



Google
Developers



An Introduction to Integrating Google+ Sign-In



Jonathan Beri

Developer Advocate, Google+
[google.com/+JonathanBeri](https://plus.google.com/+JonathanBeri)



Ridhima Kedia

Technical Lead, Google+

Agenda

+The Google+ Sign-In Button

+Personalizing Your App

+Involve Close Friends with Targeted Sharing

+Surfacing Relevant Actions Across Google



A man and a woman are looking through a circular hole in a wall. The man is on the left, wearing a white shirt and glasses. The woman is on the right, wearing a pink cowboy hat and a blue shirt. The wall is decorated with many colorful handprints in various colors (red, yellow, green, blue, orange) pointing in different directions. The text 'Thinking Social' is overlaid on the image.

Thinking Social

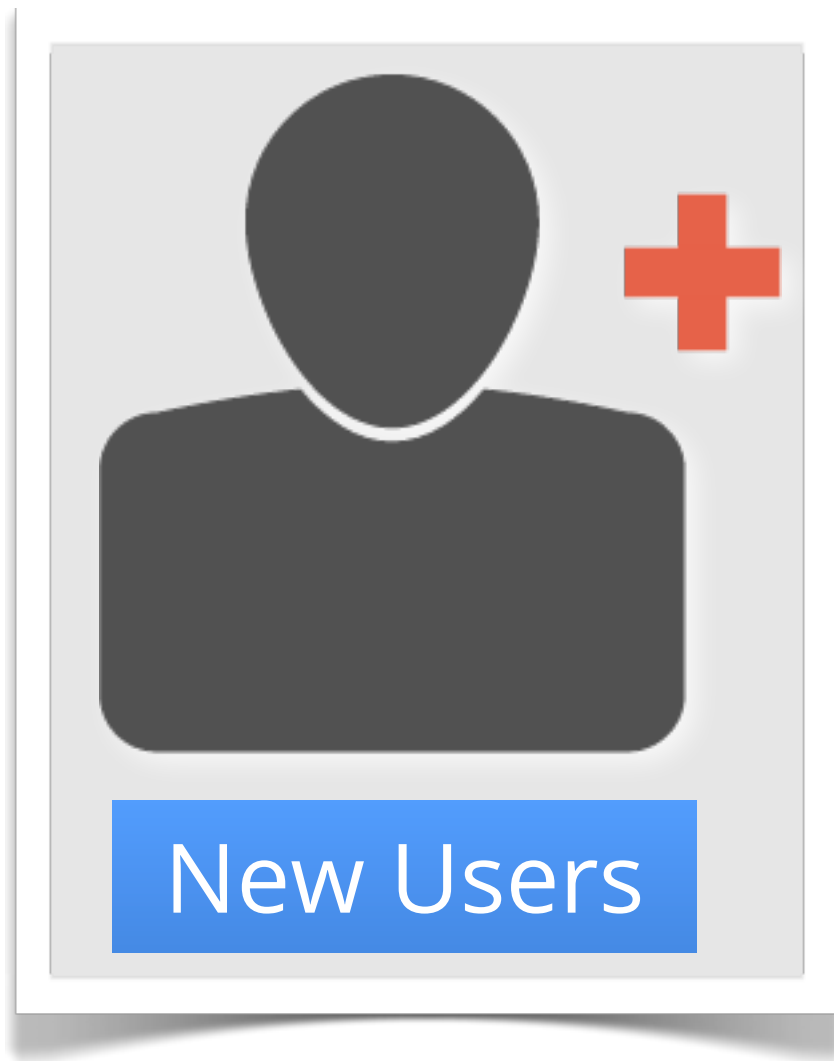
It starts with people and connections

! You

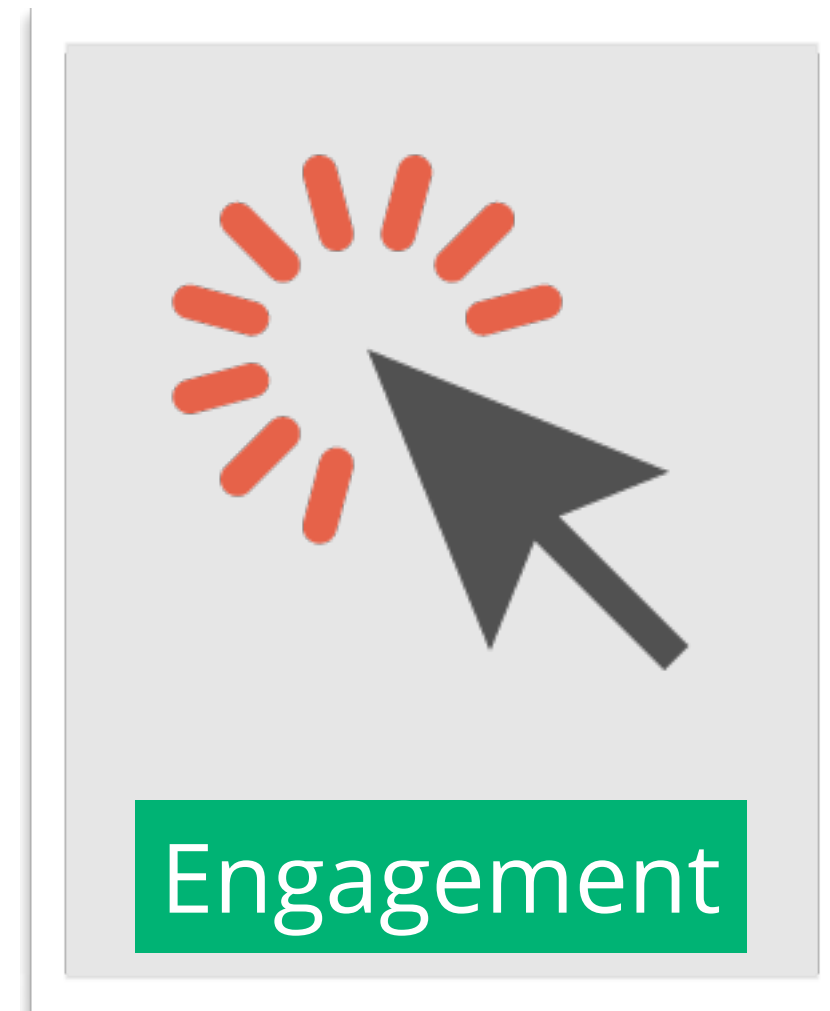
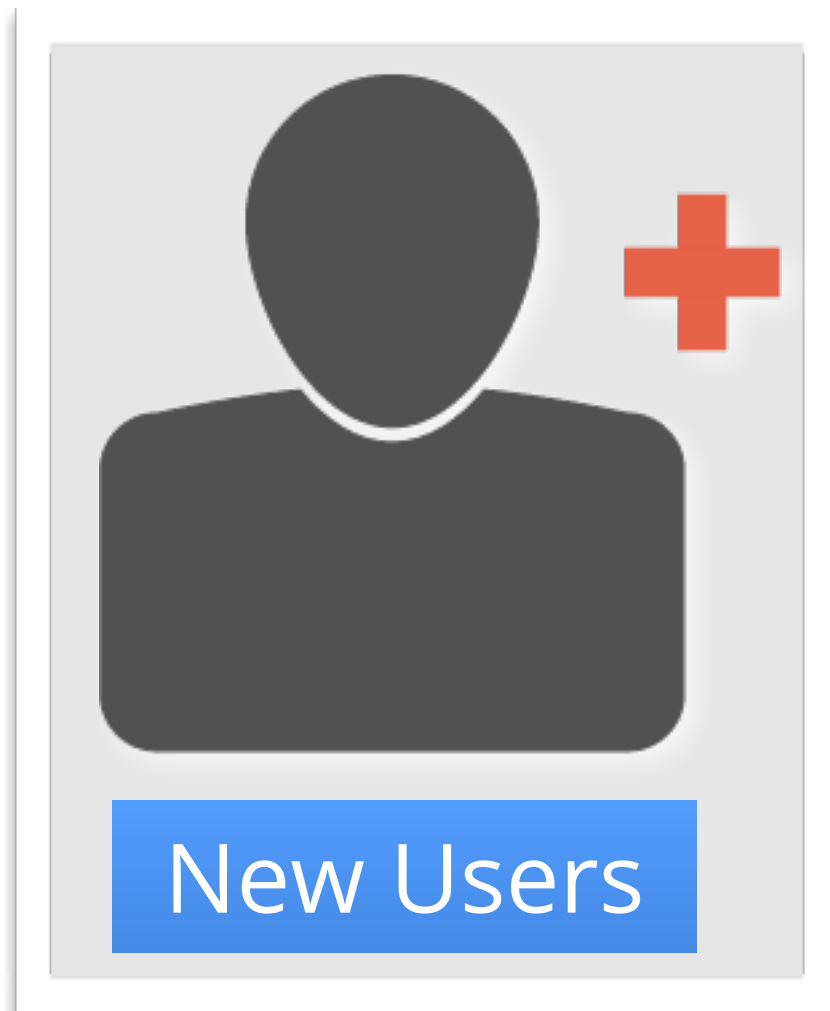
New Users & Engagement



New Users & Engagement



New Users & Engagement





Google+ Sign-In

Capture new users with a button

The Google+ Sign-In Button




Sign in with Google














Request for Permission

https://accounts.google.com/o/oauth2/auth?client_id=865932931174.apps....

Google jberi@google.com

 **Jolicloud** ▾

This app would like to:


-  Know your name, basic info, and list of people you're connected to on Google+ ([Edit list](#)) 
-  View and manage the files and documents in your Google Drive 
-  View your email address 
-  Make your app activity available via Google, visible to you and:
 -  Your circles  + Add more people
 -  Only you

Hike Planner and Google will use this information in accordance with their respective terms of service and privacy policies.








Request for Permission

https://accounts.google.com/o/oauth2/auth?client_id=865932931174.apps...

Google jberi@google.com

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Peter Moletierre

Director of Product Engineering
Fitbit





The Google+ Sign-In Button

Adding the code

Developers.google.com/+

Google+ Platform

- ▶ Quickstart
- ▶ PhotoHunt Sample
- ▶ API Reference

▶ Features

- ▶ Android
- ▶ iOS
- ▶ Websites
- ▶ Hangout Apps

Downloads

Best Practices

Branding Guidelines

Grow your audience across devices

Ten minute quick start

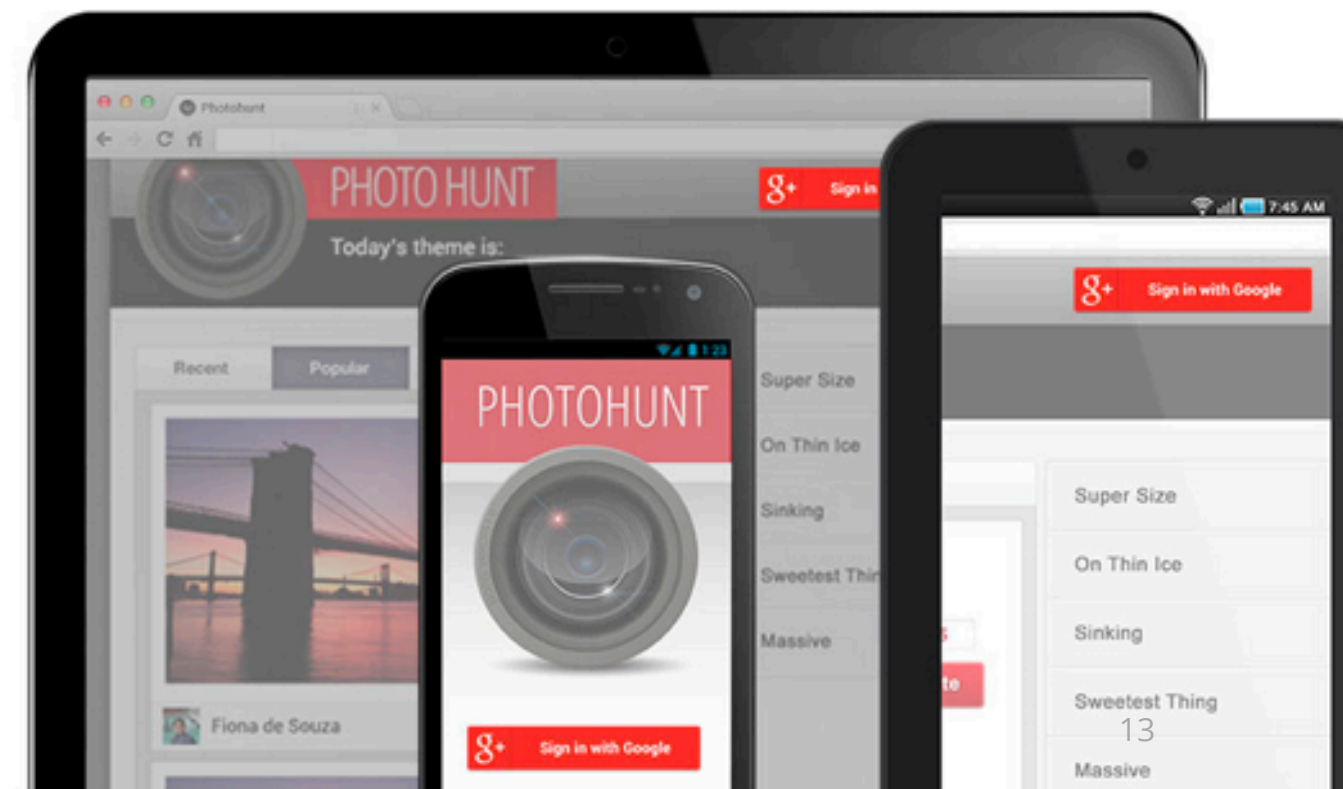
Choose your language:



Google+ Sign-In

Google+ Sign-In is a simple, trusted way to let people sign in with their Google credentials and build even more engaging experiences across desktop and mobile.

