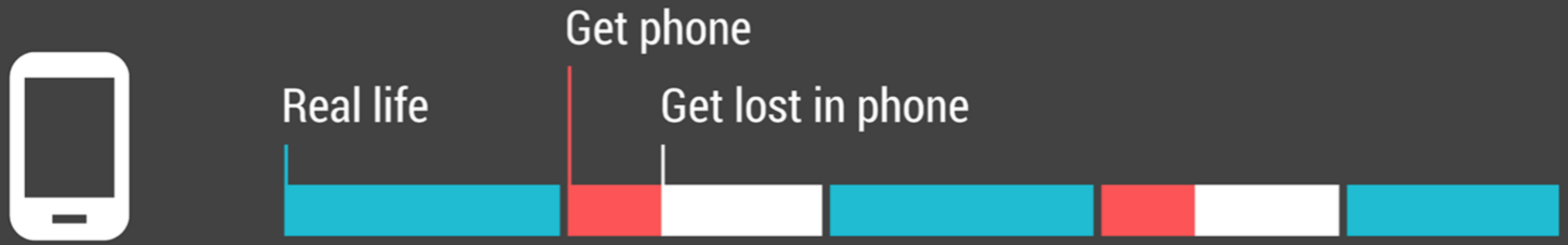
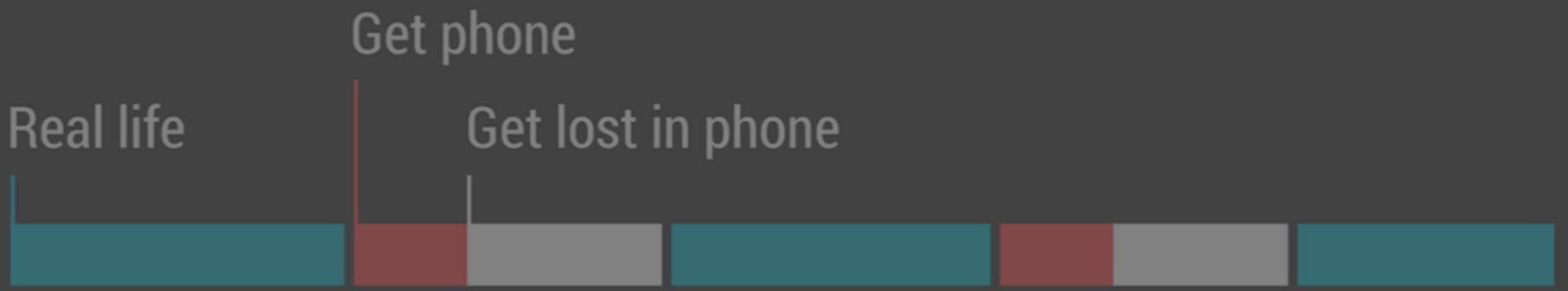
android wear

#androidwear

#androidwear


Get phone
Real life
Get lost in phone

More connected to the people around you, and those not with you right now



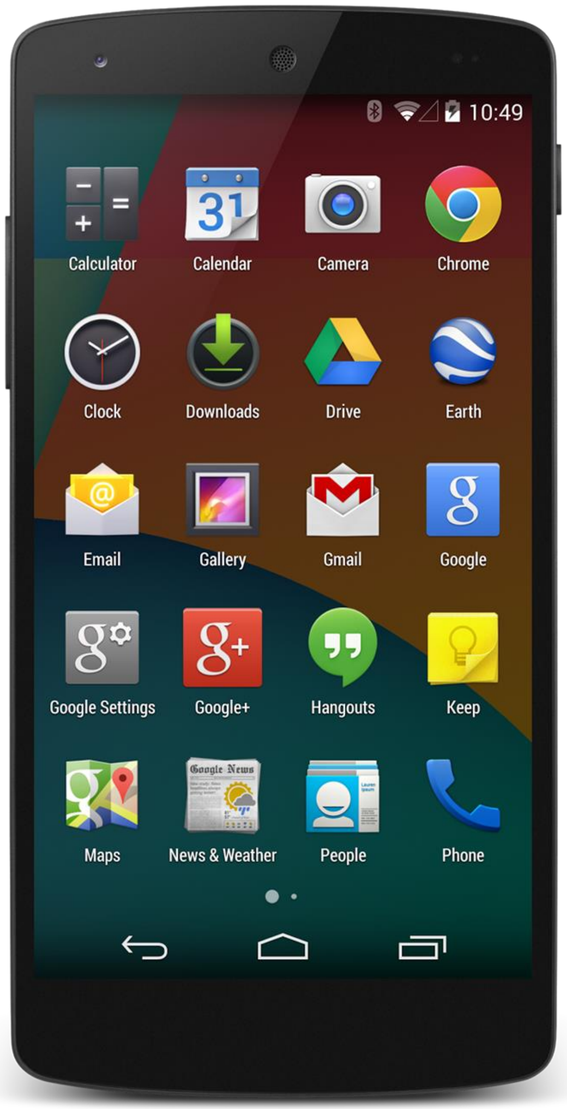
#androidwear

Technology

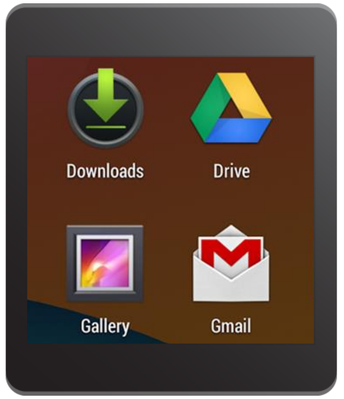
- **Should not require all our attention**
- **Require least amount of cognitive overhead**
- **Provide information without distraction**
- **Compress information**

