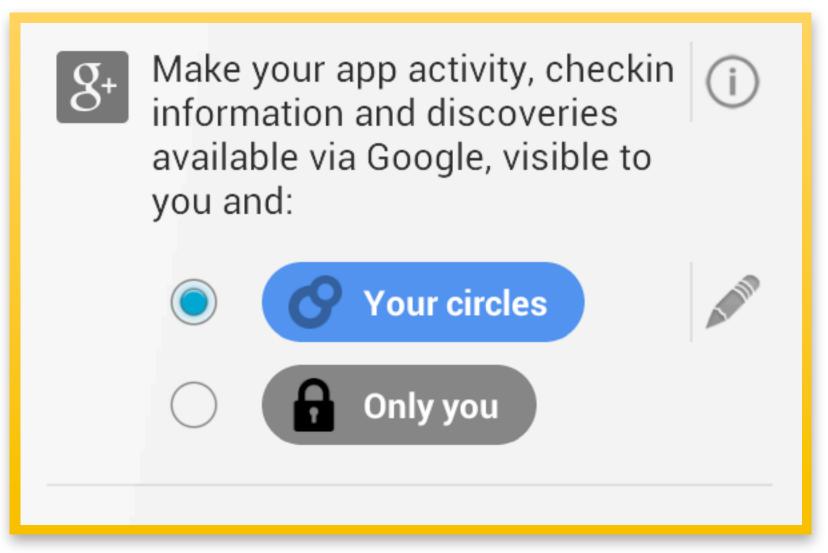


Grant Access To Circles

User controls which circles an app has access to.



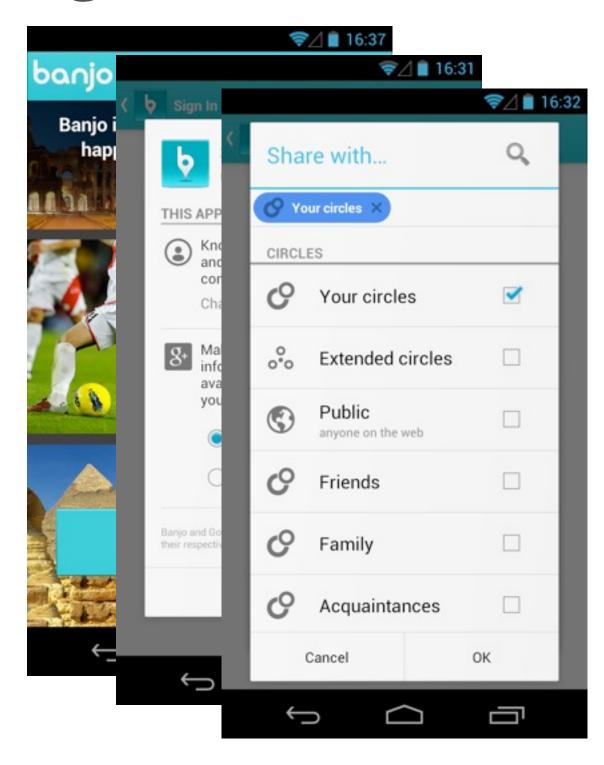




App Activity Visibility

User controls who can see app activities written by this app.





App Activity Visibility

User controls who can see app activities written by this app.







```
ccom.google.android.gms.common.SignInButton
    android:id="@+id/sign_in_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />

public class ExampleActivity extends Activity implements View.OnClickListener,
    ConnectionCallbacks, OnConnectionFailedListener {

    private PlusClient mPlusClient;
    private ConnectionResult mConnectionResult;

    // ...
}
```



```
lava
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    mPlusClient = new PlusClient.Builder(this, this, this)
              .setVisibleActivities("<a href="http://schemas.google.com/AddActivity"">http://schemas.google.com/AddActivity</a>",
                  "http://schemas.google.com/ListenActivity")
              .build();
    findViewById(R.id.sign_in_button).setOnClickListener(this);
protected void onStart() {
    super.onStart();
    mPlusClient.connect();
protected void onStop() {
    super.onStop();
    mPlusClient.disconnect();
```