[Try our sample app](#)



Code.google.com/apis/console

Edit branding information...

Client ID for web applications

| | |
|---------------------|--|
| Client ID: | 677720978908.apps.googleusercontent.com |
| Email address: | 677720978908@developer.gserviceaccount.com |
| Client secret: | tI4GfcbdLS7w13WO_Iv461yD |
| Redirect URIs: | http://localhost:8080/oauth2callback |
| JavaScript origins: | http://localhost:8080 |

[Edit settings...](#)

[Reset client secret...](#)

[Download JSON](#)



Google+ Sign-In (button): Web

The HTML

HTML

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



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```



Google+ Sign-In (button): Web

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```



Google+ Sign-In (button): Web

The HTML

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<span id="signinButton">  
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    data-scope="https://www.googleapis.com/auth/plus.login"  
    data-cookiepolicy="single_host_origin"  
    data-requestvisibleactions="http://schemas.google.com/AddActivity"  
    data-callback="signinCallback">  
  </span>  
</span>
```



Google+ Sign-In (button): Web

The JavaScript

```
<script type="text/javascript" >
  (function() {
    var po = document.createElement('script');
    po.type = 'text/javascript'; po.async = true;
    po.src = 'https://apis.google.com/js/client/plusone.js';
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(po, s);
  })();
</script>
```

JS



Google+ Sign-In (button): Web

The JavaScript

```
<script type="text/javascript" >
  (function() {
    var po = document.createElement('script');
    po.type = 'text/javascript'; po.async = true;
    po.src = 'https://apis.google.com/js/client/plusone.js';
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(po, s);
  })();
</script>
```

JS



Google+ Sign-In (button): Web

App Installs: Over-The-Air

HTML

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



Google+ Sign-In (button): Web

App Installs: Over-The-Air

HTML

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



Google+ Sign-In (button): Android

Google Play Services & PlusClient

Java

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    mPlusClient = new PlusClient.Builder(this, this, this)
        .setScopes(Scopes.PLUS_LOGIN)
        .setVisibleActivities("http://schemas.google.com/AddActivity")
        .build();
    mPlusClient.connect();
}
```



Google+ Sign-In (button): iOS

iOS Framework

Obj-C

```
#import <GooglePlus/GooglePlus.h>
#import <GoogleOpenSource/GoogleOpenSource.h>

- (BOOL)application:(UIApplication *)application
    didFinishLaunchingWithOptions:(NSDictionary *)launchOptions {
    GPPSignIn *signIn = [GPPSignIn sharedInstance];
    signIn.clientID = @"CLIENT_ID";
    signIn.scopes = @[@"https://www.googleapis.com/auth/plus.login"];
    signIn.actions = @[@"http://schemas.google.com/AddActivity"];
}
```







Personalizing Your App

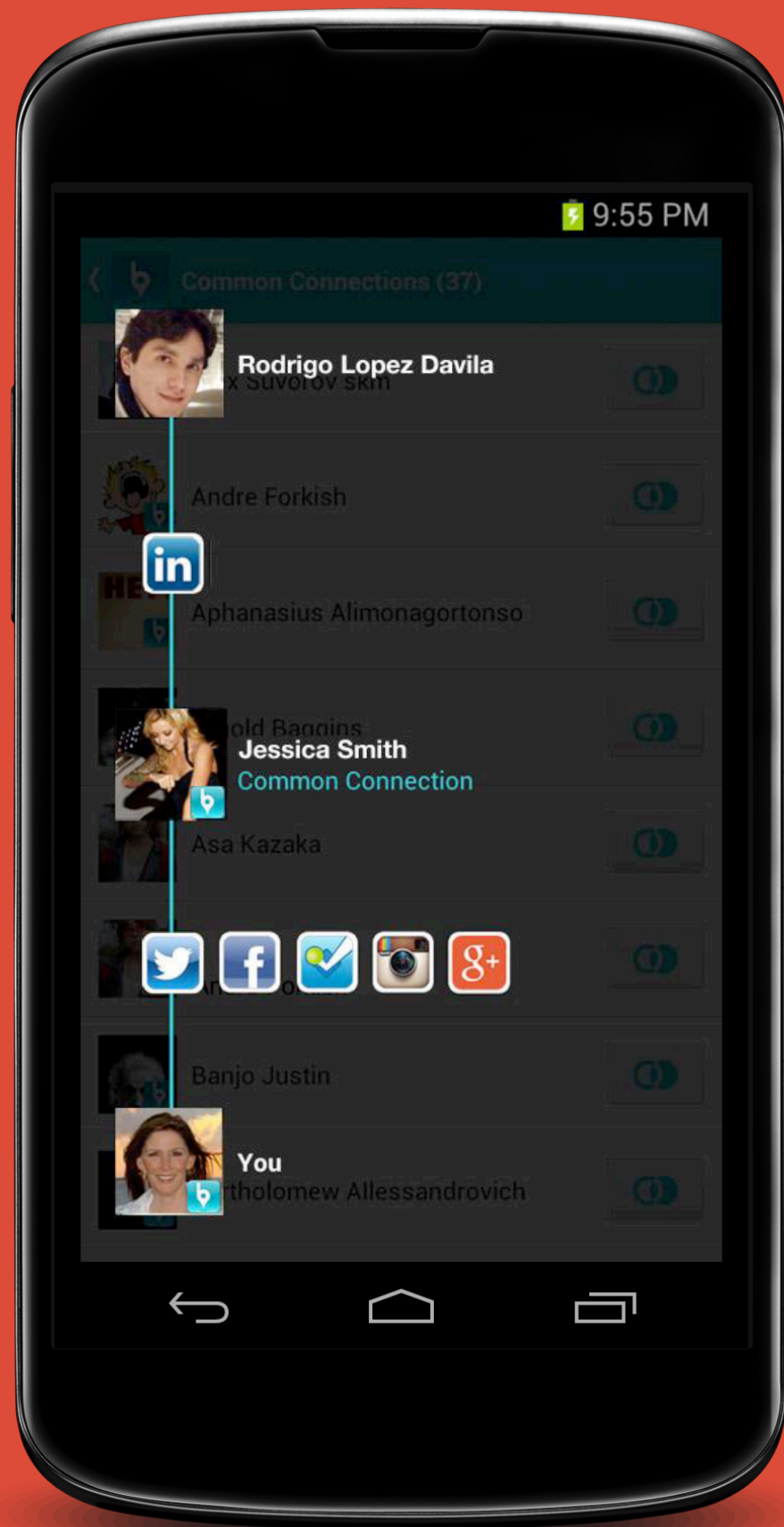
Integrating profile and connection data more deeply

Quickly Create Profiles

The screenshot shows a web browser window with the address bar displaying `www.flixster.com/user/946947128/`. The page features the Flixster logo and a search bar. The main content area is divided into several sections:

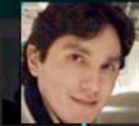
- User Profile:** A profile card for **Jon Beri** with a profile picture. It shows statistics: 0 Collected, 6 Ratings, 6 Friends, and 4 Want To See.
- Navigation:** A row of tabs: Summary (active), Collection, Want To See List, Ratings, and Friends.
- My Collection:** A section with the text "Jon doesn't own any movies yet."
- My Want To See List:** A section with a "View All (4)" link. It displays a movie entry for **Robot & Frank (2012)** with an 87% rating and the text "On DVD Feb 12, 2013".
- My Friends:** A section with a "View All (6)" link, showing a grid of friend profile pictures and names: Ayush Agarwal, Ryan Brack, Jonathan Beri, Luke Ravitch, Chirag Shah, and Chris Cartland.
- My Activity:** A section with a "View All (4)" link, showing a recent activity for **Robot & Frank (2012)** with an 87% rating, noted as "11 minutes ago via Flixster".





9:55 PM

Common Connections (37)



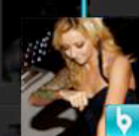
Rodrigo Lopez Davila



Andre Forkish



Aphanasius Alimonagortonso



Jessica Smith

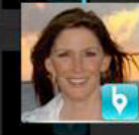
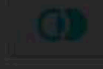
Common Connection



Asa Kazaka



Banjo Justin



You

tholomew Alessandrovich





Personalizing Your App

Adding the code

Personalizing Your App

Retrieve a profile

```
gapi.client.load('plus', 'v1', function() {  
  var request = gapi.client.plus.people.get({  
    'userId': "me"  
  });  
  request.execute(function(resp) {  
    console.log('Retrieved profile:' + resp.displayName);  
  });  
});
```

JS



Personalizing Your App

Retrieve a profile

```
gapi.client.load('plus', 'v1', function() {  
  var request = gapi.client.plus.people.get({  
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JS



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  });  
  request.execute(function(resp) {  
    console.log('Retrieved profile:' + resp.displayName);  
  });  
});
```

JS



Personalizing Your App

Retrieve a list of friends

```
var friends = gapi.client.plus.people.list({
  'userId': "me",
  'collection': "visible"
});
friends.execute(function(resp) {
  console.log('Num people visible:' + resp.totalItems);
});
```

JS



Personalizing Your App

Retrieve a list of friends

```
var friends = gapi.client.plus.people.list({  
  'userId': "me",  
  'collection': "visible"  
});  
friends.execute(function(resp) {  
  console.log('Num people visible:' + resp.totalItems);  
});
```



JS








Involve Close Friends with Targeted Sharing

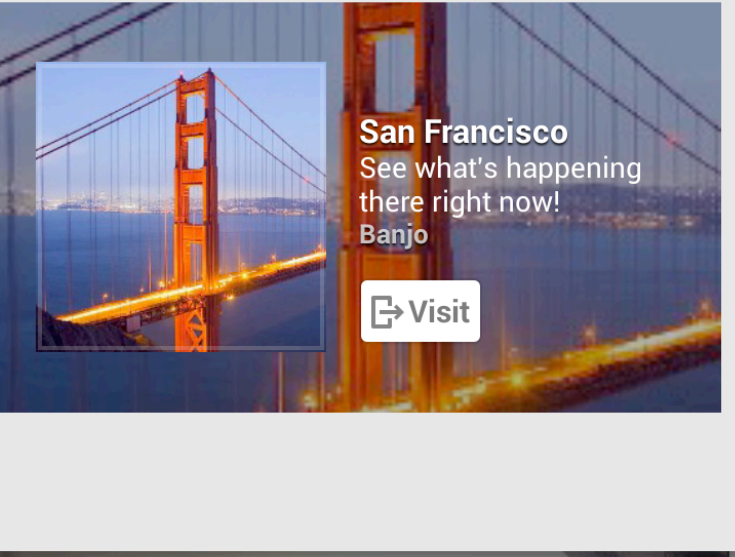
Get friends to join from the stream with Interactive Posts

