WatchKit Intro by Example

Michael Bischof - CocoaHeads Aachen - 30.04.2015

Outline

- What does WatchKit offer?

- App Extensions

- WatchKit App architecture

- WatchKit Essentials
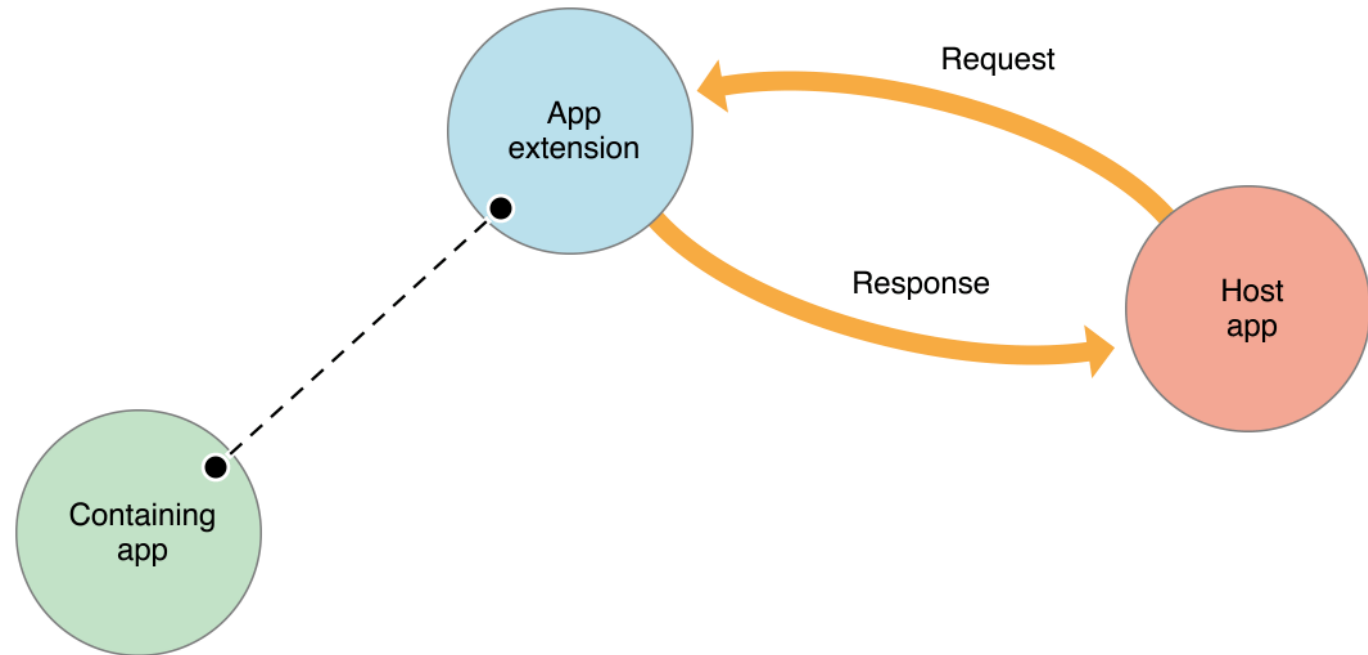
- Demo

What does WatchKit offer?

- Get your apps ready for Apple Watch!

- Create:

  - WatchKit App

  - Glance
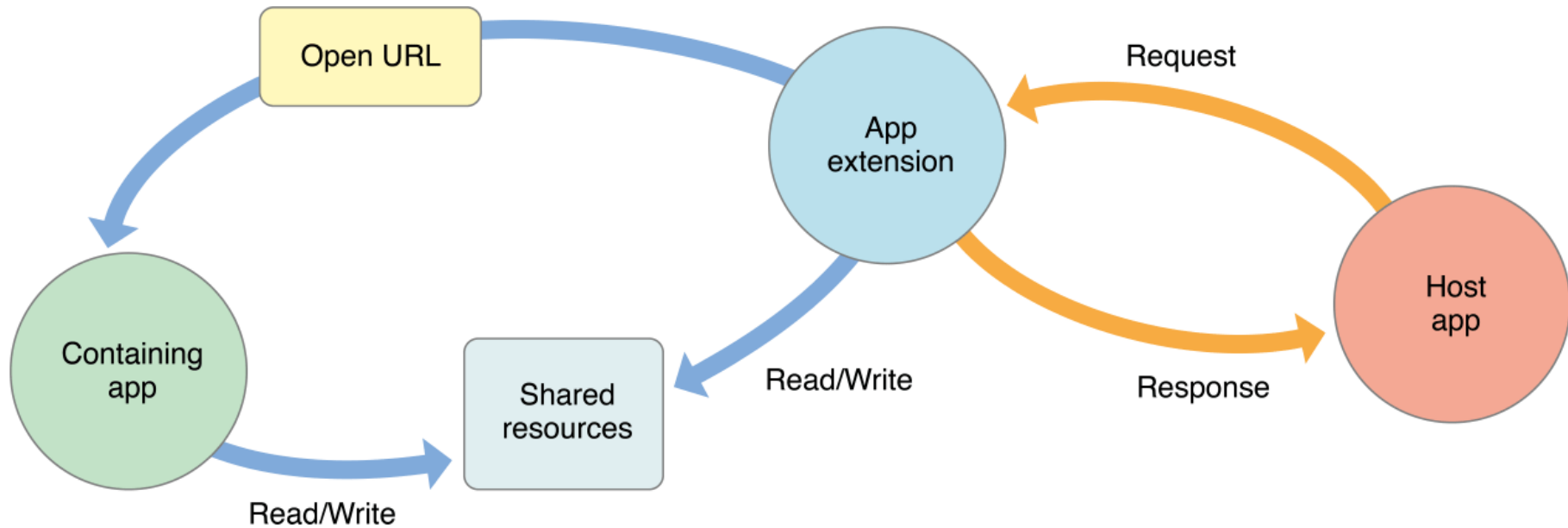
  - Notification (short / long)