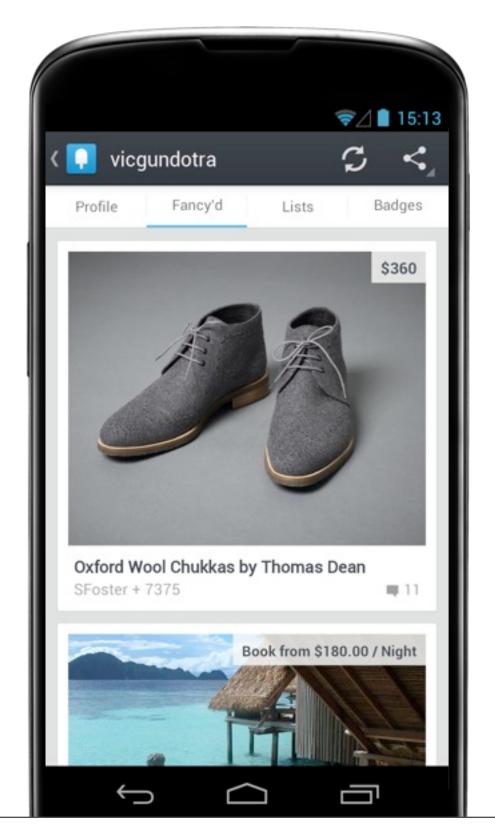


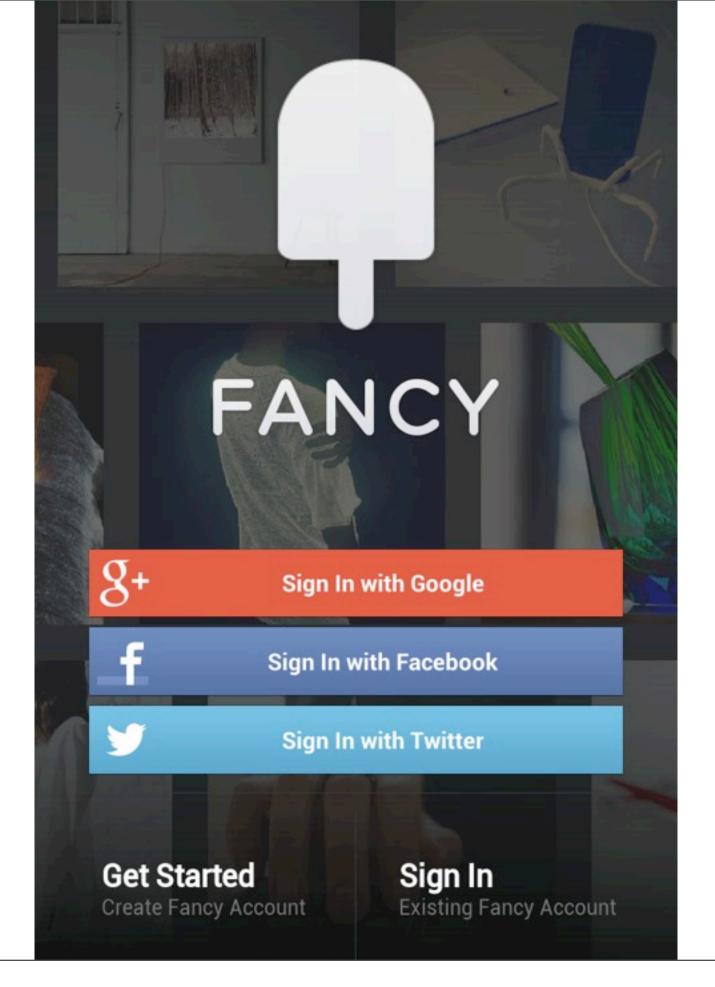


```
Java
public void onClick(View view) {
    if (view.getId() == R.id.sign_in_button && !mPlusClient.isConnected() && mConnectionResult != null) {
        try {
            mConnectionResult.startResolutionForResult(this, REQUEST_CODE_RESOLVE_ERR);
        } catch (SendIntentException e) {
            mConnectionResult = null;
            mPlusClient.connect();
protected void onActivityResult(int requestCode, int responseCode, Intent intent) {
    if (requestCode == REQUEST_CODE_RESOLVE_ERR && responseCode == RESULT_OK) {
        mConnectionResult = null;
       mPlusClient.connect();
```



App Personalisation











App Personalisation

Social Graph

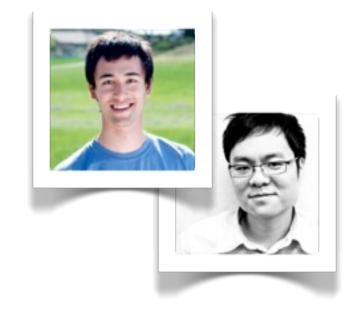
```
lava
public class MyActivity extends Activity implements
        ConnectionCallbacks, OnConnectionFailedListener, PlusClient.OnPeopleLoadedListener {
    public void onConnected() {
        mPlusClient.loadPeople(this, Person.Collection.VISIBLE);
    public void onPeopleLoaded(ConnectionResult status, PersonBuffer personBuffer, String nextPageToken) {
        if (status.isSuccessful()) {
            try {
                int count = personBuffer.getCount();
                for (int i = 0; i < count; i++) {</pre>
                   Log.d(TAG, "Display Name: " + personBuffer.get(i).getDisplayName());
            } finally {
                personBuffer.close();
```



Authentication Models

Find out more...

