

Swift & iOS Workshop

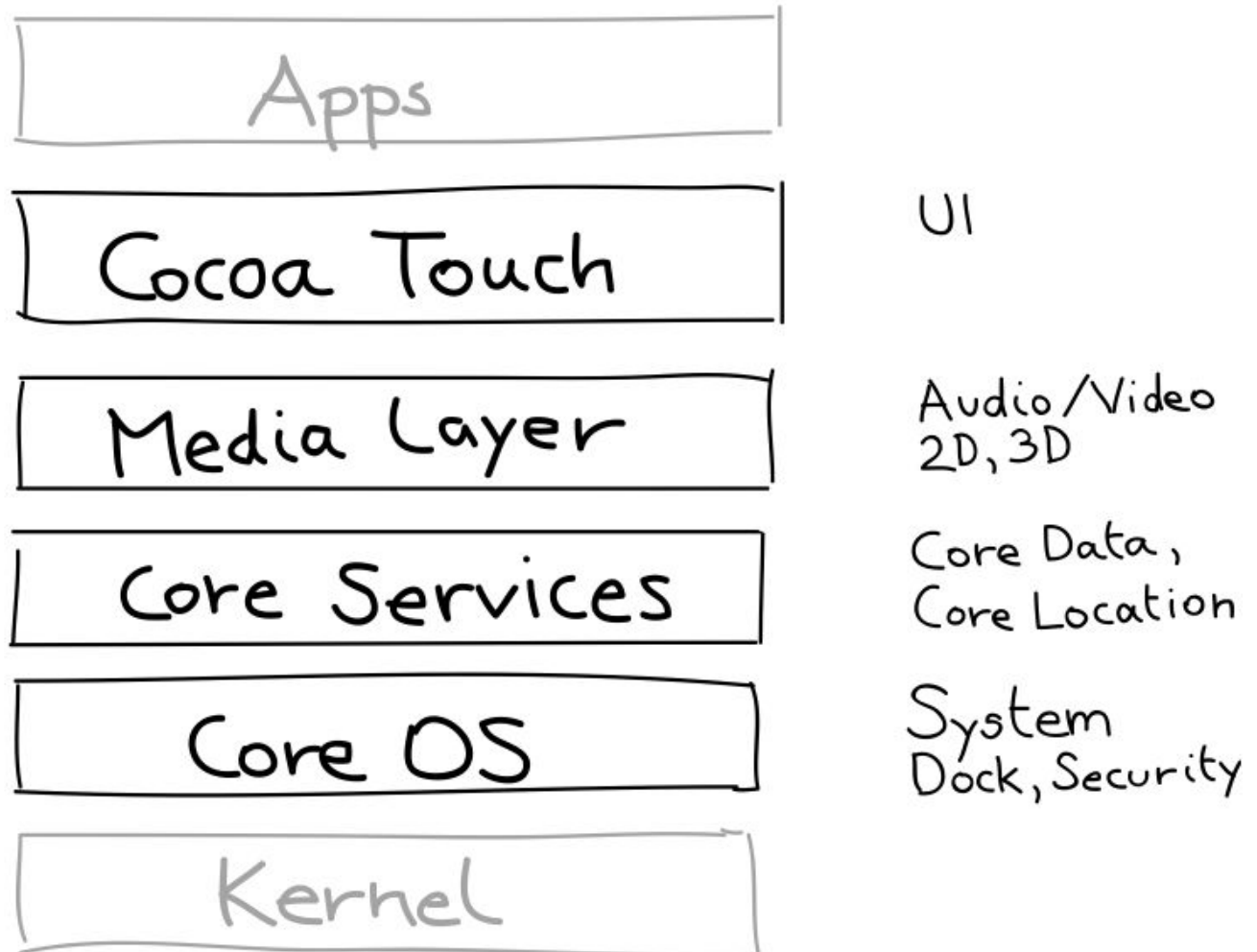
Frühling 2016

Patrick Jayet / @xrb

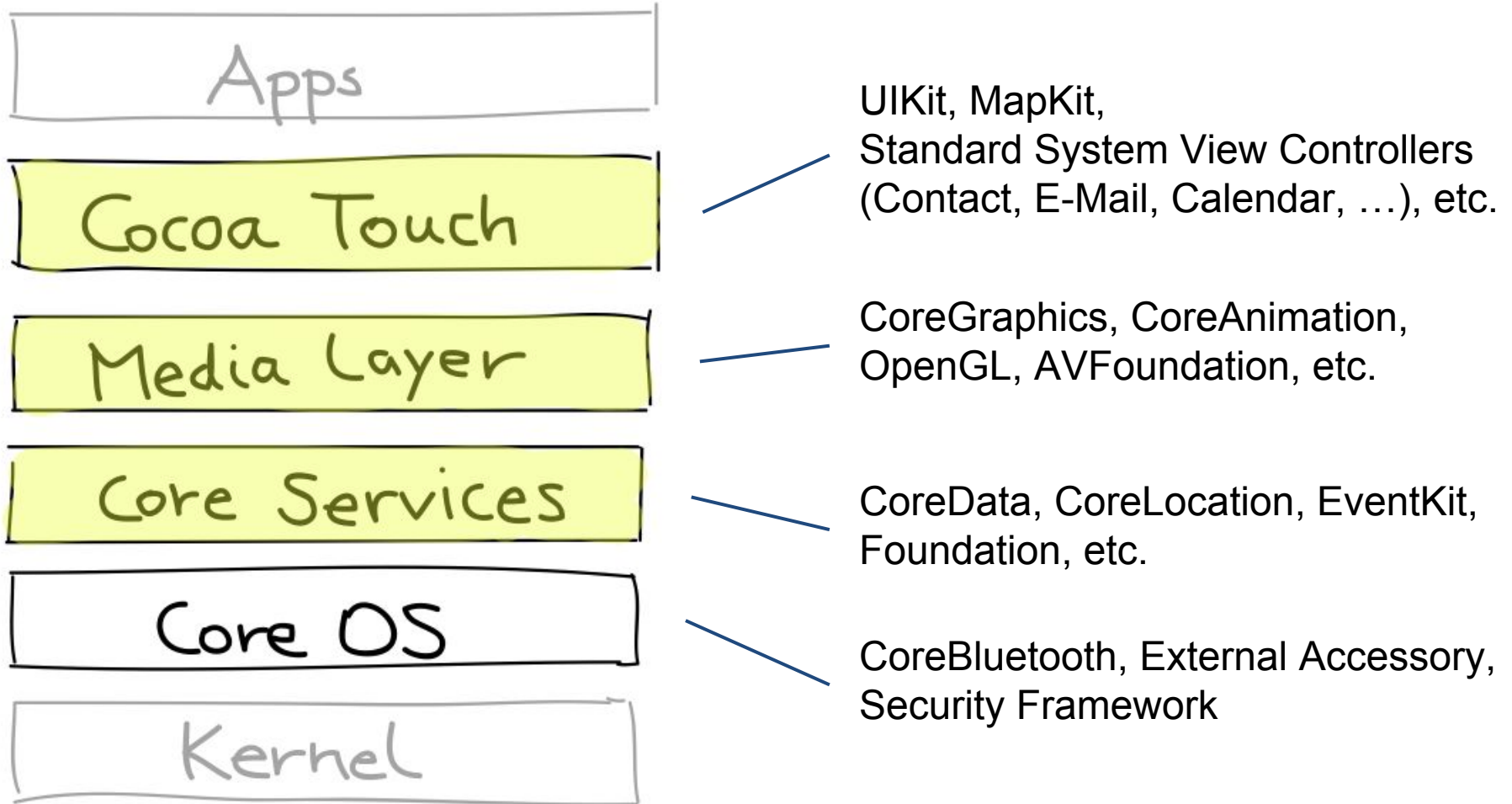
iOS & UIKit Outline

- iOS
 - Overview
- App lifecycle
- View hierarchy
- View controller lifecycle
- MVC
- Interface Builder
- Exercise