App Extensions

- Introduced in iOS 8

- Interact with App
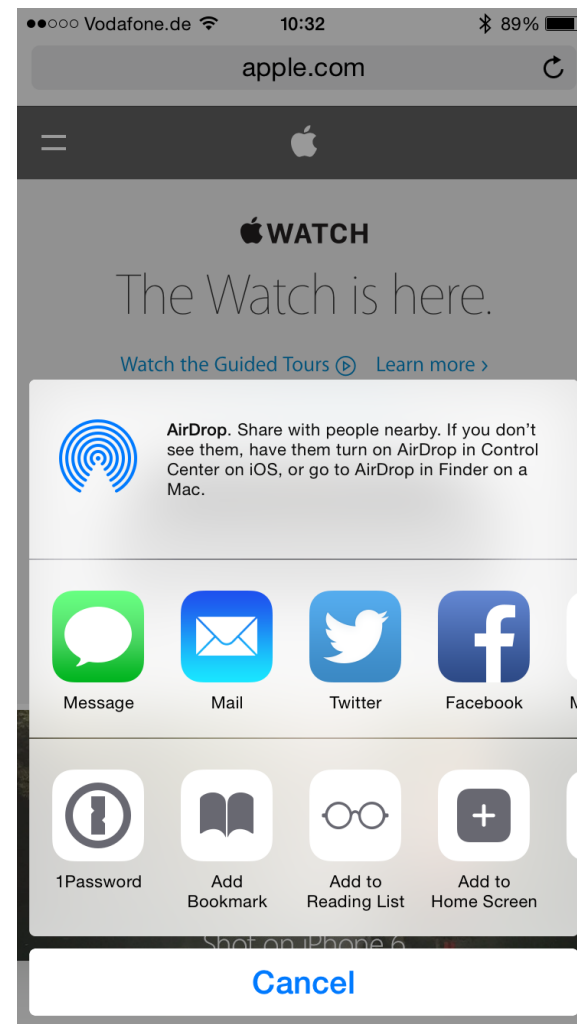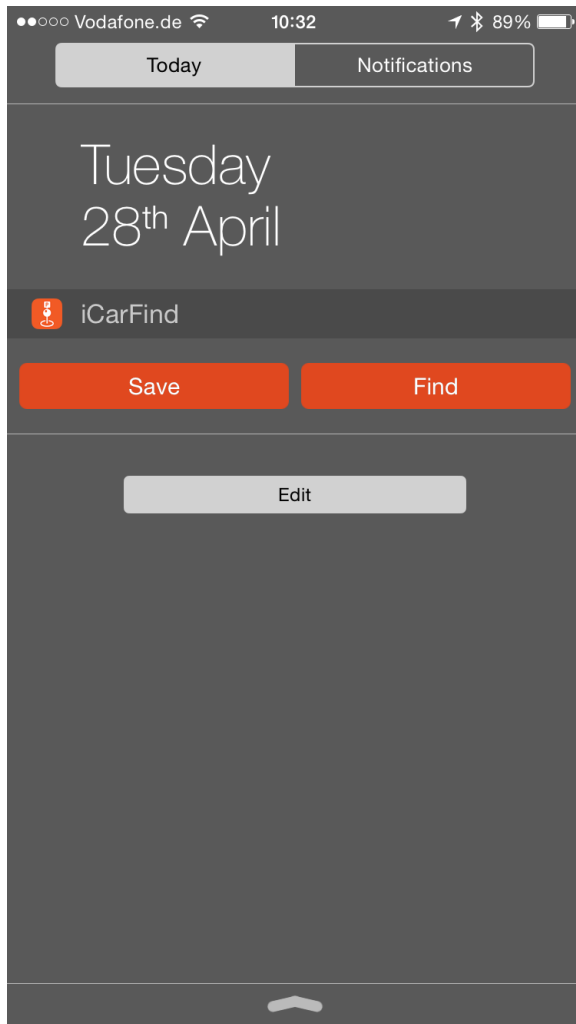
- Only active when in use
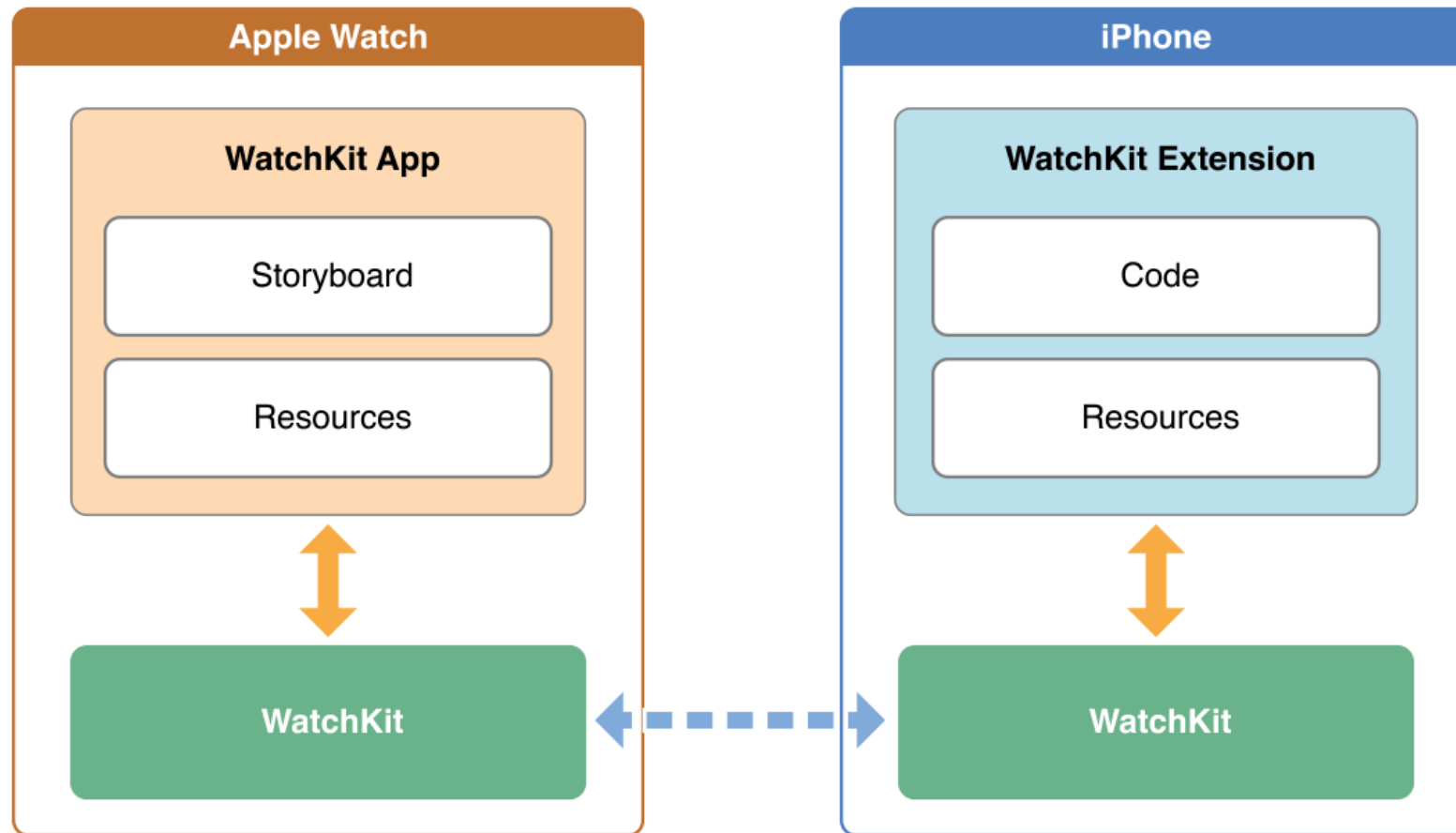
App Extensions

