



Google
Developers



Developing for Glass

Timothy Jordan



Hello.

Timothy Jordan

Developer Advocate

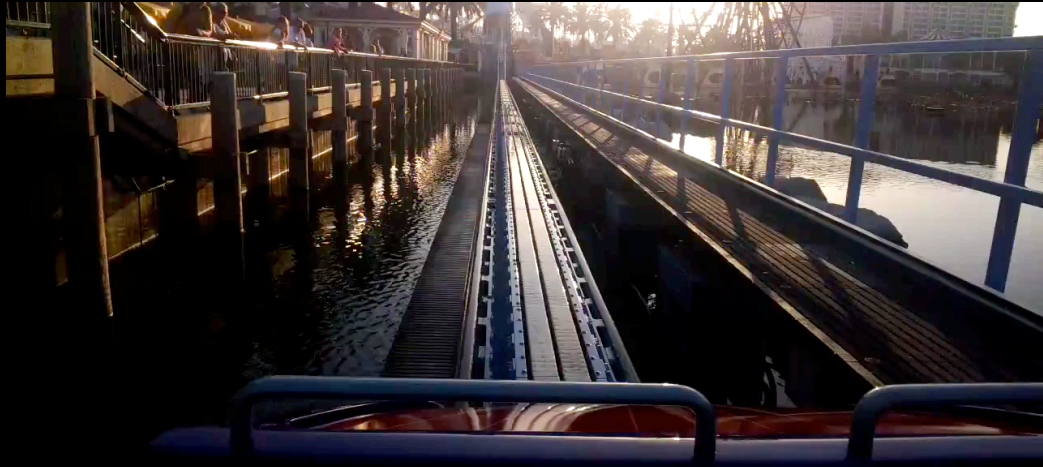
Project Glass

google.com/+TimothyJordan




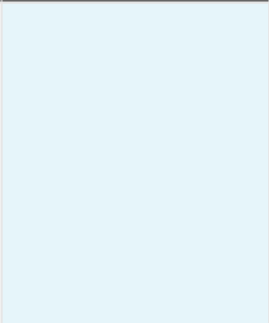

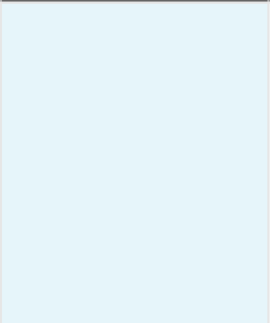



Google[x]









Day 2	10am - 11am	11:15am - 11:55am	12:45pm - 1:25pm	1:40pm - 2:20pm	2:35pm - 3:15pm	3:30pm - 4:10pm
 <p>Glass</p>	<p>Developing For Glass Room 2</p>  		<p>Building Glass Services with the Google Mirror API Room 7</p> 		<p>Voiding Your Warranty: Hacking Glass Room 2</p>  	<p>Fireside Chat with the Glass Team Room 7</p> 

Today's Menu



Today's Menu

Platform



Today's Menu

Platform

Design



Today's Menu

Platform

Design

Examples



Demo

10:34

"ok glass"



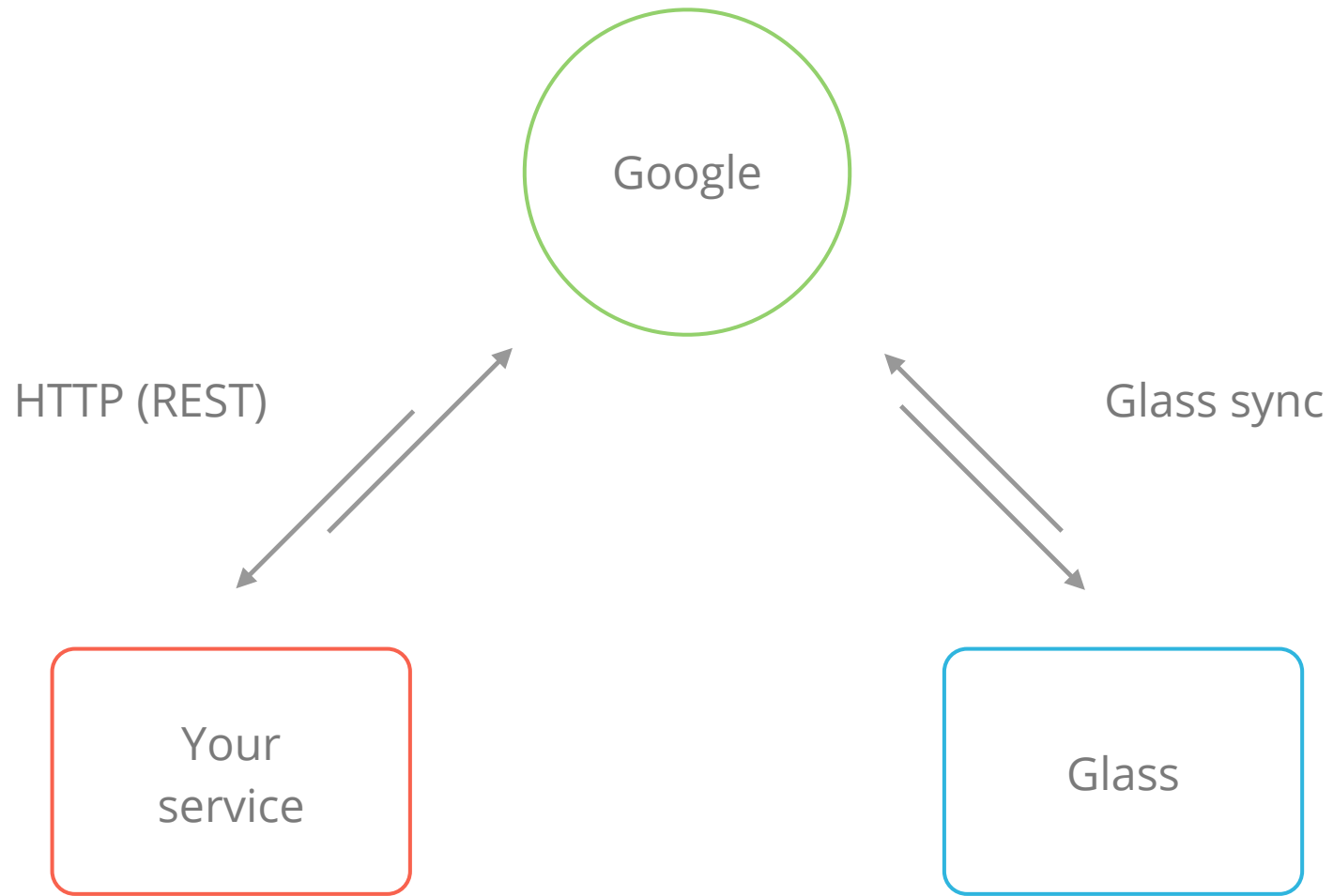


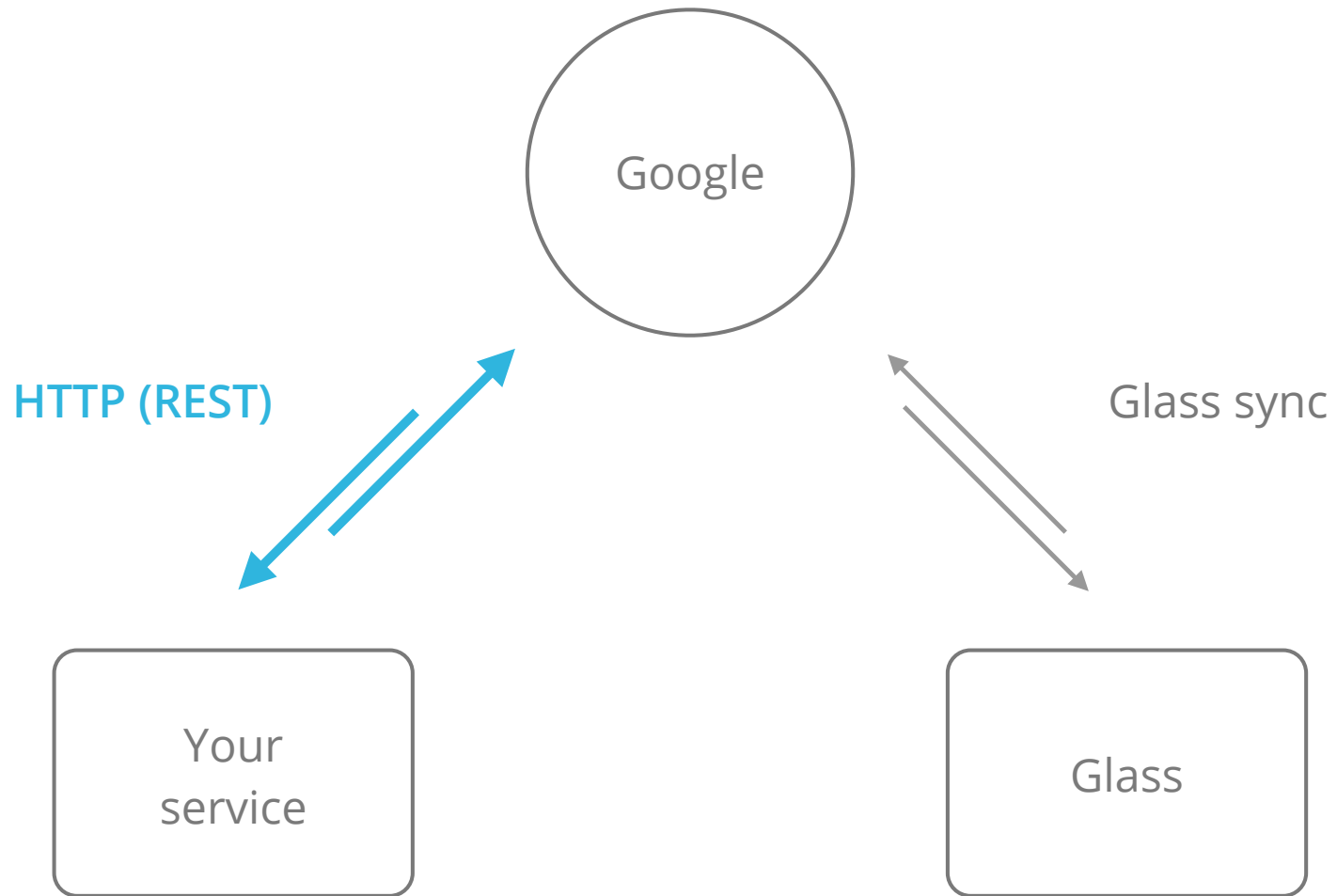
Platform



Platform

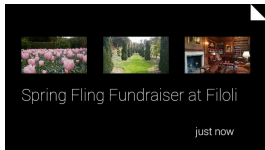
Google Mirror API



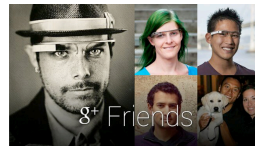


Collections

Timeline



Share Contacts



Subscriptions

```
collection  
itemId  
operation  
verifyToken
```

Location

```
timestamp  
latitude  
longitude
```



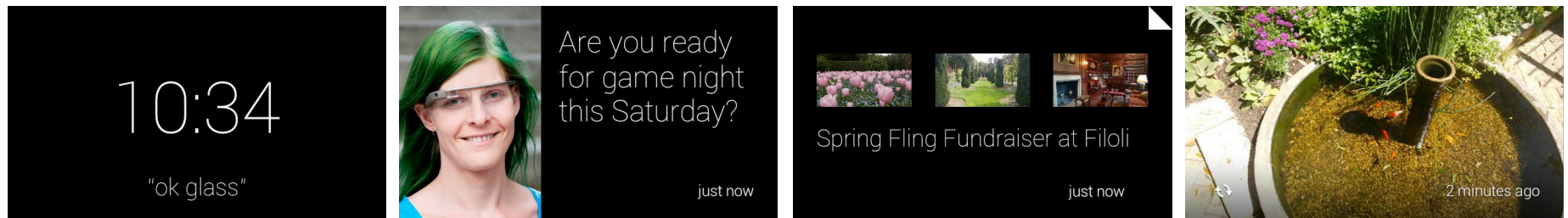
Timeline cards

10:34

"ok glass"