Cross-Platform Authenticationwith Google+ Sign-In

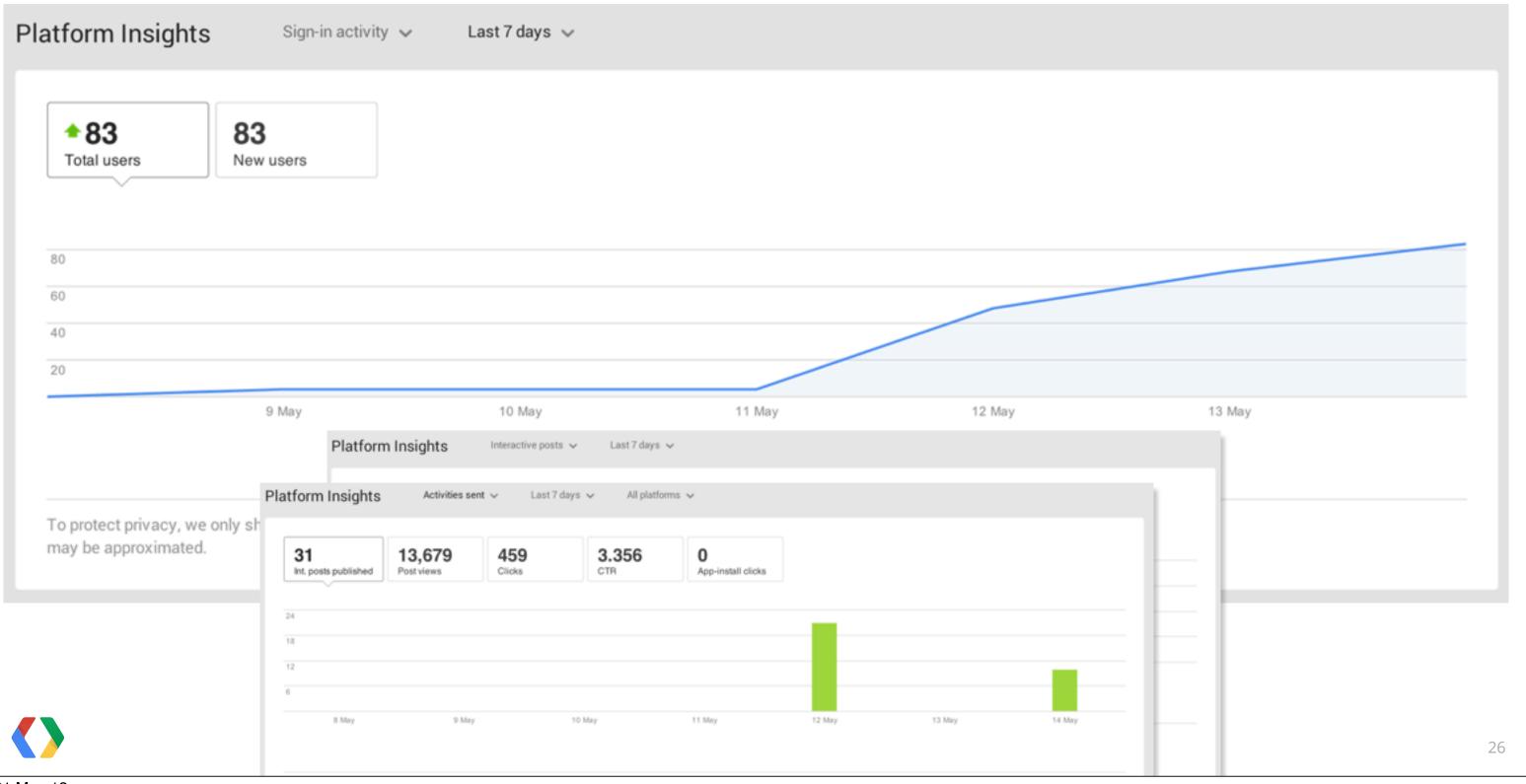




How to offer Google+ Sign-In alongside other social sign in services

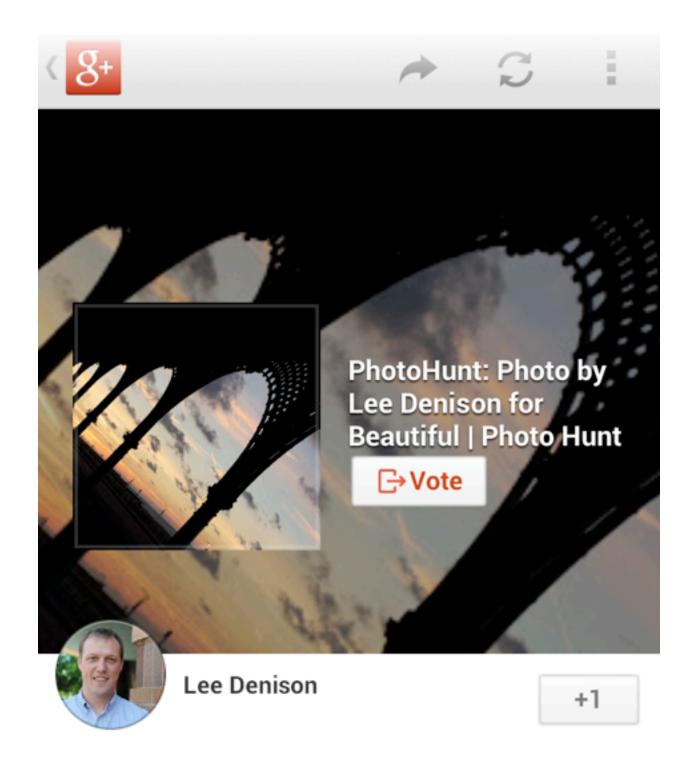


Google+ Sign-In Insights