#androidwear

7:30
68°
#androidwear



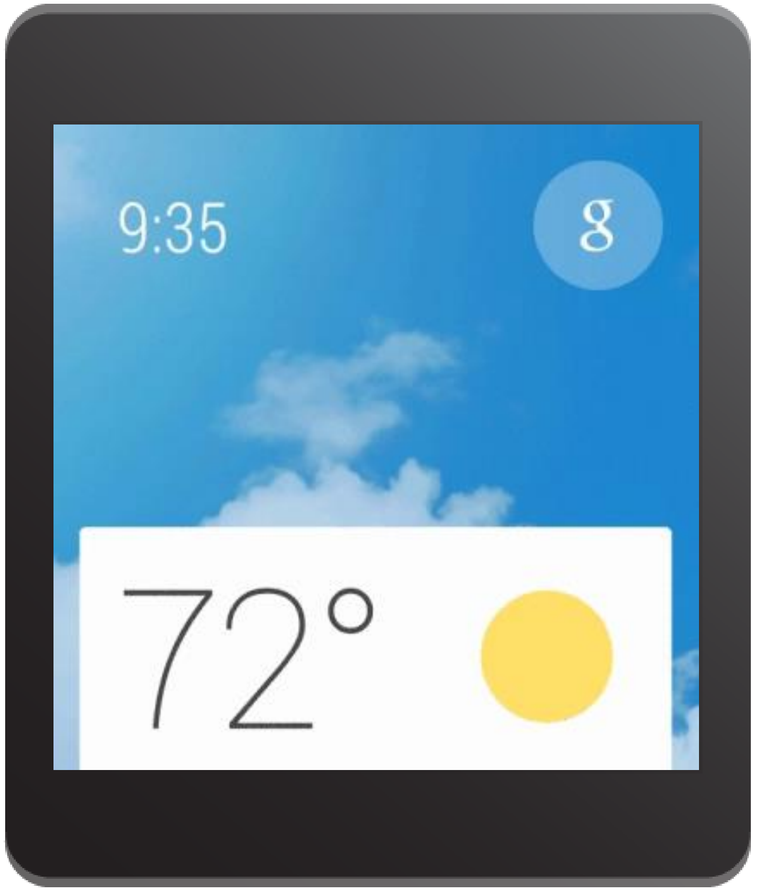
#androidwear

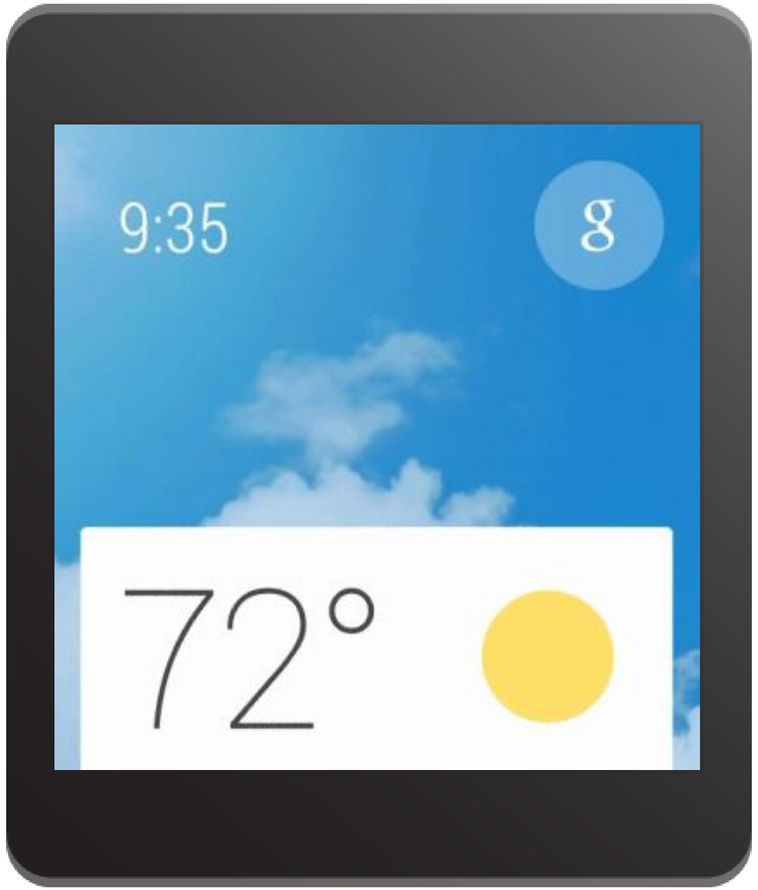


#androidwear

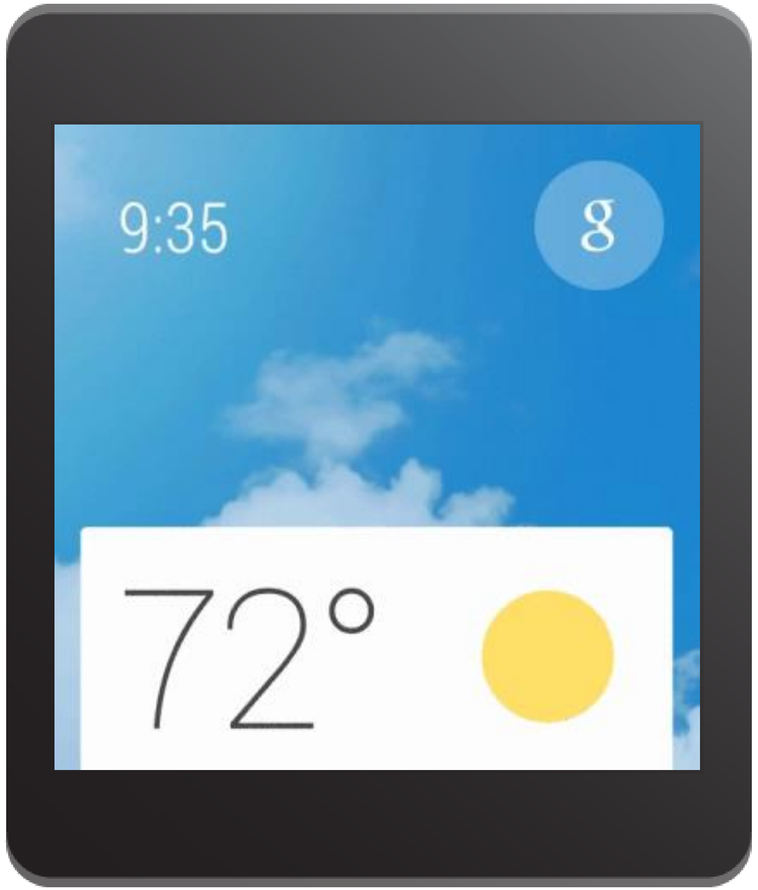
Tue
9

dippin' dots

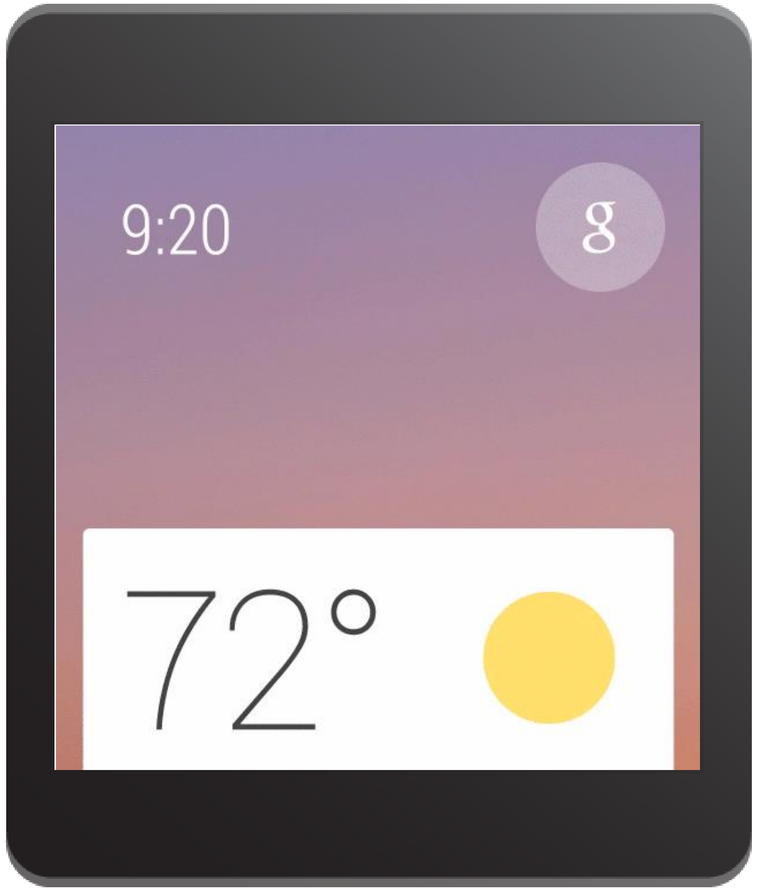

9:35
72°



— you talk to the wearable

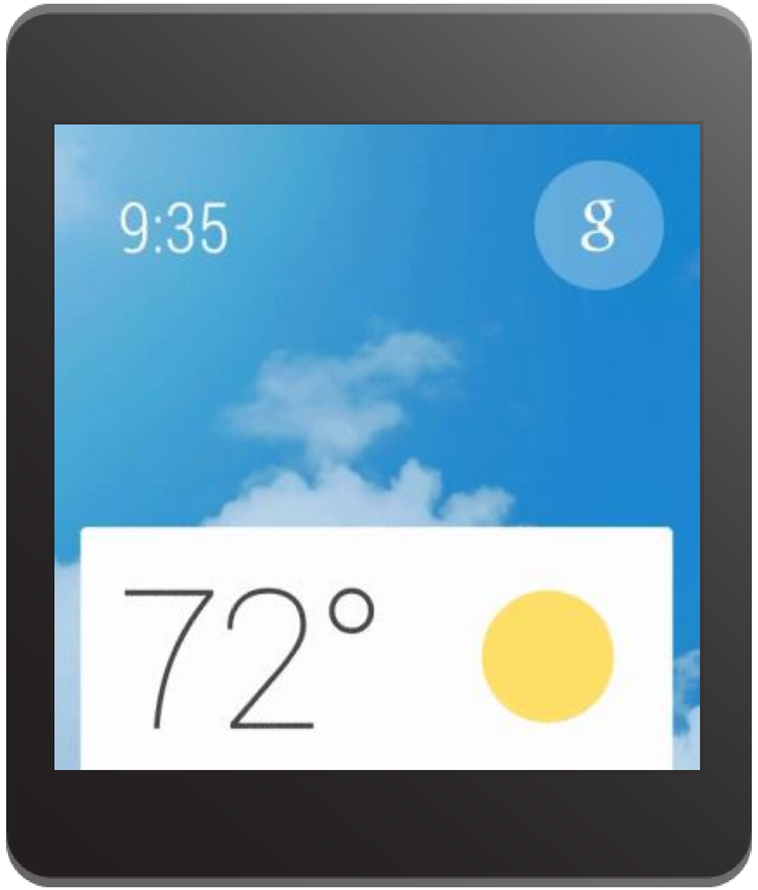


— actions



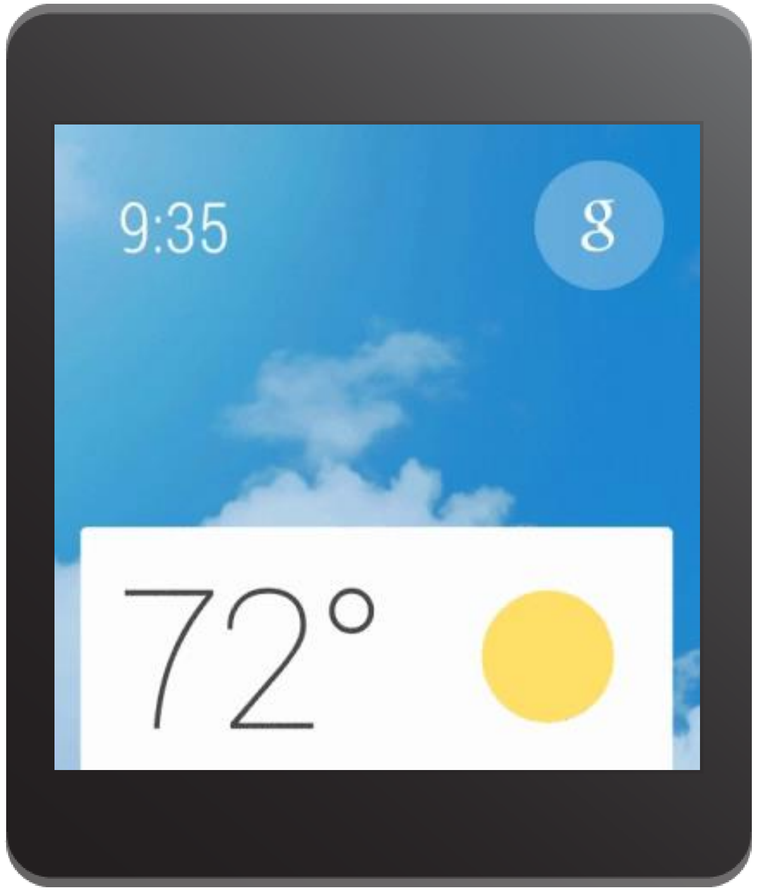
— actions

the wearable talks to you



