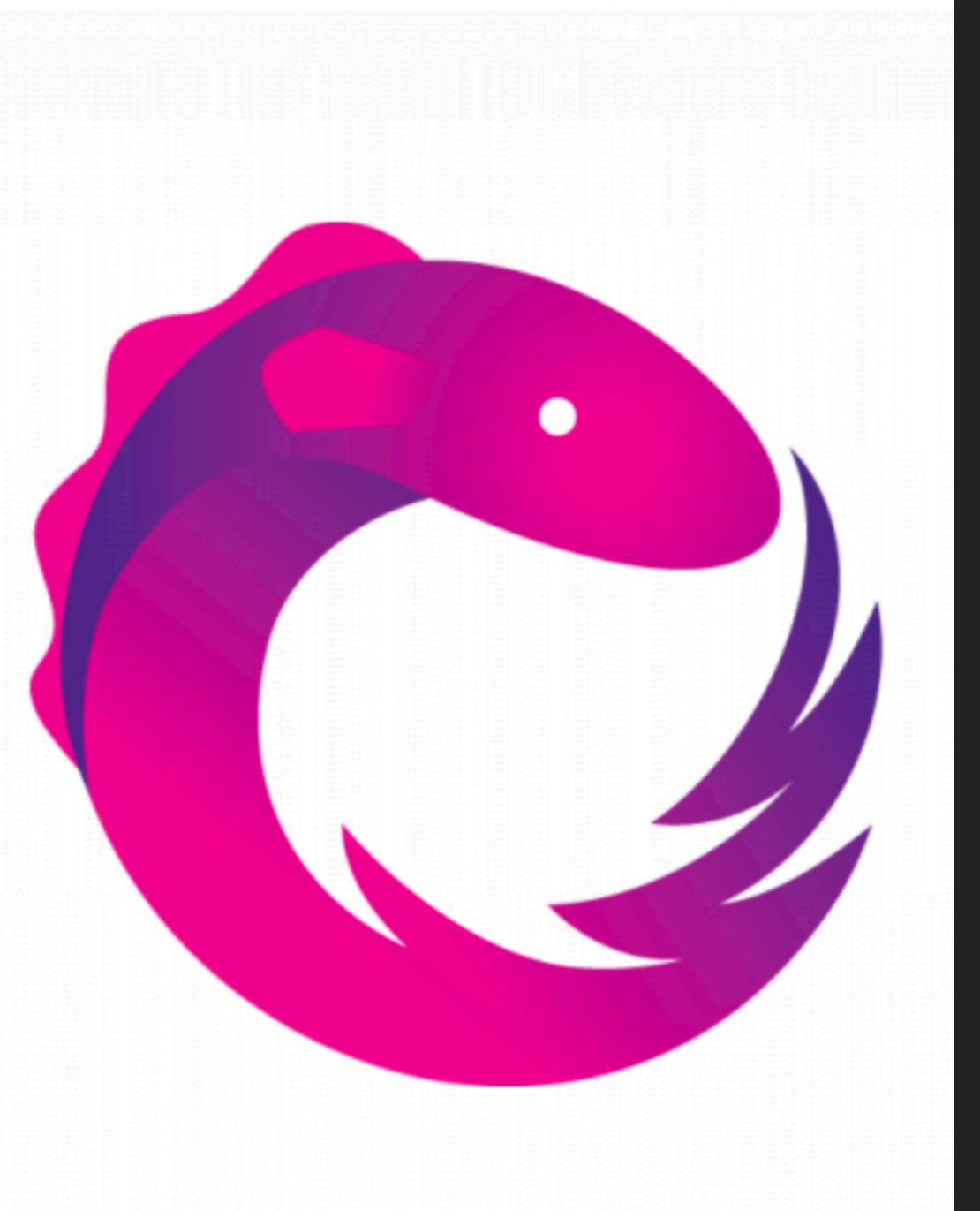