 Jonathan Beri
jmberi@gmail.com  Share


 Public, tim@example.com 

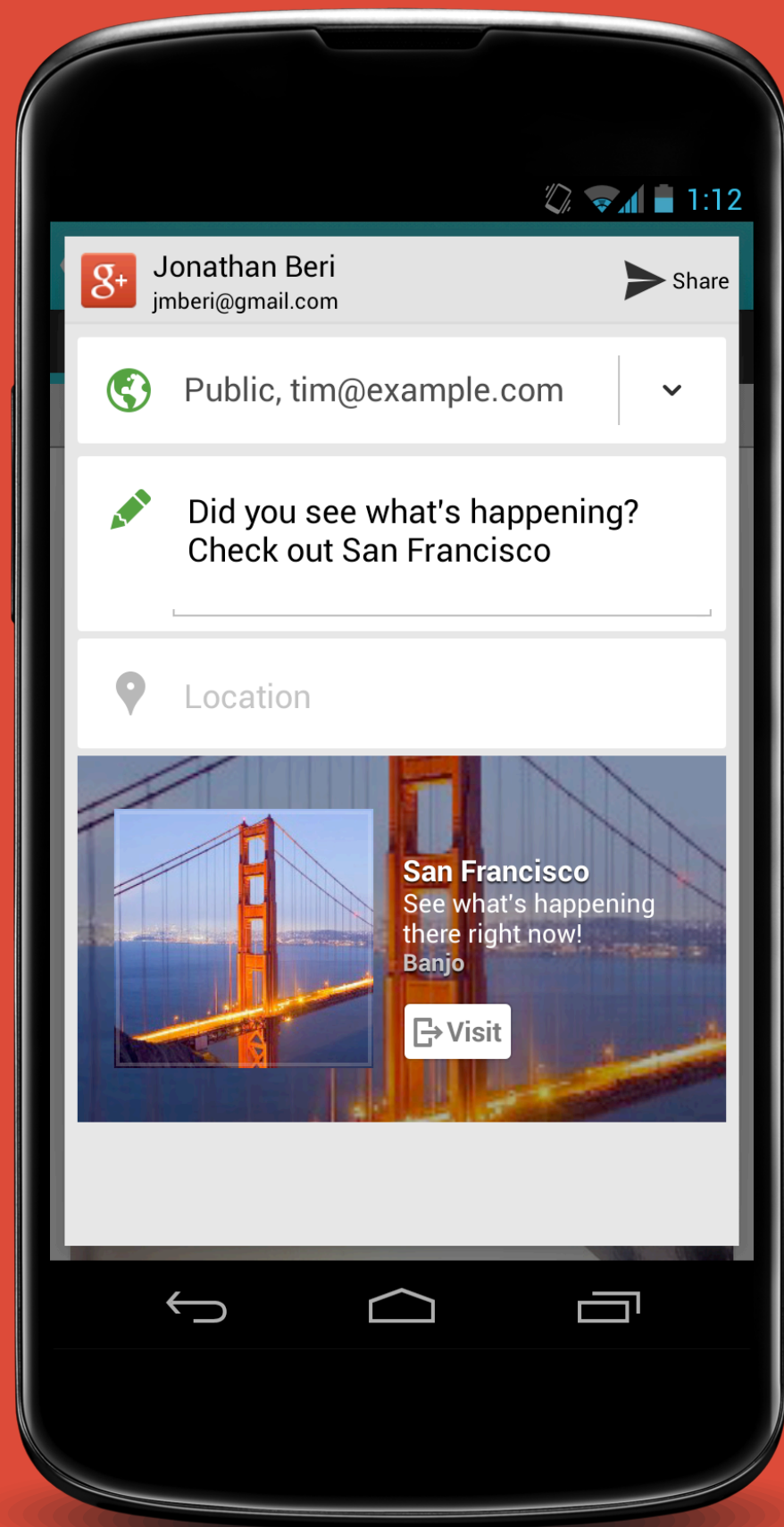
 Did you see what's happening?
Check out San Francisco

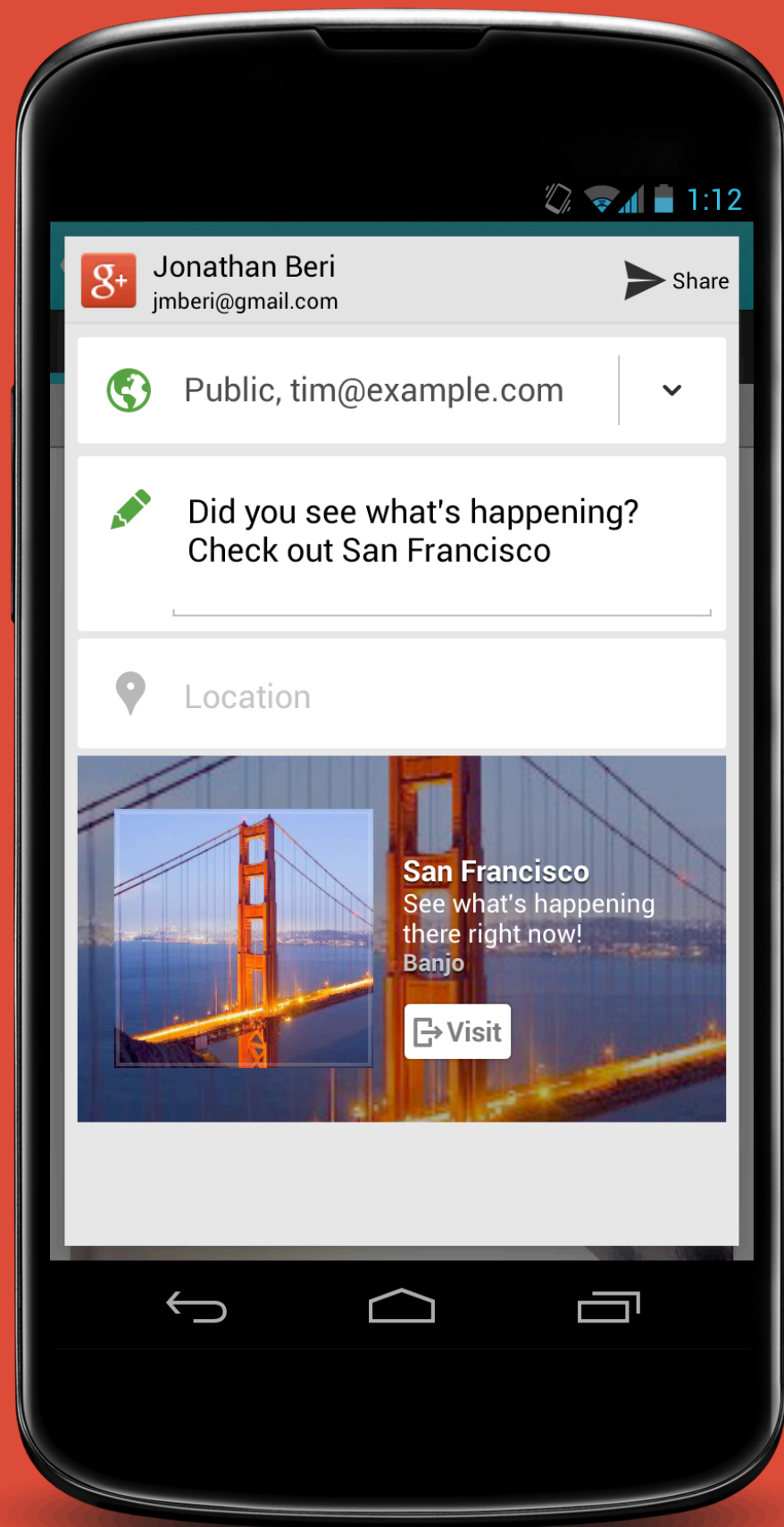
 Location

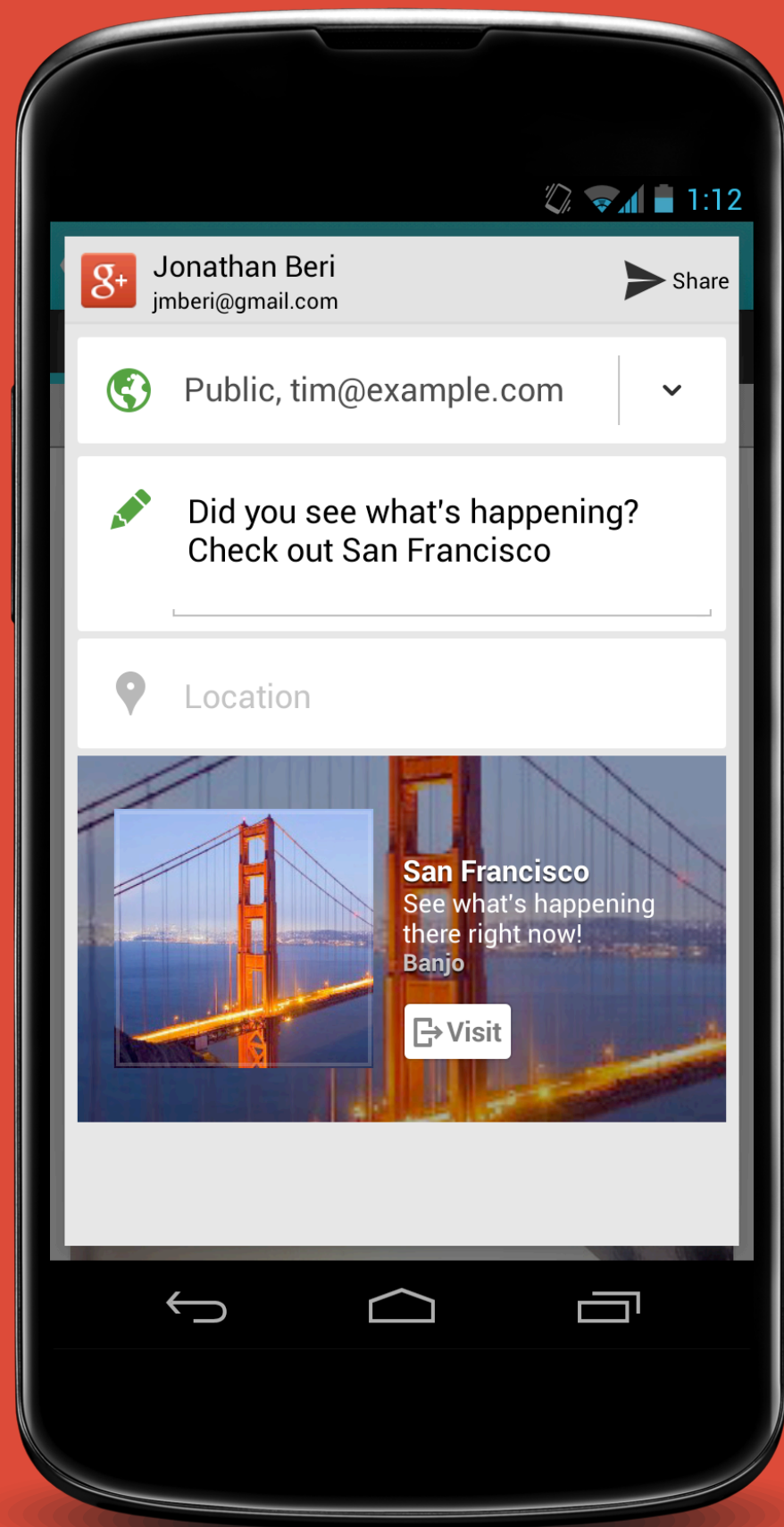


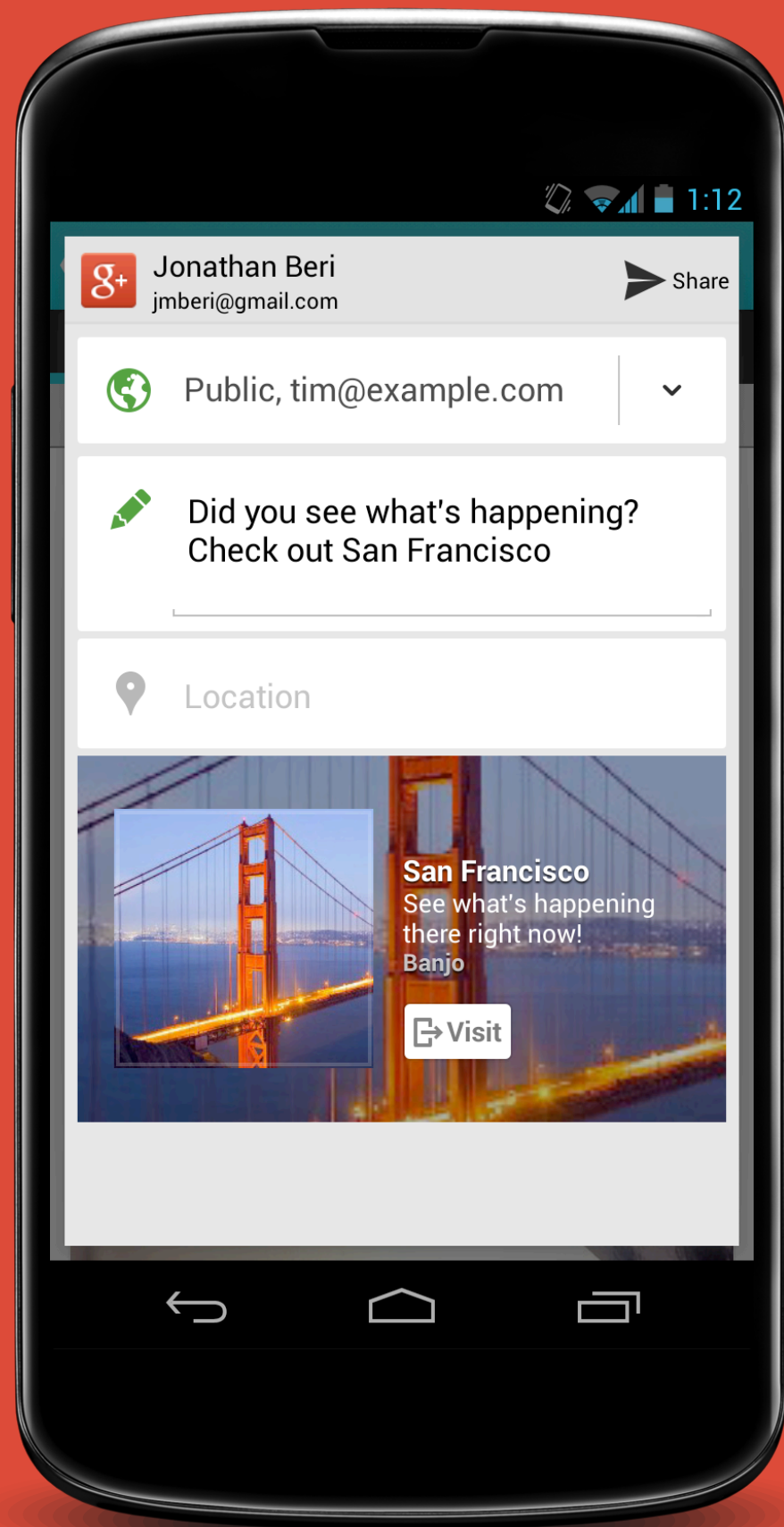
San Francisco
See what's happening there right now!
Banjo