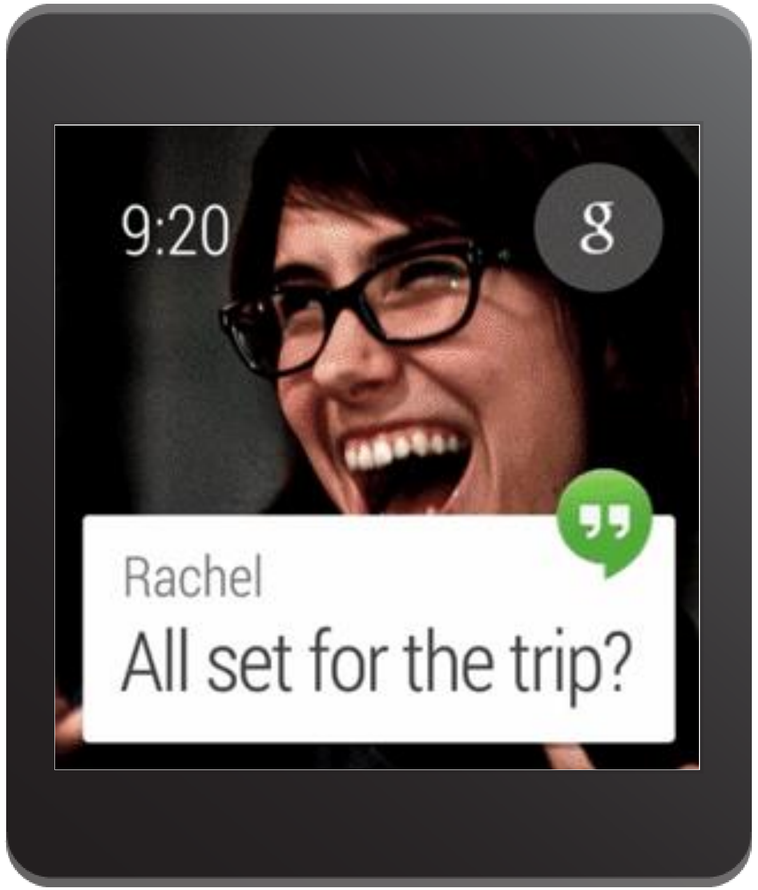
actions

context —

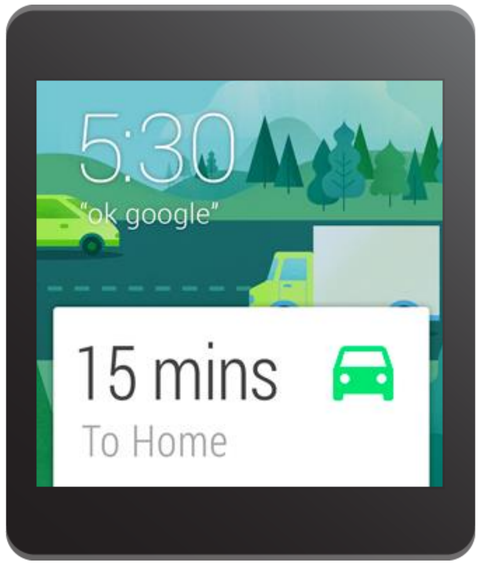


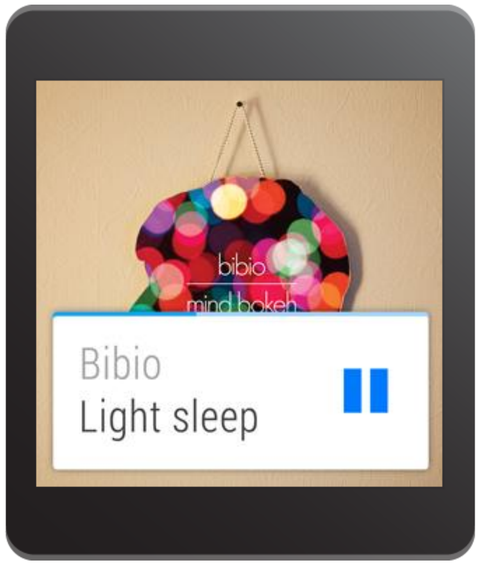
— actions

context —

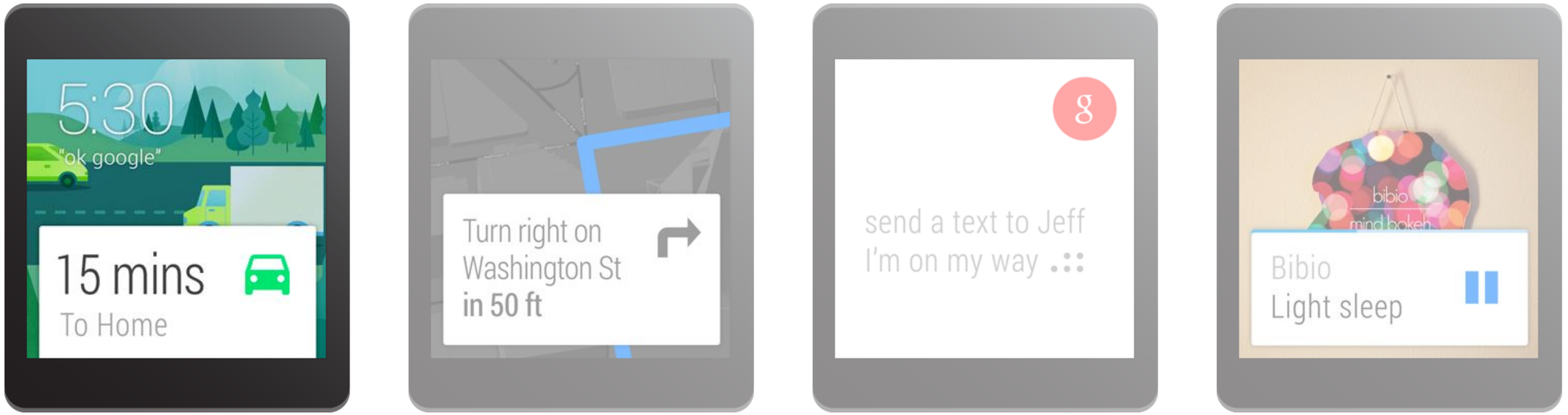


— actions

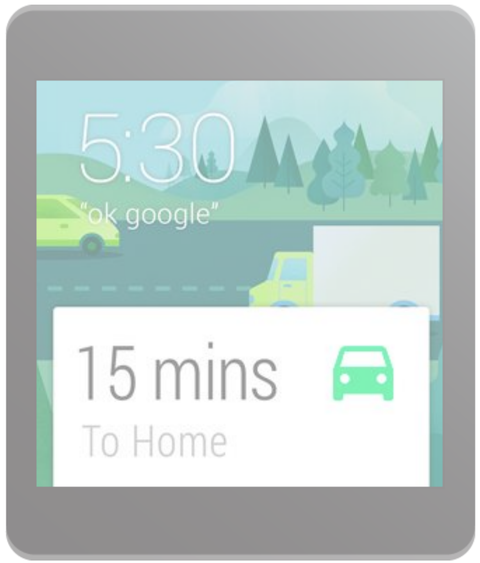




#androidwear

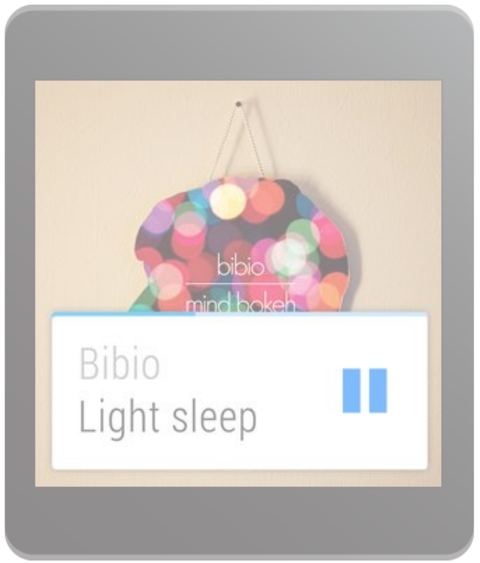


Launched automatically

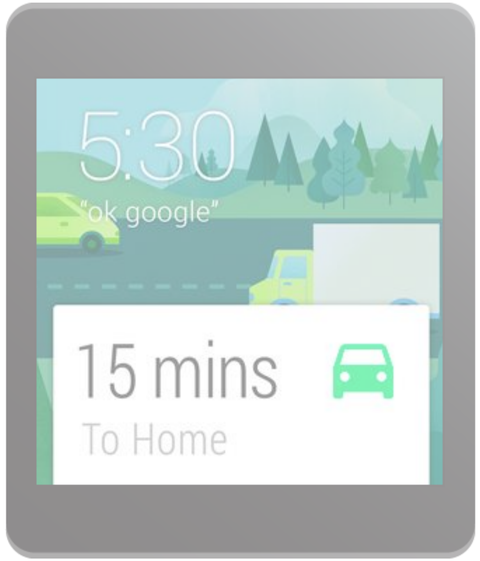

5:30
"ok google"
15 mins
To Home