iOS – Layers



iOS Frameworks



iOS Frameworks

- Complete list of iOS frameworks

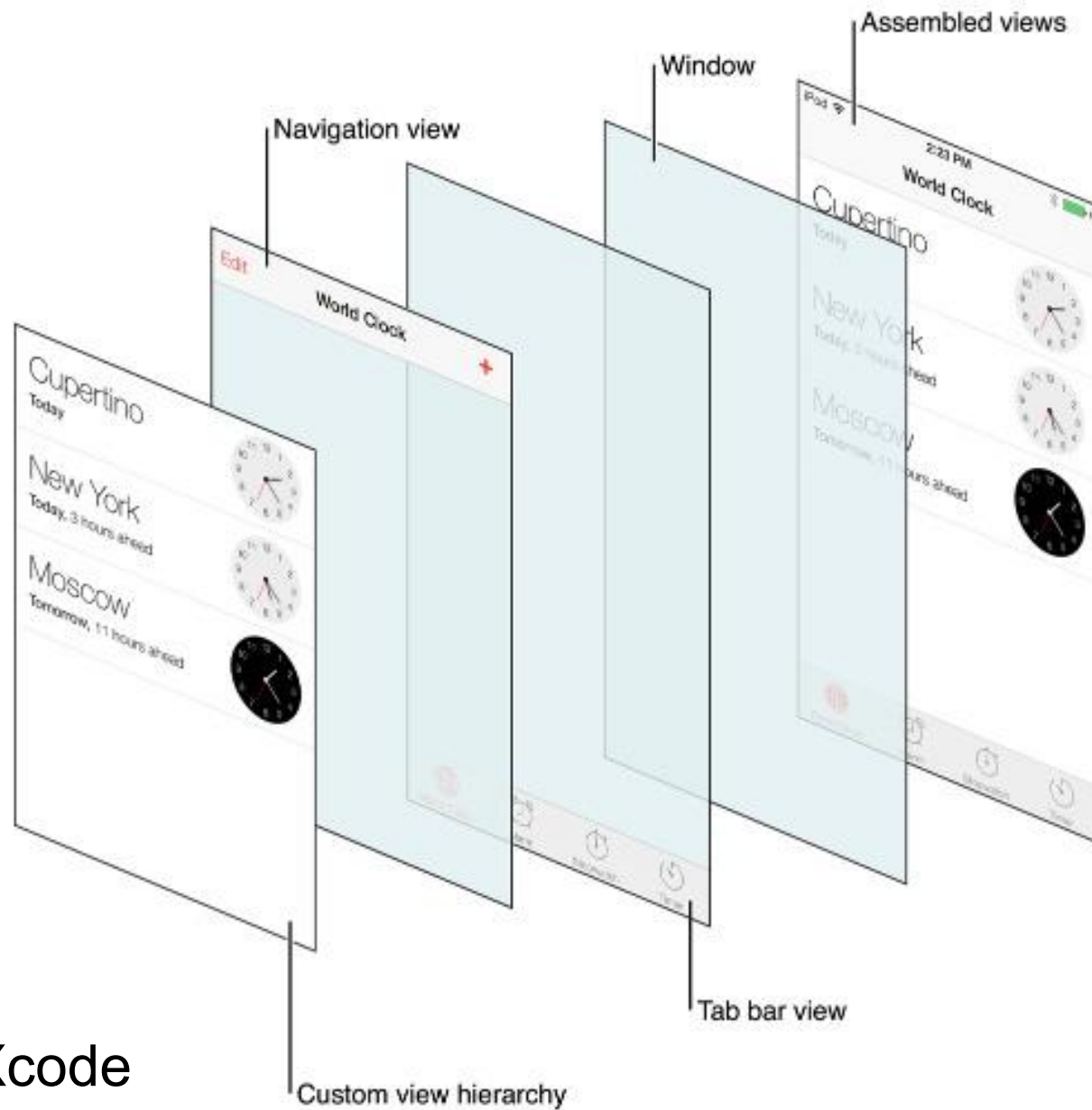
<http://goo.gl/Ju4e6c>

App Lifecycle

- Each app has exactly one App Delegate
- App Delegate receives notifications
 - Launch terminated
 - App will terminate
 - App goes to background / comes to foreground
 - App receives a notification
 - ...