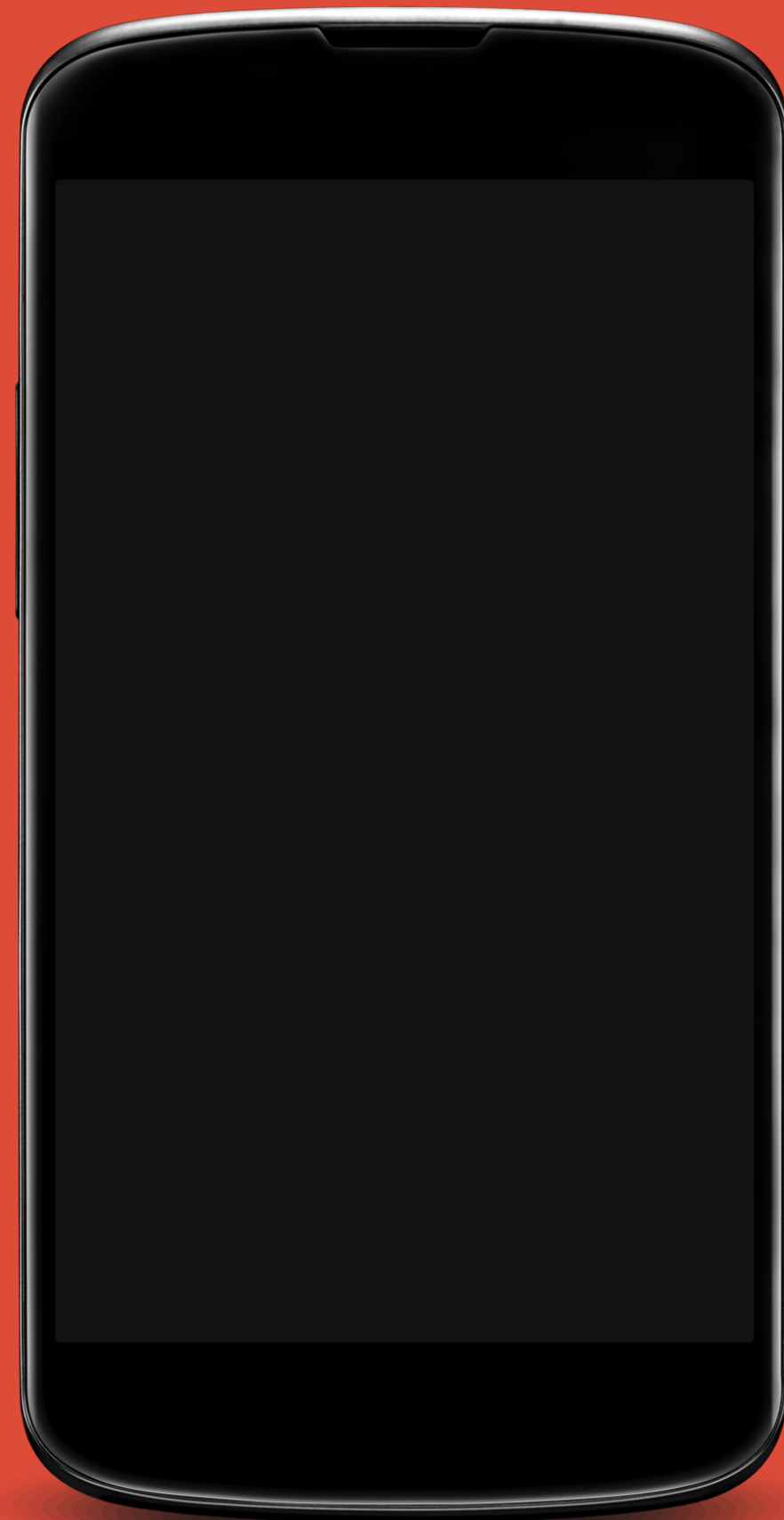
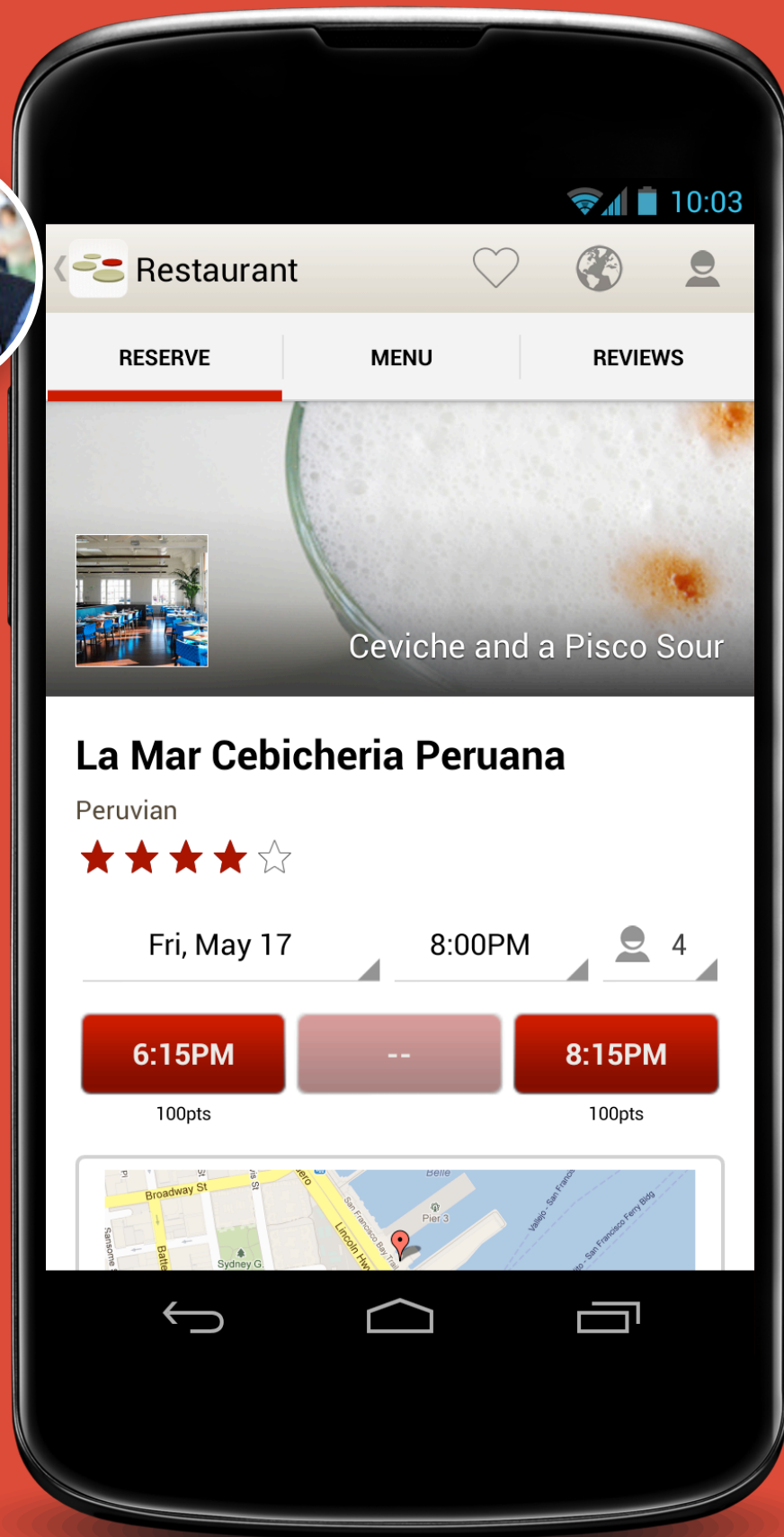
 Visit