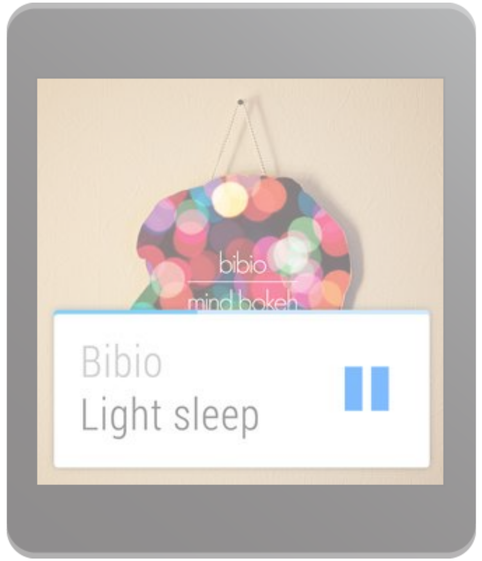
Turn right on
Washington St
in 50 ft

send a text to Jeff
I'm on my way

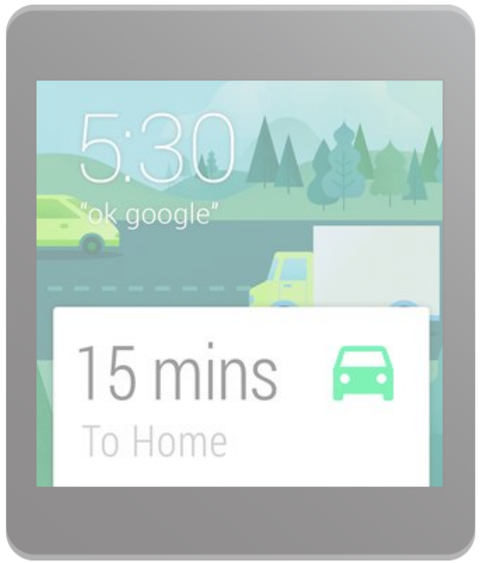

bibio
mind.broken
Bibio
Light sleep

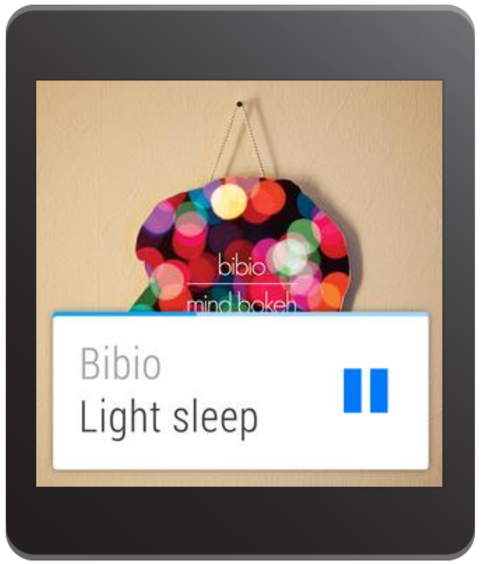
Glanceable



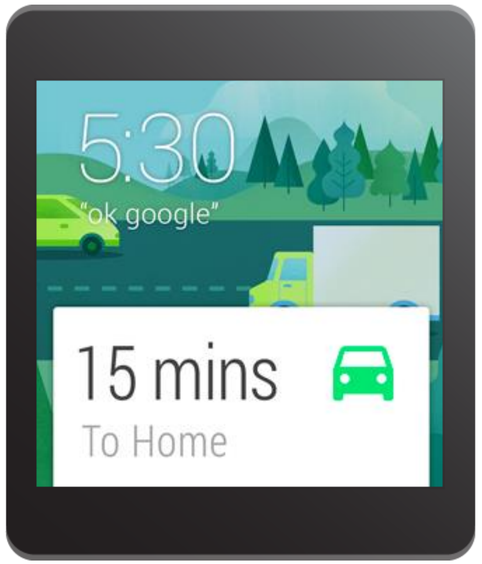


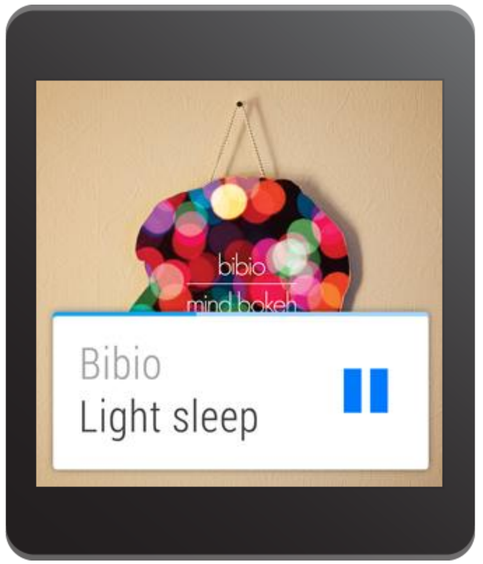
Suggest and demand





Zero or low interaction



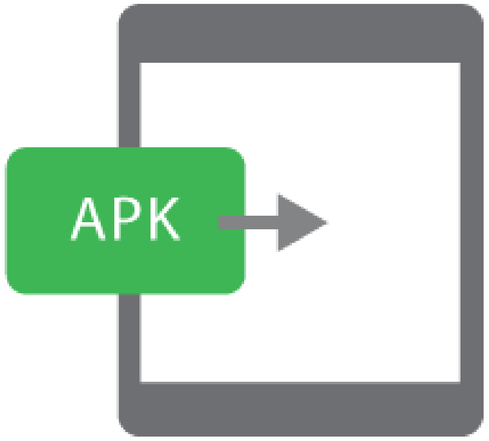


