

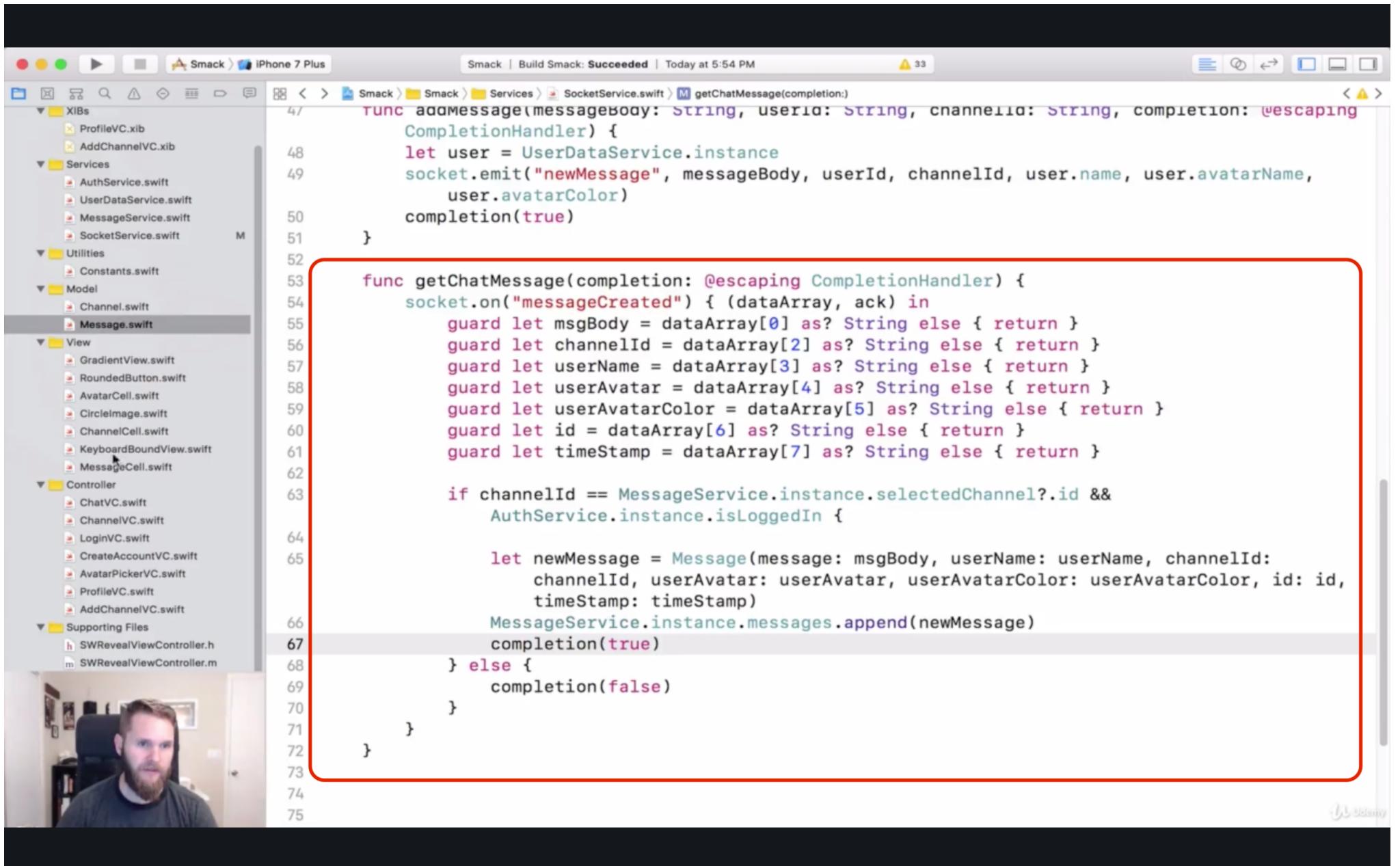


Project

index.js — ~/Documents/mac-chat-api

```
71     function(userName){  
72         userName + " has stopped writing a message...");  
73     erName];  
74     date", typingUsers);  
75  
76     t message  
77         function(messageBody, userId, channelId, userName, userAvatar, userAvatarColor) {  
78             dy);  
79             Message({  
80                 body,  
81             r,  
82                 AvatarColor  
83             ion(err, msg){  
84                 hose connected in the room  
85                 ssage sent');  
86             ated", msg.messageBody, msg.userId, msg.channelId, msg.userName, msg.userAvatar, msg.userAvatarColor, msg.id, msg.timeStamp);  
87             98  
88             99  
89             ! SOCKETS||||| */  
90             port);  
91             port ${app.server.address().port});  
92             105  
93             106  
94             107  
95             108
```