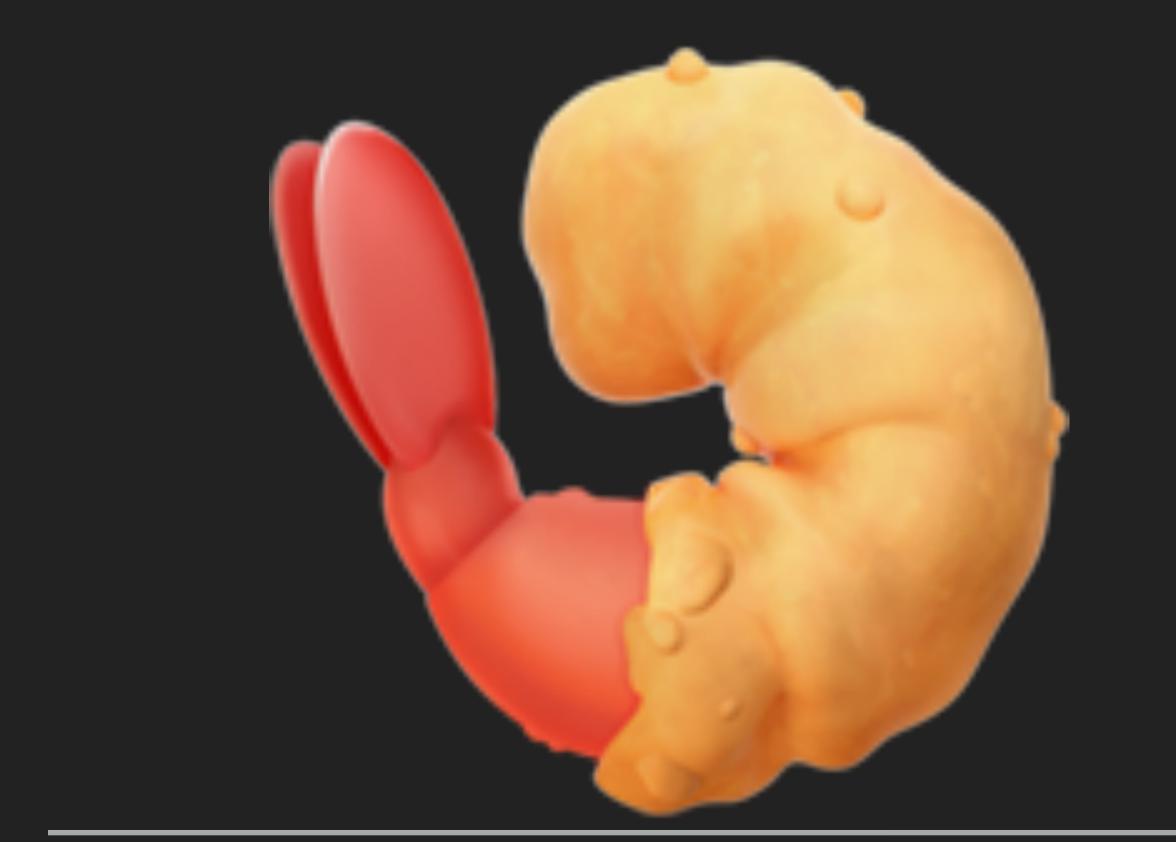
#### FROM RXSWIFT PERSPECTIVE