#androidwear

"It keeps me from looking at my phone every two seconds."

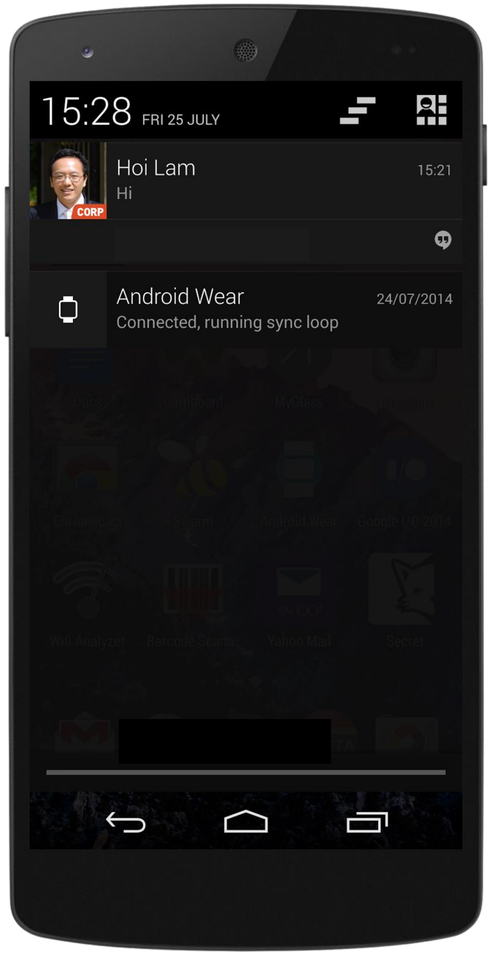
Developing

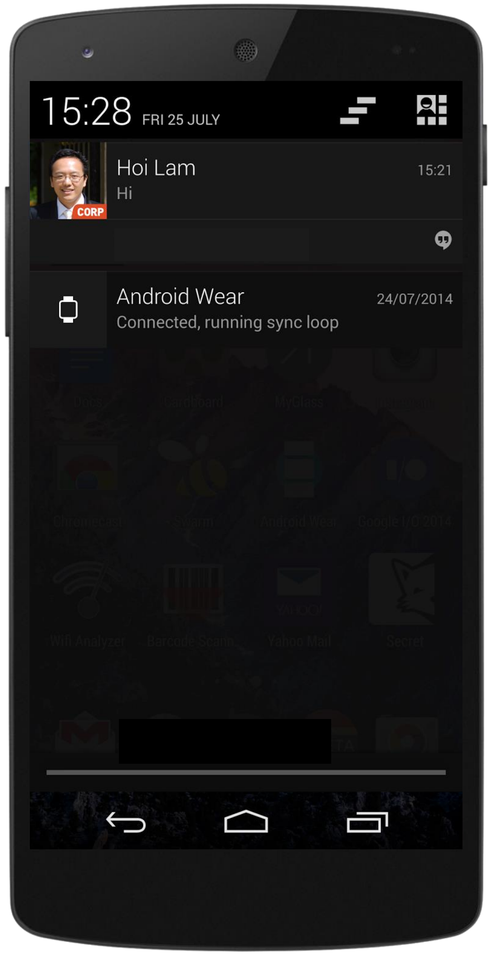
Notifications

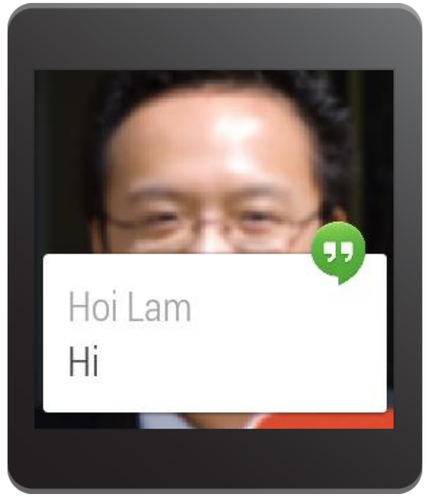


Apps

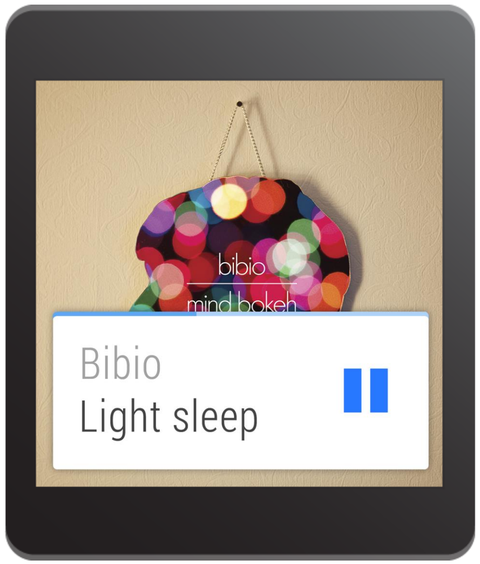
Notifications

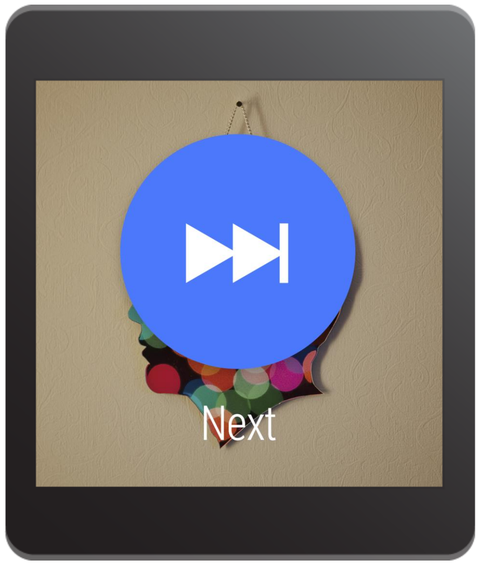

15:28 FRI 25 JULY
Hoi Lam
Hi
15:21
CORP
Android Wear
Connected, running sync loop
24/07/2014