Timeline cards



Timeline cards: bundles

10:34

"ok glass"



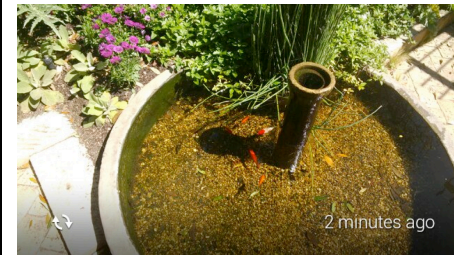
Are you ready
for game night
this Saturday?

just now



Spring Fling Fundraiser at Filoli

just now



2 minutes ago



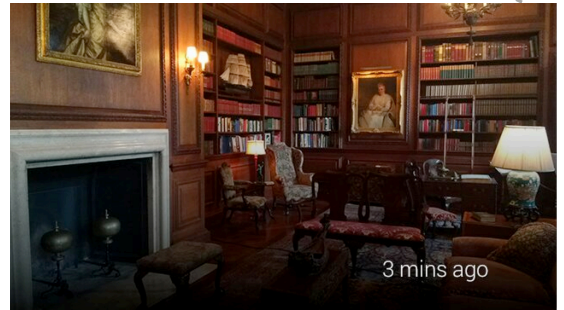
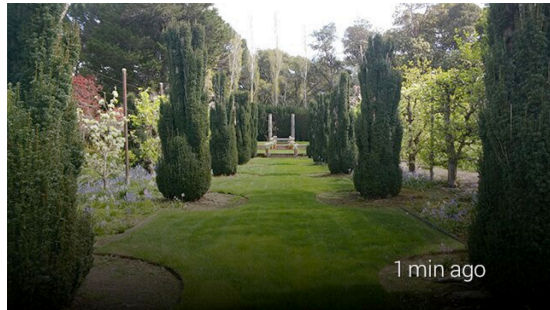
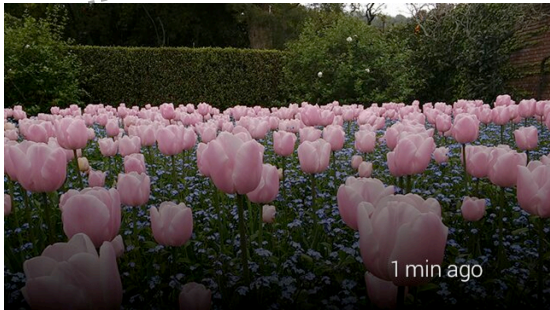
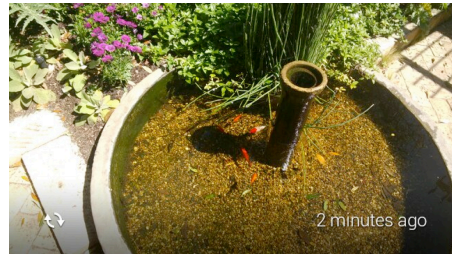
Timeline cards: bundles

10:34
"ok glass"



Are you ready for game night this Saturday?
just now

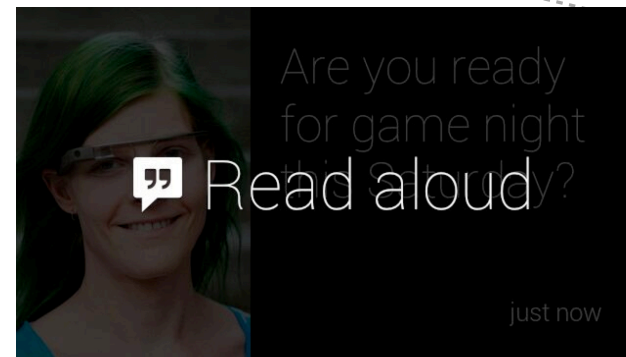
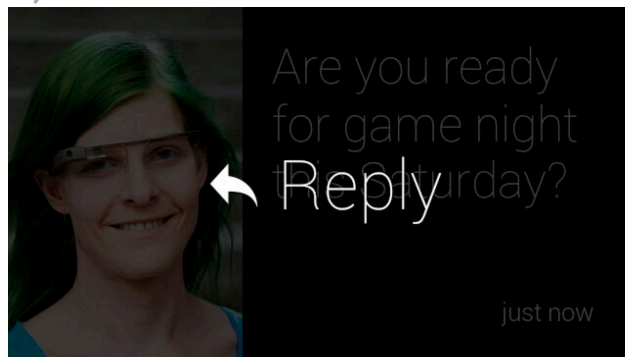
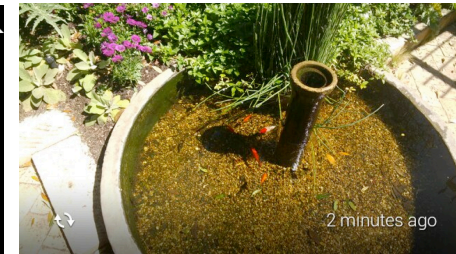
Spring Fling Fundraiser at Filoli
just now



Menu items

10:34

"ok glass"



Share contacts

10:34

"ok glass"



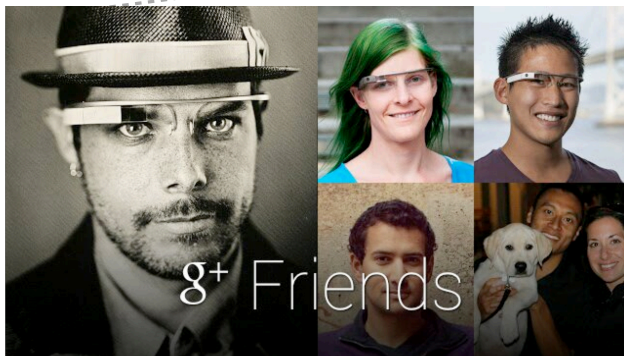
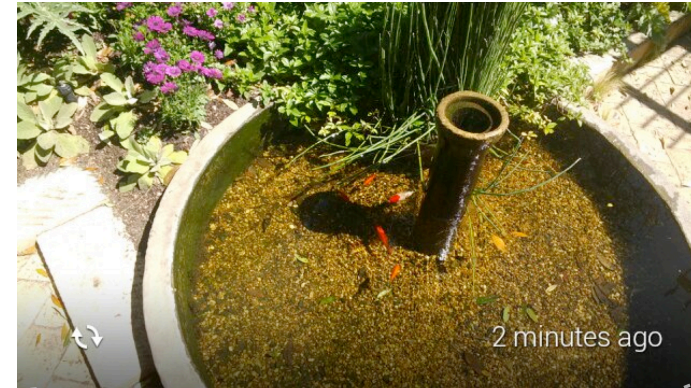
Are you ready for game night this Saturday?

