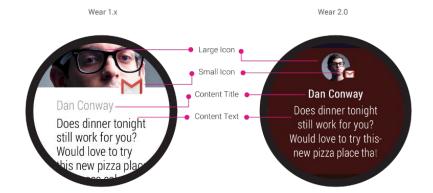
ANDROID WEAR 2.0 & WATCHFACES

NEW FEATURES IN AW 2.0

- Different navigation, digital crown support
- Google assistant
- Different notification style, dark UI
- LTE, NFC, GPS support
- Better and more powerful standalone apps
- Keyboard input, better messaging
- Better capabilities with iPhones



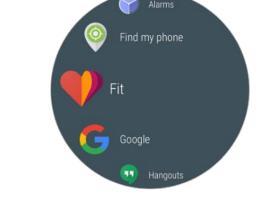
NEW UI ELEMENTS, API

WearableRecyclerView

- For longer lists
- Customizable
- Fits square and circle watches

New input methods

- You can create custom input method
- Not supported when paired with iPhone







NEW UI ELEMENTS, API

NavigationDrawer

- Used for navigation in more complex apps
- Equivalent of navigation drawer on phones
- Pretty customizable

ActionDrawer

- Shown when list is scrolled to top or bottom
- Equivalent of action bar or overflow menu
- Both need WearableDrawerLayout as root layout



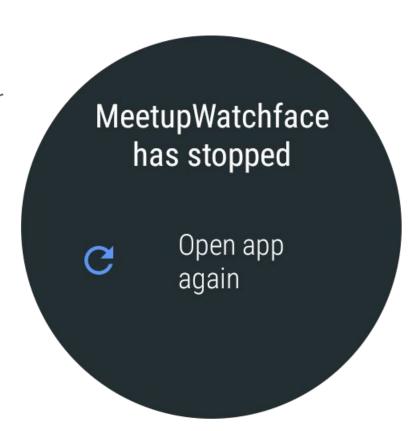
nan with a huge square dog You So clever Sandra I know You Hot dogs rock Sandra No doubt about it

REQUIRED CHANGES

- minSdkVersion 23+ & runtime permissions model.
- <uses-feature android:name="android.hardware.type.watch"/> in manifest
- <meta-data android:name="com.google.android.wearable.standalone"
 android:value="true"/> so it can run when paired with iPhones too
- Upload your APKs via multi-APK using the Play Developer Console.

EXCEPTION WEAR

- Supports all crash logging services
- https://github.com/tajchert/ExceptionWear



WATCHFACES

- Easy Android studio can setup basic watchface project
- Contains Engine and its Handler for time ticks
- Custom update (render) frequency when in ambient mode
- Settings activity on watch
- Mobile companion app in different module with same package name
- Watchface can communicate with mobile via WearableListenerService and wearable DataApi

WATCHFACE COMPLICATIONS

- Provides additional information
- Third party data providers modularity
- Complication slots with specific types
- SHORT_TEXT, ICON, RANGED_VALUE, LONG_TEXT,
 SMALL_IMAGE, LARGE_IMAGE
- Each have mandatory and optional fields
- Watchface responsible for data rendering



Demo

BATTERY LEVEL WATCHFACE



USEFUL LINKS

- https://codelabs.developers.google.com/codelabs/adding-complications-to-yourandroid-wear-watch-face/#0
- https://codelabs.developers.google.com/codelabs/data-providers/
- https://developer.android.com/distribute/essentials/quality/wear.html
- https://developer.android.com/wear/preview/features/ui-nav-actions.html
- https://developer.android.com/wear/preview/features/complications.html
- https://github.com/tajchert/ExceptionWear
- https://github.com/Komoi/DemoWatchface

THANK YOU

Ondrej Komarek

QUESTIONS