# WELCOME TO RX WORLD (ELEMENTRY)





## INTRODUCTION



RXSWIFT & RXCOCOA

## CONTENT



### RXSWIFT

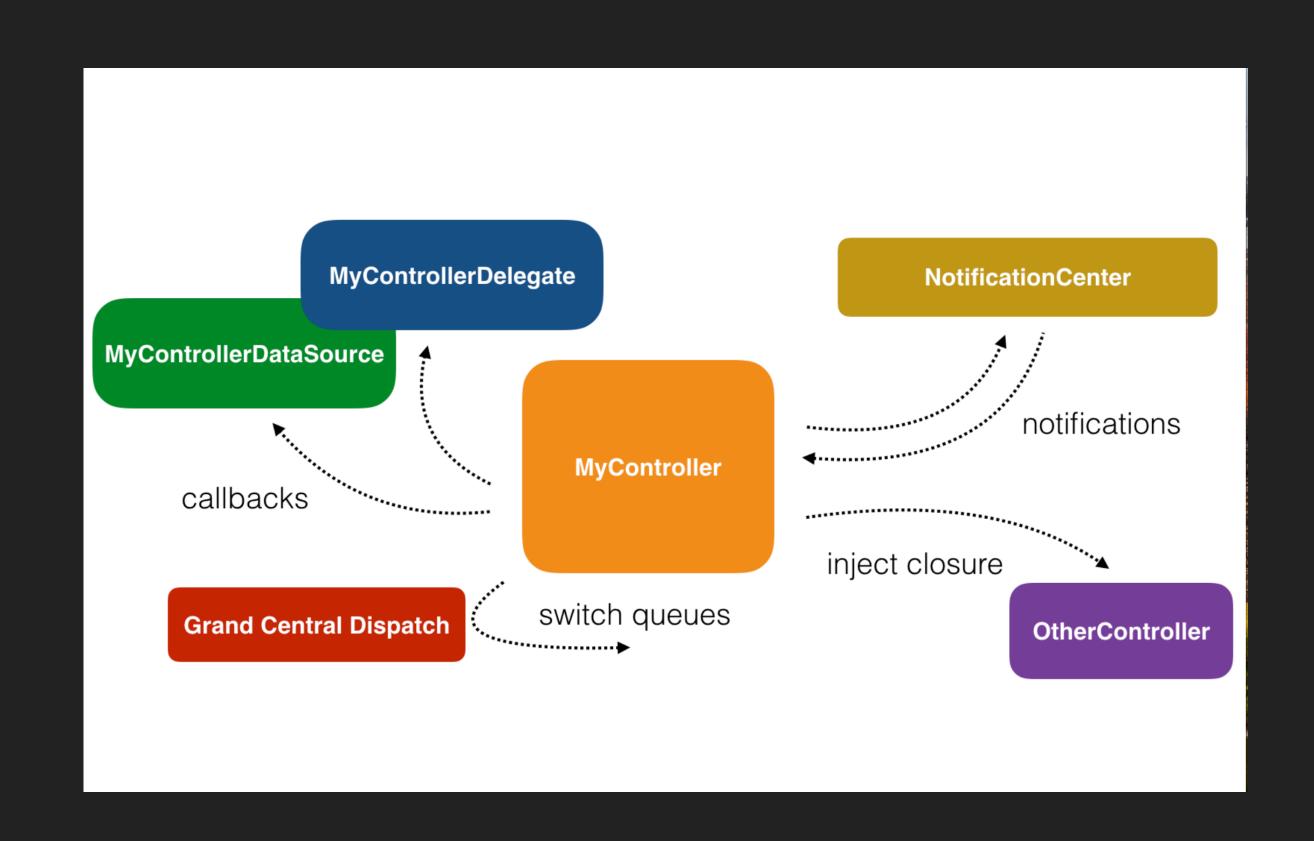
### RX: REACTIVE EXTENTION

How to compose functions for the configuration of t



#### HOW TO COMMUNICATE AMONG ASYNC FUNCTIONS

- ▶ Closure: **\\$**[closurehell.swift]
  - closure hell
  - force caller format
- Delegate
  - interaction
  - continue to return back data
- NotificationCenter
  - so weak connection
  - so, we have to keep notification name and selector same.



### Is there any better way to coordinate Async functions?

#### 3 CONCEPTS

- ▶ ⇔Observable, Subject
- Operators
  - filter
  - transform
  - combine
- Scheduler
  - subscribeOn
  - observeOn

#### OBSERVABLE

- Key words: Cold, Sequence, Status, Dispose
- Methods: of..., create
- Traits: why need them?



There is a trouble...

We can NOT modify Observale after defined.

#### SO... SUBJECT

- Types: 4 types(Pub, Beh, Rep, Variable).
  - Variable:
    - only 2 methods: value(change), asObservable(subscribe);
  - Pub, Beh, Rep =>
- Snapshot
- $\blacktriangleright$  Private subject(::onNext), expose observable(::ONLY subscribe).

#### **OPERATORS**

- Types:
  - Filter : filter, throttle, take(\_:schedular) ....
  - Transform : map, flatMap
  - Combine Video
- ▶ ‡Life cycle



## RXCOCOA

STEPINGINTO UI...