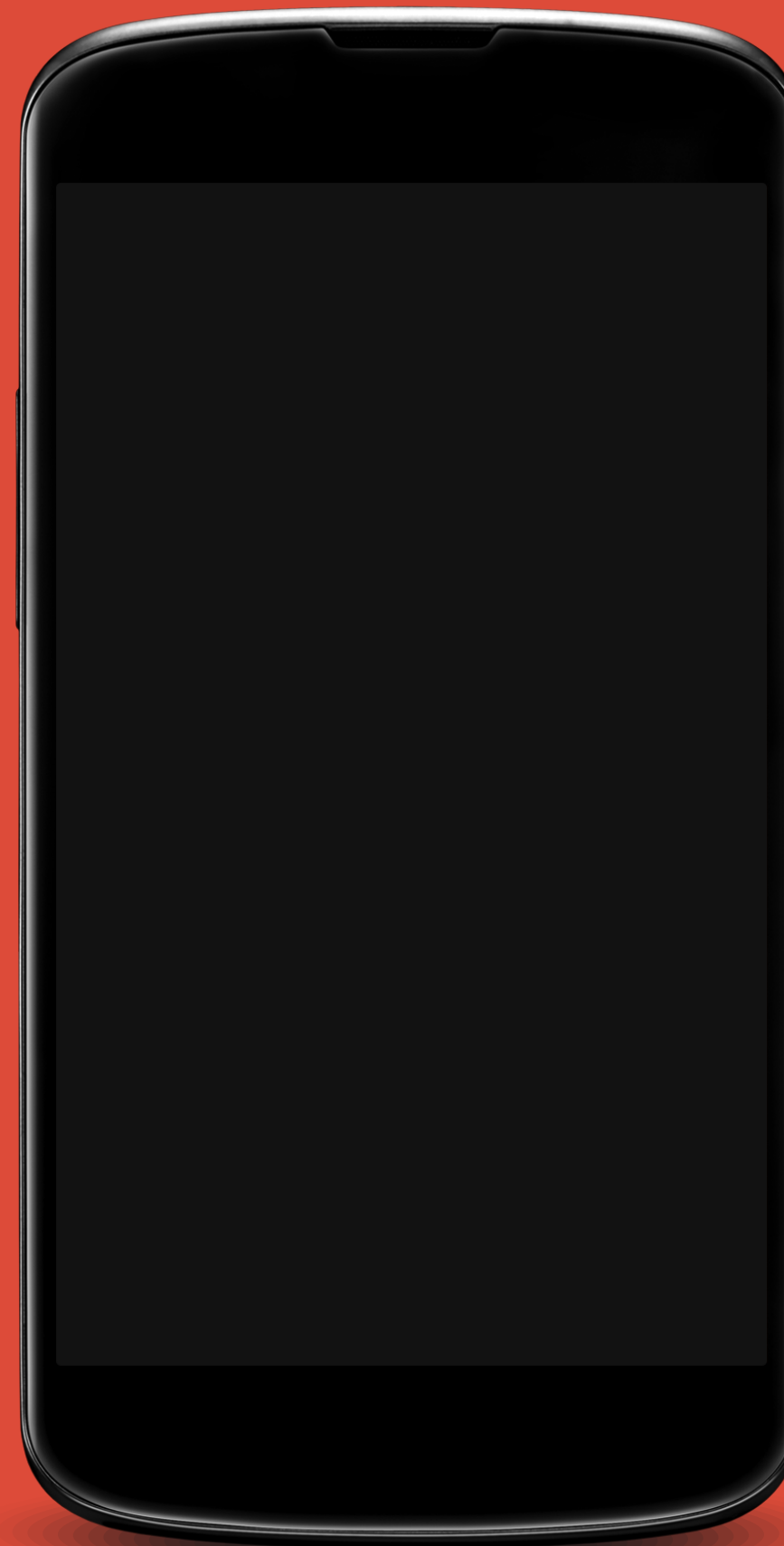
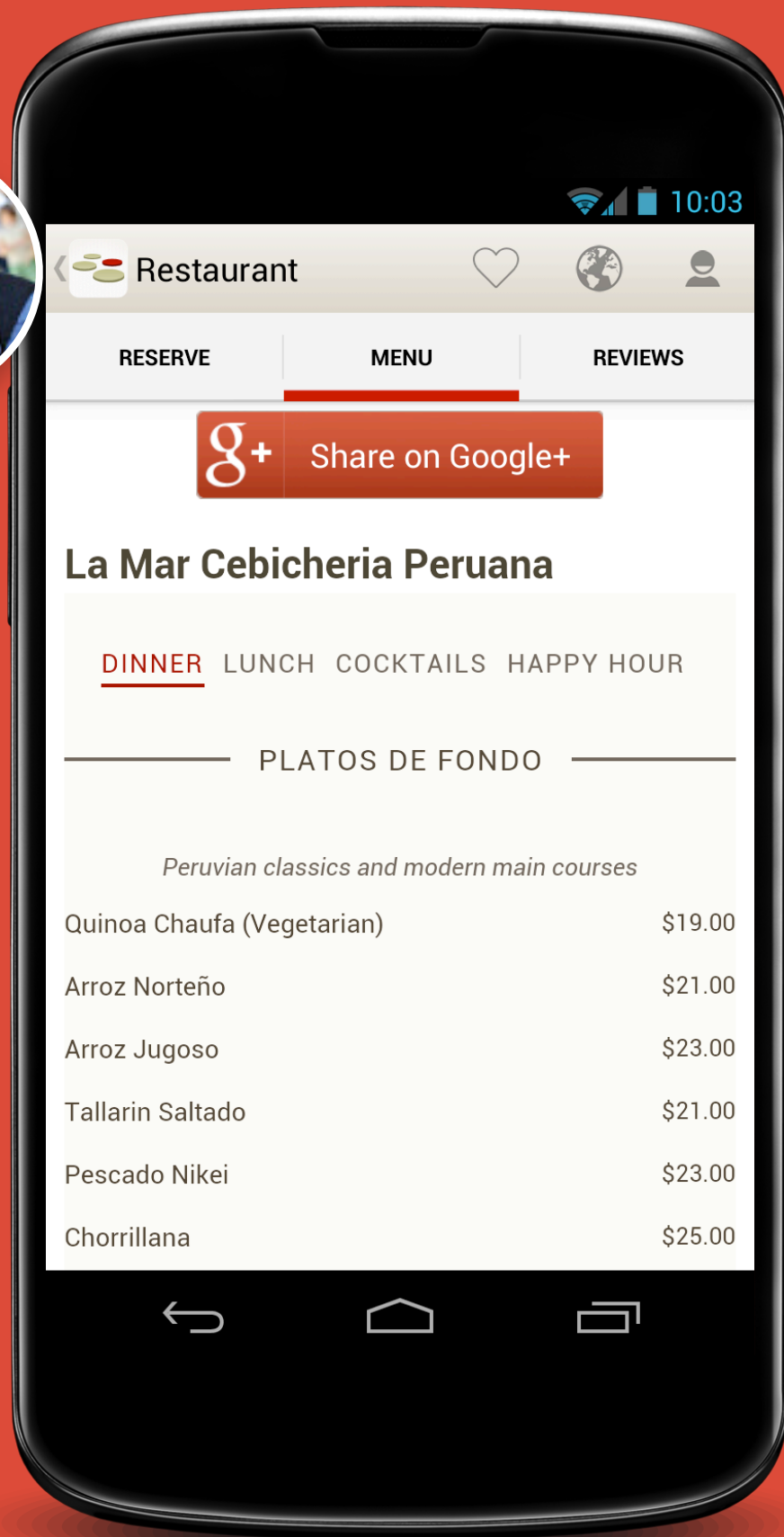


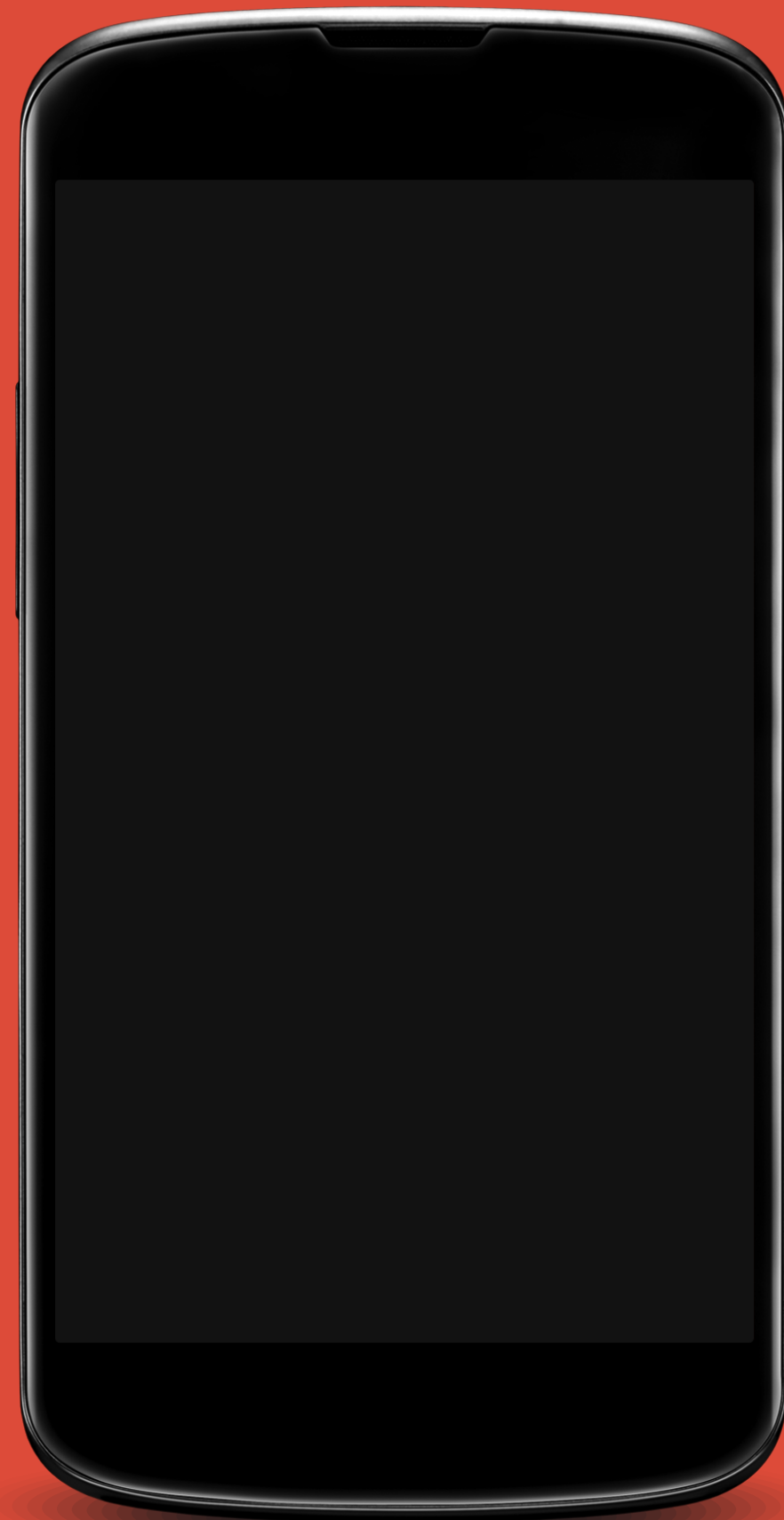
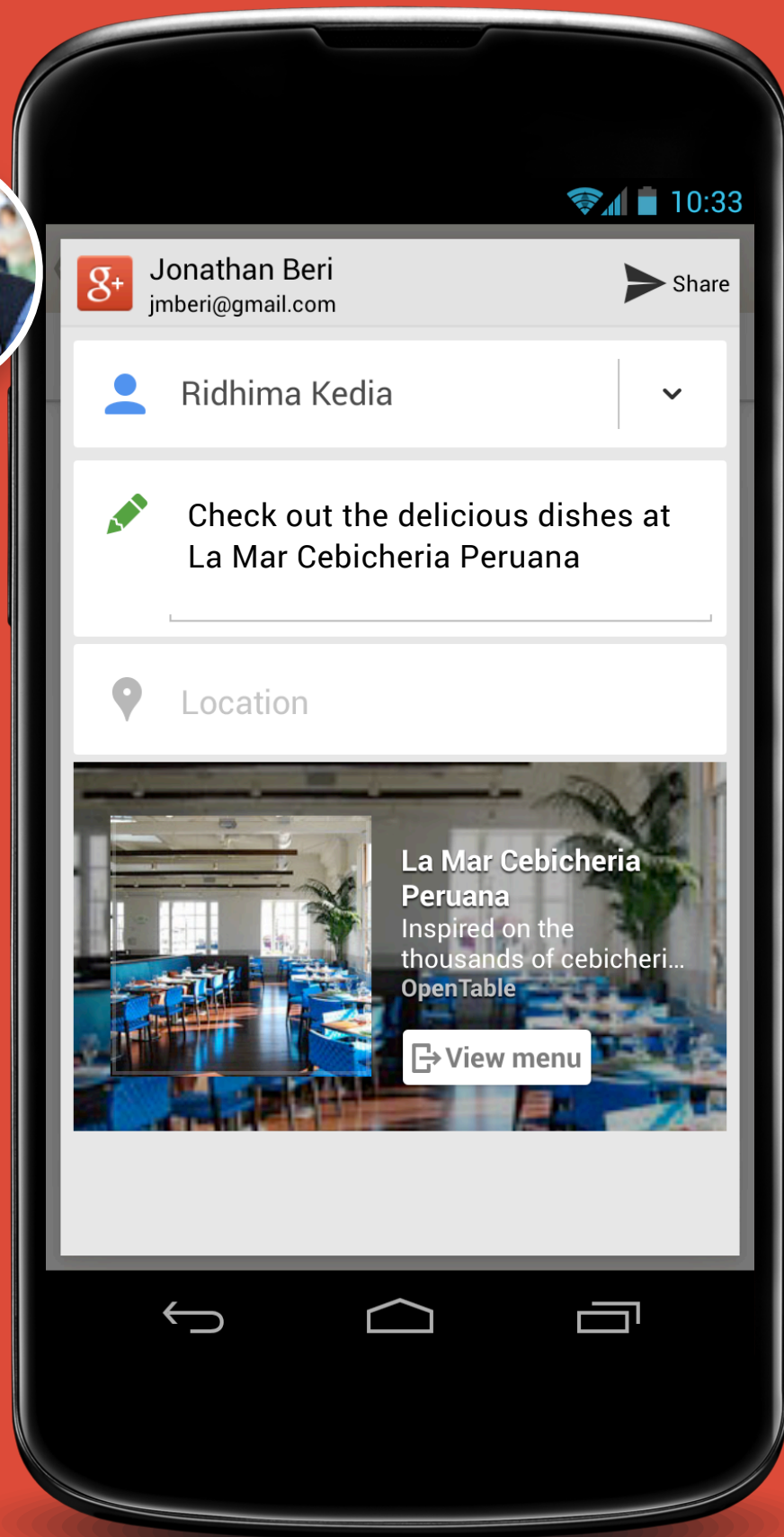