App Extensions

App Extension Examples

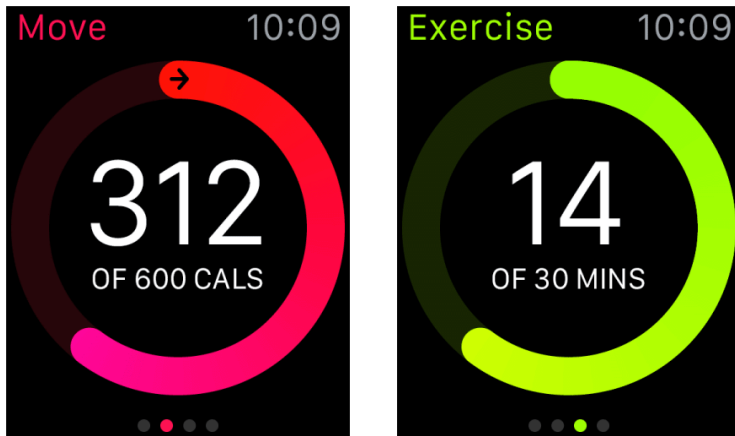# WatchKit App Architecture

WatchKit App Architecture

Communication between WatchKit and iPhone app

- shared app data accessible using app groups

- openParentApplication:reply:

- handleWatchKitExtensionRequest
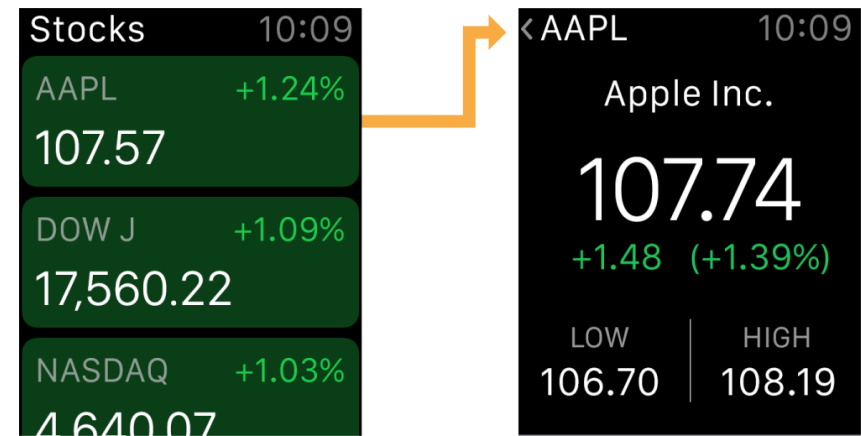
- Notifications