just now



Spring Fling Fundraiser at Filoli

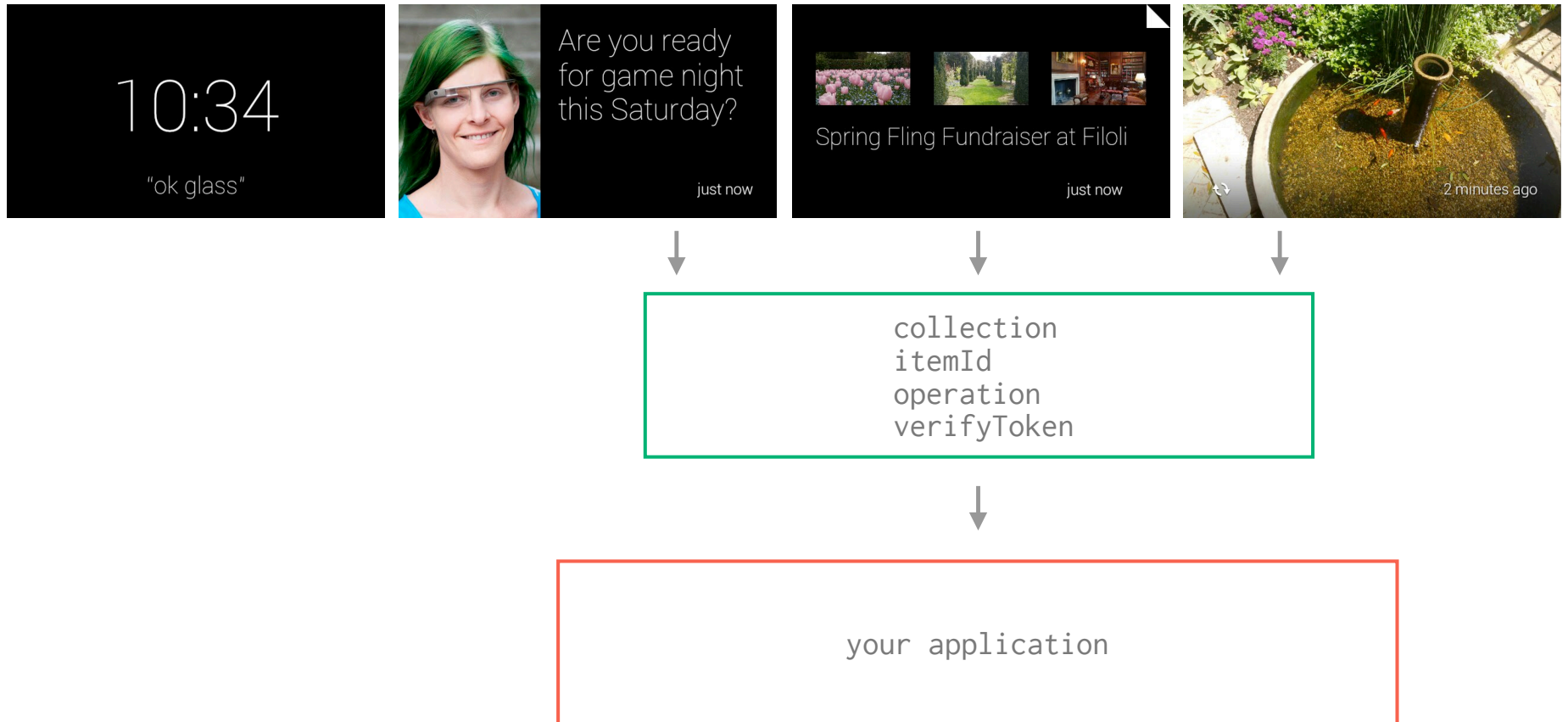
just now



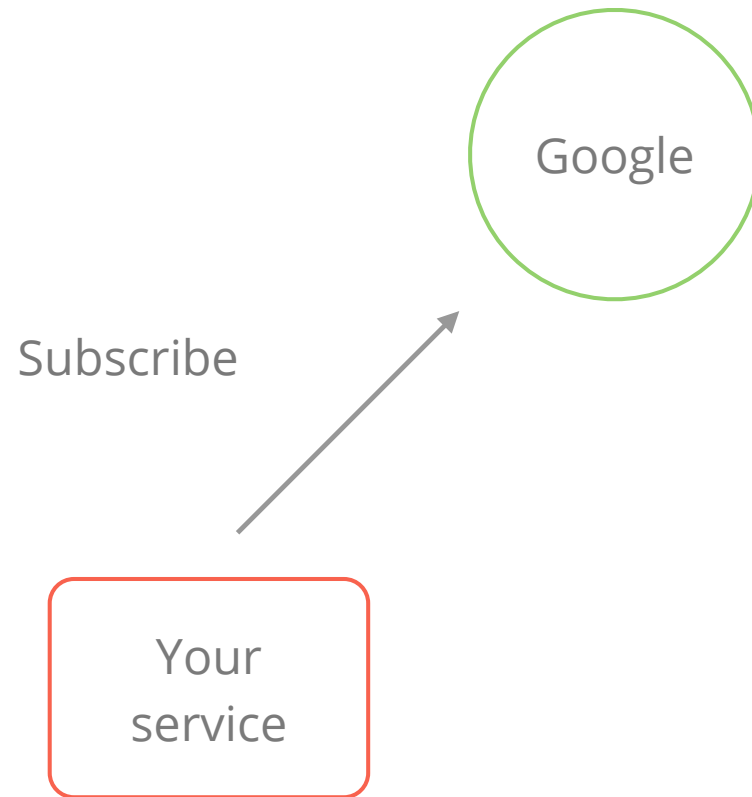
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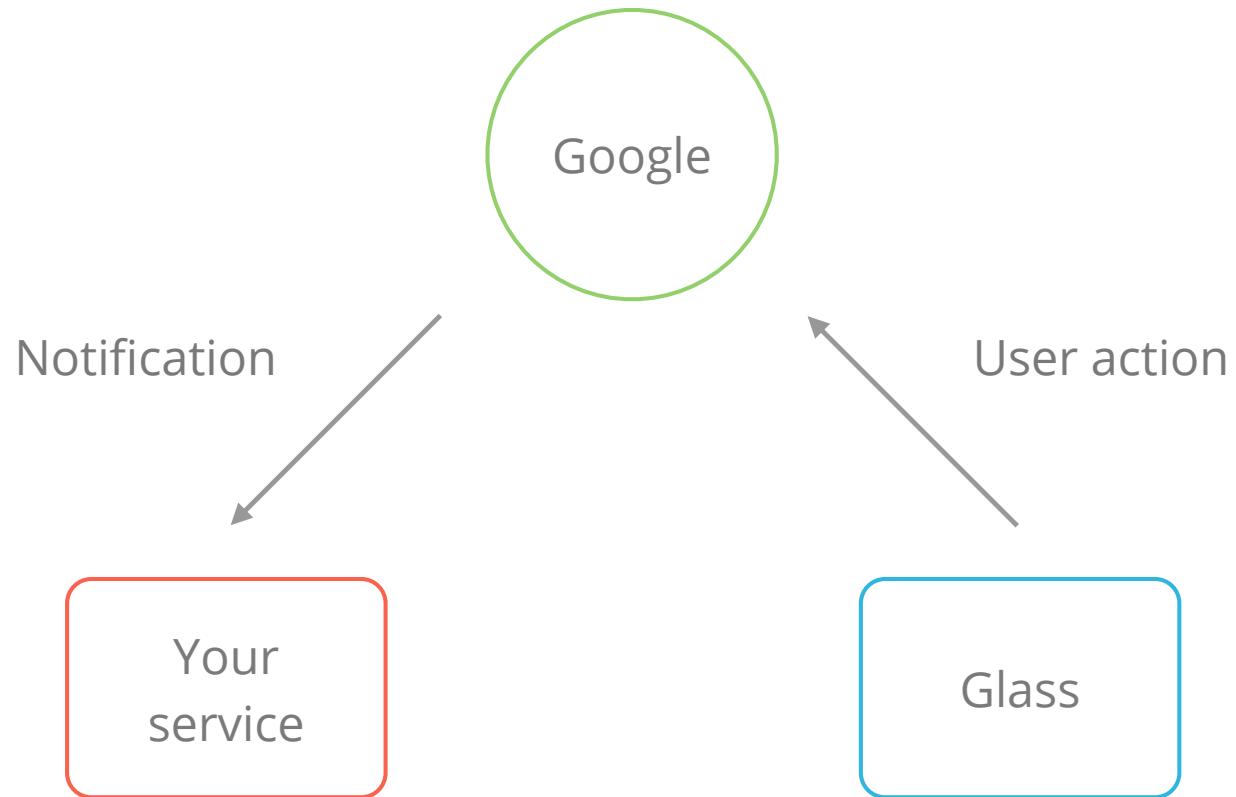
Subscriptions



Subscriptions



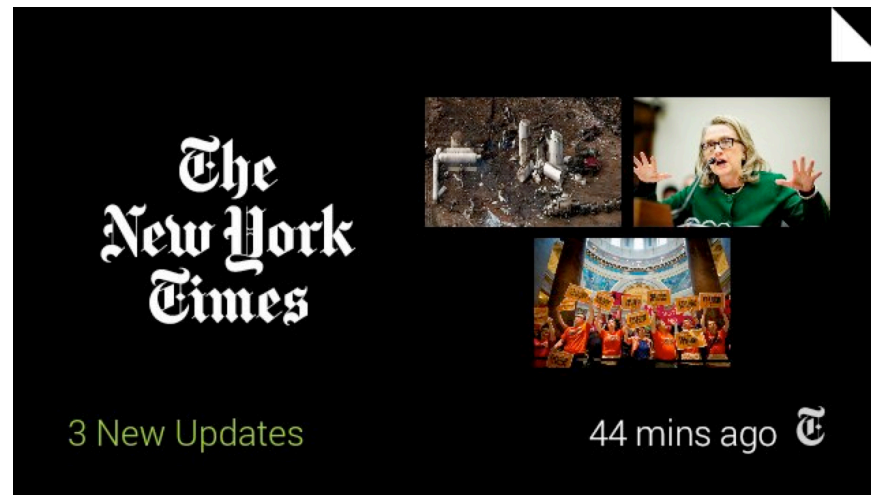
Subscriptions





Platform

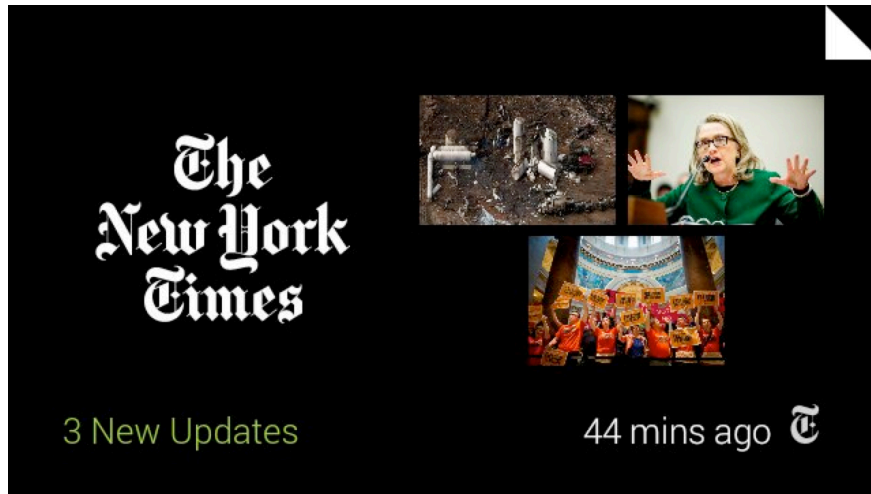
Platform



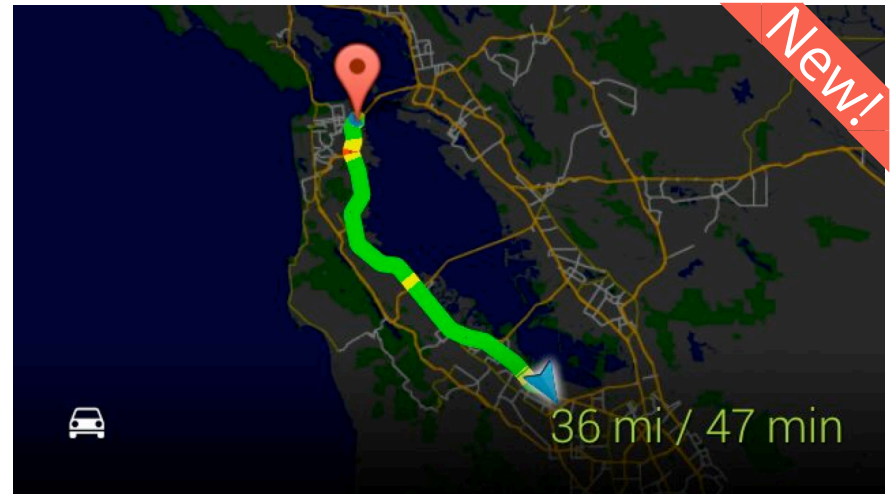
Google Mirror API



Platform



Google Mirror API



GDK - Glass Development Kit





User Experience



User Experience

Guidelines

- Design for Glass



- Design for Glass
- Don't get in the way



- Design for Glass
- Don't get in the way
- Keep it timely



- Design for Glass
- Don't get in the way
- Keep it timely
- Avoid the unexpected

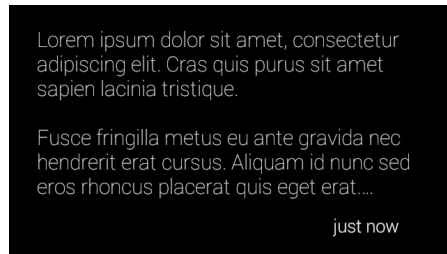




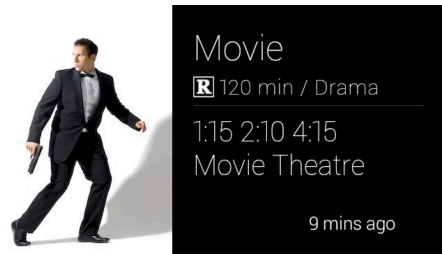
User Experience

Best Practices

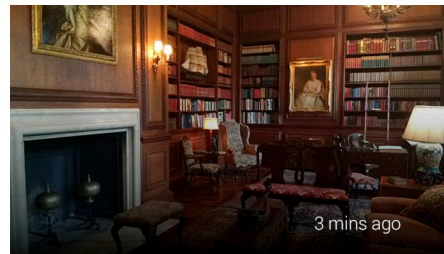
Types



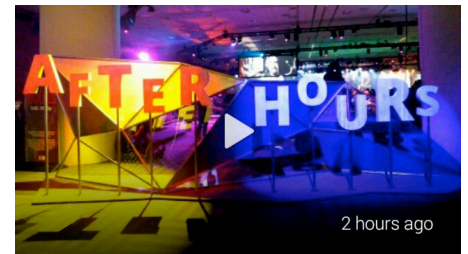
Text



HTML



Image



Video



Types: Text

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras quis purus sit amet sapien lacinia tristique.

