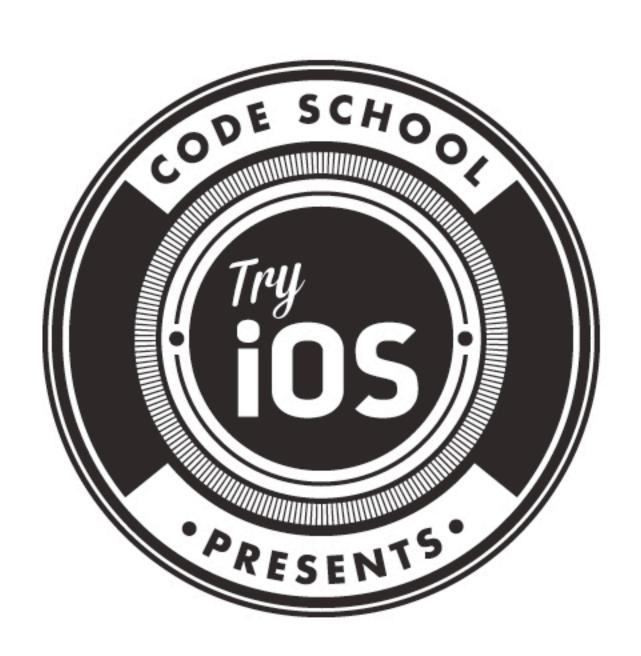
# Level 4

UINavigationController & Custom Buttons



### Level 4



### 01 Introduction to the UINavigationController

- 02 Creating a Custom Image Button
- 03 Creating View Controllers on the Fly
- 04 Using Both Navigation and TabBar Controllers



# How else do we navigate ViewControllers?





SettingsViewController



**GeneralViewController** 



**AboutViewController** 



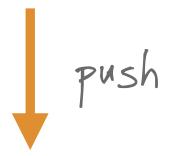


# **UINavigationController**

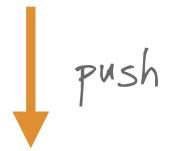




#### **SettingsViewController**



#### **GeneralViewController**



**AboutViewController** 



### This is Our Old Code



#### AppDelegate.m

```
old code
#import "AppDelegate.h"
#import "FeedViewController.h"
@implementation AppDelegate
- (BOOL)
                  application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
  FeedViewController *feedViewController = [[FeedViewController alloc] init];
  UITabBarController *tabBarController = [[UITabBarController alloc] init];
  self.window = [[UIWindow alloc] initWithFrame:[[UIScreen mainScreen] bounds]];
  self.window.rootViewController = tabBarController;
```



# Using the UINavigationController



#### AppDelegate.m

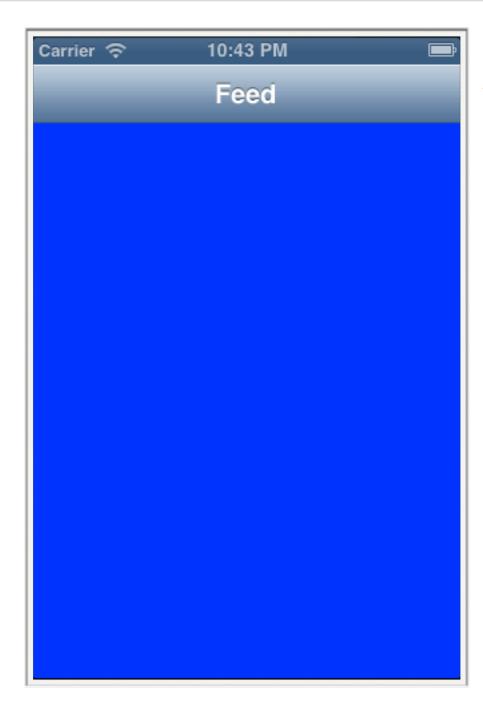
```
#import "AppDelegate.h"
#import "FeedViewController.h"
@implementation AppDelegate
- (BOOL)
                  application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
  FeedViewController *feedViewController = [[FeedViewController alloc] init];
  UINavigationController *navController = [[UINavigationController alloc]
                                 initWithRootViewController:feedViewController];
  self.window = [[UIWindow alloc] initWithFrame:[[UIScreen mainScreen] bounds]];
  self.window.rootViewController = navController;
```



# First Screen of our UlNavigationController





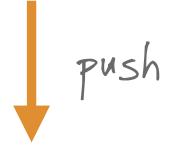


Takes the name of the controller by default

### We can push to a new controller with

[self navigationController pushViewController:<New View Controller> animated:YES];