LF □ 2 deprecations UTF-8 Babel ES6 JavaScript master ↴ ↵ 0 files 44 Updates



The screenshot shows the Xcode IDE interface with a project named "Smack" targeting an iPhone 7 Plus. The code editor displays the file `SocketService.swift`, specifically the `getChatMessage(completion:)` method. A red box highlights the entire implementation of this method.

```
func addMessage(messageBody: String, userId: String, channelId: String, completion: @escaping CompletionHandler) {
    let user = UserDataService.instance
    socket.emit("newMessage", messageBody, userId, channelId, user.name, user.avatarName,
               user.avatarColor)
    completion(true)
}

func getChatMessage(completion: @escaping CompletionHandler) {
    socket.on("messageCreated") { (dataArray, ack) in
        guard let msgBody = dataArray[0] as? String else { return }
        guard let channelId = dataArray[2] as? String else { return }
        guard let userName = dataArray[3] as? String else { return }
        guard let userAvatar = dataArray[4] as? String else { return }
        guard let userAvatarColor = dataArray[5] as? String else { return }
        guard let id = dataArray[6] as? String else { return }
        guard let timeStamp = dataArray[7] as? String else { return }

        if channelId == MessageService.instance.selectedChannel?.id &&
           AuthService.instance.isLoggedIn {

            let newMessage = Message(message: msgBody, userName: userName, channelId:
                                      channelId, userAvatar: userAvatar, userAvatarColor: userAvatarColor, id: id,
                                      timeStamp: timeStamp)
            MessageService.instance.messages.append(newMessage)
            completion(true)
        } else {
            completion(false)
        }
    }
}
```

Smack > iPhone 7 Plus

Running Smack on iPhone 7 Plus

33

File □ View □ Editor □ Project □ XIBs □ Services □ Utilities □ Model □ View □ Controller □ ChatVC.swift □ viewDidLoad()

```
let tap = UITapGestureRecognizer(target: self, action: #selector(ChatVC.handleTap))
view.addGestureRecognizer(tap)
menuBtn.addTarget(self.revealViewController(), action:
    #selector(SWRevealViewController.revealToggle(_:)), for: .touchUpInside)
self.view.addGestureRecognizer(self.revealViewController().panGestureRecognizer())
self.view.addGestureRecognizer(self.revealViewController().tapGestureRecognizer())

NotificationCenter.default.addObserver(self, selector:
    #selector(ChatVC.userDataDidChange(_:)), name: NOTIF_USER_DATA_DID_CHANGE, object:
    nil)
NotificationCenter.default.addObserver(self, selector:
    #selector(ChatVC.channelSelected(_:)), name: NOTIF_CHANNEL_SELECTED, object: nil)

SocketService.instance.getChatMessage { (success) in
    if success {
        self.tableView.reloadData()
        if MessageService.instance.messages.count > 0 {
            let endIndex = IndexPath(row: MessageService.instance.messages.count - 1,
                                     section: 0)
            self.tableView.scrollToRow(at: endIndex, at: .bottom, animated: false)
        }
    }
}
```

0.0823529411764706, 0.2, 1], id: 597151cf28d0c5002380dde1, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: comin at ya from mac app, userName: jonnyb, channelId: 5967ea6ee2d77a0023371062, userAvatar: dark26, userAvatarColor: [1.0, 0.825681105, 0.81724758516125, 1.0], id: 597151ee28d0c5002380dde2, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: right back at ya!!!, userName: Emma, channelId: 5967ea6ee2d77a0023371062, userAvatar: light14, userAvatarColor: [0.796078431372549, 0.0823529411764706, 0.597151fe28d0c5002380dde3, timeStamp: 2017-07-21T00:59:42.392Z])