Fusce fringilla metus eu ante gravida nec hendrerit erat cursus. Aliquam id nunc sed eros rhoncus placerat quis eget erat....

just now

- Only sending text
- Auto-paginates



Types: Text

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras quis purus sit amet sapien lacinia tristique.

Fusce fringilla metus eu ante gravida nec hendrerit erat cursus. Aliquam id nunc sed eros rhoncus placerat quis eget erat....

just now



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras quis purus sit amet sapien lacinia tristique.

Fusce  **Read more** hendrerit erat cursus. Aliquam id nunc sed eros rhoncus placerat quis eget erat....

just now



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras quis purus sit amet sapien lacinia tristique.

Fusce fringilla metus eu ante gravida nec hendrerit erat cursus. Aliquam id nunc sed eros rhoncus placerat quis eget erat....



Nullam non lacus nulla, eu mattis odio.

Vestibulum a urna mi, ac gravida arcu. Praesent id risus nisl. In semper varius massa, vel mattis magna adipiscing at. Pellentesque vulputate molestie magna, a dapibus libero viverra iaculis....



Nullam urna neque, faucibus vitae consequat eu, laoreet eget tellus. Donec sed est et diam ullamcorper tristique.



Types: HTML



Movie

R 120 min / Drama

1:15 2:10 4:15

Movie Theatre

9 mins ago

- Rich, flexible design
- Text and images



Types: HTML Templates



Movie
R 120 min / Drama
1:15 2:10 4:15
Movie Theatre

9 mins ago

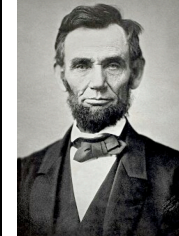
AAPL	503.73	-16.57 (3.18%)
AMZN	274.03	+6.09 (2.27%)
GOOG	727.58	-12.41 (1.68%)

9 mins ago

BOS
✈
SFO

Virgin America 351
Gate B38
8:35am
On Time

9 mins ago



Born	Feb 12, 1809
Died	Apr 15, 1865
Height	6' 4"

9 mins ago

Gingerbread
Chocolate Chip Cookies
Tiramisu
Donuts
Sugar Plum Gummies

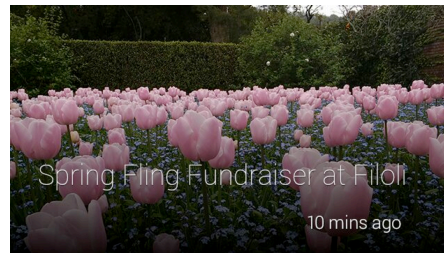
Grocery list

10 mins ago

8:00^{PM}
Dinner with folks
tonight

Their place

10 mins ago



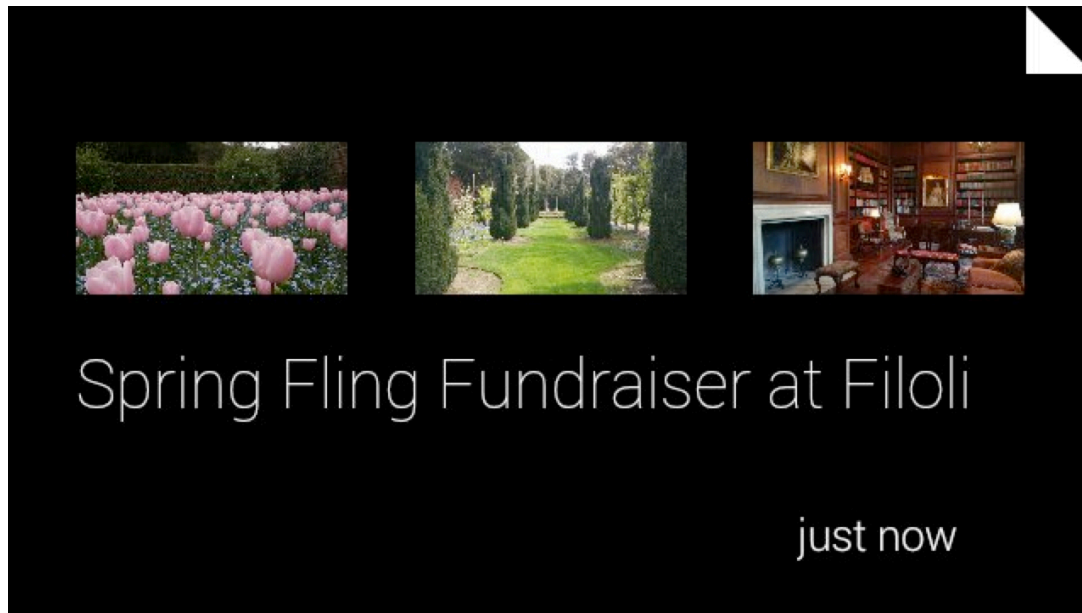
Spring Fling Fundraiser at Filoli

10 mins ago

Daly City › Dublin	in 5 min
Milbrae › Richmond	in 7 min
Fremont › Daly City	in 16 min
Pittsburg/Bay Point › SFO	in 21 min
Embarcadero BART	9 mins ago