#### **FeedViewController**



FavoritesViewController



# Navigating to the FavoritesViewController



#### FeedViewController.m

```
(void)viewDidLoad
[super viewDidLoad];
// Do any additional setup after loading the view.
self.view.backgroundColor = [UIColor blueColor];
|UIButton *favoritesButton = [UIButton buttonWithType:UIButtonTypeRoundedRect];
favoritesButton.frame = CGRectMake(60, 100, 200, 44);
[favoritesButton setTitle:@"View Favorites" forState:UIControlStateNormal];
[self.view addSubview:favoritesButton];
[favoritesButton addTarget:self action:@selector(showFavorites:)
                             forControlEvents:UIControlEventTouchUpInside];
(void)showFavorites:(UIButton *)sender
FavoritesViewController *favoritesViewController =
                                       [[FavoritesViewController alloc] init];
 [self_navigationController pushViewController:favoritesViewController
                                          animated:YES];
```

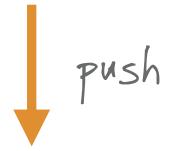


# With UINavigationController 🔁





**FeedViewController** 



**FavoritesViewController** 



### **Custom Buttons**





WOULDN'T IT BE NICE IF CLICKING THAT BUTTON LINKED TO A BIGGER IMAGE?





### Changing an Image to a Button



#### FavoritesViewController.m

```
old code
. . .
 (void)viewDidLoad
 [super viewDidLoad];
 // Do any additional setup after loading the view.
  self.view.backgroundColor = [UIColor blueColor];
  UIImageView *tryiosView = [[UIImageView alloc] initWithImage:
        [UIImage imageNamed:@"tryios.gif"]];
  [tryiosView setContentMode:UIViewContentModeScaleAspectFit];
  tryoisView.frame = self.view.frame;
  [self.view addSubview:tryiosView];
```



### Lets add a Picture In our Profile



#### FavoritesViewController.m

```
(void)viewDidLoad
[super viewDidLoad];
// Do any additional setup after loading the view.
self.view.backgroundColor = [UIColor blueColor];
UIButton *tryiosView = [UIButton buttonWithType:UIButtonTypeCustom];
[tryiosView setImage:[UIImage imageNamed:@"tryios.gif"]
               forState:UIControlStateNormal];
[tryiosView setImage:[UIImage imageNamed:@"tryios.gif"]
               forState:UIControlStateHighlighted];
[tryiosView setFrame:CGRectMake(15, 15, 100, 100)];
[self.view addSubview:tryiosView];
[tryiosView addTarget:self
                  action:@selector(showZoomedPicture:)
        forControlEvents:UIControlEventTouchUpInside];
```



### We have an Image Button





But now we need a ViewController filled with an image to pass control to....

BUT HOLD YOUR HORSES, YOU DON'T NEED ANOTHER SUBCLASS!





### Lets push to a New ViewController



#### FavoritesViewController.m

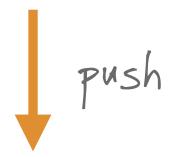
```
Create a ViewController on the fly!
init];
(void)showZoomedPicture:(UIButton *)sender
UIViewController *tryiosImageViewController = [[UIViewController alloc] init];
tryiosImageViewController.view.frame = self.view.frame;
tryiosImageViewController.title = @"Try IOS Logo";
UIImageView *tryiosView = [[UIImageView alloc]
                              initWithImage: [UIImage imageNamed:@"tryios.gif"]];
[tryiosView setContentMode:UIViewContentModeScaleAspectFit];
tryiosView.frame = tryiosImageViewController.view.frame;
[tryiosImageViewController.view addSubview:tryiosView];
[self_navigationController pushViewController:tryiosImageViewController
                                     animated:YES];
                              Push Control to our new ViewController
```



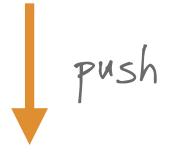
### With Our Custom Button



#### **FeedViewController**



**FavoritesViewController** 



tryiosImageViewController



### **Lets Combine Both Nav + Tab Containers**



# ProfileViewController — ProfileNavController tabBarController







Name: Gregg Pollack

From: Orlando

Gregg Pollack is the founder of Envy Labs and teacher of multiple courses at Code School. Code School teaches web technologies in the comfort of your browser with video lessons, coding challenges, and screencasts.

Mambar since Navember 2010

#### Profile



Name: Gregg Pollack

From: Orlando

Gregg Pollack is the founder of Envy Labs and teacher of multiple courses at Code School. Code School teaches web technologies in the comfort of your browser with video lessons, coding challenges, and screencasts.



From: Orlando

Gregg Pollack is the founder of Envy Labs and teacher of multiple courses at Code School. Code School teaches web technologies in the comfort of your browser with video lessons, coding





# Using the UINavigationController

self.window.rootViewController = tabBarController;



```
AppDelegate.m
@implementation AppDelegate
  (BOOL)
                  application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
   ProfileViewController *profileViewController = [[ProfileViewController alloc] init];
   UINavigationController *profileNavController = [[UINavigationController alloc]
                                 initWithRootViewController:profileViewController];
   self.window = [[UIWindow alloc] initWithFrame:[[UIScreen mainScreen] bounds]];
   UITabBarController *tabBarController = [[UITabBarController alloc] init];
   [tabBarController setViewControllers:@[profileNavController]];
```



### **Both Containers Together!**