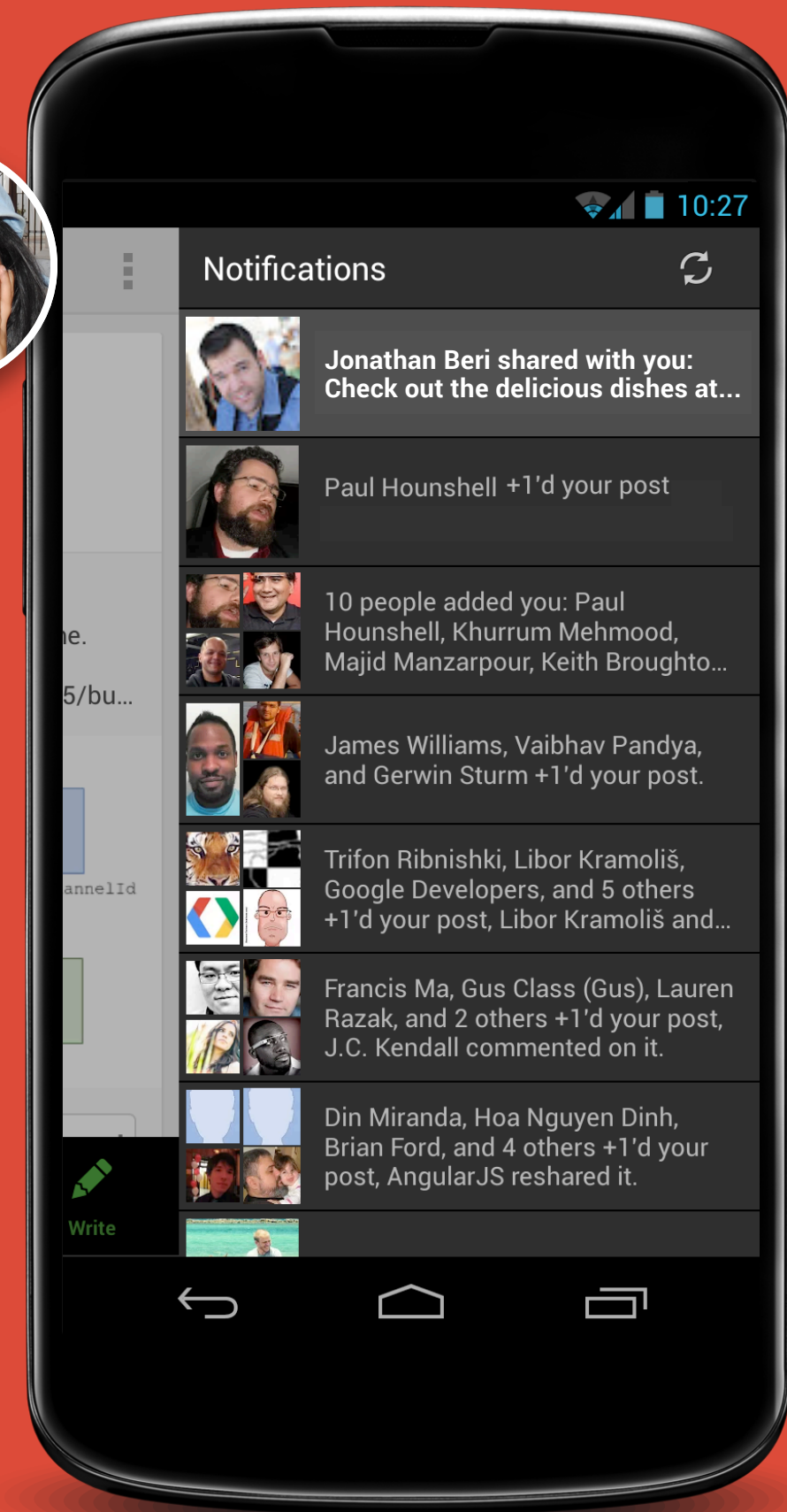
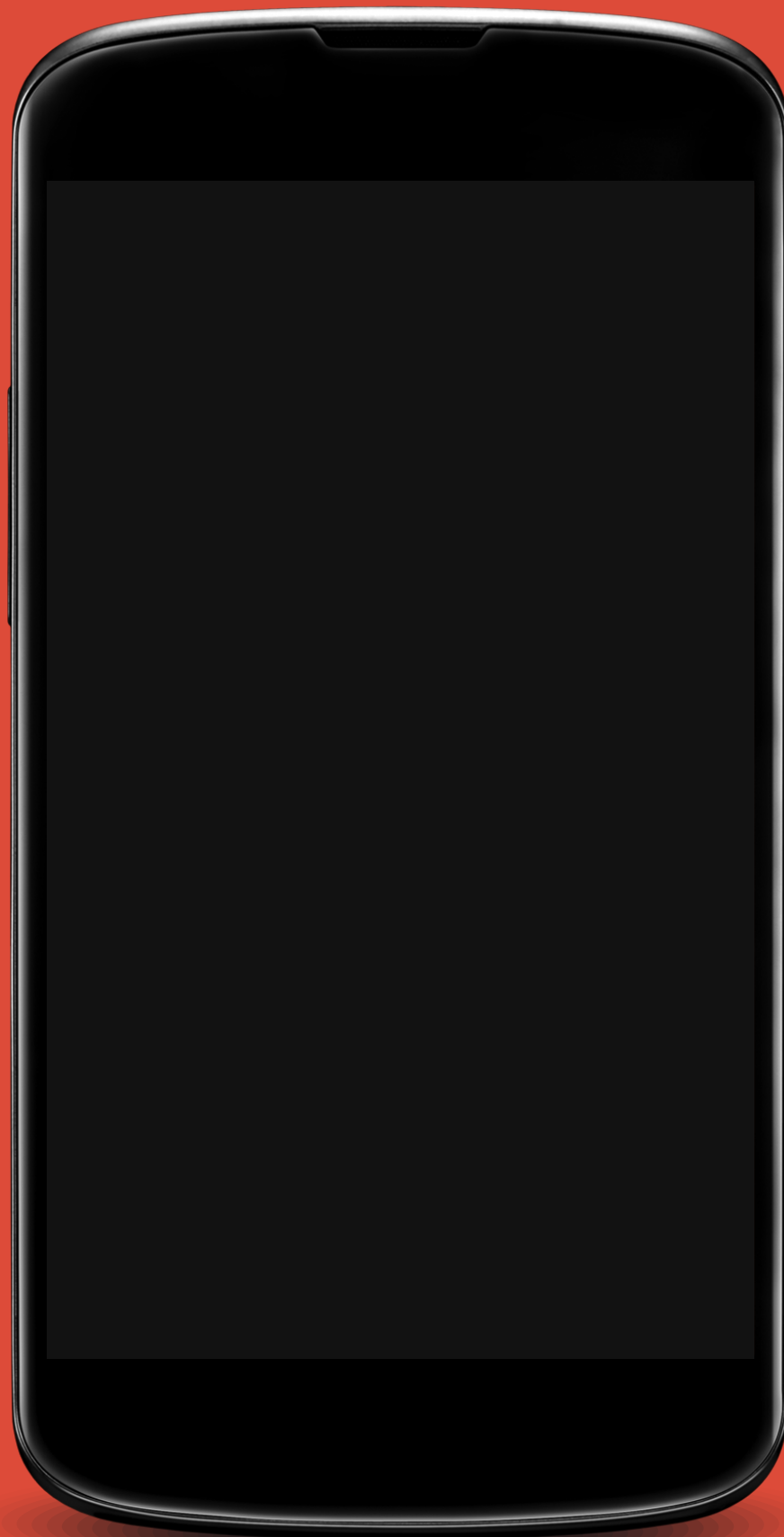


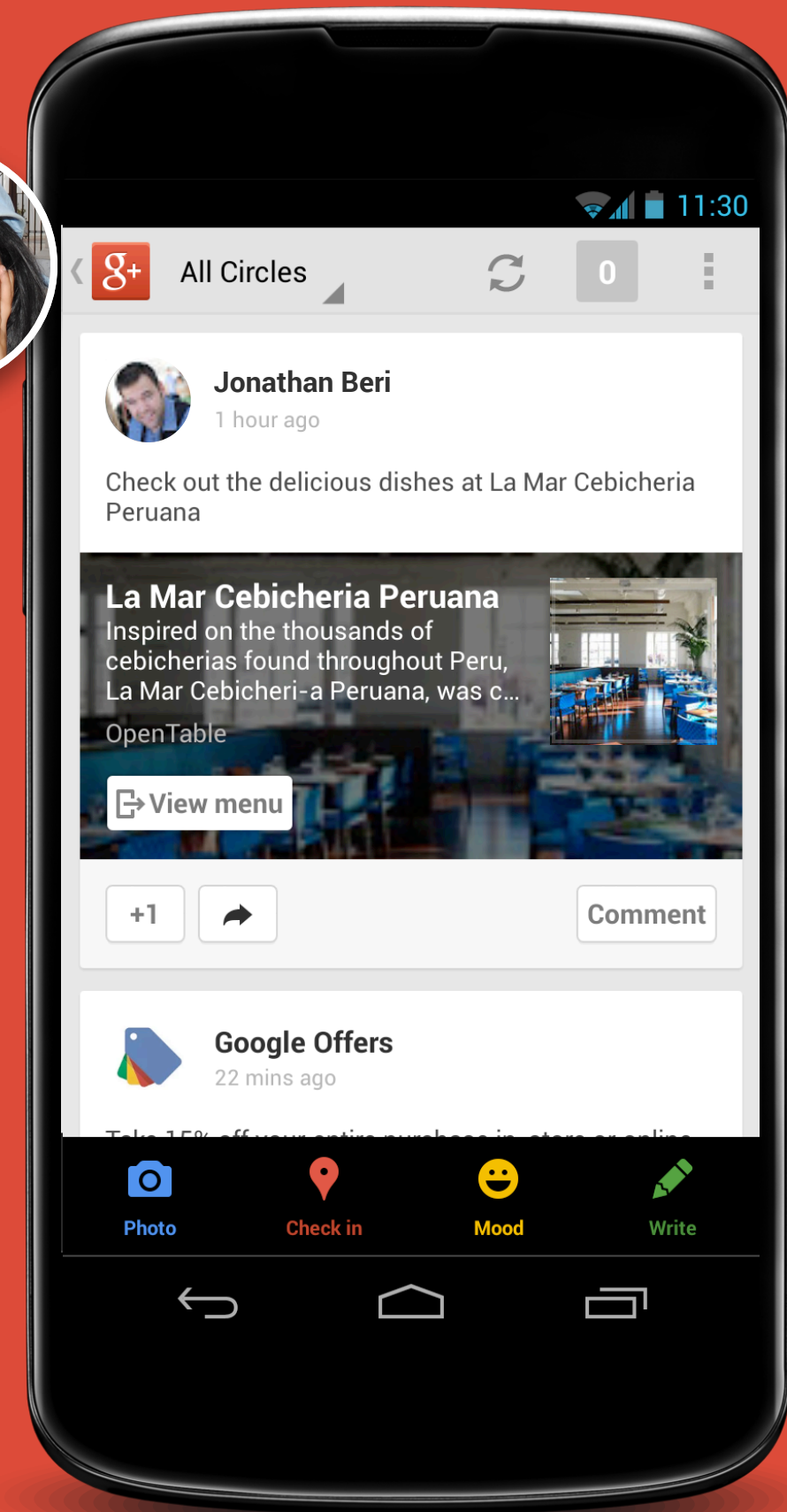
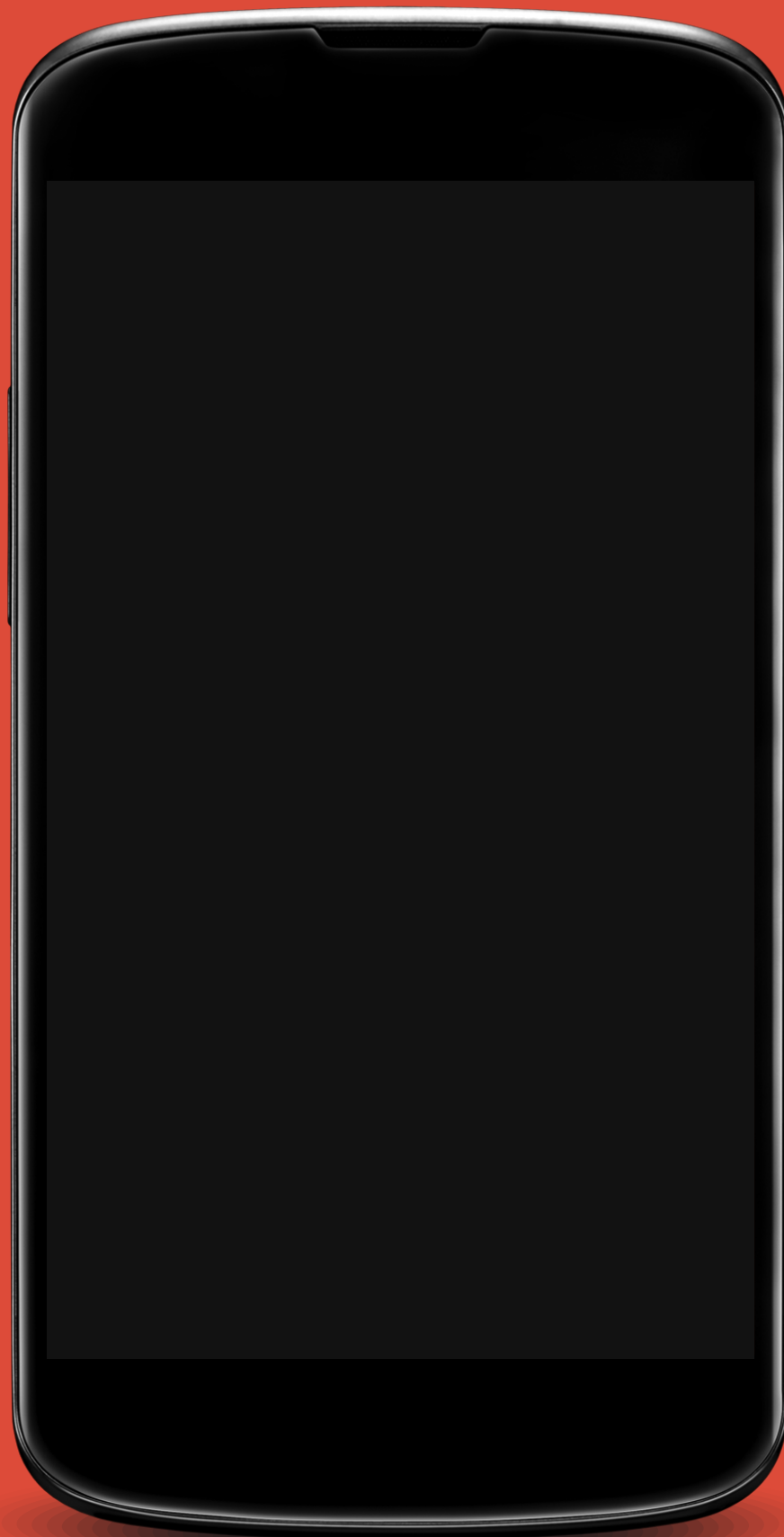