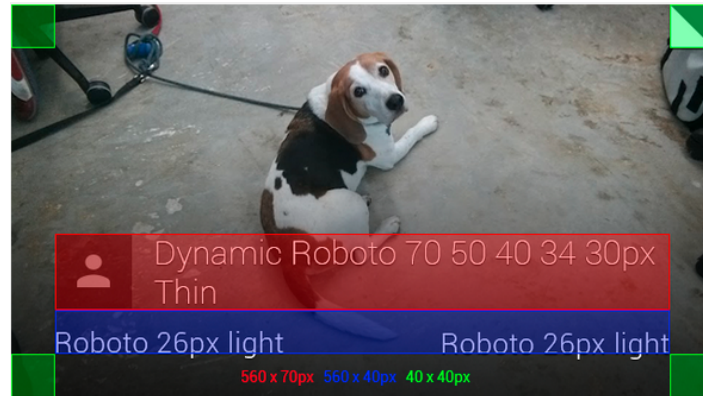
Types: Custom HTML



- Style tag in HTML
- Always test on Glass



Types: Custom HTML



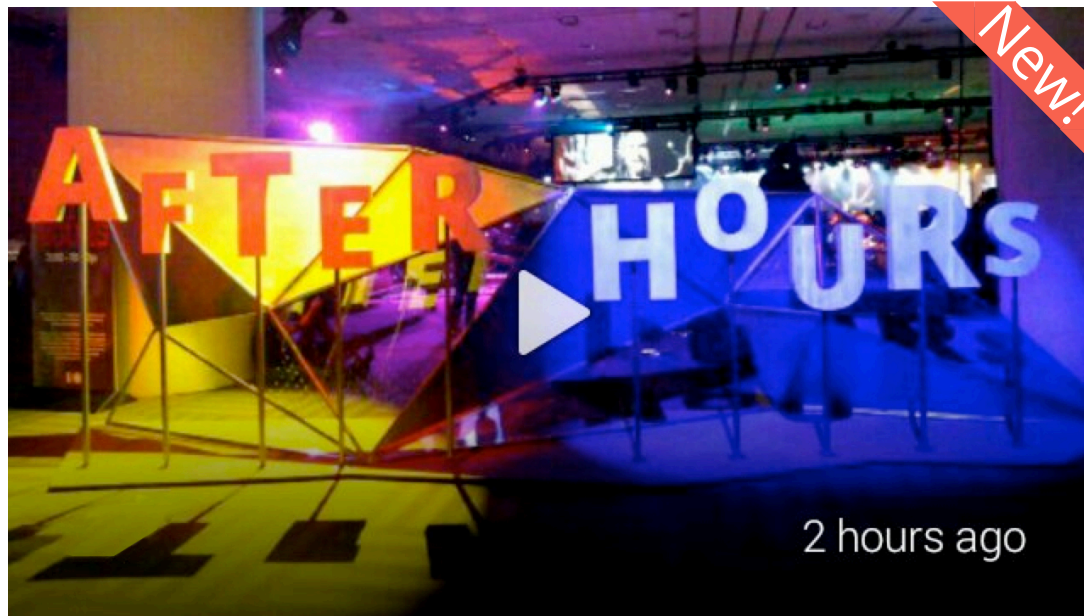
Types: Photo and Video Attachments



- 16x9 aspect ratio
- 640x360
- Videos should be short



Types: Video Streaming



- URL Attachment
- Google handles the rest



Bundling

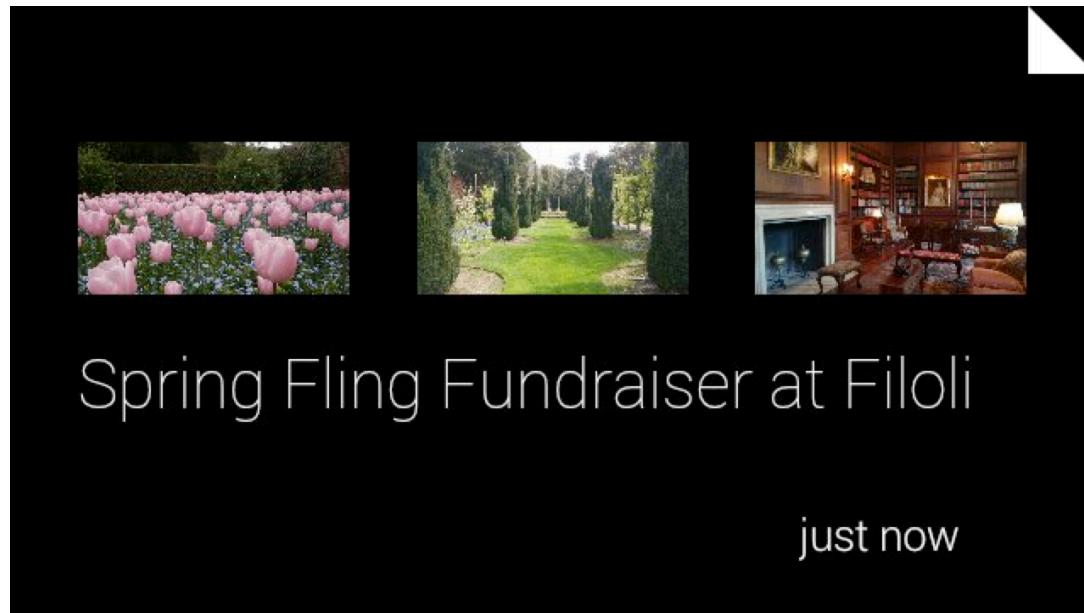


Spring Fling Fundraiser at Filoli

just now



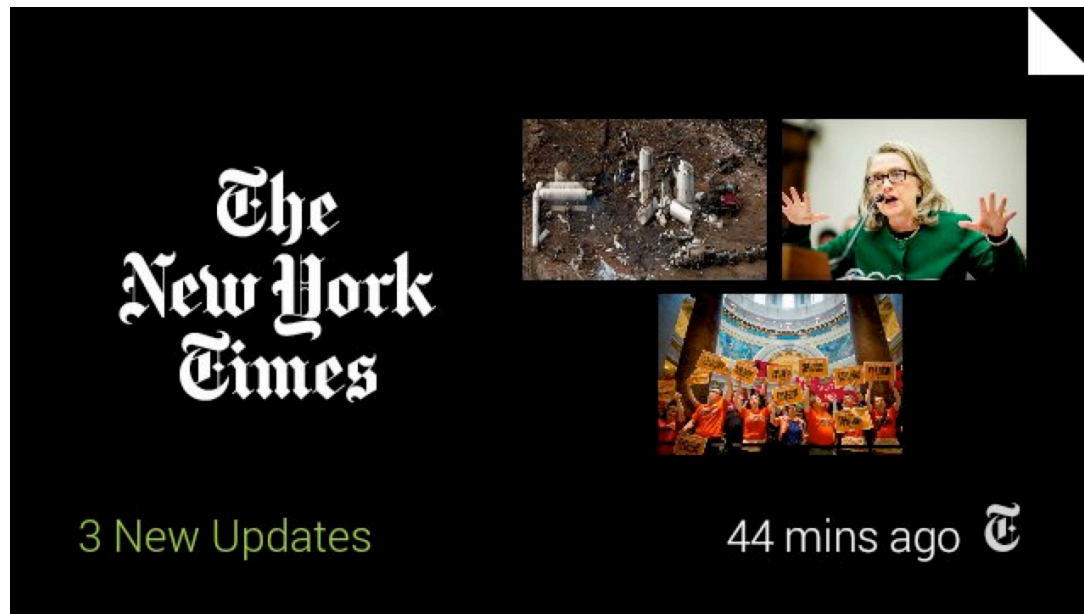
Bundling



- Single item
- Multiple item
- Digest covers



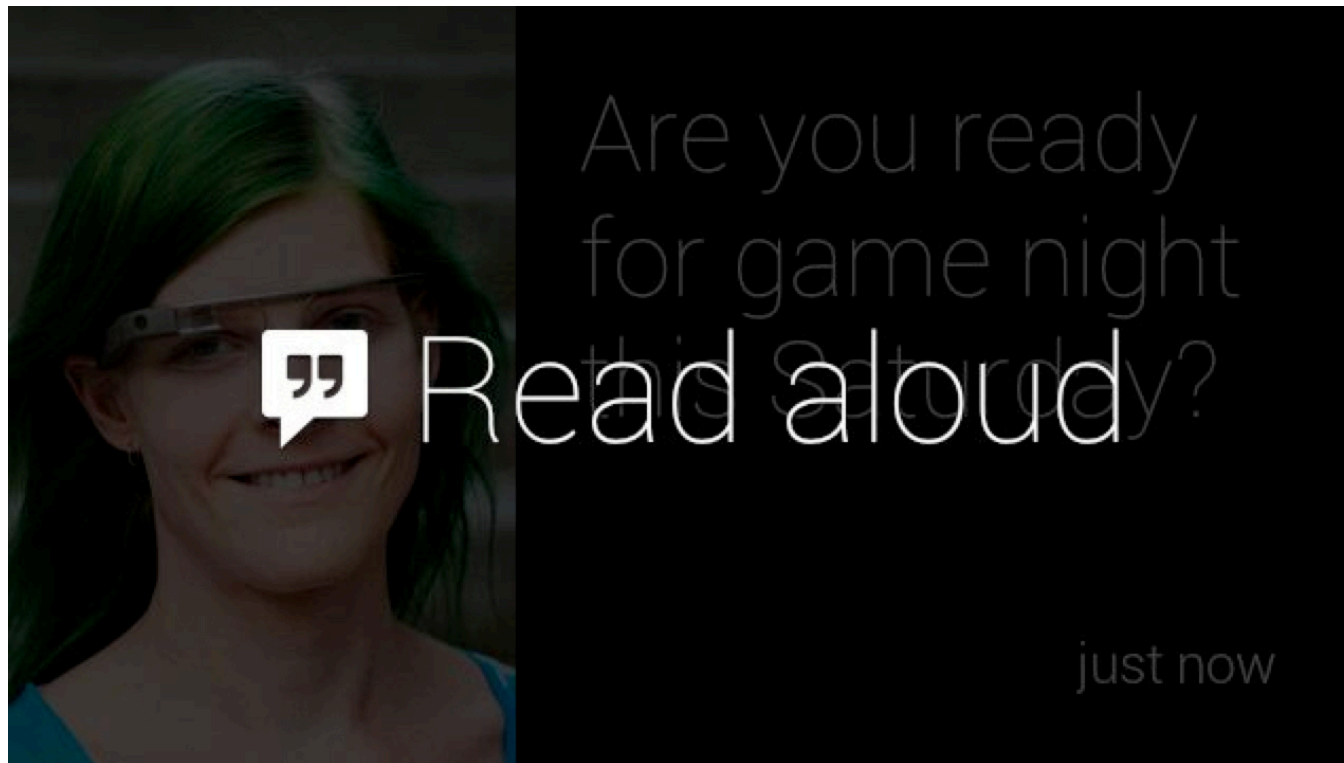
Bundling



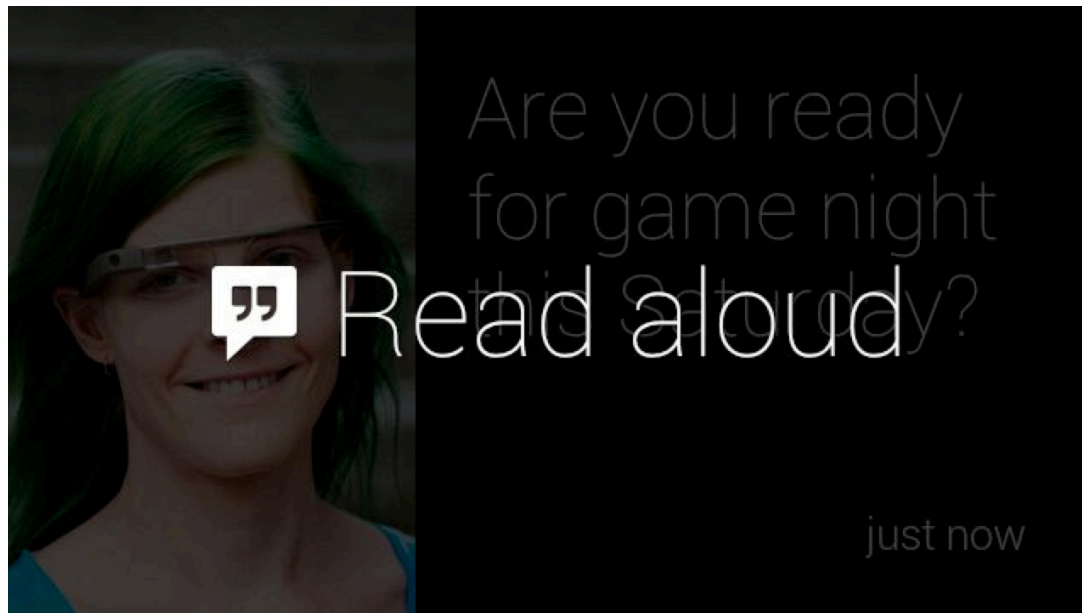
- Single item
- Multiple item
- Digest covers



Menu items



Menu items



- Short and actionable
- Handful of options
- Specify an icon
- Dismiss vs. delete



Sharing Contacts



- 640x360
- Specify acceptTypes
- #throughglass
- Sent through Glass



Reference

Screen aspect ratio	16x9
Screen resolution	640 x 360 pixels
Share contact icon size	640 x 360 pixels
Menu option icon size	50 x 50 pixels
Supported media format	Container: MP4 Video: H.264 baseline and H.263 baseline Audio: AAC and MP3





Examples



The New York Times

Path



The New York Times



ELLE

tumblr.

Path



CNN

New!






Google+

Google+



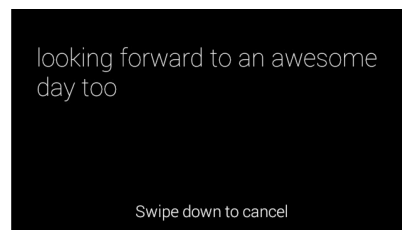
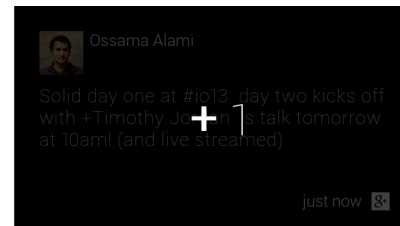
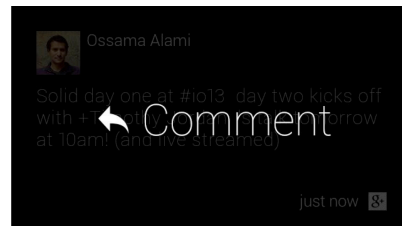
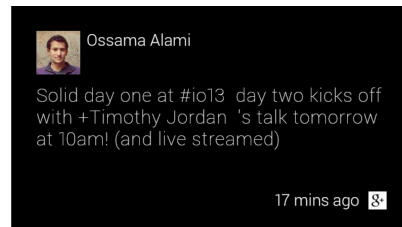
Ossama Alami

Solid day one at #io13 day two kicks off with +Timothy Jordan 's talk tomorrow at 10am! (and live streamed)

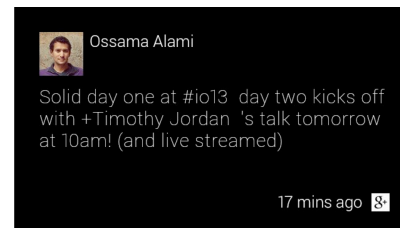
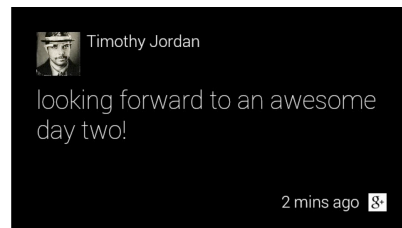
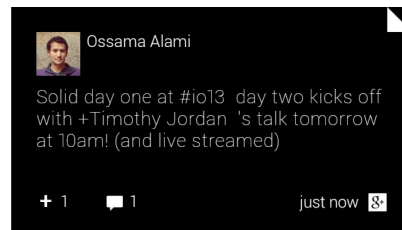
17 mins ago 



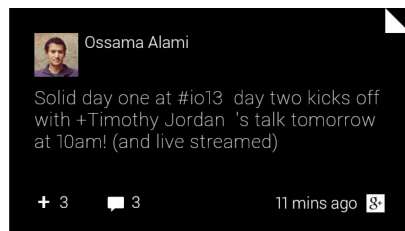
Google+



Google+



Google+



Ossama Alami

Solid day one at #io13 day two kicks off with +Timothy Jordan 's talk tomorrow at 10am! (and live streamed)

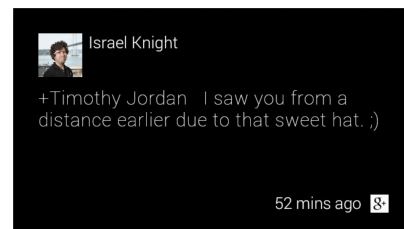
+ 3 3 11 mins ago



Jenny Murphy

+Israel Knight It's a great hat, isn't it? :)

13 mins ago



Israel Knight

+Timothy Jordan I saw you from a distance earlier due to that sweet hat. :)

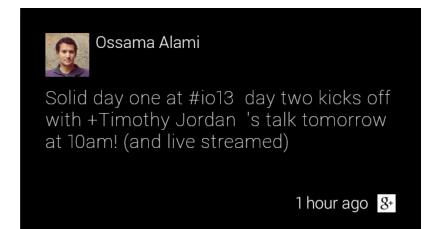
52 mins ago



Timothy Jordan

looking forward to an awesome day two!