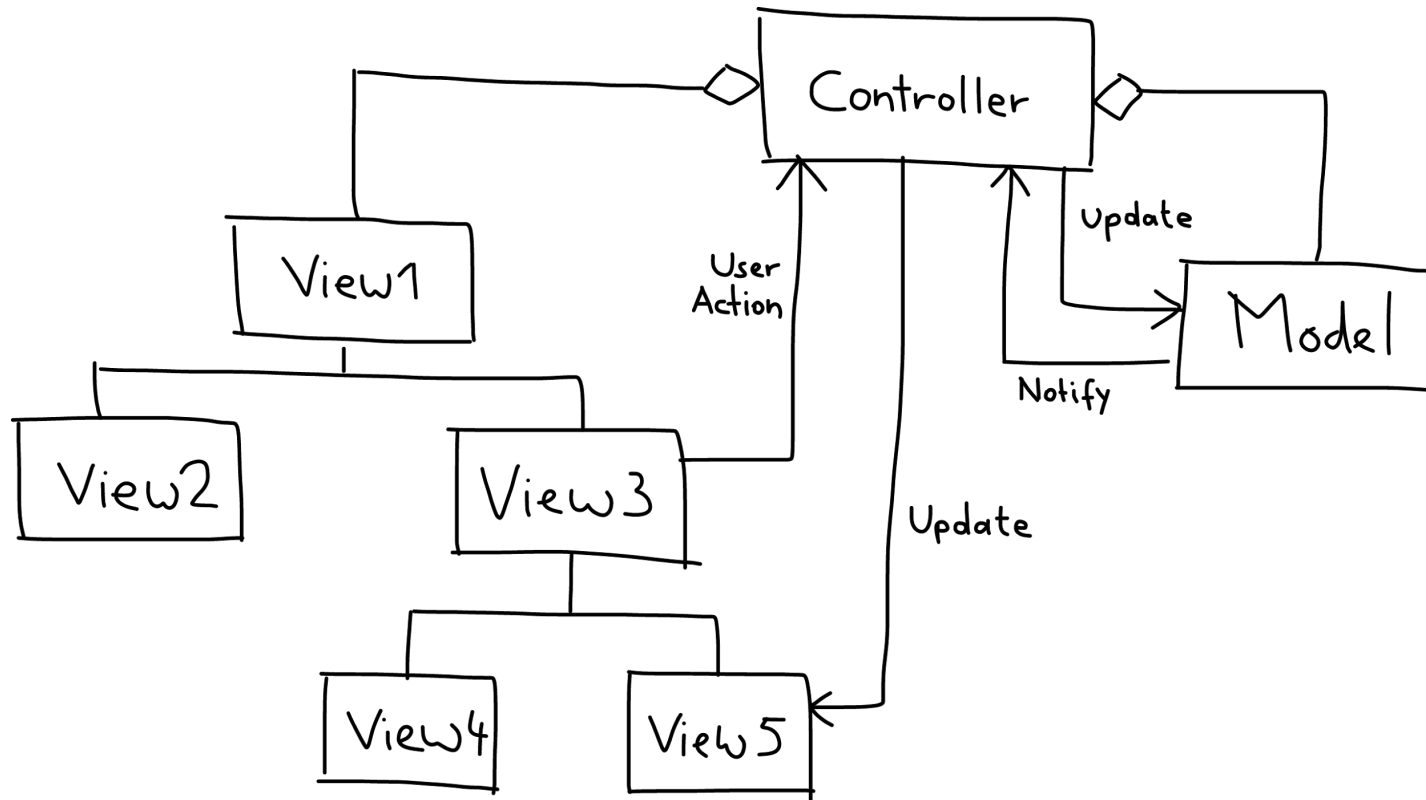
→ Show in Xcode

View Hierarchy



→ Show in Xcode

MVC



View Controller Lifecycle

- **Receives notifications for its main view**
 - **Loaded**
 - `viewDidLoad`
 - **Will appear, appeared**
 - `viewWillAppear`, `viewDidAppear`
 - **Will disappear, disappeared**
 - `viewWillDisappear`, `viewDidDisappear`
 - **Will be deallocated**
 - `dealloc`

→ Show in Xcode

Interface Builder



- NextStep (1986)
- Since Xcode 4: part of the IDE
- Screen & storyboards

Interface Builder



- NextStep (1986)
 - Since Xcode 4: part of the IDE
 - Screen & storyboards
 - Link items in IB with code
 - Class
 - Outlet of a view
 - Callback method (user event)
- Show in Xcode

iOS & UIKit

- Exercise 3
 - Build a weather app

References

- UIKit User Interface Catalog <http://goo.gl/5Bkf6V>
- App iOS Programming Guide <http://goo.gl/wzyMTQ>
- Stanford University iOS/Swift: <http://cs193p.stanford.edu/>