#### ABOUT RXCOCOA

- ▶ ControlProperty<Bool>: UISwitch+Rx.swift [‡Observable]
- ▶ Binder<String?>: UILable+Rx.swift [‡Observer]

#### BINDER

- UILable+Rx.swift
  - [ + Observer]
  - Binding with underlying logic (show information)
  - Can't bind error

#### **TRAITS**

- Attributes
  - can't error out;
  - b observe, subscribe on main schedular;
- Mhais be the congression That mafels. The redship to the congression of the mafels to redship to the congression of the confidence of the congression of the confidence of the congression of the congressi
  - ControlProperty, ControlEvent
  - Drive



## IN PRACTICE

Functional & MVVM

## FUNCTIONAL

CONCAT & FLATMAP & RETRYWHEN

#### CONCAT: HANPPEN IN LINE

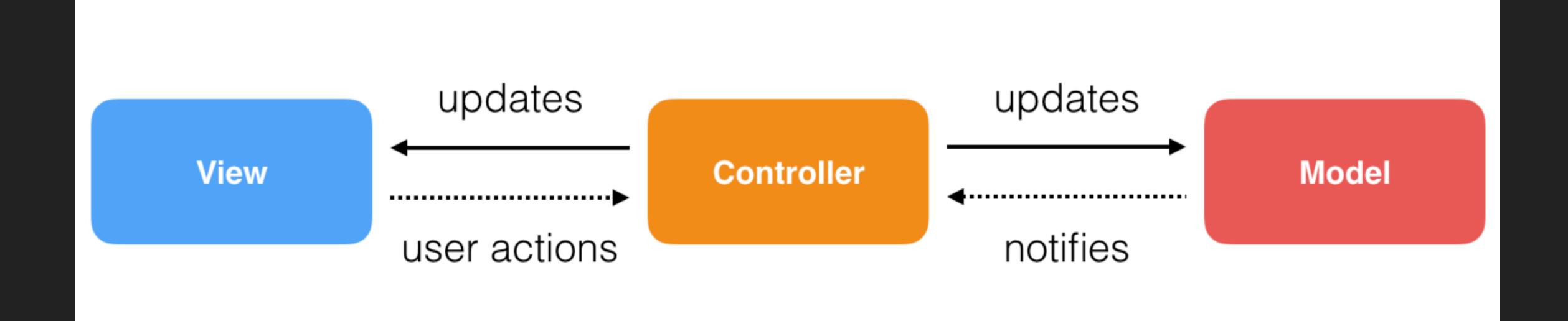
FLATMAP: PRODUCER - CONSUMER

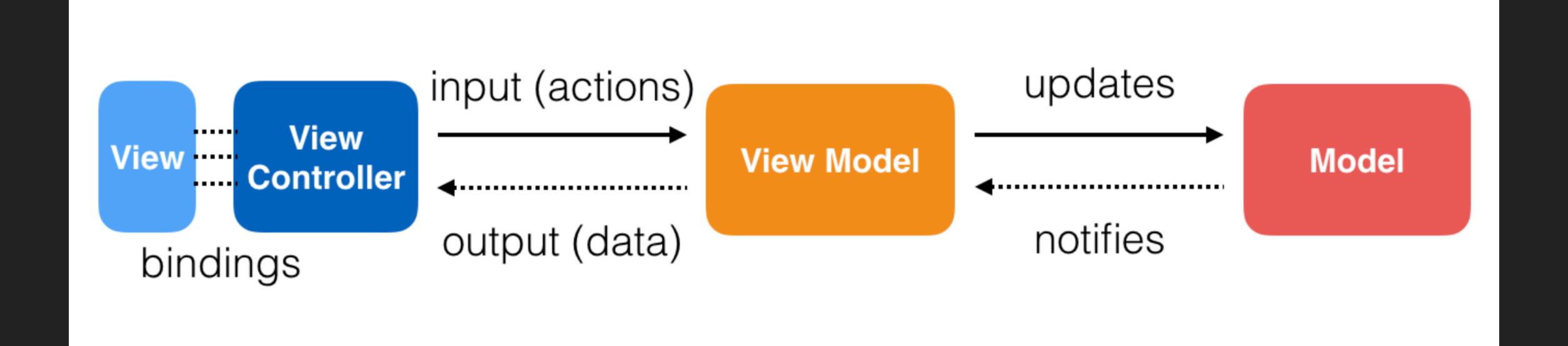
RETRYWHEN: RETRY LOGIC IS BELONGED TO USER