2 mins ago



Ossama Alami

Solid day one at #io13 day two kicks off with +Timothy Jordan 's talk tomorrow at 10am! (and live streamed)

1 hour ago





CNN



POWERED BY Google

CNN News & Topic Alerts on Google Glass



Logged in as:
camicrepe@gmail.com
([logout](#))

SETTINGS

Send alerts?

Send alerts between 9:00 am and 6:00 pm PST

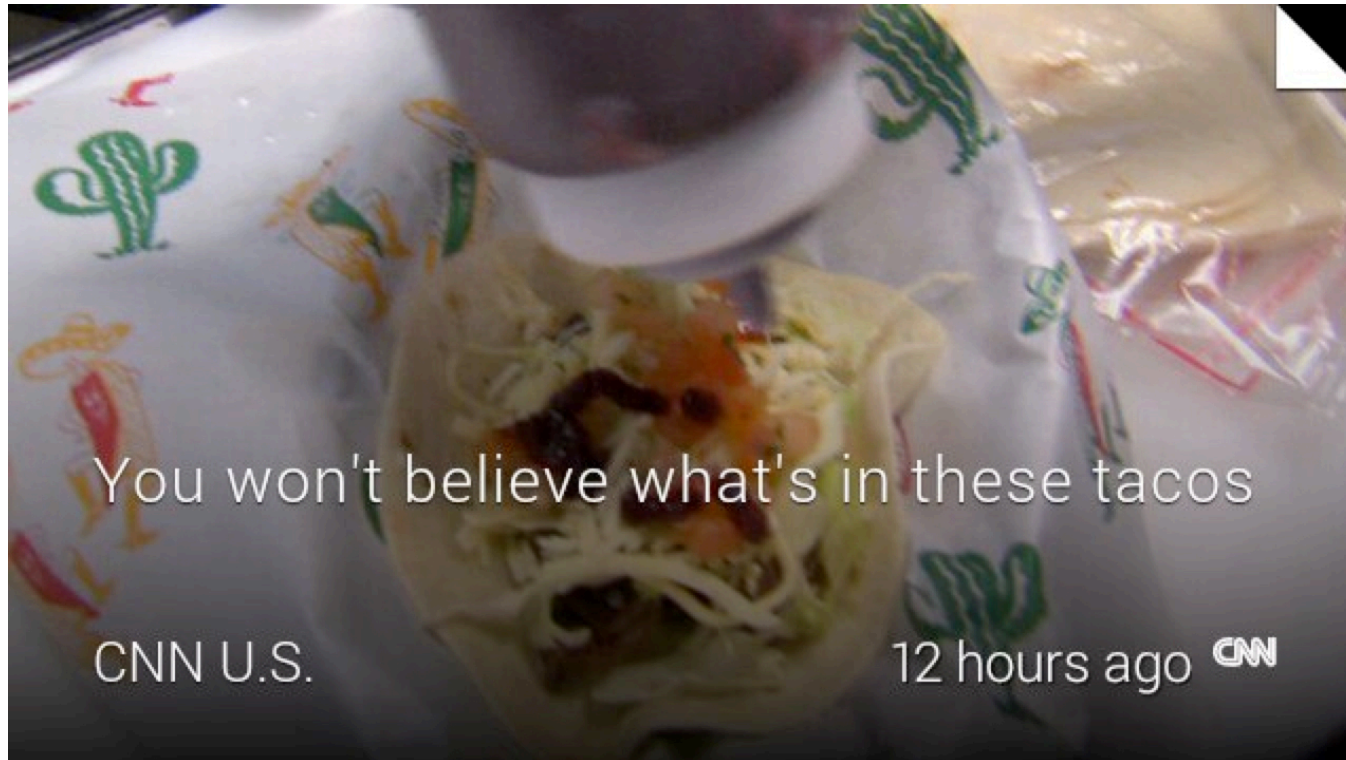
Topics

Topic	Alerts Per Day
<input checked="" type="checkbox"/> Top Stories	19
<input checked="" type="checkbox"/> U.S.	14
<input type="checkbox"/> World	10
<input type="checkbox"/> Business	9
<input type="checkbox"/> Sports	3
<input type="checkbox"/> Politics	2
<input type="checkbox"/> Health	2
<input type="checkbox"/> Entertainment	2
<input checked="" type="checkbox"/> Tech	1

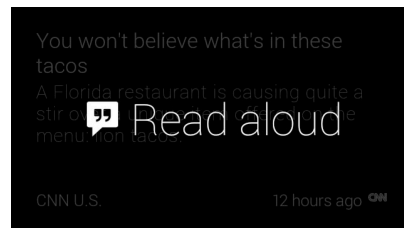
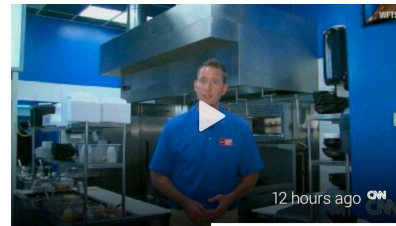
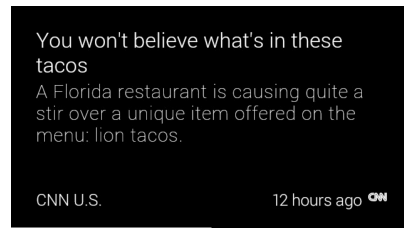
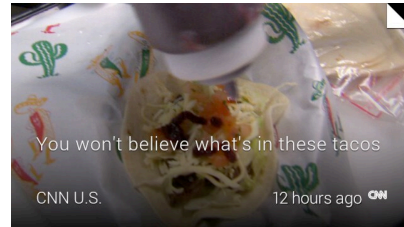
Save



CNN



CNN





Twitter

Twitter



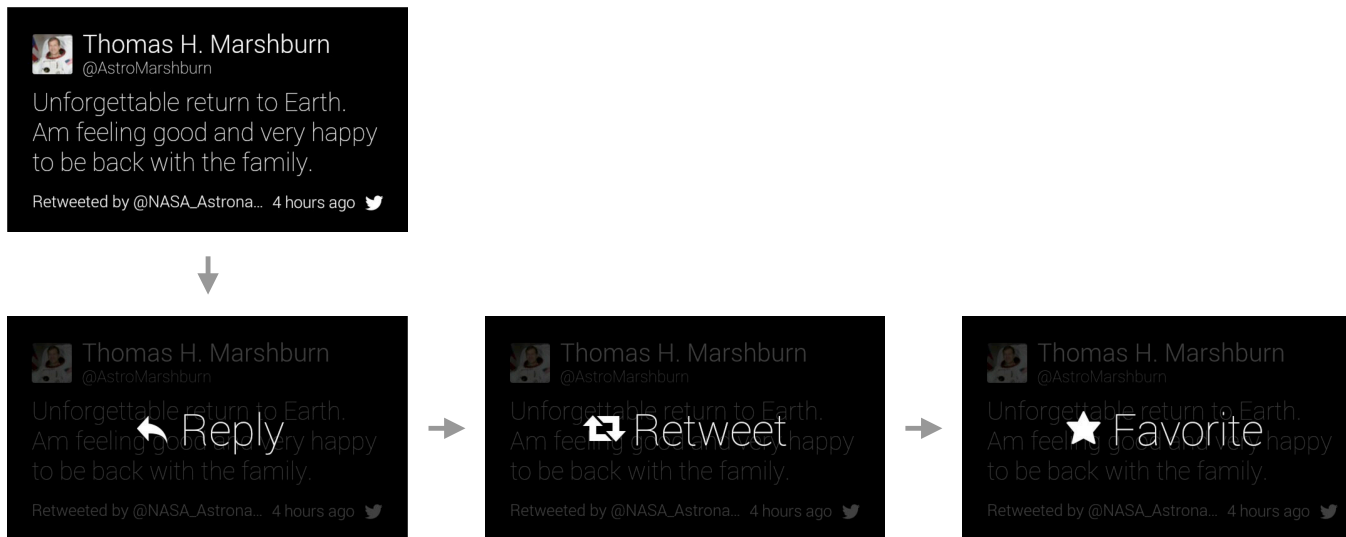
Thomas H. Marshburn
@AstroMarshburn

Unforgettable return to Earth.
Am feeling good and very happy
to be back with the family.

Retweeted by @NASA_Astrona... 4 hours ago 



Twitter



Twitter




Alain Vongsouvanh

@avongsouvanh

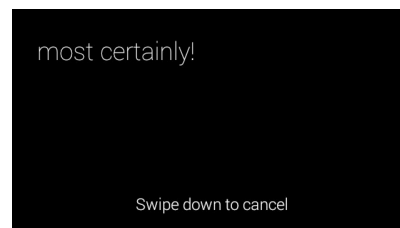
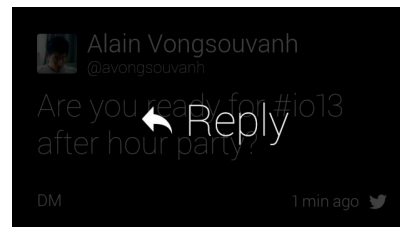
Are you ready for #io13
after hour party?

DM

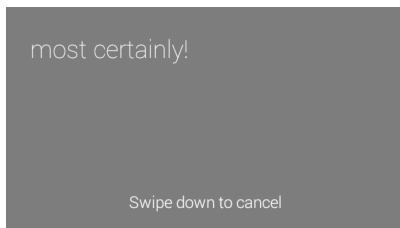
just now 



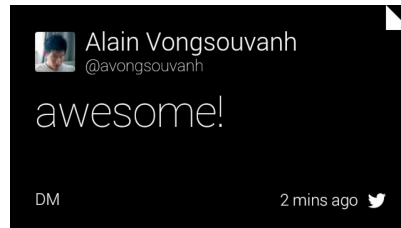
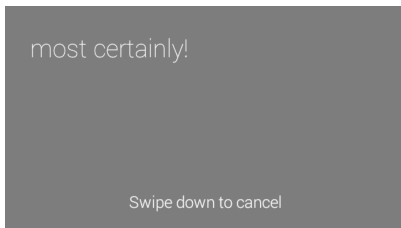
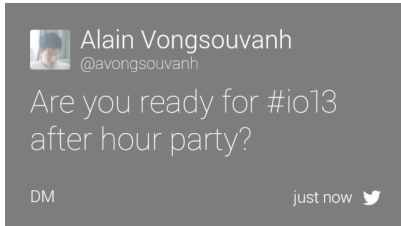
Twitter