+

All Output □



Smack > iPhone 7 Plus

Building Smack: Smack | Running 2 of 3 custom shell scripts 33

XIBs

- ProfileVC.xib
- AddChannelVC.xib

Services

- AuthService.swift
- UserDataService.swift** M
- MessageService.swift
- SocketService.swift

Utilities

- Constants.swift

Model

- Channel.swift
- Message.swift

View

- GradientView.swift
- RoundedButton.swift
- AvatarCell.swift
- CircleImage.swift
- ChannelCell.swift
- KeyboardBoundView.swift
- MessageCell.swift

Controller

- ChatVC.swift
- ChannelVC.swift
- LoginVC.swift
- CreateAccountVC.swift
- AvatarPickerVC.swift
- ProfileVC.swift
- AddChannelVC.swift

Supporting Files

- SWRevealViewController.h
- SWRevealViewController.m
- Smack-Bridging-Header.h
- AppDelegate.swift
- Main.storyboard
- Assets.xcassets
- LaunchScreen.storyboard
- Info.plist

Products

Smack

```
0.0823529411764706, 0.2, 1], id: 597151cf28d0c5002380dde1, timeStamp: 2017-07-21T00:58:55.922Z),
Smack.Message(message: comin at ya from mac app, userName: jonnyb, channelId:
5967ea6ee2d77a0023371062, userAvatar: dark26, userAvatarColor: [1.0, 0.825681105
0.81724758516125, 1.0], id: 597151ee28d0c5002380dde2, timeStamp: 2017-07-21T00:5
Smack.Message(message: right back at ya!!!, userName: Emma, channelId: 5967ea6ee
userAvatar: light14, userAvatarColor: [0.796078431372549, 0.0823529411764706, 0.
597151fe28d0c5002380dde3, timeStamp: 2017-07-21T00:59:42.392Z)]
```

All Output



Udemy

Smack > iPhone 7 Plus

Building Smack: Smack | Compiling Swift source files

33

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- AddChannelVC.xib

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Smack

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Filter

All Output

33

```
44        }
45    }
46
47    if AuthService.instance.isLoggedIn {
48        AuthService.instance.findUserByEmail(completion: { (success) in
49            NotificationCenter.default.post(name: NOTIF_USER_DATA_DID_CHANGE, object: nil)
50        })
51    }
52 }
53
54 @objc func userDataDidChange(_ notif: Notification) {
55     if AuthService.instance.isLoggedIn {
56         onLoginGetMessages()
57     } else {
58         channelNameLbl.text = "Please Log In"
59         tableView.reloadData()
60     }
61 }
62
63 @objc func channelSelected(_ notif: Notification) {
64     updateWithChannel()
65 }
66
67 @objc func handleTap() {
```



Running Smack on iPhone 7 Plus

Smack > Smack > ChatVC.swift > userDataDidChange(_:) < ▲ >

XIBs: ProfileVC.xib, AddChannelVC.xib

Services: AuthService.swift, UserDataService.swift, MessageService.swift, SocketService.swift

Utilities: Constants.swift

Model: Channel.swift, Message.swift

View: GradientView.swift

ChatVC.swift:

```
7 //  
8  
9 import UIKit  
10  
11 class ChatVC: UIViewController,  
    UITableViewDelegate, UITableViewDataSource  
{  
  
    // Outlets  
    @IBOutlet weak var menuBtn: UIButton!  
    @IBOutlet weak var channelNameLbl:  
        UILabel!  
    @IBOutlet weak var messageTxtBox:  
        UITextField!  
    @IBOutlet weak var tableView: UITableView!  
  
    override func viewDidLoad() {  
        super.viewDidLoad()  
        view.bindToKeyboard()  
        tableView.delegate = self  
        tableView.dataSource = self  
  
        tableView.estimatedRowHeight = 80  
        tableView.rowHeight =  
    }  
}
```

Reveal View Controller...
ChannelVC Scene
LoginVC Scene
Create AccountVC Scene
Avatar PickerVC Scene
ChatVC Scene
ChatVC
Top Layout Guide
Bottom Layout Gui...
View
Gradient View
Message Txt Box
Button
Table View
messageCell
Constraints
First Responder
Exit