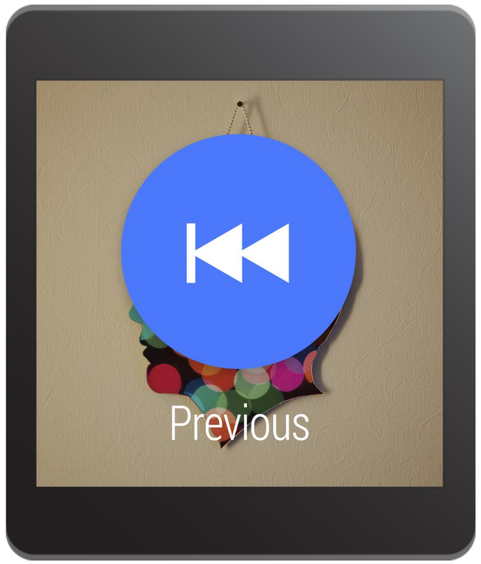

15:28 FRI 25 JULY
Hoi Lam
Hi
15:21
CORP
Android Wear
Connected, running sync loop
24/07/2014

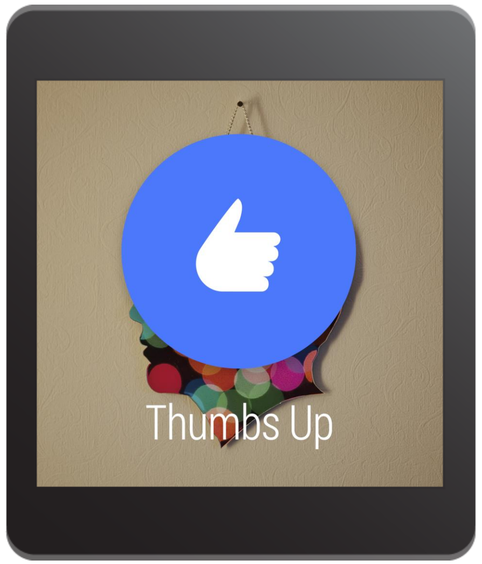

Hoi Lam
Hi

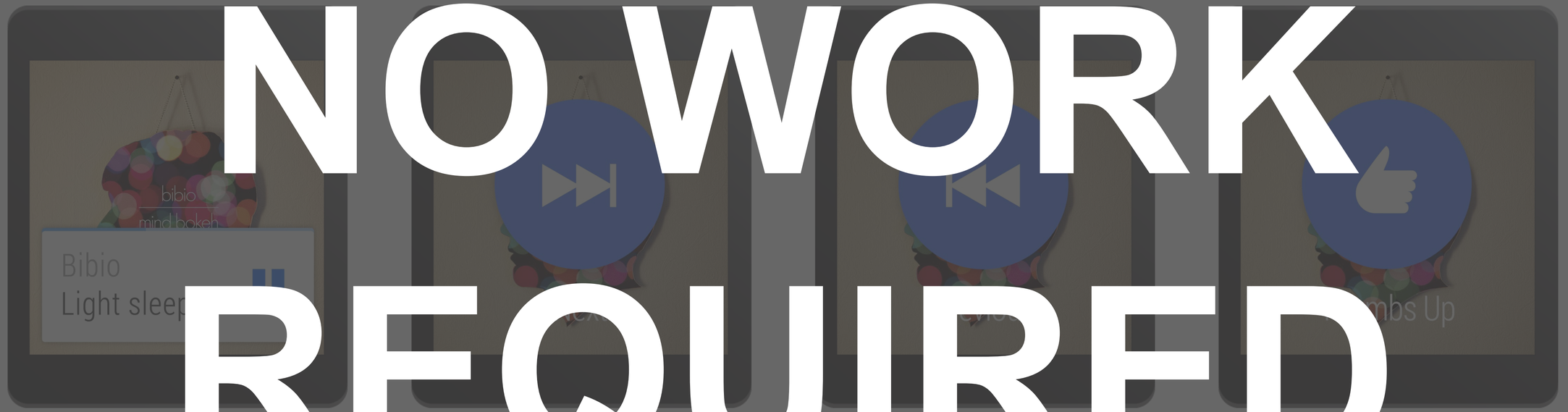
NO WORK REQUIRED


bibio
mind boken
Bibio
Light sleep


Next

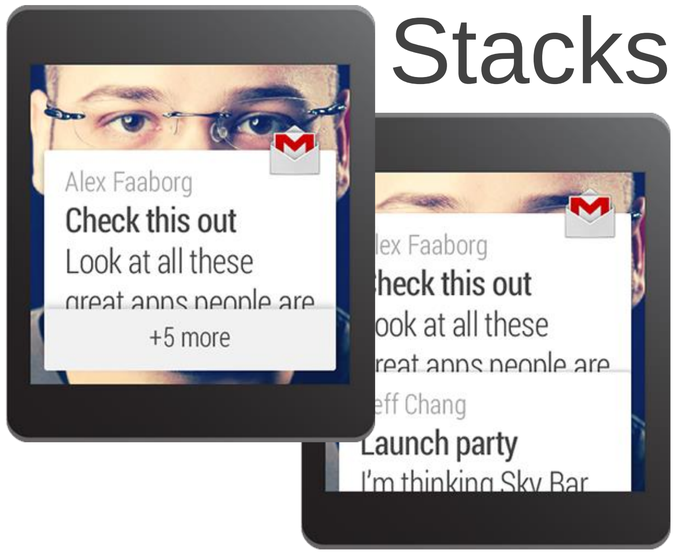

Previous


Thumbs Up

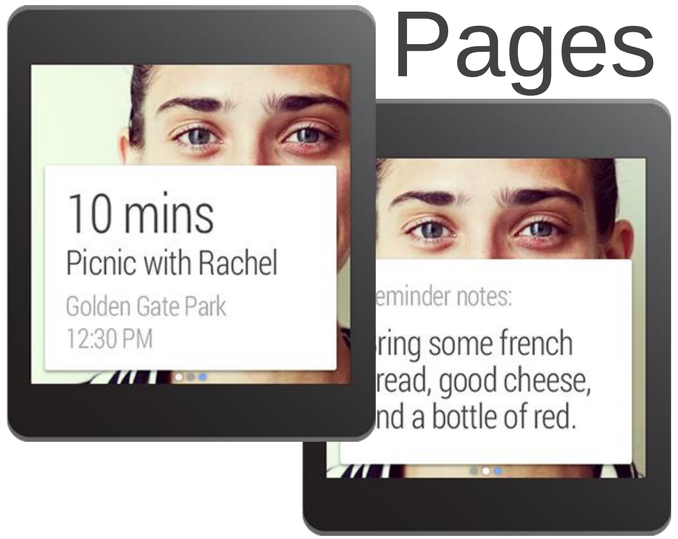


NO WORK REQUIRED

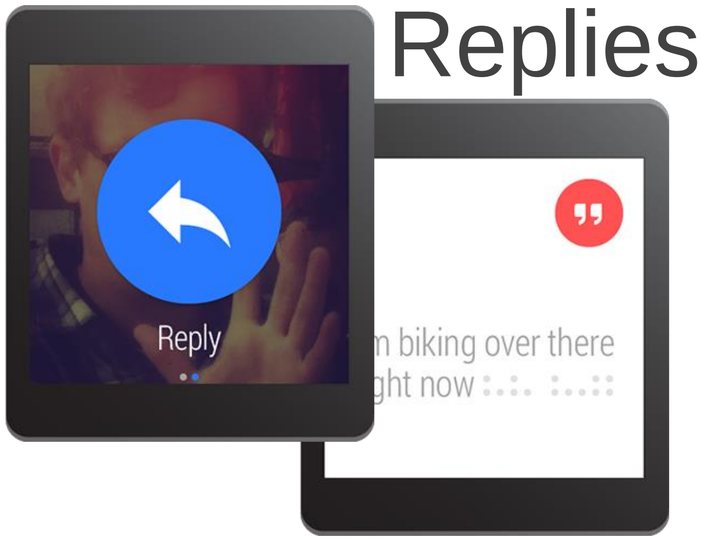
Stacks



Pages

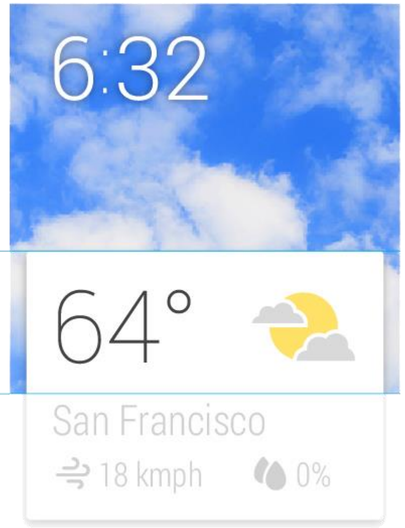


Replies



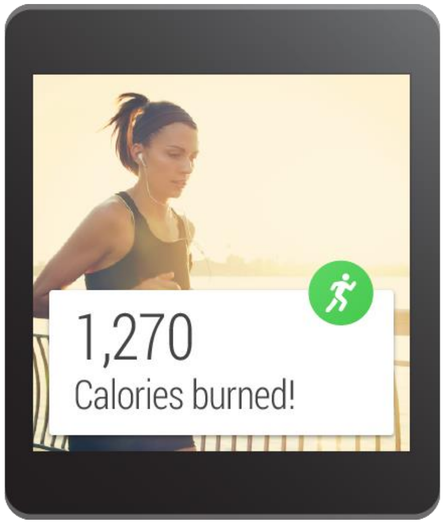
#androidwear

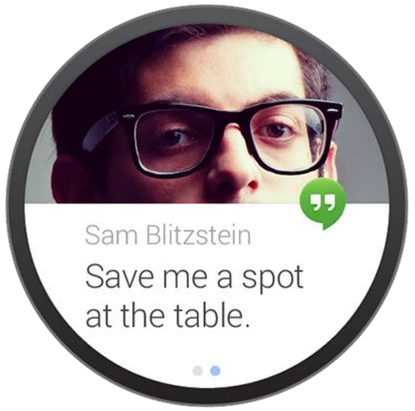
Android Wear Style Elements



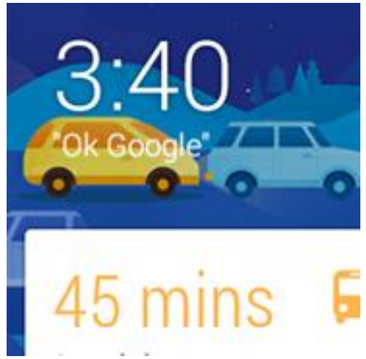
68 DP

Peek Card Readability

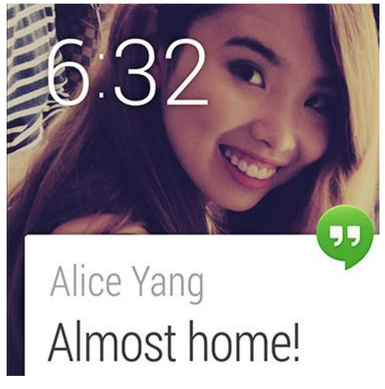




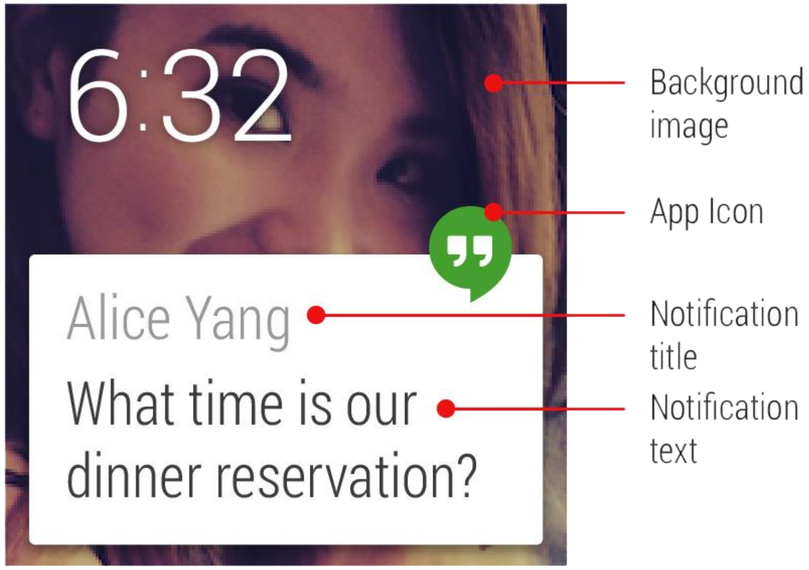
Square v/s Round



Low Information Density



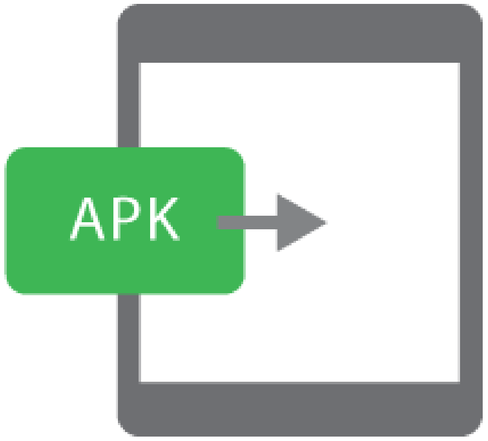
Use Clear, Bold Typography



Additional Assets

#androidwear

Notifications



Apps

Send data

Custom UI

Voice Actions

Establish Connection

Thirsty
Previous Slide

APK

GoogleApiClient

```
mGoogleApiClient = new GoogleApiClient.Builder(context)
                .addApi(Wearable.API)
                .addConnectionCallbacks(this)
                .addOnConnectionFailedListener(this)
