

Google I/O 2014 Summary

[Overall themes](#)

[Devices](#)

[Material Design](#)

[Android - the “L” release](#)

[Android Wear](#)

[Android Auto](#)

[Android TV](#)

[Chromecast / Google Cast](#)

[Google Cloud](#)

[Cardboard](#)

[Google Fit](#)

[ChromeOS](#)

[Google API Announcements](#)

[Overview Articles](#)

[Resources](#)

[Things expected, but not present at #io14](#)

Overall themes

- Integration across all devices -- especially with notifications and data synchronization.
- Common UI design
 - Material [Design](#) - [Spec Android Polymer](#)
- Android apps to run on Chrome, Chrome apps on Android and iOS.
- Platforms are more an issue of look and feel + facilities, not underlying OS.

Devices

- [Android One](#) - sub-\$100 phone reference platform. Sundar Pichai is actively using one as his phone.
- [Nest](#) and [LIFX](#)

Material Design

- [Polymer](#) has developer preview of “Paper” components.
- Android will switch over with “L” release.
- [Android Authority MD overview](#).
 - It is interesting that AA approached this from the standpoint of Polymer, not Android.
- [Chrome Story's collection of ChromeOS prototype screenshots](#).
- [#io14 videos related to design](#).

- [Designer reaction to MD.](#)
- z-layer for all pixels; realtime shadows
- activity transition animations with shared hero elements
-

Android - the “L” release

- Occurs later this year.
- Project Volta -- improve battery life.
 - JobScheduler
- ART becomes the only runtime.
- 64-bit support on ARM, Intel and MIPS.
- Extension Pack giving sophisticated 3D graphics.
- Many Android Studio improvements, including consolidation of Google TV/Android Wear/Android and Glass.
- Changes in Notifications.
- Android for Work
 - Separation of Work and Personal apps and data.
 - Enterprise management tools.
 - Features from Samsung KNOX.
- RecyclerView - an improved ListView... available now (not “L” dependent).
- Many, many things in Android... see [this video](#), also this [article](#).

Android Wear

The following items are from the keynote:

- Notifications automatically from phone to wrist.
- Voice replies
- Notification pages.
- Stack multiple notifications.
- Google Maps support.
- Full AW SDK available today.
- Custom UI
- Sensors API
- Voice Actions
- Send Data
- Payment via Watch
- Showing a recipe app on phone/wrist.
- All watches shown today are water resistant (safe for cooking).
- "Ok, Google call me a car"... uses "Lyft" app.
- LG “G” Watch and Samsung Gear Live now available. Moto 360 later this summer.
- [Asus to release \\$99-\\$149 Android Wear smartwatch this fall.](#)

Android Auto

- Fully voice controlled.
- Texting via voice.
- Google Now-like facilities.
- [Android Authority demo of Android Auto.](#)

Android TV

- Leanback support library to build android apps for more simple 10 feet design
- Apparently voice command of your TV.
- How does this affect the ChromeCast? Not clear... Google TV seems to be a Chromecast+. Will support games and use in gaming consoles.
- Android devices can mirror to Chromecast.
- Google Knowledge Graph for recommendations

Chromecast / Google Cast

- The Chromecast will soon get changeable backdrops including access to G+ photos.
- Chromecast can be casted to by devices not on the same Wifi.
 - [Uses ultrasonic pairing.](#)
 - <http://smus.com/ultrasonic-networking/>
- Mirror your phone on TV / Android devices can mirror to Chromecast.