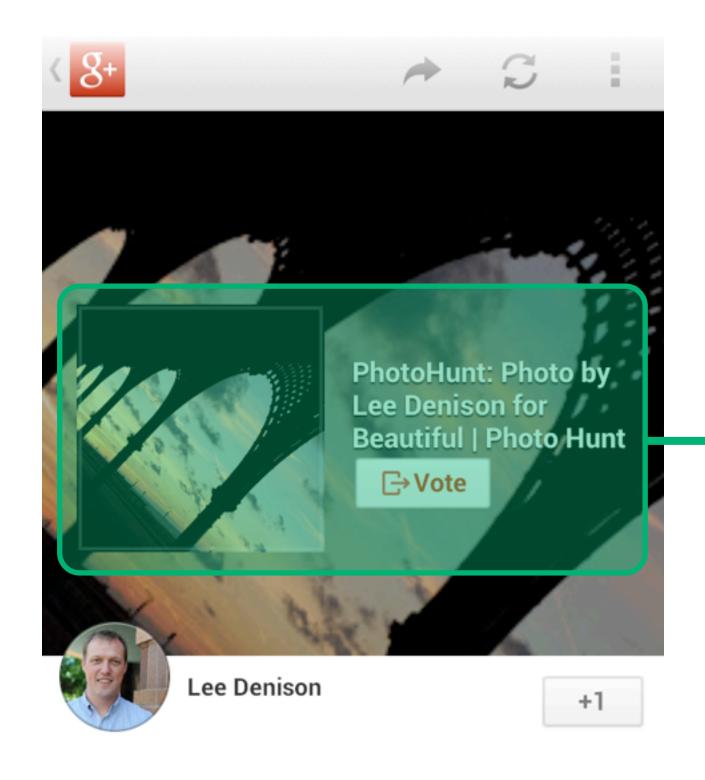






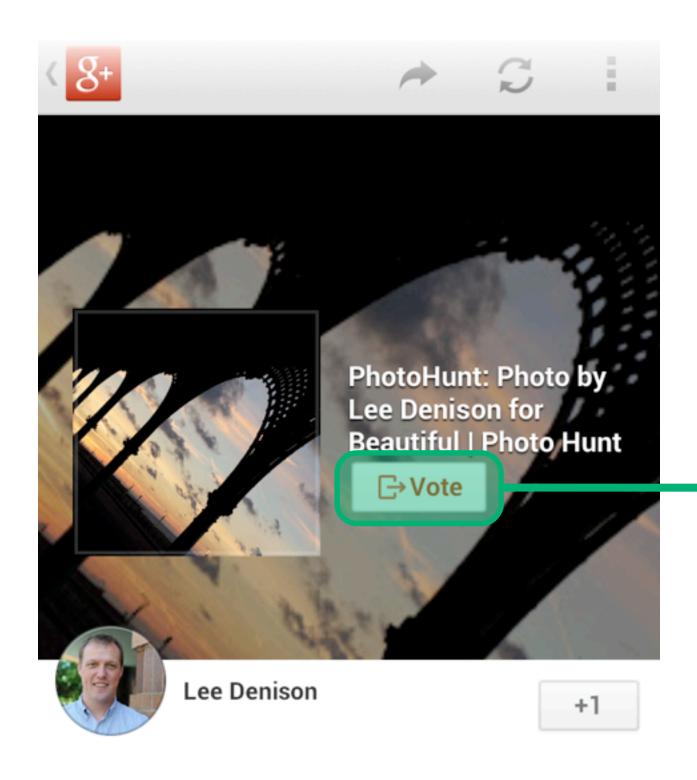






1. Content Target



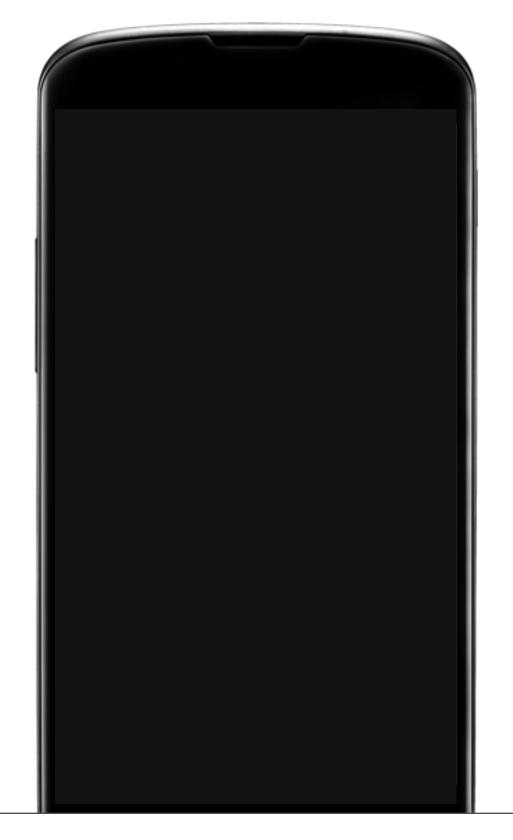


1. Content Target

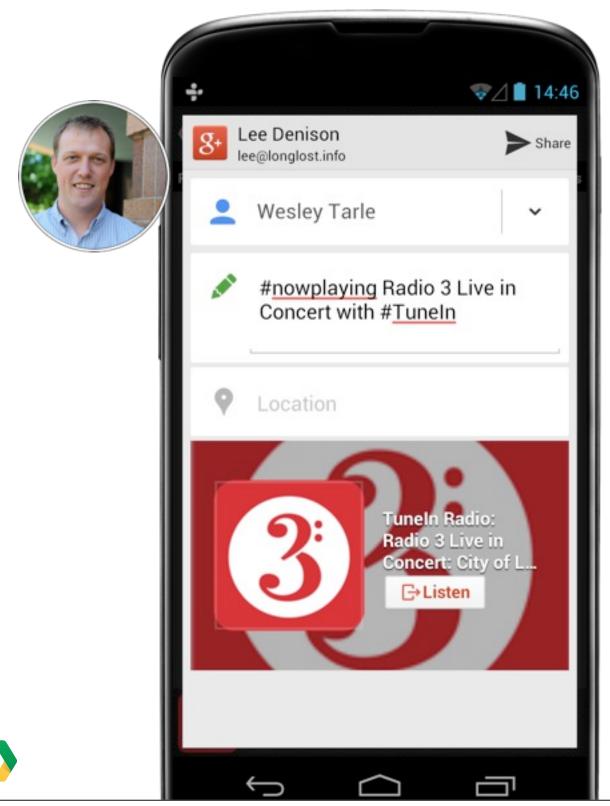
2. Action Target







