

# Piscine Swift - Day 08

## Puppy Love

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*Summary: This document contains the subject for Day for the "Piscine Swift" from 42*

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# Chapter I

## Foreword

Autonomy and Freedom of choice are critical to our well being, and choice is critical to freedom and autonomy. Nonetheless, though modern Americans have more choice than any group of people ever has before, and thus, presumably, more freedom and autonomy, we don't seem to be benefiting from it psychologically.

— quoted from Ch.5, The Paradox of Choice, 2004

# Chapter II

## General Instructions

- Only this document will serve as reference. Do not trust rumors.
- Read carefully the whole subject before beginning.
- Watch out! This document could potentially change up to an hour before submission.
- This project will be corrected by humans only.
- This course is designed to build on previous days' concepts, try your hardest to finish everyday.
- Each day culminates in a portfolio piece, if you finish the day this is something you can use to get hired.
- When submitting, submit the folder of the Xcode project.
- Only the work submitted on the repository will be accounted for during peer-2-peer correction.
- Here it is the [official manual of Swift](#) and the [Swift Standard Library](#)
- It is forbidden to use other libraries, packages, pods, etc. Unless otherwise stated in the project.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- You can discuss on the Piscine forum of your Intra!
- By Odin, by Thor! Use your brain!!!

# Chapter III

## Introduction

Today we are going to be building a tinder clone for adopting pets. This will include learning about gesture controls, observers, notifications, page transitions, building profiles and sending and receiving signals with a database.

## Chapter IV

### Exercise 00 : Gesture Controls

Exercise : 00
Gesture Controls
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit, UIGestureRecognizer
Notes : n/a

We are reviewing how to do gestures. This will be done by implementing all of them on a series of images. When tapped a photo should open (solitary black borders), when pinched should zoom, swipe right should choose the next one, swipe left should choose the last one. While zoomed panning should be functional. Long presses should favorite the photo and tapping on the edges should also act as a kind of next/last.

# Chapter V

## Exercise 01 : Listeners / Observers

Exercise : 01
Listeners / Observers
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

We are going to build something that watches for state changes and notifies us if any changes have happened since the last time it was checked.

# Chapter VI

## Exercise 02: Profile

Exercise : 02
Profile
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

We are building a user profile, this will be a lot like a dating profile on dating apps, but we will be using photos and descriptions of puppies.



### Vilma, 26

less than a mile away Active just now

#### About Vilma

Single and ready to mingle!

9 weeks old. 12 lbs when full grown. Chiweenie!  
Playful, cuddly, friendly and eager to learn.  
Perfect loyal companion for any animal lover.



## Chapter VII

### Exercise 03: Page Transitions

Exercise : 03
Page Transitions
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

We are adding animations to the scene transitions between pages/profiles. What style of animation used is a personal choice but you must enable an animation without use of an outside library.

## Chapter VIII

### Exercise 04: Sync Notifications

Exercise : 04
Sync Notifications
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit, NotificationCenter
Notes : n/a

Using the observer built in exercise 02, we will receive notifications when the state is changed.

# Chapter XI

## Exercise 05: Puppy Love

Exercise : 05
Puppy Love
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit, DateInterval
Notes : n/a

Put it all together and we are building an app similar in functionality to tinder, but for adopting pets. We will create 5 profiles, be able to like them, swipe for yes, swipe for no, zoom in on images and superlike them by swiping up.

## Chapter X

### Bonus : Now Add Messaging

Bonus
Now Add Messaging
Files to turn in: .xcodeproj and all necessary files
Allowed functions : Swift Standard Library, UIKit
Notes : n/a

If you would like to implement a messaging component similar to our previous assignments you may do so.