Prototype Cells: JonnyB 12:33 PM, Message

Table View Prototype Content

View as: iPhone 7 (wC hR)

0.0823529411764706, 0.2, 1], id: 597151cf28d0c5002380dde1, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: comin at ya from mac app, userName: jonnyb, channelId: 5967ea6ee2d77a0023371062, userAvatar: dark26, userAvatarColor: [1.0, 0.825681105, 0.81724758516125, 1.0], id: 597151ee28d0c5002380dde2, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: right back at ya!!!, userName: Emma, channelId: 5967ea6ee2d77a0023371062, userAvatar: light14, userAvatarColor: [0.796078431372549, 0.0823529411764706, 0.597151fe28d0c5002380dde3, timeStamp: 2017-07-21T00:59:42.392Z])

Udemy

Smack > iPhone 7 Plus

Running Smack on iPhone 7 Plus

33

XIBs

- ProfileVC.xib
- AddChannelVC.xib

Services

- AuthService.swift
- UserService.swift
- MessageService.swift
- SocketService.swift

Utilities

- Constants.swift

Model

- Channel.swift
- Message.swift

View

- GradientView.swift
- RoundedButton.swift
- AvatarCell.swift
- CircleImage.swift

ChatVC.swift

```
04 @objc func channelSelected(_ notification: Notification) {
    updateWithChannel()
}

@objc func handleTap() {
    view.endEditing(true)
}

func updateWithChannel() {
    let channelName =
        MessageService.instance.selectedChannel?.channelTitle ?? ""
    channelNameLbl.text = "#\(channelName)"
    getMessages()
}

@IBAction func sendMsgPressed(_ sender: Any) {
    if AuthService.instance.isLoggedIn {
        guard let channelId =
            MessageService.instance.select...
```

Reveal View Controller...

ChannelVC Scene

LoginVC Scene

Create AccountVC Scene

Avatar PickerVC Scene

ChatVC Scene

ChatVC

- Top Layout Guide
- Bottom Layout Gui...
- View
- Gradient View
- F Message Txt Box
- B Send Btn
- Table View
- messageCell
- Constraints
- FirstResponder
- Exit

Prototype Cells

Smack

JonnyB 12:30 PM

Message

Table View

Prototype Content

View as: iPhone 7 (wC hR)

0.0823529411764706, 0.2, 1], id: 597151cf28d0c5002380dde1, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: comin at ya from mac app, userName: jonnyb, channelId: 5967ea6ee2d77a0023371062, userAvatar: dark26, userAvatarColor: [1.0, 0.825681105, 0.81724758516125, 1.0], id: 597151ee28d0c5002380dde2, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: right back at ya!!!, userName: Emma, channelId: 5967ea6ee2d77a0023371062, userAvatar: light14, userAvatarColor: [0.796078431372549, 0.0823529411764706, 0.597151fe28d0c5002380dde3, timeStamp: 2017-07-21T00:59:42.392Z])

All Output



101. Sockets and Messages

Running Smack on iPhone 7 Plus 33

```
7 //  
8  
9 import UIKit  
10  
11 class ChatVC: UIViewController, UITableViewDelegate, UITableViewDataSource {  
12  
13     // Outlets  
14     @IBOutlet weak var menuBtn: UIButton!  
15     @IBOutlet weak var channelNameLbl: UILabel!  
16     @IBOutlet weak var messageTxtBox: UITextField!  
17     @IBOutlet weak var tableView: UITableView!  
18     @IBOutlet weak var sendBtn: UIButton!  
19  
20     // Variables  
21     var isTyping = |  
22  
23     override func viewDidLoad() {  
24         super.viewDidLoad()  
25         view.bindToKeyboard()  
26         tableView.delegate = self  
27         tableView.dataSource = self  
28  
29         tableView.estimatedRowHeight = 80  
30         tableView.rowHeight = UITableViewAutomaticDimension  
31     }  
32  
33 }
```