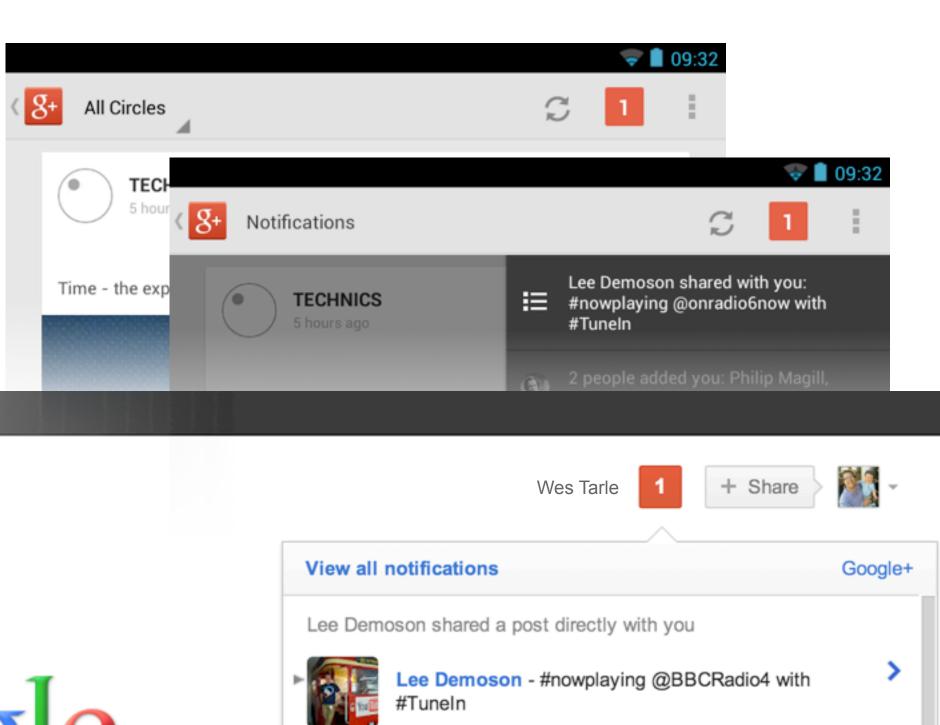






Maps

More -

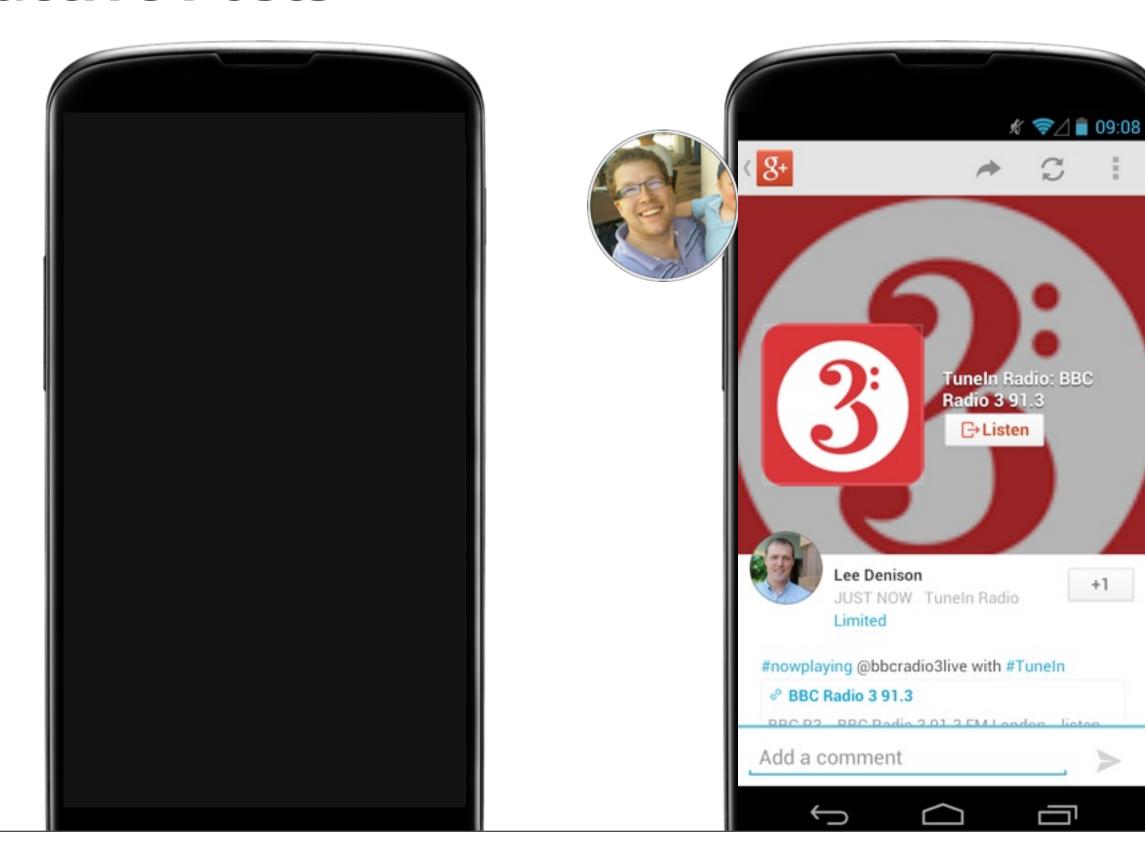






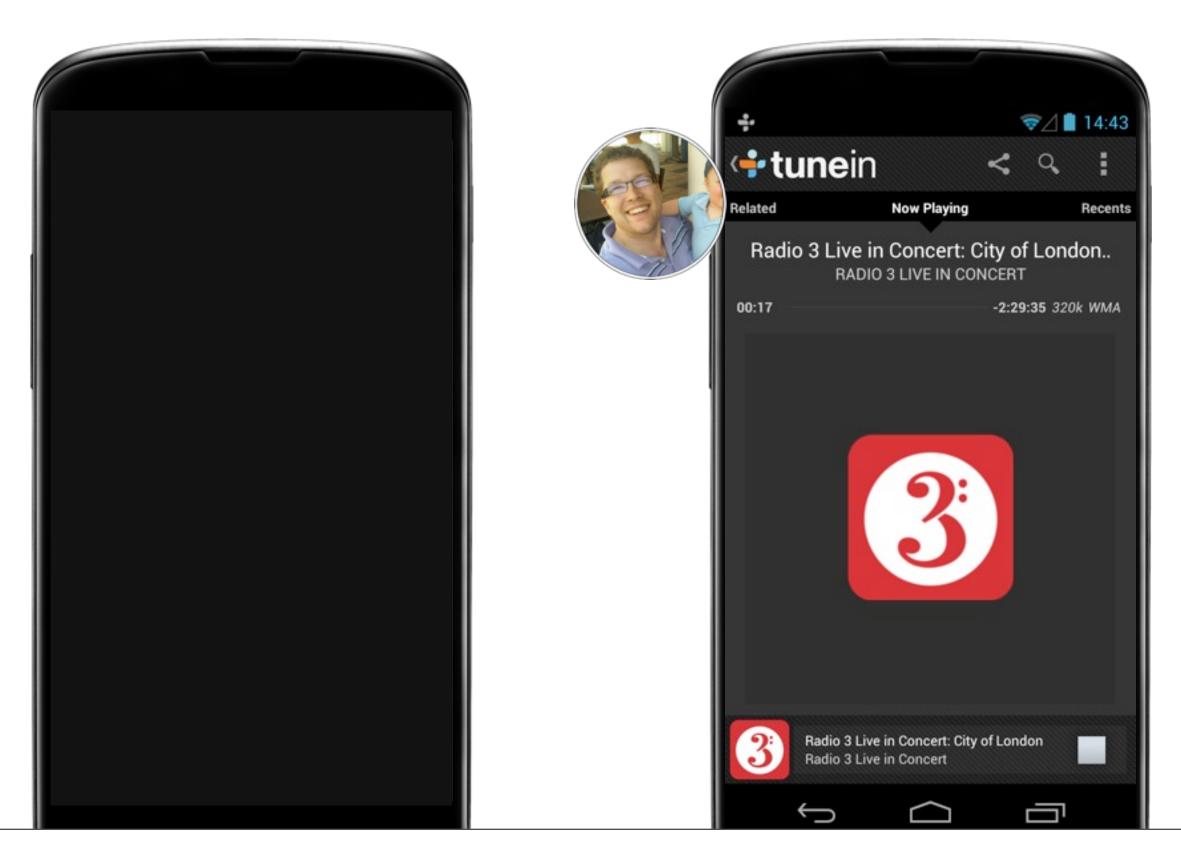
Lee Demoson - I just used Shazam to discover Feeling Good by 4leks Feat. Nina Simone.