                .build();
```

Establish Connection

In Activity

```
@Override
    protected void onStart() {
        super.onStart();
        mGoogleApiClient.connect();
    }


   @Override
    protected void onStop() {
        super.onStop();
        mGoogleApiClient.disconnect();
    }
```

Node

Know when two devices are connected

Message

Data

exchange **low latency messages**
OR
Store data that is shared between phone and wearable

Method

```
PendingResult<GetConnectedNodesResult>
 getConnectedNodes(GoogleApiClient);
client);
```

Listener

```
public interface NodeListener {
  void onPeerConnected(Node peer);
  void onPeerDisconnected(Node peer);
}
```

Method

```
PendingResult<SendMessageResult>
 sendMessage(GoogleApiClient client, String nodeId, String action, byte[] data);
```

Listener

```
public interface MessageListener {
  void onMessageReceived(MessageEvent messageEvent);
}
```

Methods

```
PendingResult<DataItemResult>
      putDataItem(GoogleApiClient client, PutDataRequest request);

PendingResult<DataItemResult>
      getDataItem(GoogleApiClient client, Uri uri);
```

Listener

```
public interface DataListener {
  void onDataChanged(DataEventBuffer dataEvents);
}
```

Service

```
public class MyListenerService extends WearableListenerService {
  ...
}
```

