

# Swift & iOS Workshop

## März 2015

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# iOS Workshop

16. März: Swift

Playgrounds

+ Übungen 1 & 2

30. März: iOS Teil 2

Präsentation

+ Übung 4: Wetter-App (2)

23. März: iOS & UIKit

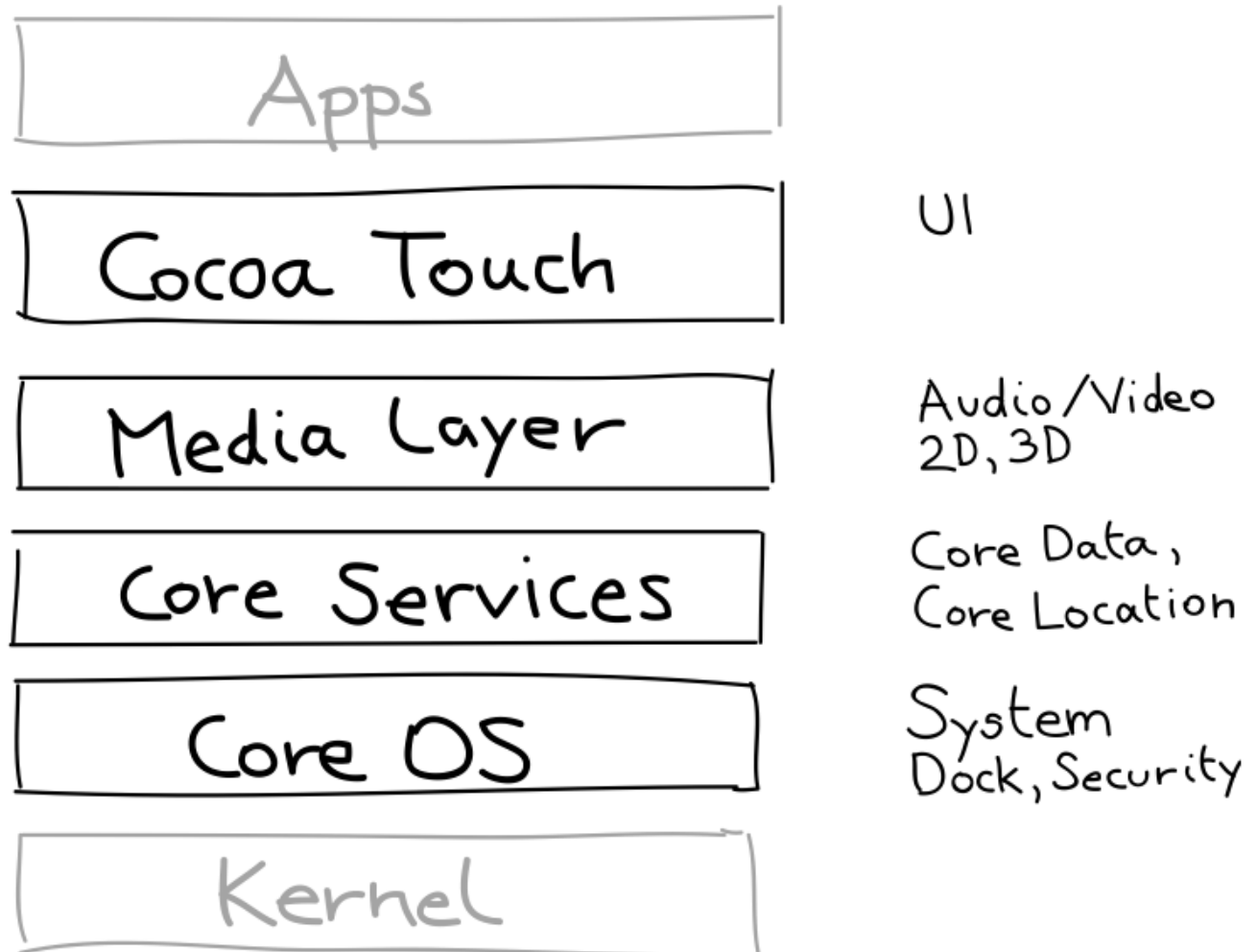
Präsentation

+ Übung 3: Wetter-App (1)

