

# Final Lecture & Info Session

# Proxy For “Debugging” Network Connections

- BurpSuite is a free alternative to Charles that allows you to intercept all network traffic
- You can configure it for https, but we will just do it for http.
- Download it here: <https://portswigger.net/burp/download.html>
- Let's install and configure it.

- Select Proxy tab >> Intercept >> Intercept is Off
- Select Proxy tab >> Options >> Proxy Listeners >> Select >> Edit
- In Binding make the binding port whatever port you want to intercept: 8080 is the standard for http
- Also select All Interfaces
- Go to your network settings on your Mac and get the IP Address of your wifi network
- Go to your iPhone's wifi settings
- Tap on the disclosure button.
- Scroll to the bottom "Http Proxy" settings
- Set the server to your Mac's Wifi IP address, and the port to 8080.
- BurpSuite will now intercept any insecure HTTP calls from your ios device and you can inspect them in BurpSuite

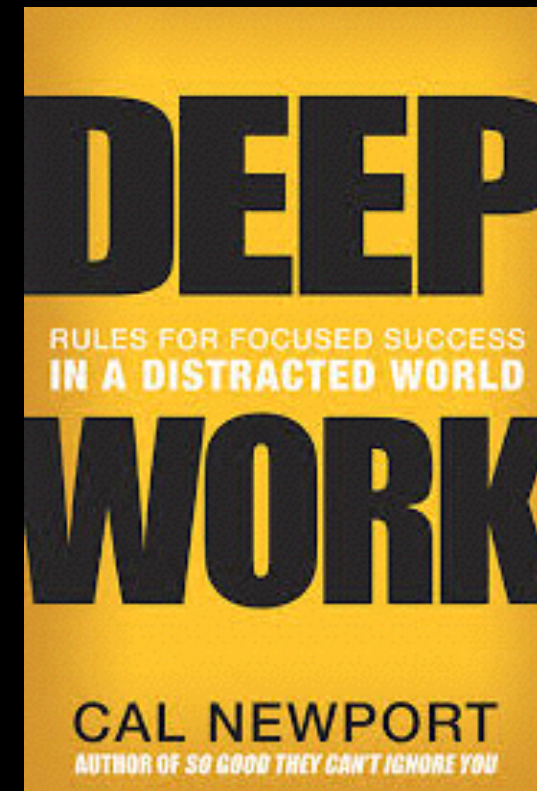
# URL Schemes

- Allows communication between apps
- Allows your app to take advantage of other application's functionality
- Can be used to send and receive data between apps.
- It's a powerful mechanism behind the award winning automation app WorkFlows
- It's also the reason the Twitter client or the Youtube client apps open on an iOS device
- These are extremely easy to setup and use
- Example project: <https://github.com/philosopherdog/CustomURLs.git>

# Learning Generally

- Reflect on your learning style
- Develop a deliberate learning practice
- Pick high quality resources & cut through the noise
- Start your day with Code Katas every day
- Commit essentials to memory (Anki)
- Avoid copy/paste
- Never add code you don't understand
- Be prolific
- Refactor

# Learning Resources



# Best iOS Learning Materials

- Stanford Courses
- Udacity
- Toronto Public Library
- Big Nerd Ranch Books
- Erica Sadun, Matt Neuburg, Uncle Bob (Bob Martin)
- Apple Documentation, Guides, Sample Code, WWDC Videos
- Open source projects
- Download and study the best apps & learn

```
import UIKit~
~
class Place: NSObject {~
~
    func initWithJSONDictionary(jsonDictionary:NSDictionary) -> Place {~
    ~~~~~
    ~~~~~ // Assign all properties with keyed values from the dictionary~
    ~~~~~ title = jsonDictionary ["title"] as! String~
    ~~~~~ city = jsonDictionary ["city"] as! String~
    ~~~~~ latitude = jsonDictionary ["latitude"] as! NSNumber~
    ~~~~~ longitude = jsonDictionary ["longitude"] as! NSNumber~
    ~~~~~
    ~~~~~ return self~
    ~~~~~ }~
    ~~~~~
    ~~~~~ var title: String = ""~
    ~~~~~ var city: String = ""~
    ~~~~~ var latitude: NSNumber = 0~
    ~~~~~ var longitude: NSNumber = 0~
    ~~~~~ }~
}
```

# You Suck

On being stupid: “Stop thinking about yourself. While learning something new, many students will think, ‘Damn, this is hard for me. I wonder if I am stupid.’ Because stupidity is such an unthinkably terrible thing in our culture, they will then spend hours constructing arguments to explain why they are intelligent yet havin difficulties. The moment you start down this path, you have lost your focus”.  
— *Cocoa Programming for OS X*



# Podcasts, NewsLetters, Blogs

- iOS Dev Weekly: <https://iosdevweekly.com>
- Under The Radar Podcast
- RayWenderlich Podcast
- iPhreaks Podcast
- Natasha The Robot

# Essential Tools

- Dash Document Viewer (iOS/Mac)
- OpenSim Open Source Alternative to SimPholders <https://github.com/luosheng/OpenSim>
- Snappy (Screen shot tool) <https://itunes.apple.com/ca/app/snappy-snapshots-smart-way/id512617038?mt=12>
- Copy em Paste (Best clipboard manager) <https://itunes.apple.com/ca/app/copyem-paste-superior-clipboard/id876540291?mt=12>
- Alfred <https://itunes.apple.com/ca/app/alfred/id405843582?mt=12>
- Quiver <https://itunes.apple.com/ca/app/quiver-programmers-notebook/id866773894?mt=12>
- Keyboard Maestro <http://www.keyboardmaestro.com/main/>

# Git

- Let's setup .gitignore\_global <https://gist.github.com/philosophherdog/12510ce9e8c9a9aaf4bf30fee3249f39>
- Gitup <http://gitup.co>
- The advantages of using a Git Gui

# Design Patterns