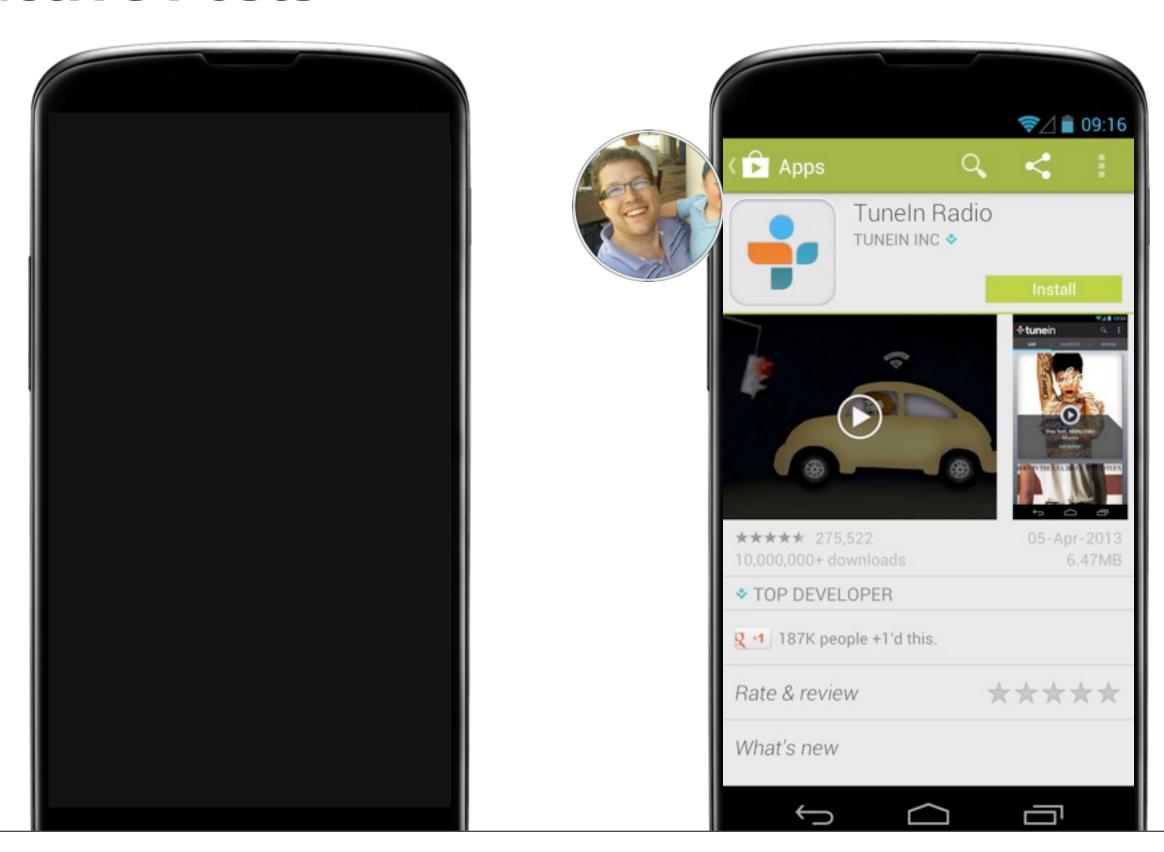




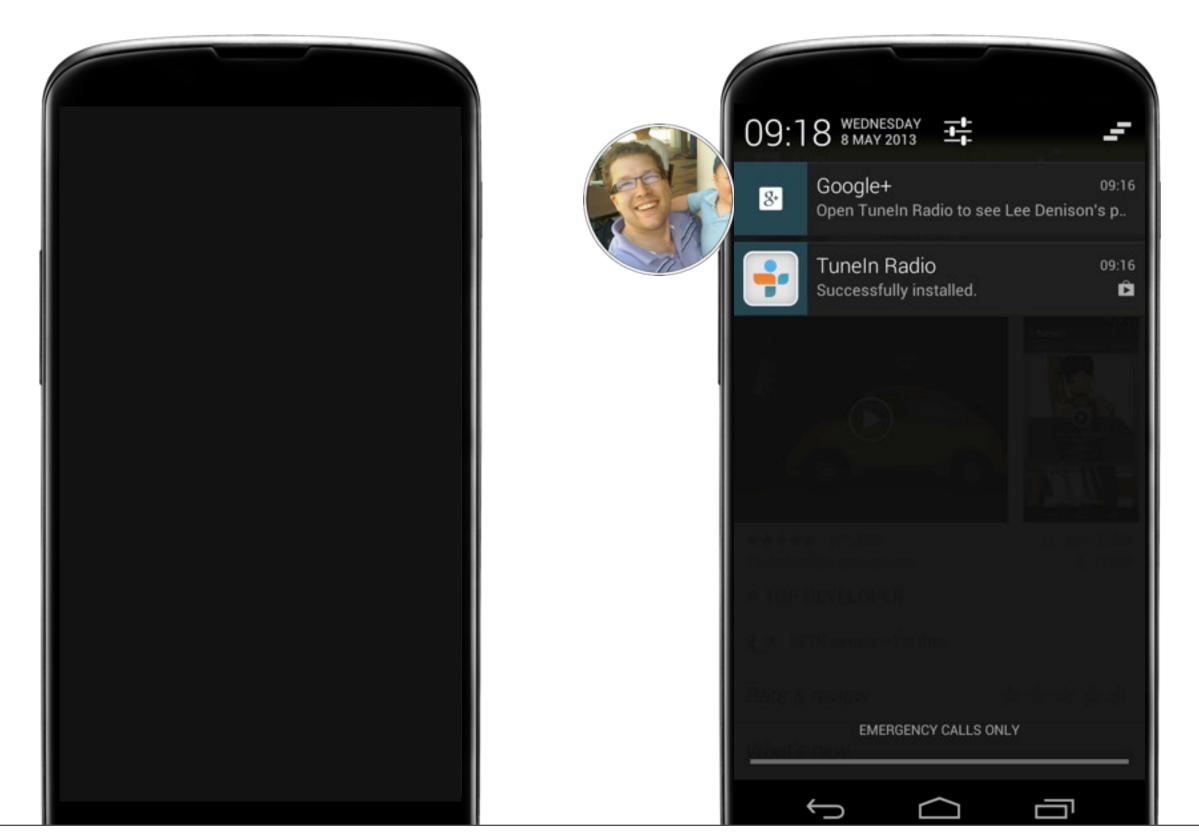
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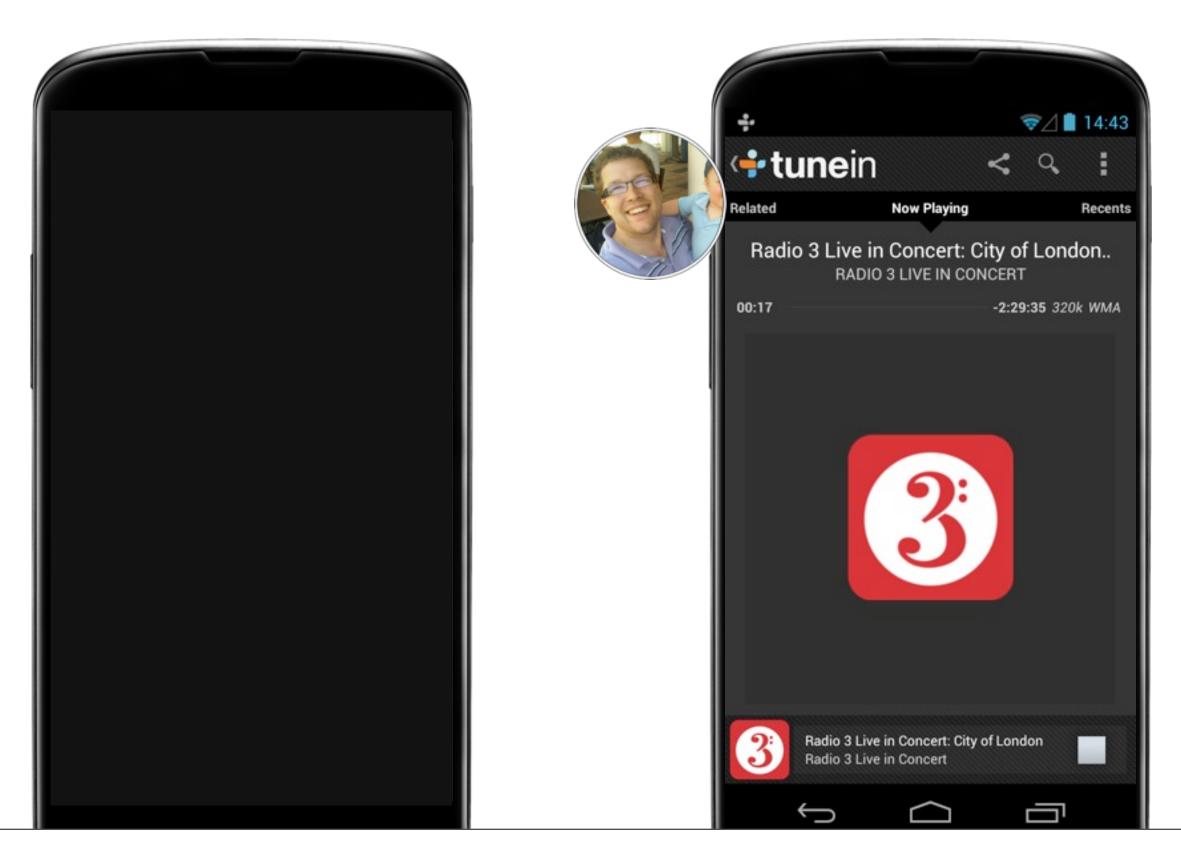


