Google Cloud

- Cloud Save
- Cloud Monitoring
- Cloud Trace
- Cloud Debugger
- [Overview article](#)

Cardboard

- VR with existing software and hardware
- <http://g.co/cardboard>

Google Fit

- Mentioned, in conjunction with Wear, during the keynote
- There was a booth to talk to some of the product managers
- <https://developers.google.com/fit/>
- Fall 2014

ChromeOS

- Context-aware unlocking (such as with your phone or watch or presence of a specific network).
- Android Apps will be coming to Chrome. Details are not yet clear.
- Android “L” notifications and calls/texts will be integrated with Chrome.
- Chrome Apps now have rich notification support.
- app_shell -- a lightweight way of running Chrome Apps for embedded applications. Also is a more secure way to run in a Kiosk.
- Support for managed in-app payments.
- Free-trials support.
- Unified GCM now in stable channel. (Full interop with Android GCM.)
- Media Gallery API improvements.
- Overhauled Bluetooth/socket/serial/USB support.
- Sync Filesystem now has directory support.
- Can talk directly to native apps via Native Messaging.
- Chrome Apps & Extensions Developer Tool (Get it from Chrome Web Store.)
- USB HID & Bluetooth low energy support -- now in dev channel.
- The Service Worker web proposal comes from Chrome App “event pages”.
- [Great overview video](#).

Google API Announcements

- [New Gmail API](#) [video](#)
- Native Microsoft editing coming to Google Drive. (Word, Excel and Powerpoint)
- New API Google Fit -- aggregation of fitness info.
- Google Play Games.
 - Users can be billed through their carrier.
 - Ability to save games to profile.
- Service Worker. Proposed standard. A mechanism for sophisticated loading, caching, data synchronisation and transformation of web apps. [video](#) [IsServiceWorkerReady?](#) [githubdemos](#)

Overview Articles

- [What Developers Need To Know About Android L](#)
- [Everything Google announced at Google I/O 2014 in one handy list](#)
- Android got most of the love at #io14, but [Chrome wasn't left out](#)
- [Android L Developer Preview – first look](#)
- [Google I/O 2014 Roundup](#), Sitepoint

Resources

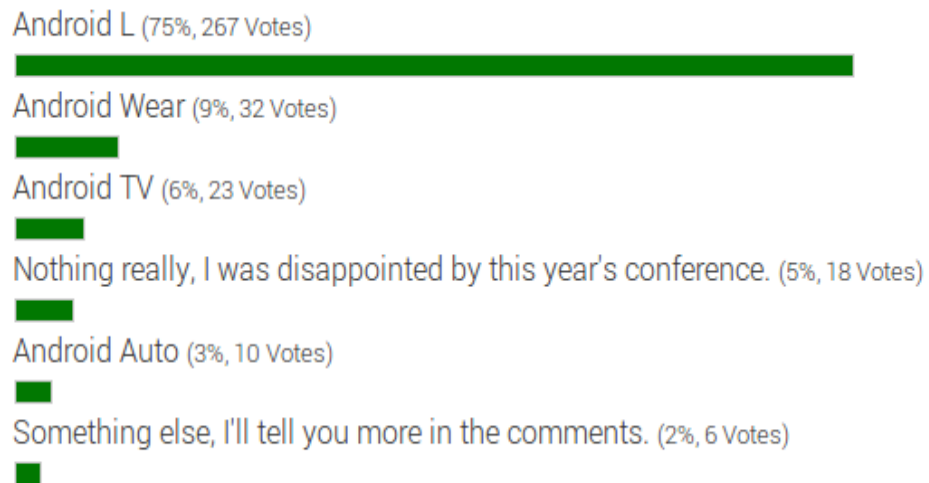
- [Google I/O 2014 Videos](#)
- [Android L Developer Preview](#)
- [Polymer](#)

Things expected, but not present at #io14

- Hangout/Google Voice integration
- [The Elephants In The Google I/O Room: Glass And Plus](#)
- Android Silver vs Nexus
- Project Ara
 - see <https://www.youtube.com/watch?v=cV8JDSO1NS8>
- Android Authority's [take on what was missing](#).
- [Gotta admit I'm pretty disappointed in Google IO 2014](#)
- [What impressed you the most about Google I/O 2014? Any disappointments?](#)
 - This article contained an interesting survey:

On the whole, Google I/O has left us with a lot to look forward to.

What Google I/O 2014 announcement are you most excited about?



Total Voters: **356**

- I am a little surprised that Android Wear was so low in the survey. It was heavily demoed. Are smartwatches going to flop? [They have so far... last quarter they sold 1/5th as well as Microsoft Surface Tablets did.]