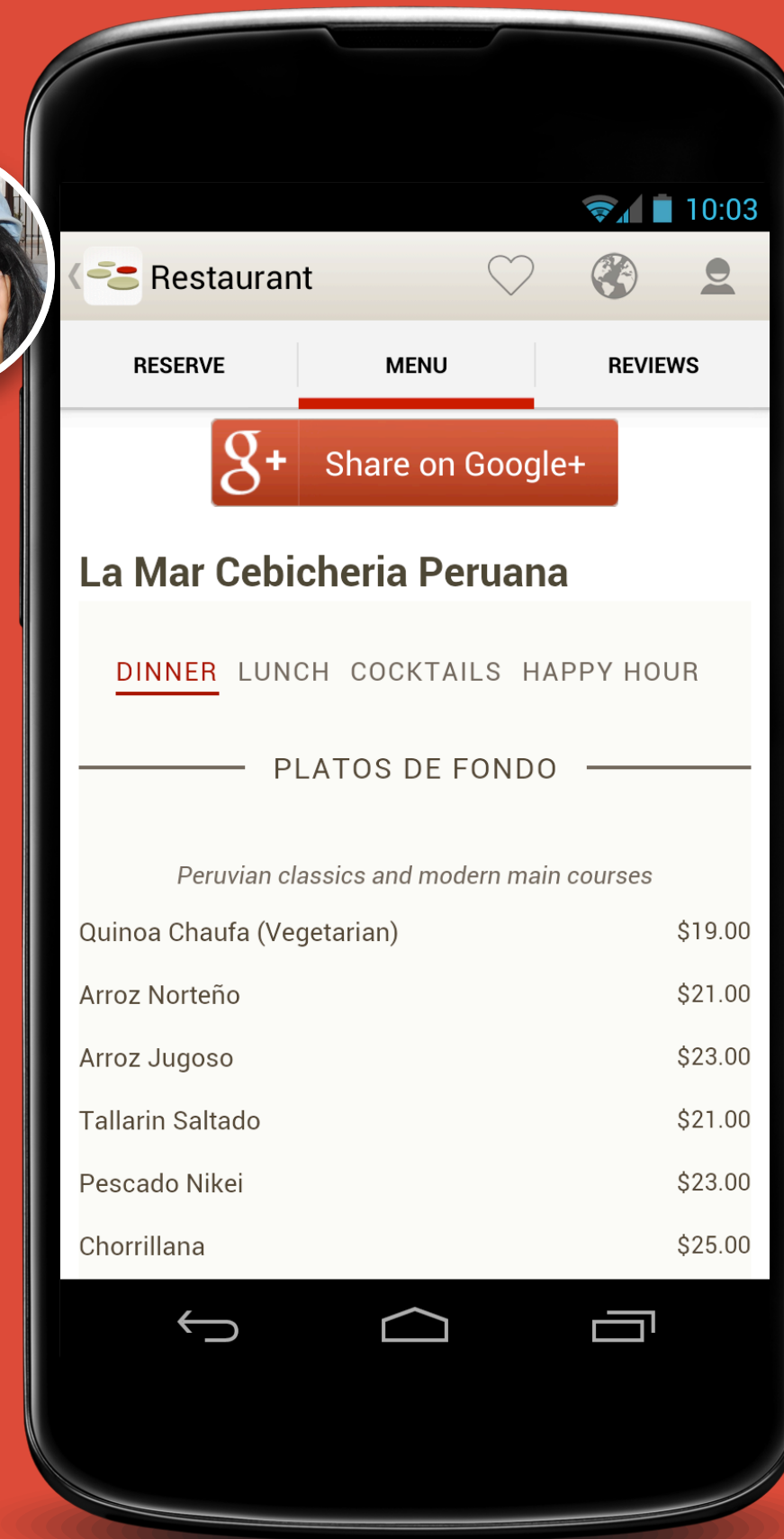
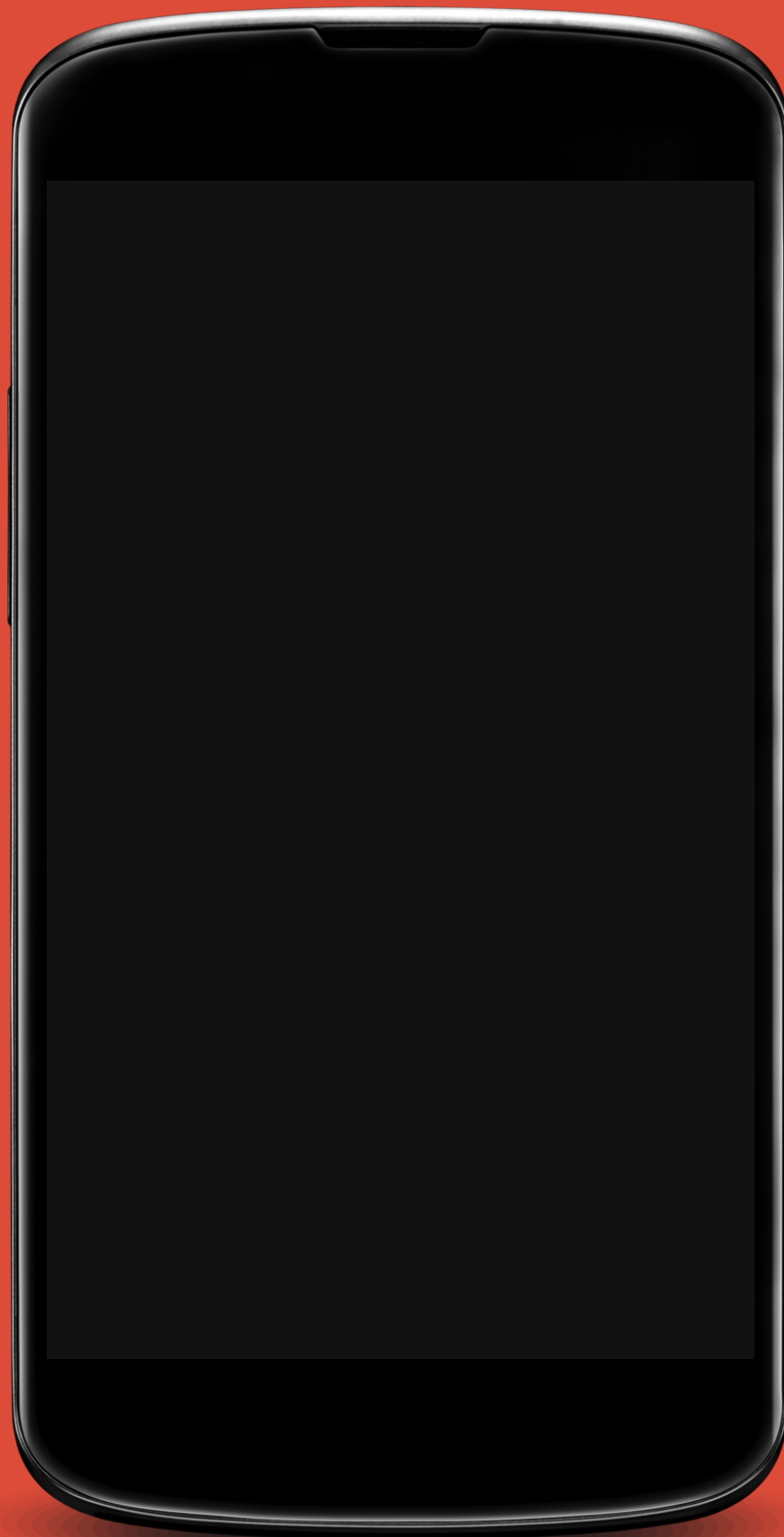












Restaurant

RESERVE MENU REVIEWS

g+ Share on Google+

La Mar Cebicheria Peruana


DINNER LUNCH COCKTAILS HAPPY HOUR

PLATOS DE FONDO

Peruvian classics and modern main courses


| | |
|----------------------------|---------|
| Quinoa Chaufa (Vegetarian) | \$19.00 |
| Arroz Norteño | \$21.00 |
| Arroz Jugoso | \$23.00 |
| Tallarin Saltado | \$21.00 |
| Pescado Nikei | \$23.00 |
| Chorrillana | \$25.00 |

A Button for Every Social Action




Ade Oshineye
Shared publicly - 4:19 PM

I really loved the novel. I hope the movie lives up to it.





NPR Social Tools



An Epic Of India Gets A Canvas Its Own Size : NPR

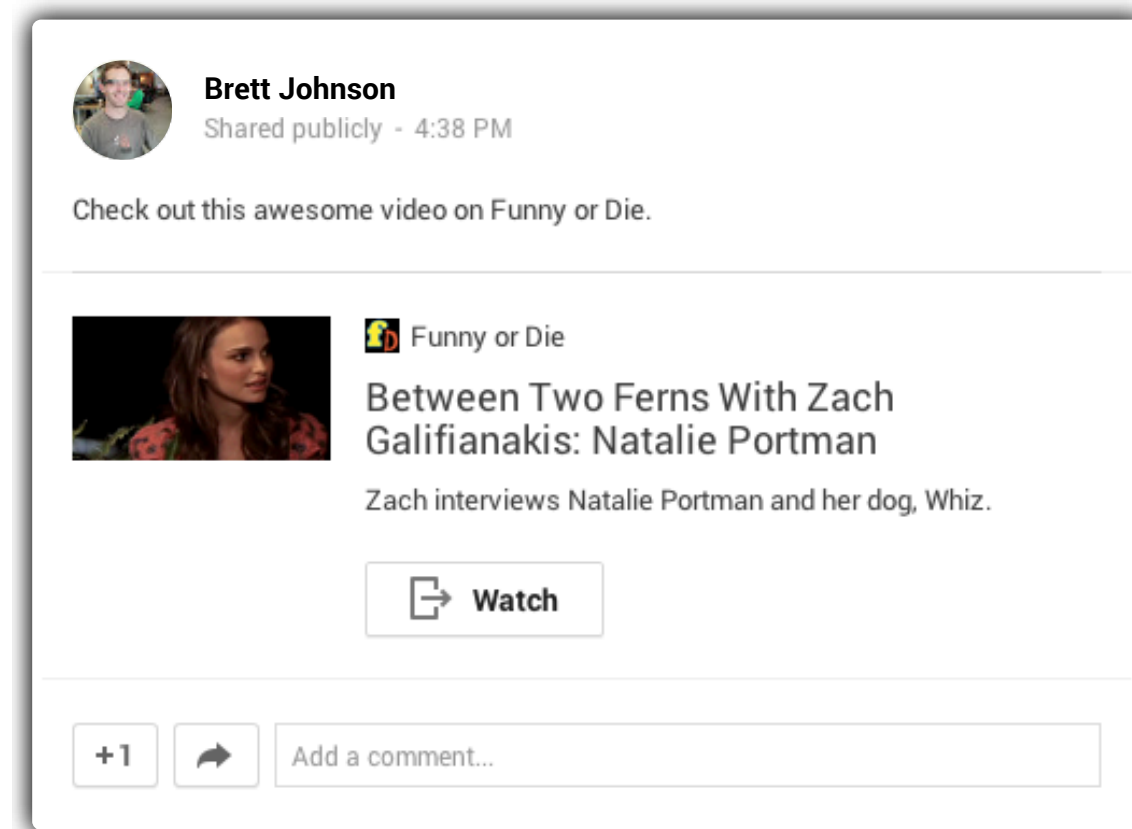
Midnight's Children, from Oscar-nominated filmmaker Deepa Mehta, is a sweeping big-screen adaptation of Salman Rushdie's great novel of modern Indian history. NPR's Bilal Qureshi talks to the two storytellers about their collaboration on the project.