Sending Interactive Posts



Handling Interactive Posts



Handling Interactive Posts

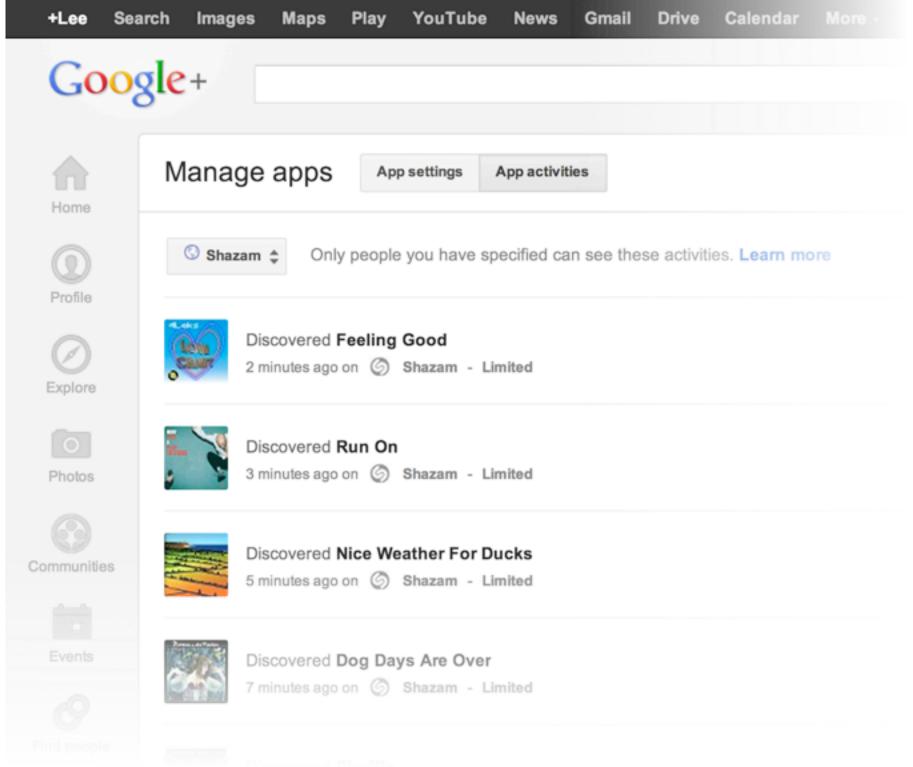
```
lava
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   Uri deepLink = Uri.parse(PlusShare.getDeepLinkId(this.getIntent()));
   Intent target = new Intent();
   // Parse /song/mysongid/?action=play
   if (deepLink.isHierarchical() && deepLink.getPath().startsWith("/song/")) {
        target.putExtra("songId", deepLink.getLastPathSegment());
        if (deepLink.getQueryParameters("action").contains("play")) {
            target.putExtra("action", "play");
        target.setClass(getApplicationContext(), SongActivity.class);
   } else {
        target.setClass(getApplicationContext(), MainActivity.class);
   startActivity(target);
   finish();
```