WatchKit Essentials

WatchKit App
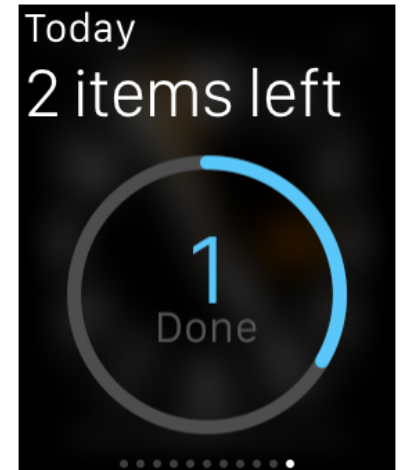
Page-Based

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 UIUserNotificationSettings

  - 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

Long

System-provided sash

App content

App-defined actions

Sat **17**	CALENDAR

10:09

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

System-provided Dismiss button
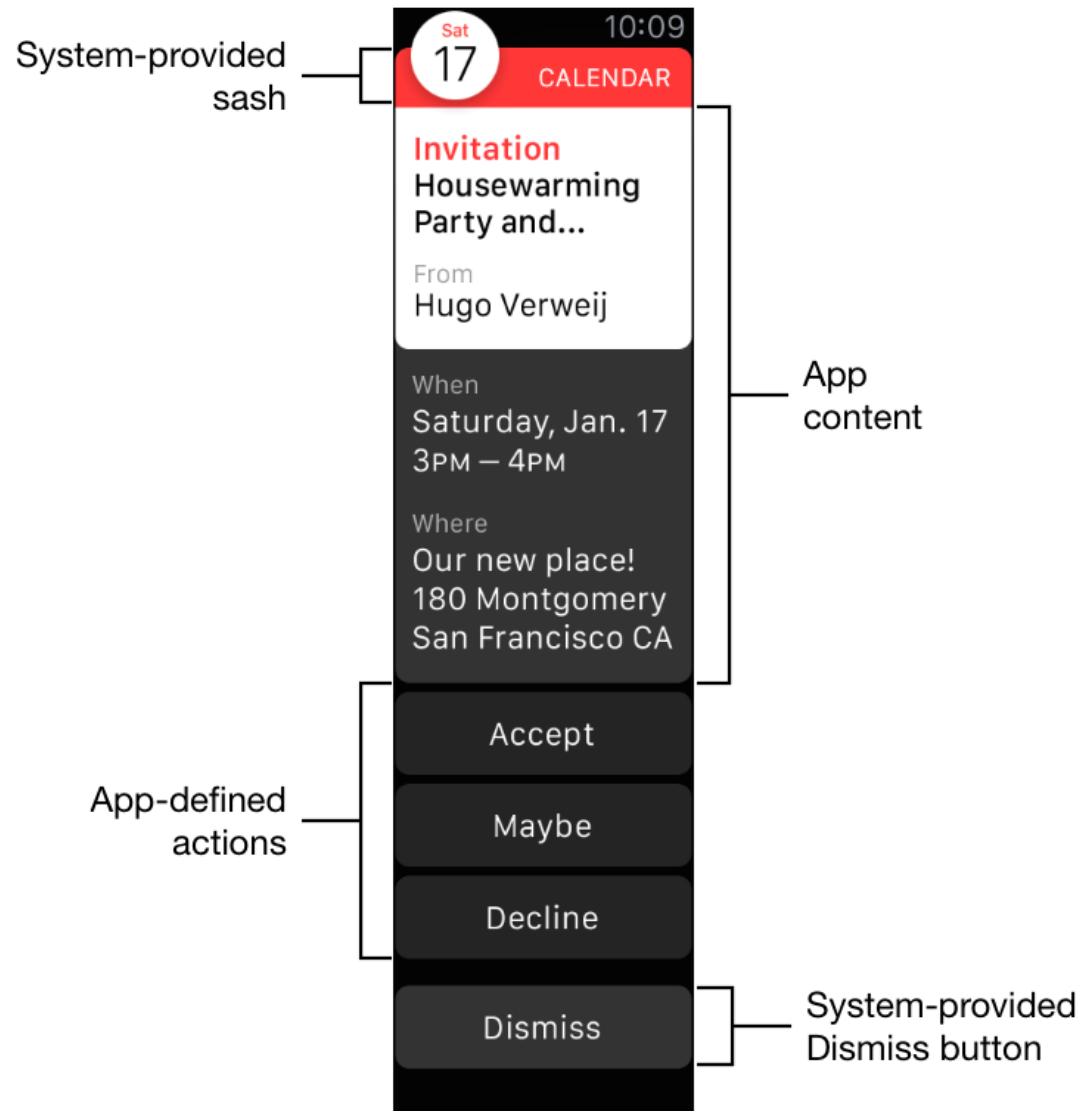
ActionButtons

- 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
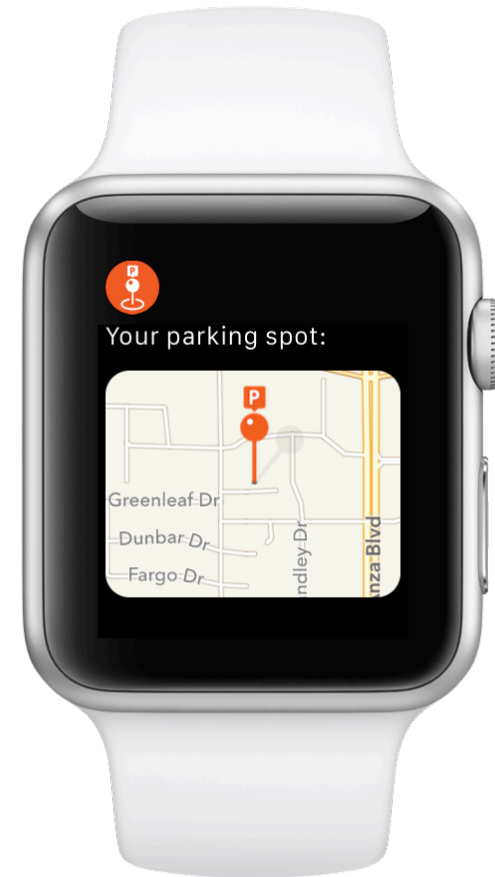
- interaction limited

- no access to sensors

Hope

The epicenter
of change.

WWDC15

Apple Worldwide Developers Conference. June 8-12, San Francisco.

Apple Watch Example App

iCarFind

Questions?