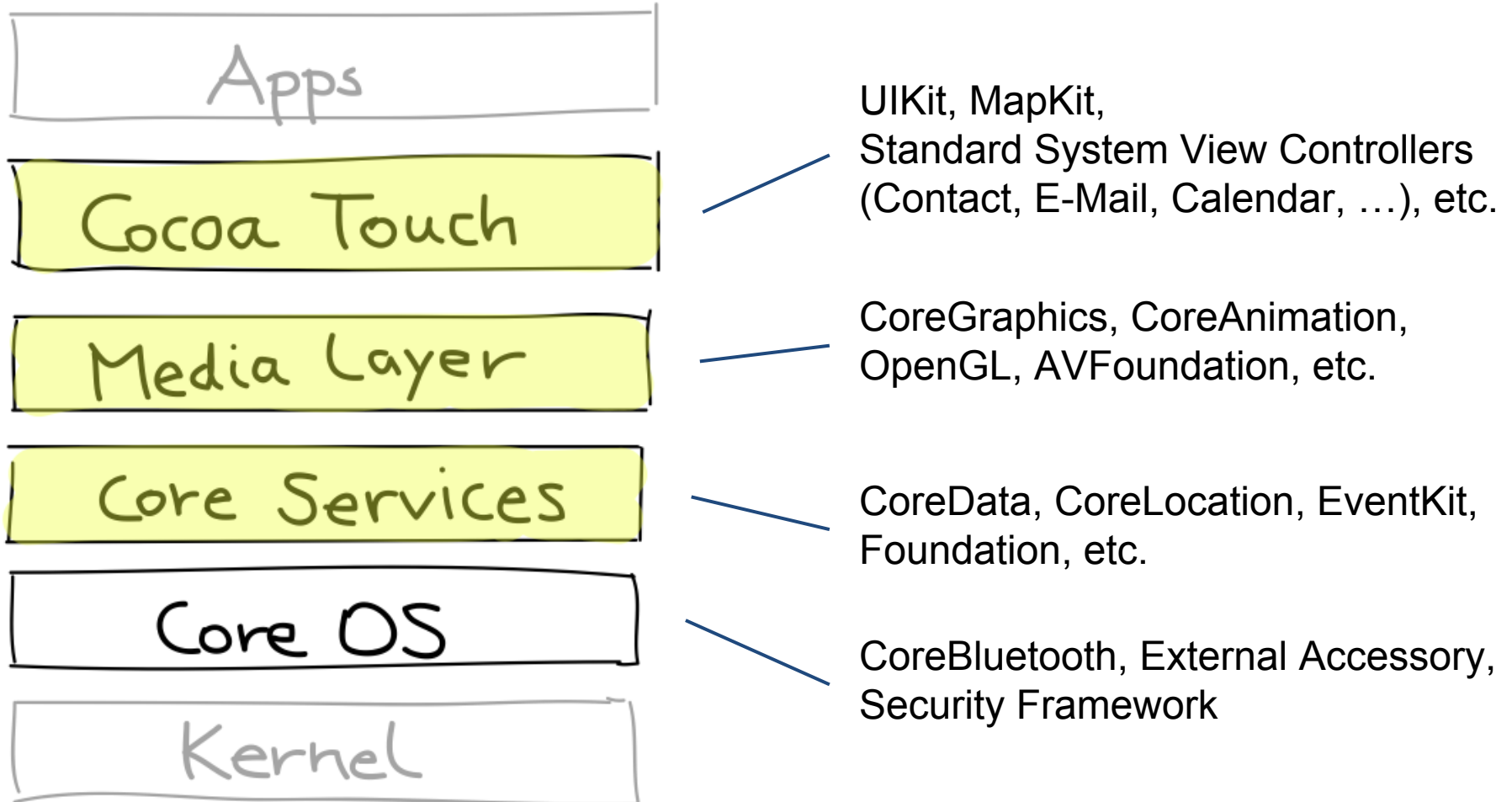
# iOS & UIKit Outline

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

# iOS – Layers



# iOS Frameworks



# iOS Frameworks

