Google 10 2014 Agile Retrospective



Google IO - Android One

- → Affordable (< \$100)</p>
- → Dual sim capabilities
- → 1GB memory
- → Quad core processor
- → At least 4" screen
- → Available in September
- → Updated to Android L

Google 10 - Material Design

- → Z Layer indexing
- → User touch splash response
- → Rich animated touch feedback
- → Updated system font Roboto
- → Optimised for all form factors
- → Seamless cross activity animation
- → Polymer for web based apps

Google IO - Android L

- → Material design baked in
- → Lock screen and heads up notifications
- → Personalised unlocking via Bluetooth
- → Android Runtime replaced Dalvik entirely
- → Project Volta for battery efficiency
- → Google Fit integration
- → Recent applications updated for Chrome

Google IO - Android Platform

androidauto





Google 10 - Google Glass

- → No new announcements during keynote
- → Emphasis on Wear

- → Released in the UK
- → Battery and memory improvements
- → Recent updates to ToS indicate imminent release
- → Contacts display improved all contacts from only 10

Google Glass - Social Acceptance

- → Banned in some bars, restaurants
- → Issues with driving, prescription lenses
- → Makes many people feel uncomfortable
- → Many people don't understand them
- → Privacy concerns
- → Not fashionable ... yet?

Google Glass - Interaction

- → Glass runs with no UI
 - Eliminate interfaces to embrace process
- → Contextually aware
 - Applications must be aware of surroundings
- → Content is secondary to user actions
 - Cannot distract the user

Great talk from Dave Scolombe at London Droidcon 2013 on #NoUl http://skillsmatter.com/skillscasts/4831-google-glass-and-noui

Google Glass - Where to start?

- → Google Glass GDK (Glass Development Kit)
 - Android SDK Manager
 - Glass Development Kit Preview
- → Google Mirror API
 - ◆ RESTful API (Java | PHP | Python | .NET | Ruby)
 - Authenticate > Create Card > Insert to timeline
- → No Emulator!
 - Third party options via handsets

Google Glass - GDK Design Patterns

- → Ongoing Task
 - Live Cards
 - Low Frequency Rendering
 - High Frequency Rendering

- → Immersion Mode
 - Outside timeline
 - Standard Android activity

Glass & Wear - Project Structure

- → Android 4.4W API v19
- → Few native UI elements available
- → Activities used for immersion views
- → Themes not used or used sparingly
- → Most of the work done by services
- → Presentation logic with live cards

Glass & Wear - Comparison

- → Google Glass
 - Priority to native applications
 - Alternative project deployment with Mirror API
 - No integration with NotificationCompat yet

- → Android Wear
 - ◆ Full NotificationCompat integration
 - Optional native development

Google Glass - Case Study: Speech

- → Speech Recognition Service
- → Live card with remotely inflated layout
- → Frequency of updating layout
- → Accuracy of recognition
- → Work provided by service
- → Menu as an activity instead of UI component

Glass & Wear - What have I learned?

- → Importance of contextual awareness
- → NoUI and voice interaction
- → Empowerment from my phone
- → Hardware limitations of wearables
- → Social acceptable of Glass vs Wear
- → Limitations of Glass vs Wear