



Piscine iOS Swift - Day 07

Siri

Summary: This document contains the Day 07 for the iOS Swift piscine of [42](#)

Contents

I	Préambule	2
II	Consignes	3
III	Introduction	4
IV	Exercise 00 : Installing Cocoapods	5
V	Exercise 01 : FirstViewController	7
VI	Exercise 02: 'RecastAI' pod	8
VII	Exercise 03: 'Dark Sky' pod	9
VIII	Exercise 04: pod 'JSQMessagesViewController'	10

Chapter I

Préambule

Here is what Wikipedia has to say about Artificial Intelligence:

In computer science, artificial intelligence (AI), sometimes called machine intelligence, is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans and animals. Leading AI textbooks define the field as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals. Colloquially, the term "artificial intelligence" is often used to describe machines (or computers) that mimic "cognitive" functions that humans associate with the human mind, such as "learning" and "problem solving".

Chapter II

Consignes

Sauf contradiction explicite, les consignes suivantes seront valables pour tous les jours de cette Piscine.

- Seul ce sujet sert de référence : ne vous fiez pas aux bruits de couloir.
- Le sujet peut changer jusqu'à une heure avant le rendu.
- Les exercices sont très précisément ordonnés du plus simple au plus complexe. En aucun cas nous ne porterons attention ni ne prendrons en compte un exercice complexe si un exercice plus simple n'est pas parfaitement réussi.
- Attention aux droits de vos fichiers et de vos répertoires.
- Vous devez suivre la procédure de rendu pour tous vos exercices. L'url de votre dépôt GIT pour cette journée est disponible sur votre intranet.
- Vos exercices seront évalués par vos camarades de Piscine.
- En plus de vos camarades, vous pouvez être évalués par un programme appelé la Moulinette. La Moulinette est très stricte dans sa notation car elle est totalement automatisée. Il est donc impossible de discuter de sa note avec elle. Soyez d'une rigueur irréprochable pour éviter les mauvaises surprises.
- Les exercices shell doivent s'exécuter avec `/bin/sh`.
- Vous ne devez laisser aucun autre fichier que ceux explicitement spécifiés par les énoncés des exercices dans votre dépôt de rendu.
- Vous avez une question ? Demandez à votre voisin de droite. Sinon, essayez avec votre voisin de gauche.
- Toutes les réponses à vos questions techniques se trouvent dans les `man` ou sur Internet.
- Pensez à discuter sur le forum Piscine de votre Intra et sur Slack !
- Lisez attentivement les exemples car ils peuvent vous permettre d'identifier un travail à réaliser qui n'est pas précisé dans le sujet à première vue.
- Réfléchissez. Par pitié, par Thor, par Odin !

Chapter III

Introduction

You probably already know that developers are mostly lazy people and there's a good reason for this: there's no need to reinvent the wheel everyday it already rolls perfectly. Today, you're going to meet the pods thanks to [Cocoapods](#) !

But what is a pod? A pod is neither [nor The Breeders](#). A pod is a package. Thus, it is managed by a **package manager**. Here, it will be **Cocoapods**.

Today, you will learn how to use pods, that is: install them, and then use them. Today's goal will be to create a robot, more commonly known as **bot** that will cast the weather for a given city.

To do so, you will use 2 API provided by 2 different services you will have to register to.


- [Recast.AI](#): an API will provide you the **Artificial Intelligence** brick for your bot.
- [Dark Sky](#) : an open source API that will help you recover the weather for a given latitude and longitude. (Formerly Forecast.IO)

Here is the documentation you will need:

- [Doc Cocoapods](#)
- [Pod Recast.AI](#)
- [Pod Dark Sky](#)
- [Pod JSQMessagesViewController](#) that will help you display your conversation in a messenger format.

Chapter IV

Exercise 00 : Installing Cocoapods

	Exercise : 00
Installing Cocoapods	
Files to turn in : Swift Standard Library, UIKit, Cocoapods	
Authorised functions : n/a	
Notes : n/a	

To begin, you're gonna have to install **Cocoapods**.

Go check the [Cocoapods](#) site and follow the procedure. Make sure Cocoapods is properly installed typing '**pod**' in the console:

```
>pod
Usage:

  $ pod COMMAND

  CocoaPods, the Cocoa library package manager.

Commands:


+ cache      Manipulate the CocoaPods cache
+ init       Generate a Podfile for the current directory.
+ install    Install project dependencies to Podfile.lock versions
+ ipc        Inter-process communication
+ lib        Develop pods
+ list       List pods
+ outdated   Show outdated project dependencies
+ plugins    Show available CocoaPods plugins
+ repo       Manage spec-repositories
+ search     Search for pods.
+ setup      Setup the CocoaPods environment
+ spec       Manage pod specs
+ trunk      Interact with the CocoaPods API (e.g. publishing new specs)
+ try        Try a Pod!
+ update     Update outdated project dependencies and create new Podfile.lock

Options:

--silent     Show nothing
--version    Show the version of the tool
--verbose    Show more debugging information
--no-ansi    Show output without ANSI codes
--help       Show help banner of specified command
```

Chapter V

Exercise 01 : FirstViewController

	Exercise : 01
FirstViewController	
Files to turn in : Swift Standard Library, UIKit, Cocoapods	
Authorised functions : n/a	
Notes : n/a	

Today, you will need a controller allowing you to make requests to a Recast and Dark Sky.

Create a controller featuring:


- A **Button** to make a request to Recast.
- A **TextField** to write the text you will send.
- A **Label** to display the answer.



Think about the 'Autolayout!

Chapter VI

Exercise 02: 'RecastAI' pod


	Exercise : 02
pod 'RecastAI'	
Files to turn in : Swift Standard Library, UIKit, Cocoapods	
Authorised functions : n/a	
Notes : n/a	

It's time to create an account on [Recast.AI](https://recast.ai). Install the 'RecastAI' pod to be able to make requests and use a Slackbot bot in the community with the weather intention then make a request with the token via the button passing **TextField** in parameter.

The **label** must display the intention returned by **Recast** or "Error" if no intention is returned.

Chapter VII


Exercise 03: 'Dark Sky' pod

	Exercise : 03
pod 'Dark Sky'	
Files to turn in : Swift Standard Library, UIKit, Cocoapods	
Authorised functions : n/a	
Notes : n/a	

Now, we're gonna display the weather according to the returned location. To do so, create an account on [Dark Sky](#) to get a token. Install the '**Dark Sky**' pod and make a request to Dark Sky once **Recast** request is over. The label must display the weather returned by the Dark Sky API according to the location returned by the **Recast** API.

Chapter VIII

Exercise 04: pod 'JSQMessagesViewController'

	Exercice : 04
pod 'JSQMessagesViewController'	
Files to turn in : Swift Standard Library, UIKit, Cocoapods	
Authorised functions : n/a	
Notes : n/a	

Now it's all done, we're gonna be able to refine our interface. To do so, we're gonna use **'JSQMessagesViewController'** pod to display our requests as a conversation with our bot.

You will also add a button to make vocal requests.