

iOS Dev Accelerator

Week 1 Day 5

- Week Wrap up
- Extra Credit features

Week 1 Patterns

- Crucial design patterns for iOS: Model View Controller, Delegation, Singletons, Source Control
- Crucial programming principles: Single Responsibility Principle, Lazy Loading
- Crucial programming concepts: Concurrency, Callbacks

Week 1 Frameworks

- Objective-C System frameworks: Foundation, UIKit
- Cocoa Frameworks: Social, Accounts

Week 1 UI Techniques

- Storyboards
- Nibs/Xibs
- Autolayout
- Auto sizing cells
- Labels, ImageViews, Buttons
- Table Views

Week 1 Important Classes

- NSOperationQueue
- UIViewController -> UINavigationController
- UIView -> UITableView

Week 1 Swift features

- First Class Structs
- **Optional Binding**
- Type methods
- **Closure Expressions**
- Switch statements

Extra Credit Features

Infinite scrolling

- As the user approaches the bottom of the list of tweets, fetch another batch of tweets to plug in to the bottom
- So the user should never be able to actually reach the bottom of the table view
- Check how close the `indexPath.row` is to the end of the tweets array in `cellForRow` or `willDisplayCell`
- Use the `max_id` parameter to tell twitter you want tweets older than a certain tweet id

Pull to refresh

- Implement pull to refresh, just like in the twitter app (and many other apps)
- Check out the UIRefreshControl class
- Use the since_id parameter to tell twitter you want tweets newer than a certain tweet's id

Image Cache

- Right now we are downloading duplicate images if any person has multiple tweets show up on ours our there timeline
- Implement an image cache that we can first see if an image lives there before downloading it from the internet
- A dictionary works great for this

Download larger images

- Our twitter images look pretty blurry right now
- Thats because they are super small, and then we have to scale them up for retina.
- You can ask twitter for larger images by modifying the profile image URL.