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<ul> <li>Xcode, Objective-C, Swift, Development life cycle</li> <li>UI development <ul> <li>Interface Builder</li> <li>Storyboard and segues</li> <li>Universal layout</li> </ul> </li> <li>Swift <ul> <li>Features</li> </ul> </li> <li>Some APIs <ul> <li>Core Data, Services, Camera</li> <li>MapKit Points of Interest and Directions</li> <li>TouchID</li> </ul> </li> </ul>	<ul> <li>Developing for iOS overview <ul> <li>Xcode, Objective-C, Swift, Development life cycle</li> </ul> </li> <li>UI development <ul> <li>Interface Builder</li> <li>Storyboard and segues</li> <li>Universal layout</li> </ul> </li> <li>Swift <ul> <li>Features</li> </ul> </li> <li>Some APIs <ul> <li>Core Data, Services, Camera</li> <li>MapKit Points of Interest and Directions</li> <li>TouchID</li> </ul> </li> </ul>	

### Developing for iOS

# **U2**U

- Only one active application
  - No real multi-tasking
  - Applications freeze when no longer active
  - Background processing possible
    With limits
  - Only one window
- Limited Access

- Sandbox store documents, preferences, data
- Networking limitations, no low-level access
- No root access







## Programming Languages

**U2**U

- Objective-C
  - Object-Oriented adaptation of C, based on SmallTalk
  - Old, from the 80's
  - Verbose syntax
  - Supports dynamic programming
  - Apple added a lot of improvements, "Modern Objective-C"
- Swift
  - Modern Object-Oriented programming language
  - Similar to Java and C#
  - Interoperable with Objective-C
  - Brand new, announced in 2014



## UI Development

- Interface Builder
- Segues
- M-V-C
- Auto layout













	Regular		Compact	
Regular		iPad Portrait Landscape		iPhone Portrait
Compact		?		iPhone Landscape





# Swift – some features Swift vs Objective-C Tuples and Enumerations Optionals (!) Functions Closures



















































### 13/10/14