Twitter



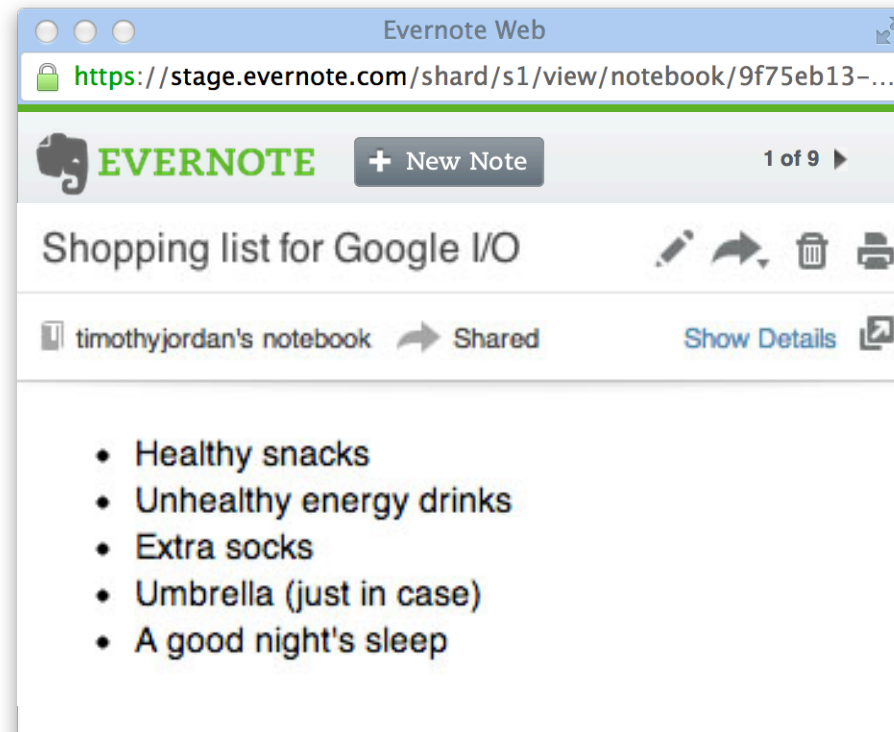
Twitter



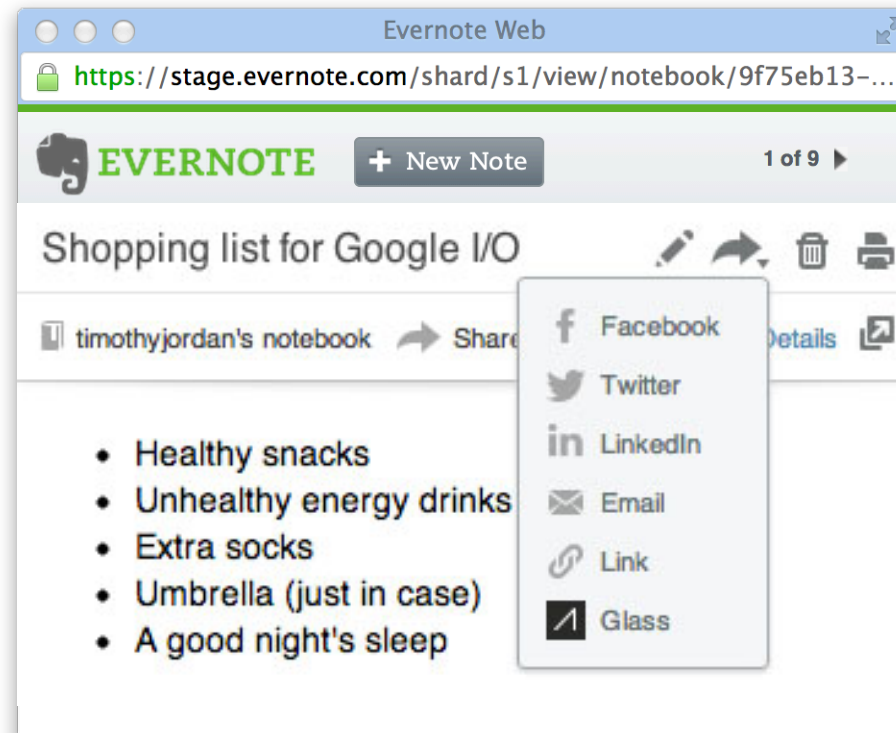


Evernote

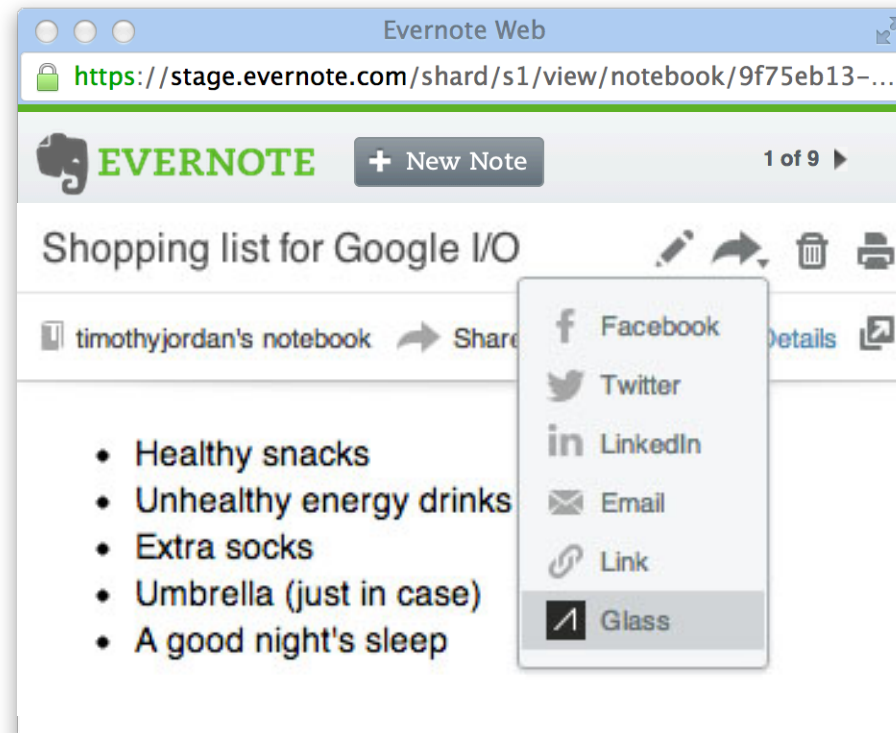
Evernote



Evernote




Evernote



Evernote

Shopping list for Google I/O

- Healthy snacks
- Unhealthy energy drinks
- Extra socks
- Umbrella (just in case)
- A good night's sleep

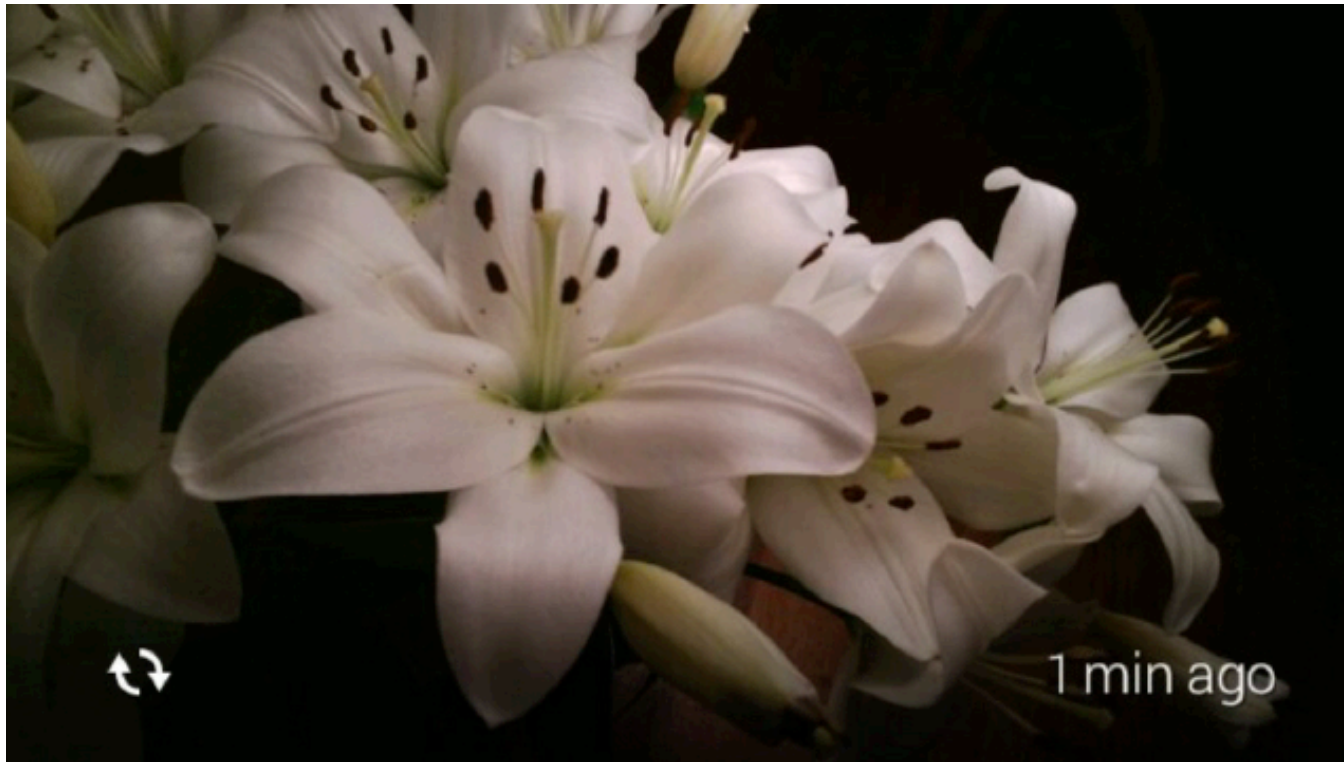
just now 



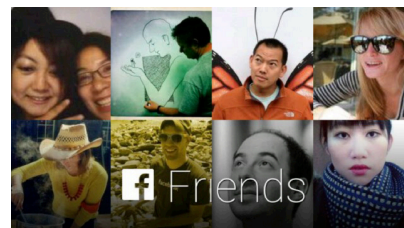
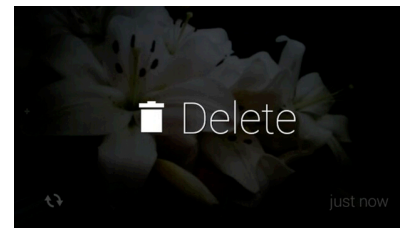
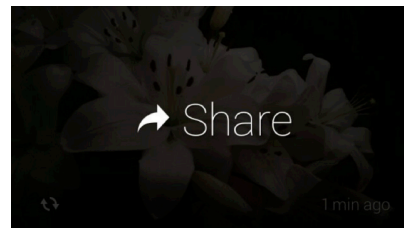
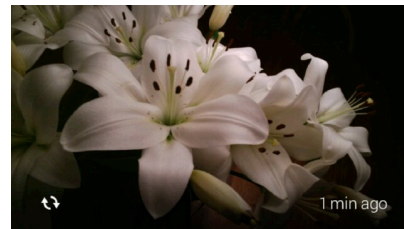