0.0823529411764706, 0.2, 1], id: 597151cf28d0c5002380dde1, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: comin at ya from mac app, userName: jonnyb, channelId: 5967ea6ee2d77a0023371062, userAvatar: dark26, userAvatarColor: [1.0, 0.825681105 0.81724758516125, 1.0], id: 597151ee28d0c5002380dde2, timeStamp: 2017-07-21T00:58:55.922Z), Smack.Message(message: right back at ya!!!, userName: Emma, channelId: 5967ea6ee2d77a0023371062, userAvatar: light14, userAvatarColor: [0.796078431372549, 0.0823529411764706, 0.597151fe28d0c5002380dde3, timeStamp: 2017-07-21T00:59:42.392Z])

|| 1x 16:04 / 18:37 +

101. Sockets and Messages

The screenshot shows the Xcode IDE interface with the following details:

- Project Navigator:** Shows the project structure with folders like XIBs, Services, Utilities, Model, View, Controller, and Supporting Files.
- Editor:** Displays the `ChatVC.swift` file containing Swift code. A red box highlights the `@IBAction func messageBoxEditing(_ sender: Any)` method, which handles the editing state of a text box.
- Output Navigator:** Shows log messages from the terminal:

```
2017-07-20 18:06:22.692694-0700 Smack[14996:128472] [BoringSSL] Function boringssl_context_get_peer_npn_data: line 1214 Peer's advertised NPN data is NUL
2017-07-20 18:06:28.579647-0700 Smack[14996:128236] [MC] System group container systemgroup.com.apple.configurationprofiles path is /Users/jonnyb/Library/Developer/Devices/41BF4253-BB23-4E16-AEE0-BE730D462B17/data/Containers/Shared/SystemGroup/systemgroup.com.apple.configurationprofiles
2017-07-20 18:06:28.580545-0700 Smack[14996:128236] [MC] Reading from private ef
```
- Bottom Bar:** Includes standard Xcode navigation icons for play, stop, zoom, and a progress bar indicating the current run time is 17:07 / 18:37.

```
70
71     @objc func handleTap() {
72         view.endEditing(true)
73     }
74
75     func updateWithChannel() {
76         let channelName = MessageService.instance.selectedChannel?.channelTitle ?? ""
77         channelNameLbl.text = "#\(channelName)"
78         getMessages()
79     }
80
81     @IBAction func messageBoxEditing(_ sender: Any) {
82         if messageTxtBox.text == "" {
83             isTyping = false
84             sendBtn.isHidden = true
85         } else {
86             if isTyping == false {
87                 sendBtn.isHidden = false
88             }
89             isTyping = true
90         }
91     }
92
93     @IBAction func sendMsgPressed(_ sender: Any) {
```

A video feed of a man with a beard is visible in the bottom right corner of the screen.

101. Sockets and Messages

Smack > iPhone 7 Plus Building Smack: Pods-Smack 4

```
13 // Outlets
14 @IBOutlet weak var menuBtn: UIButton!
15 @IBOutlet weak var channelNameLbl: UILabel!
16 @IBOutlet weak var messageTxtBox: UITextField!
17 @IBOutlet weak var tableView: UITableView!
18 @IBOutlet weak var sendBtn: UIButton!

19 // Variables
20 var isTyping = false

21 override func viewDidLoad() {
22     super.viewDidLoad()
23     view.bindToKeyboard()
24     tableView.delegate = self
25     tableView.dataSource = self

26     tableView.estimatedRowHeight = 80
27     tableView.rowHeight = UITableViewAutomaticDimension
28     sendBtn.isHidden = true

29     let tap = UITapGestureRecognizer(target: self, action: #selector(ChatVC.handleTap))
30     view.addGestureRecognizer(tap)
31     menuBtn.addTarget(self.revealViewController(), action:
32         #selector(SWRevealViewController.revealToggle(_:)), for: .touchUpInside)

2017-07-20 18:06:22.692694-0700 Smack[14996:128472] [BoringSSL] Function
boringssl_context_get_peer_npn_data: line 1214 Peer's advertised NPN data is NUL
2017-07-20 18:06:28.579647-0700 Smack[14996:128236] [MC] System group container
systemgroup.com.apple.configurationprofiles path is /Users/jonnyb/Library/Develo
Devices/41BF4253-BB23-4E16-AEE0-BE730D462B17/data/Containers/Shared/SystemGroup/
systemgroup.com.apple.configurationprofiles
2017-07-20 18:06:28.580545-0700 Smack[14996:128236] [MC] Reading from private ef
```



1x 17:21 / 18:37 All Output