WatchKit Intro by Example

Michael Bischof - CocoaHeads Aachen - 30.04.2015
Outline

• What does WatchKit offer?
• App Extensions
• WatchKit App architecture
• WatchKit Essentials
• Demo
What does WatchKit offer?

- Get your apps ready for Apple Watch!
- Create:
  - WatchKit App
  - Glance
  - Notification (short / long)
App Extensions

- Introduced in iOS 8
- Interact with App
- Only active when in use
App Extensions

Diagram:
- App extension
- Request
- Response
- Host app
- Containing app
App Extensions
App Extension Examples
WatchKit App Architecture
WatchKit App Architecture
Communication between WatchKit and iPhone app

- shared app data accessible using app groups
- openParentApplication:reply:
- handleWatchKitExtensionRequest
- Notifications
WatchKit App

Page-Based

Hierarchical
WatchKit interaction

• interaction limited
  • button
  • table
  • switch
  • slider
  • dictation
  • Force Touch
Glance

- User can not interact with Glance
- Touching a glance opens its WatchKit App
Notification

• Short

• Long
  • Static
  • Dynamic
Short

- Can not be manipulated
- Shows app icon and brief description of notification
Long

- Static
  - Default notification
  - Works like normal iPhone notification
  - iPhone decides where to show notification
  - ActionButtons added using UIUserNotificationCenter
  - Only images out of bundle available
Long

• Dynamic

• Ability to update UI with data not coming from the notification

• Get data from host app (Example: pictures)

• Try to avoid dynamic notifications

  • iPhone shows static if Apple Watch power is low
Invitation
Housewarming Party and...
From
Hugo Verweij

When
Saturday, Jan. 17
3PM – 4PM

Where
Our new place!
180 Montgomery
San Francisco CA

Accept
Maybe
Decline
Dismiss
ActionButtons

• Are handled using handleActionWithIdentifier:

• Actions can be processed in the foreground or the background

• Foreground  →  WatchKit App

• Background   →  iPhone App
Summary

• WatchKit App is only an extension (for now)
• does not work without iPhone
• interaction limited
• no access to sensors
Hope

The epicenter of change.

WWDC15

Apple Worldwide Developers Conference. June 8-12, San Francisco.
Apple Watch Example App
Questions?