Facebook

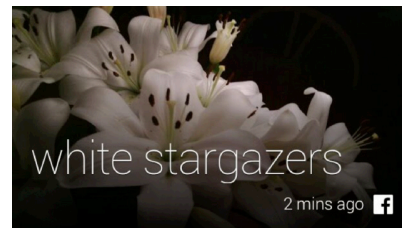
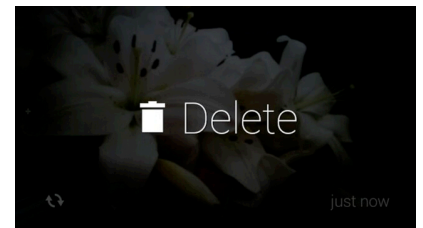
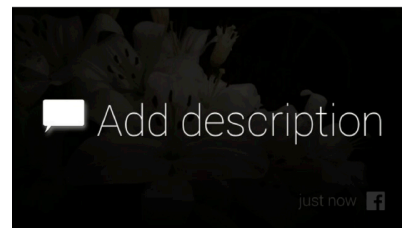
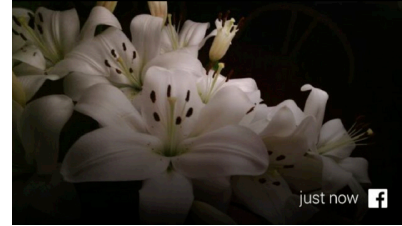
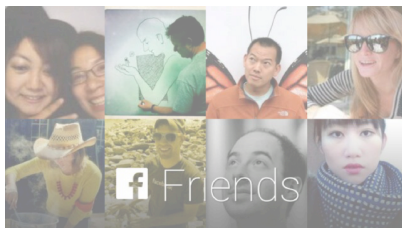
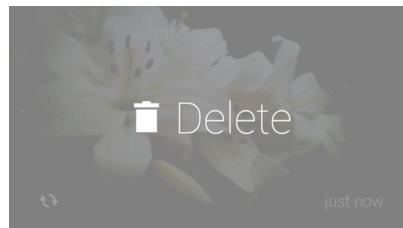
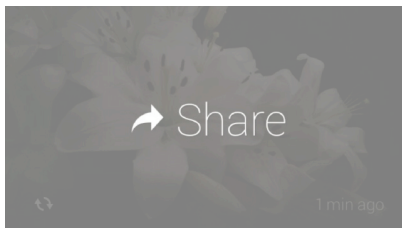
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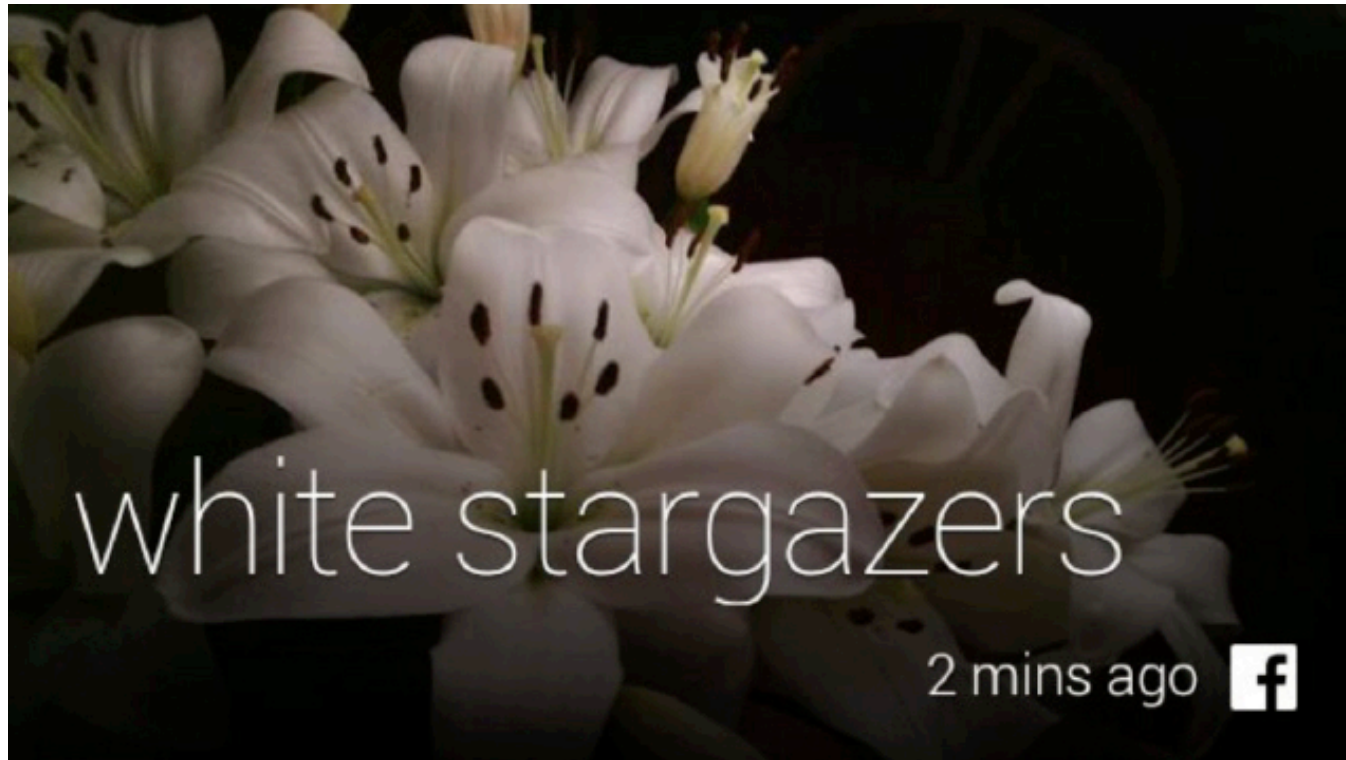
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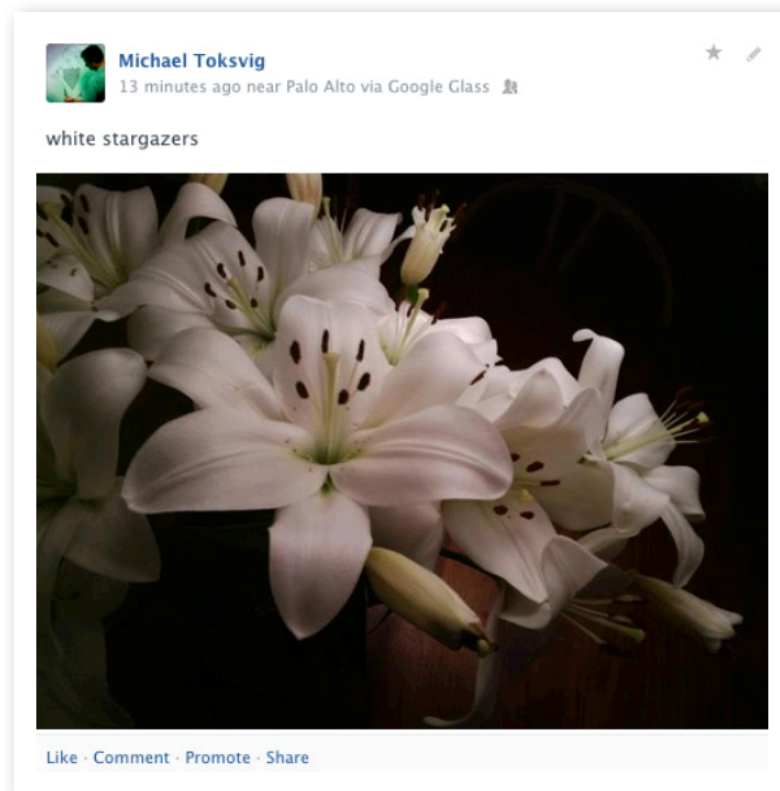
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SETTINGS AND PREFERENCES



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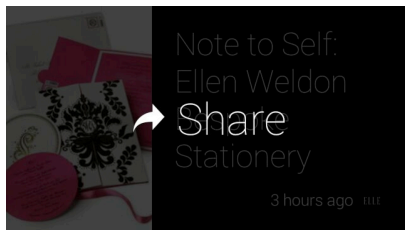
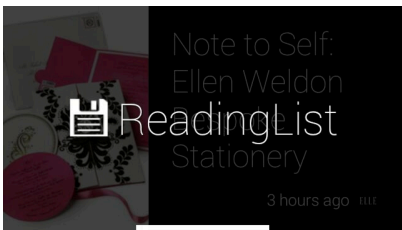
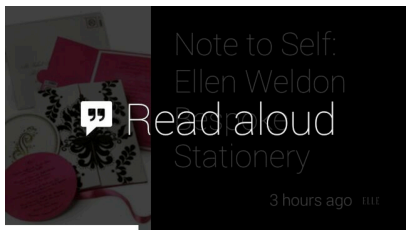
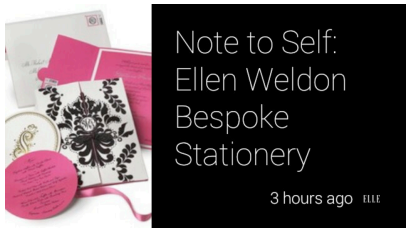
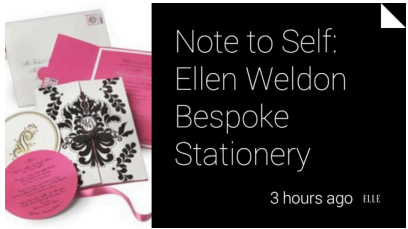


Note to Self: Ellen Weldon Bespoke Stationery

3 hours ago ELLE



Elle





Ice Breaker

<http://icebreaker.io>



<https://icebreaker.io>



ICE BREAKER




Ice Breaker

Welcome to Ice Breaker!

We'll try to find someone near you for you to meet!

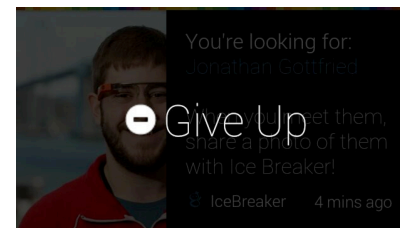
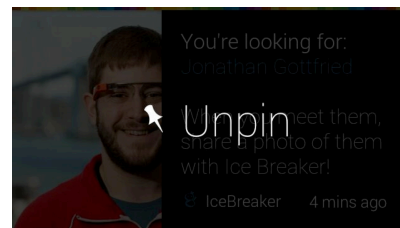
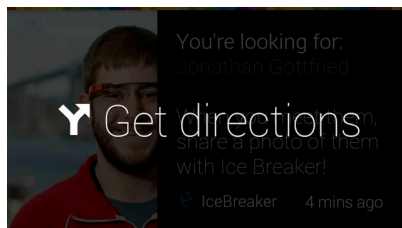
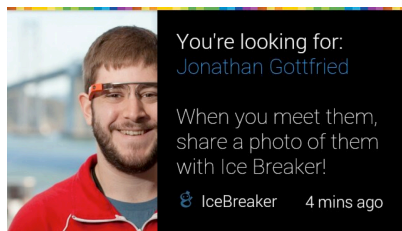
Your mission is to locate them and introduce yourself!

 IceBreaker

14 mins ago




Ice Breaker



Ice Breaker

Awesome! We received
the photo you took and
have sent it to [Jonathan
Gottfried](#)

 IceBreaker

just now













Next steps

Google I/O

Glass track

Day 2	10am - 11am	11:15am - 11:55am	12:45pm - 1:25pm	1:40pm - 2:20pm	2:35pm - 3:15pm	3:30pm - 4:10pm
 Glass	Developing For Glass Room 2   		Building Glass Services with the Google Mirror API Room 7 		Voiding Your Warranty: Hacking Glass Room 2  	Fireside Chat with the Glass Team Room 7 



Google I/O

Sandbox





Resources

developers.google.com/glass/community



GitHub





Resources

Explorer Community

www.glass-community.com

Thank you!

developers.google.com/glass
google.com/+TimothyJordan





Google
Developers