- Complete list of iOS frameworks

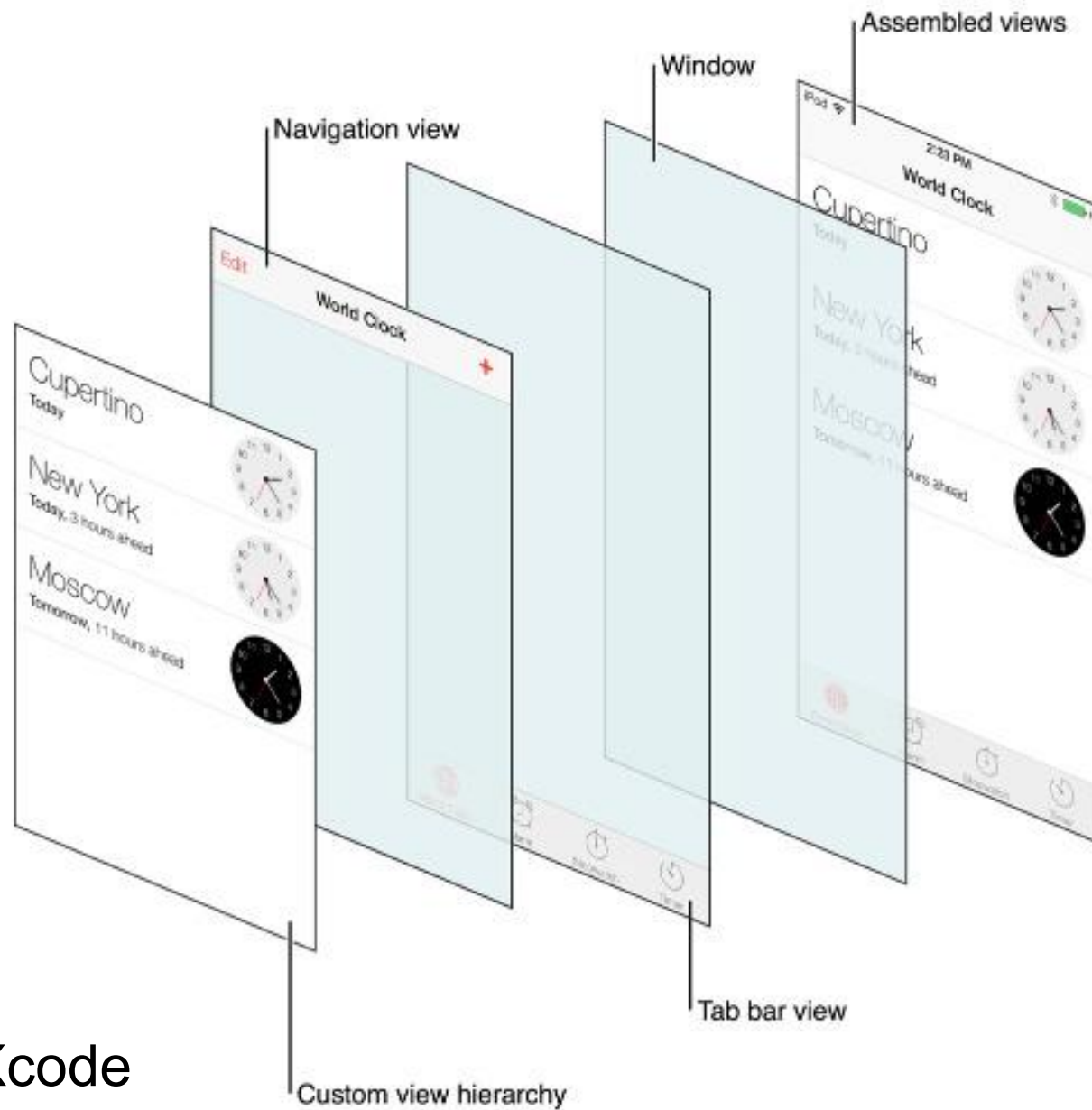
<http://goo.gl/Ju4e6c>

# 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

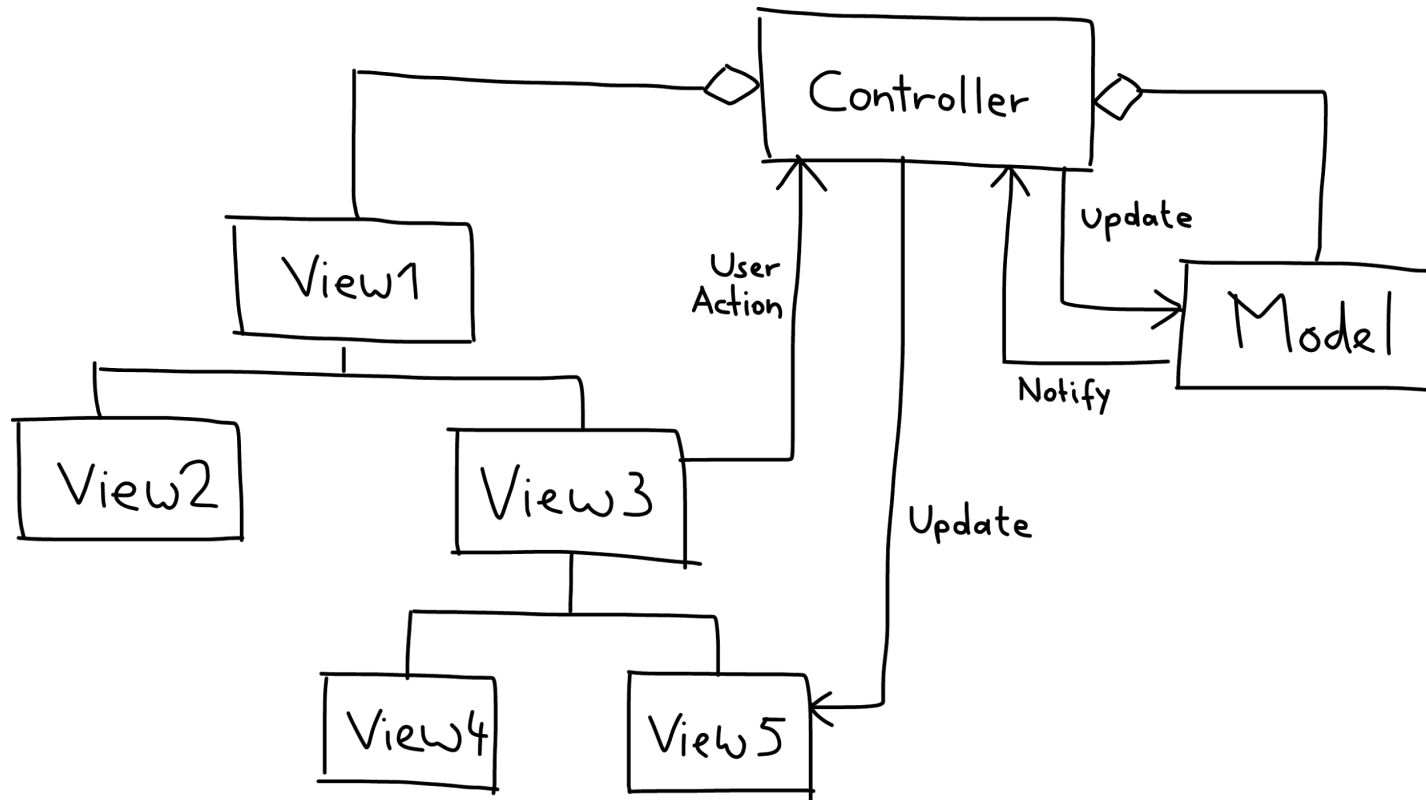
# View Hierarchy



→ 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

# Break

- 17:00 – 17:15

# 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/>