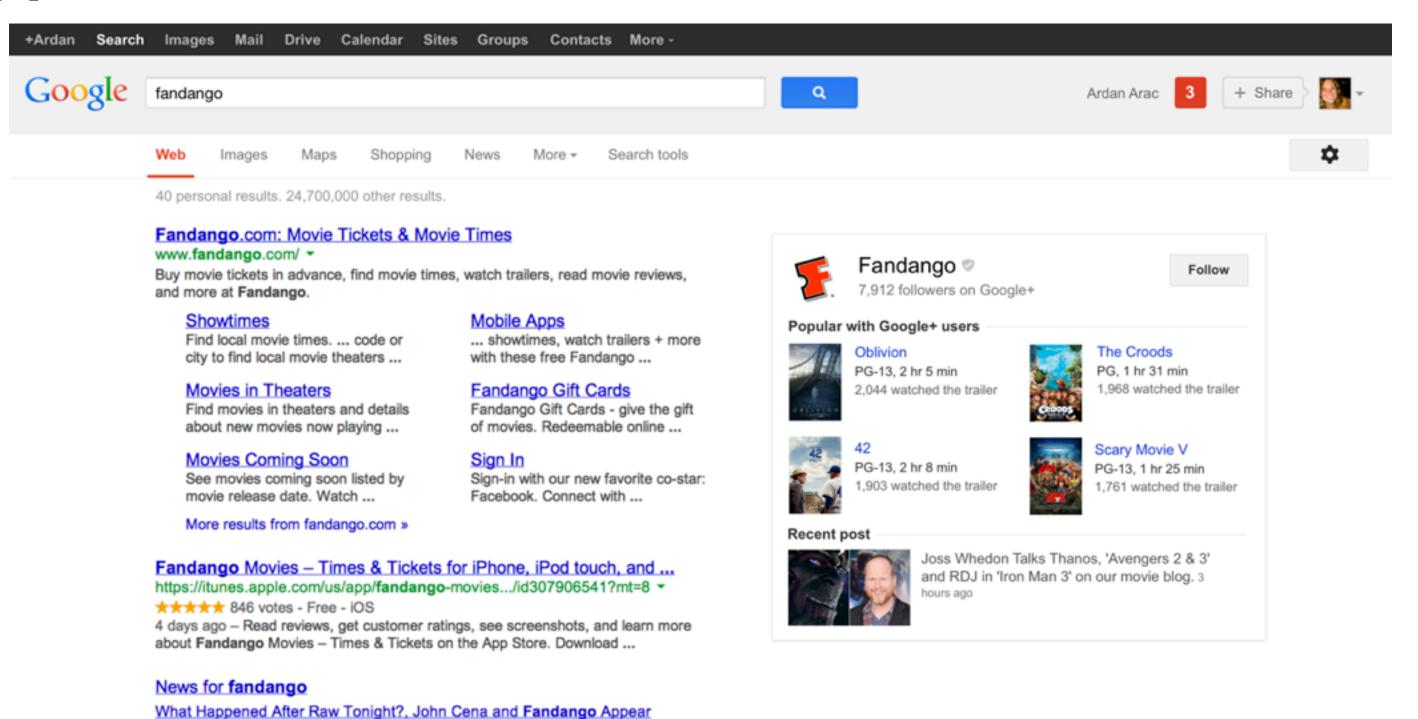








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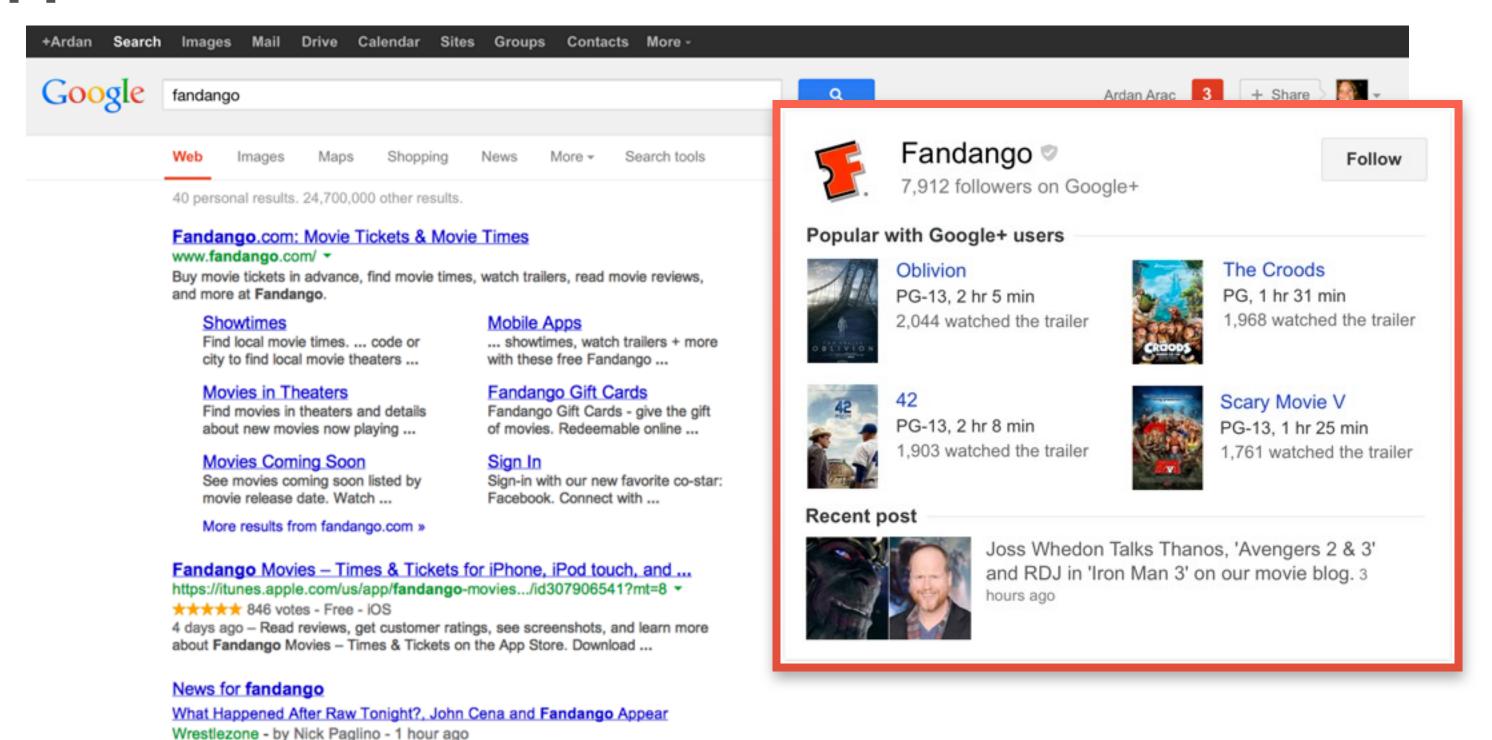




Thanks to Clarke laneldo for sending in the following: After Raw went off the air

tonight, there was no dark match, but John Cena addressed the ...

Wrestlezone - by Nick Paglino - 1 hour ago





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tonight, there was no dark match, but John Cena addressed the ...





Writing App Activities

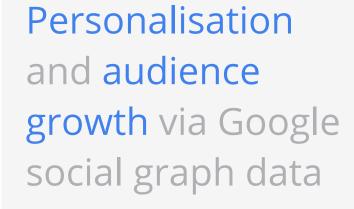
```
lava
if (mPlusClient.isConnected()) {
   ItemScope target = new ItemScope.Builder()
        .setId("myuniqueidforthissong")
        .setText("When Johnny Comes Marching Home")
        .setDescription("A song about missing one's family members fighting in the American Civil War")
        .setThumbnailUrl("http://example.com/images/albumThumb.png")
        .setType("http://schema.org/MusicRecording")
        .build();
   Moment moment = new Moment.Builder()
        .setType("http://schemas.google.com/ListenActivity")
        .setTarget(target)
        .build();
   mPlusClient.writeMoment(moment);
```



Android installs

via web-to-mobile delivery

User growth via targeted social sharing









Sign-in from a trusted provider

8+

Sign in with Google



Make your app more social with G+

Panel Discussion

Google Play Office Hours Booth

Where: 3rd Floor

When: 12:15 pm







<Thank You!>



https://developers.google.com/+
https://developer.android.com/google/play-services/

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Wes Tarle westarle@google.com