 **Listen**

+1 





A Button for Every Social Action




 **Brett Johnson**
Shared publicly · 4:38 PM



Check out this awesome video on Funny or Die.

  Funny or Die

Between Two Ferns With Zach Galifianakis: Natalie Portman

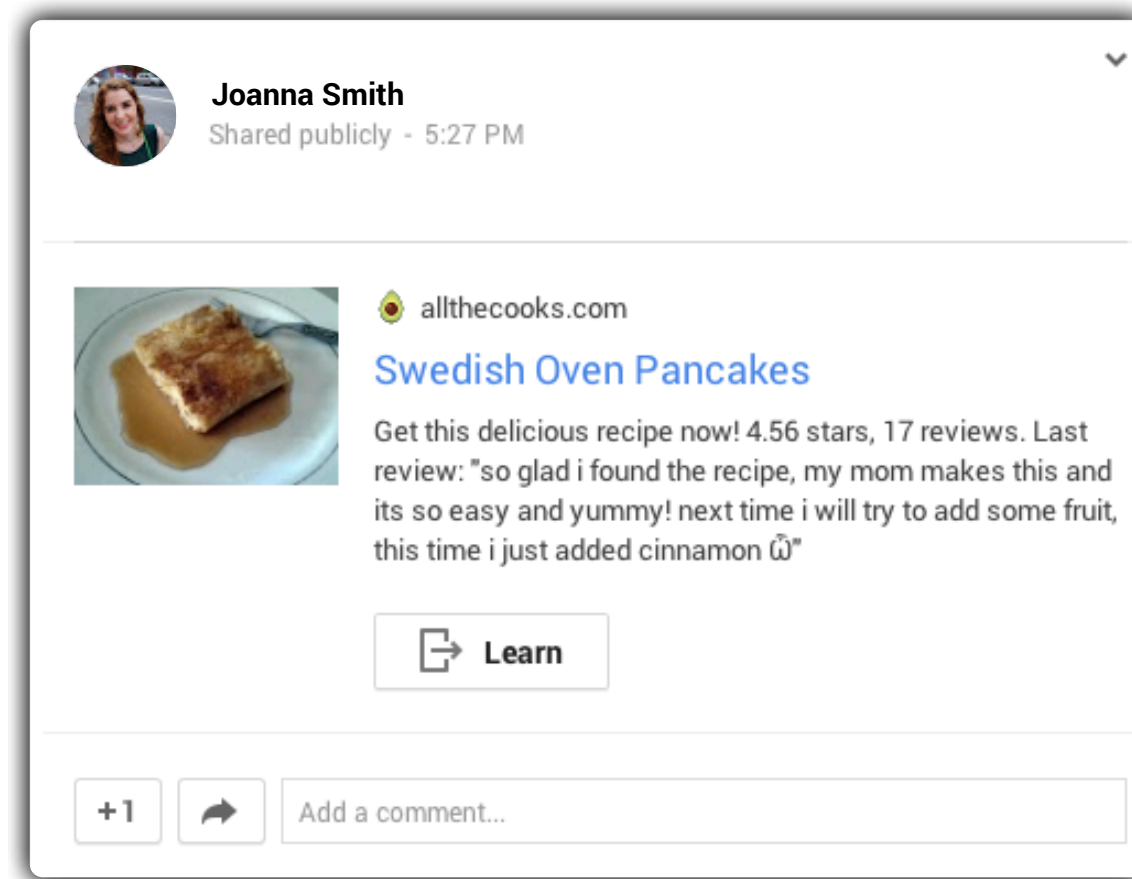
Zach interviews Natalie Portman and her dog, Whiz.

 **Watch**




A Button for Every Social Action



The image shows a social media post interface. At the top left is a circular profile picture of a woman with the name "Joanna Smith" and the text "Shared publicly - 5:27 PM". Below this is a recipe card for "Swedish Oven Pancakes" from "allthecooks.com". The card includes a photo of a square pancake on a plate, the title "Swedish Oven Pancakes", and a short review: "Get this delicious recipe now! 4.56 stars, 17 reviews. Last review: 'so glad i found the recipe, my mom makes this and its so easy and yummy! next time i will try to add some fruit, this time i just added cinnamon 🍌'". A "Learn" button with a right-pointing arrow icon is positioned below the review. At the bottom of the post are three interaction elements: a "+1" button, a share icon, and a text input field containing "Add a comment..."




A Button for Every Social Action




Jon Beri
Shared privately - Yesterday 7:31 AM

Kobe is the James Brown of Basketball? Agreed?



SB Nation



Kobe Bryant - The Vigorous Worker


Your best source for quality Los Angeles Lakers news, rumors, analysis, stats and scores from the fan perspective.

[Comment](#)

[+1](#) [Share](#)





A Button for Every Social Action



Silvano Luciani
Shared publicly · 4:23 PM


Handy for the summer!





 Fancy

Hanging Cliff Cabana - \$700

Hanging Cliff Cabana Precise engineering for strength, durability and ease of set-up and adjustment Frame is built from double-buttet 6061 T-6 45 mm machined and anodized aluminum 4 pull straps tighten the floor 6-point buckle system for easy leveling Double ripstop 210d nylon ballistics Allow 15 days for shipping.

 **Buy**





Involvement Close Friends with Targeted Sharing

Adding the code

Involve Close Friends

Interactive Post (HTML)

```
<button class="g-interactivepost"  
  data-clientid="CLIENT_ID"  
  data-scope="https://www.googleapis.com/auth/plus.login"  
  data-cookiepolicy="single_host_origin"  
  data-requestvisibleactions="http://schemas.google.com/AddActivity"  
  data-calltoactionlabel="CREATE"  
  data-calltoactionurl="http://plus.google.com/pages/create"  
  data-calltoactiondeephlinkid="/pages/create">  
  Share!  
</button>
```

JS



Involve Close Friends

Setting up Labels & Call-To-Action

JS

```
<button class="g-interactivepost"  
  data-clientid="CLIENT_ID"  
  data-scope="https://www.googleapis.com/auth/plus.login"  
  data-cookiepolicy="single_host_origin"  
  data-requestvisibleactions="http://schemas.google.com/AddActivity"  
  data-calltoactionlabel="CREATE"  
  data-calltoactionurl="http://plus.google.com/pages/create"  
  data-calltoactiondeeplinkid="/pages/create">  
  Share!  
</button>
```



Involve Close Friends

Prefill Recipients & Share Text

```
<button class="g-interactivepost"  
  data-clientid="CLIENT_ID"  
  data-scope="https://www.googleapis.com/auth/plus.login"  
  data-cookiepolicy="single_host_origin"  
  data-requestvisibleactions="http://schemas.google.com/AddActivity"  
  ...  
  data-prefilltext="Create a Google+ page for your business."  
  data-recipients="110967630299632321627,leeroy.jenkins@example.com"  
  Share!  
</button>
```

JS



Involve Close Friends

Also a Sign-In Button!

```
<button class="g-interactivepost"  
  data-clientid="CLIENT_ID"  
  data-scope="https://www.googleapis.com/auth/plus.login"  
  data-cookiepolicy="single_host_origin"  
  data-requestvisibleactions="http://schemas.google.com/AddActivity"  
  ...  
  data-prefilltext="Create a Google+ page for your business."  
  data-recipients="110967630299632321627,leeroy.jenkins@example.com"  
  Share!  
</button>
```

JS



Involve Close Friends

iOS

JS

```
- (IBAction)share:(id)sender {
    id<GPPShareBuilder> shareDialog = [[GPPShare sharedInstance] shareDialog];
    [shareDialog setCallToActionButtonWithLabel:@"CREATE"
                                             URL:
        [NSURL URLWithString:@"https://developers.google.com/+mobile/ios/"]
                                             deepLinkID:@"/+mobile/ios/"];
    [shareDialog open];
}
```





Surface Activities on Google when they matter

Writing App Activities



fandango



Ardan Arac



+ Share



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42

PG-13, 2 hr 8 min

1,903 watched the trailer



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PG-13, 1 hr 25 min

1,761 watched the trailer

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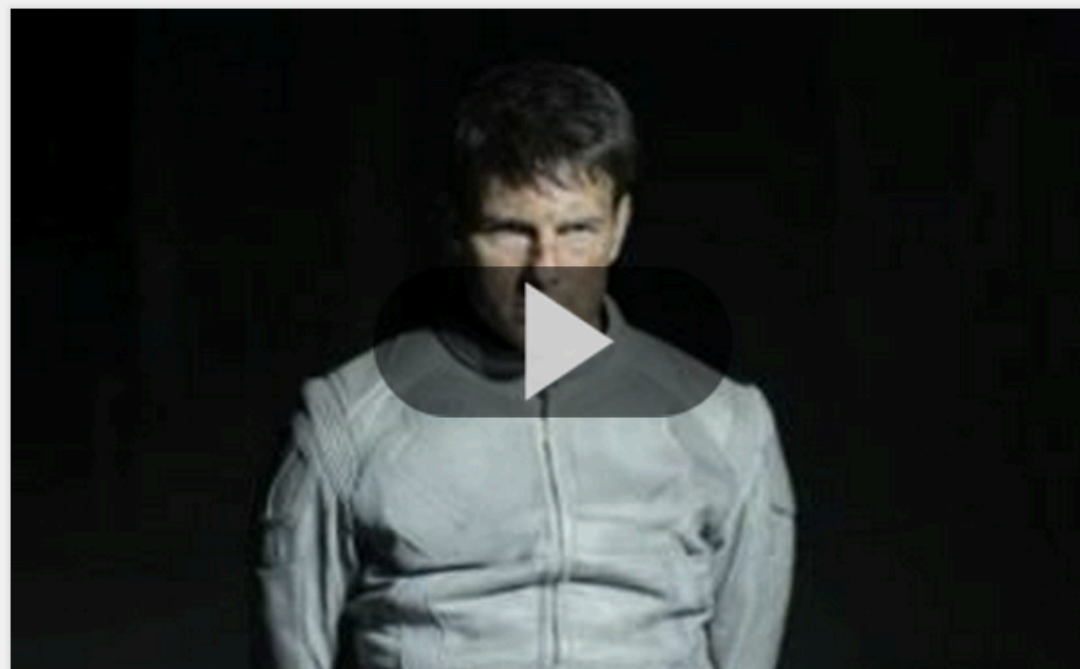
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Oblivion



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In the year 2077, Jack Harper (Tom Cruise) works as a security repairman on an Earth left empty and devastated after a war with aliens. Jack has two weeks left before his mission ends and he joins his fellow survivors on a faraway colony. However, Jack's concept of reality comes crashing down after he rescues a beautiful stranger (Olga Kurylenko) from a downed spacecraft. The woman's arrival triggers a chain of events that culminates in Jack's nearly single-handed battle

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Surface Activities on Google when they matter

Adding the code

Involve Close Friends

Server-Side (Python)

Python

```
moment = {"type": "http://schamas.google.com/BuyActivity",  
          "target": {"  
            "url": "https://developers.google.com/+plugins/snippet/  
examples/thing"  
          }  
        }  
google_request = service.moments().insert(userId='me', collection='vault',  
body=moment)  
momentResult = google_request.execute()
```



Review

+The Google+ Sign-In Button

+Personalizing Your App

+Involve Close Friends with Targeted Sharing

+Surfacing Relevant Actions Across Google



Check Out Other Great Sessions & Code Labs

Today

- Google+ for Publishers: Buttons, Badges, and More

Tomorrow

- Fireside Chat with the Google+ Platform Team
- Google+ Sign-In for Android Developers
- How to Offer Google+ Sign-In Alongside Other Social Sign-In Services
- Google+ Sign-In for Web Apps
- Best Practices for Google+ Sign-In
- Cross-Platform Auth with Google+ Sign-In
- Google+ Sign-In for iOS Developers

Friday

- From Zero to Hero: Integrating Google+ Sign-In on Android and Web in Less Than Three Hours
- Building Amazing Hangouts Applications - Make Magic Interactions!



Credits

- New User designed by Yuri Mamaev from The Noun Project
- Click designed by Rohan Gupta from The Noun Project



<Thank You!>

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