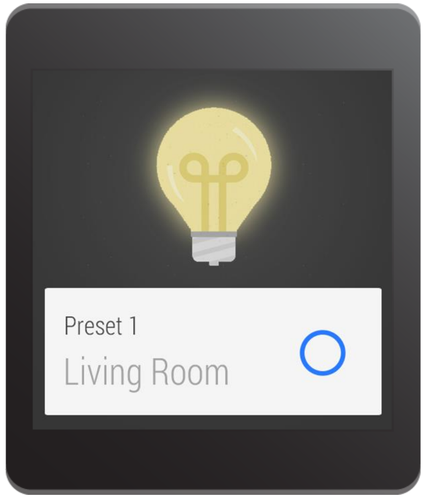
Intent Filter

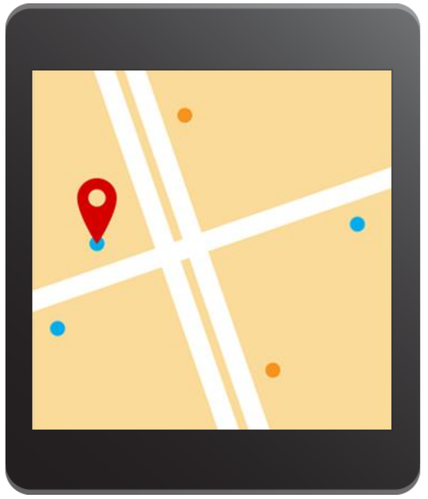
```
<service android:name=".MyListenerService" >
      <intent-filter>
    <action android:name="com.google.android.gms.wearable.BIND_LISTENER" />
  </intent-filter>
</service>
```

Send data

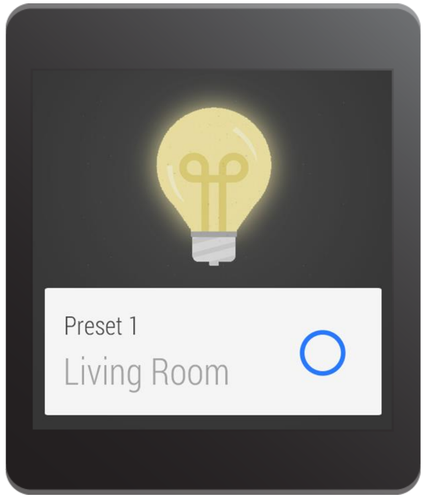
Custom UI

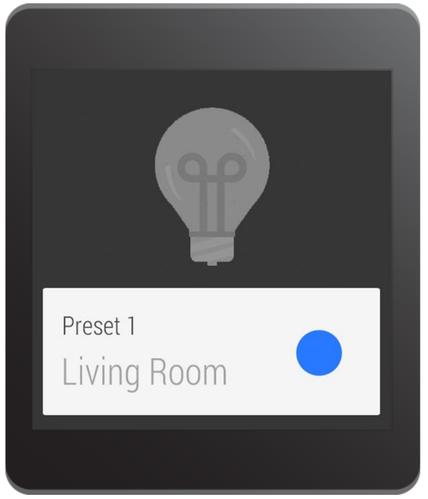
Voice Actions


Preset 1
Living Room

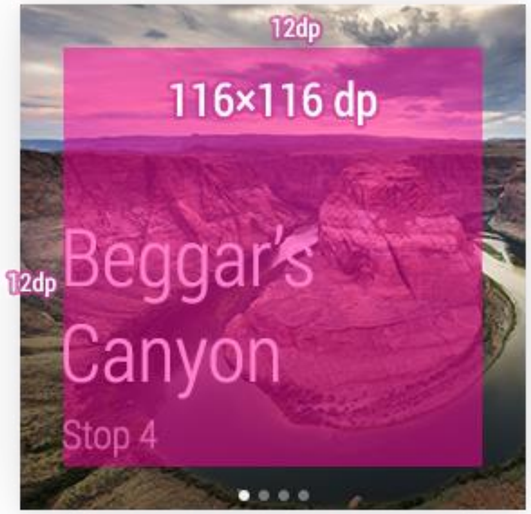


APK





#androidwear


12dp
116×116 dp
12dp
Beggar's
Canyon
Stop 4

26dp
108×108 dp
26dp
Beggar's
Canyon
Stop 4

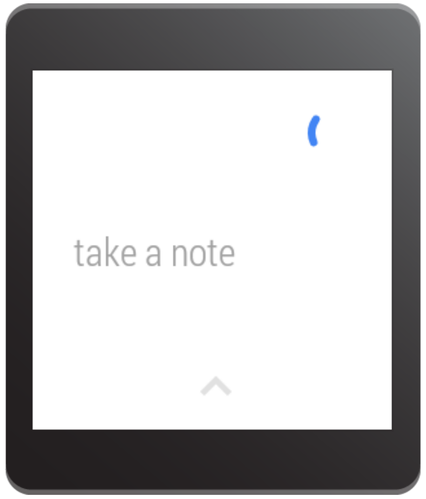
APK

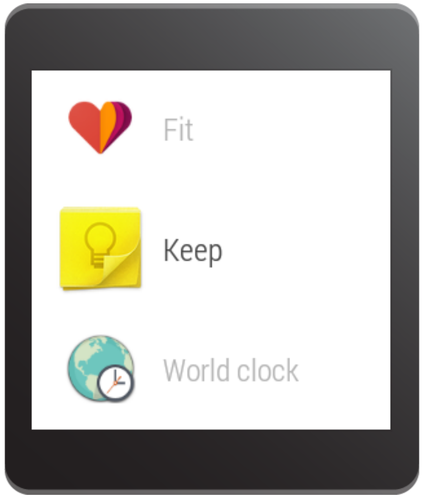
- BoxInsetLayout
- Card Fragment
- CircledImageView
- ConfirmationActivity
- DismissOverlayView
- GridViewPager
- GridPagerAdapter
- FragmentGridPagerAdapter
- WatchViewStub

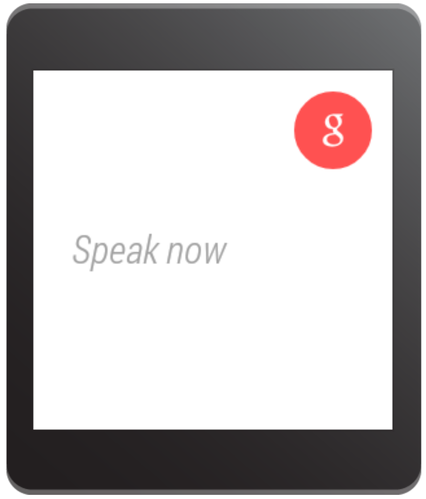
Send data

Custom UI

Voice Actions


take a note


Fit
Keep
World clock


Speak now

APK

System provided voice action

```
<activity android:name="MyNoteActivity">
    <intent-filter>
        <action android:name="android.intent.action.SEND" />
        <category android:name="com.google.android.voicesearch.SELF_NOTE" />
    </intent-filter>
</activity>
```

- Call a car/taxi
- Take a note
- Set alarm
- Set timer
- Start/Stop a bike ride
- Start/Stop a run
- Start/Stop a workout
- Show heart rate
- Show step count

App provided voice action

```
<activity android:name="StartRunActivity" android:label="MyRunningApp">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>
```

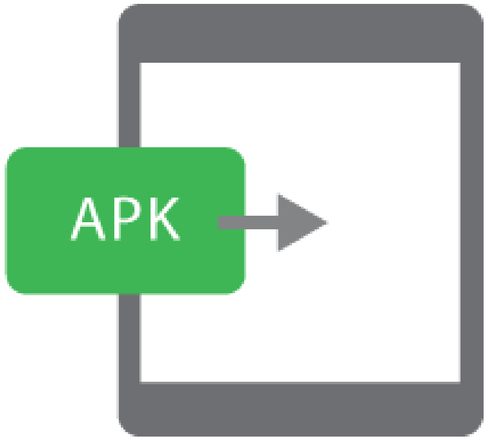
Speech Recognizer

```
private void displaySpeechRecognizer() {
        Intent intent = new Intent(RecognizerIntent.ACTION_RECOGNIZE_SPEECH);
        intent.putExtra(RecognizerIntent.EXTRA_LANGUAGE_MODEL,

        RecognizerIntent.LANGUAGE_MODEL_FREE_FORM);

        startActivityForResult(intent, SPEECH_REQUEST_CODE);
}
```

Notifications



Apps

What’s next?

Getting Started with Android Wear
developer.android.com/wear

Design for Android Wear
developer.android.com/design/wear

#androidwear

android wear

android wear