# 

### MVC = MASSIVE VIEW CONTROLLER

A Joke







## CONCLUDE

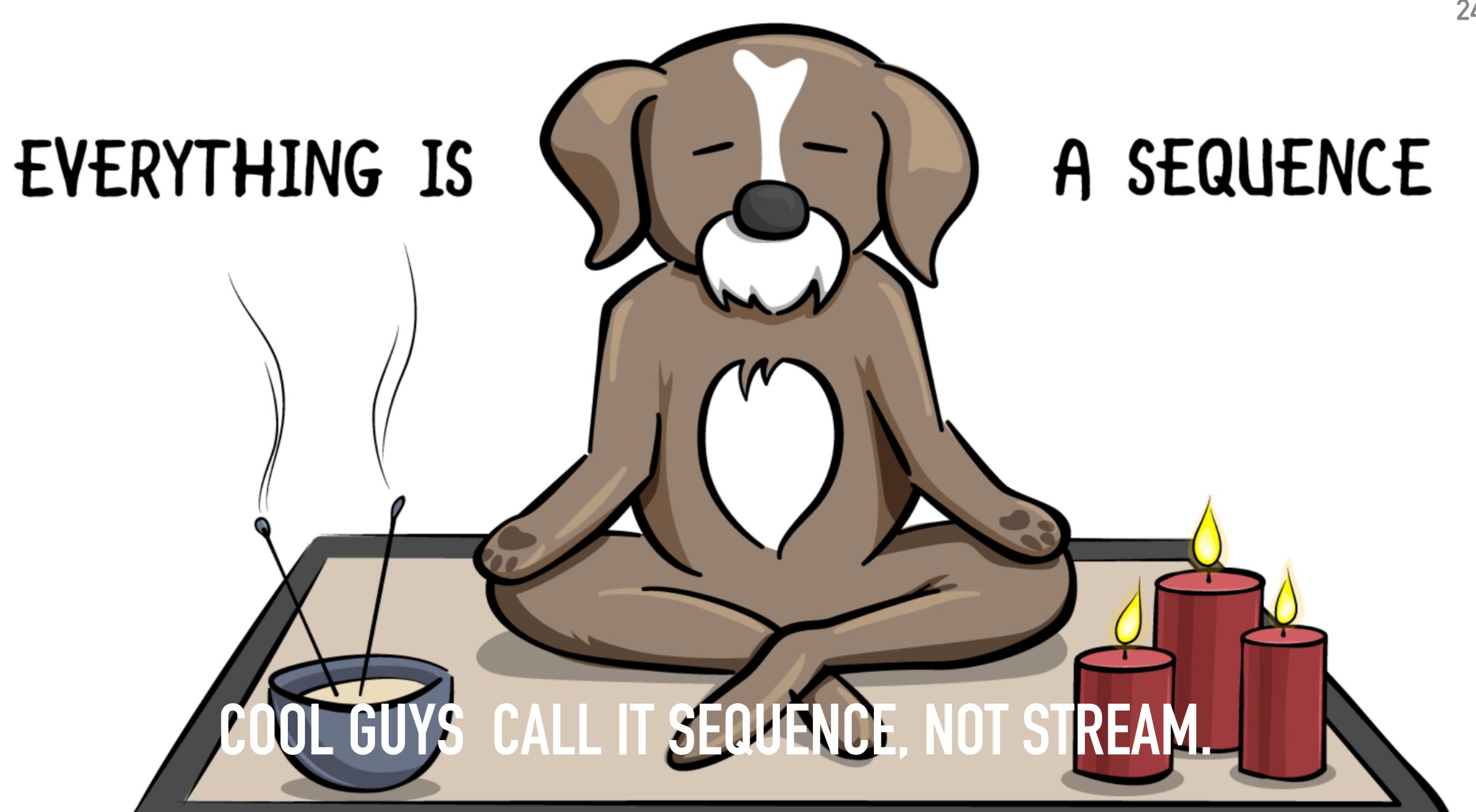


### TODO:

- 1. USE MVVM(TEST)
- 2. SCHEDULER THREAD(DEBUG)
- 3. CUSTOM DATASOURCE
- 4. COORDINATE NAVIGATION...

#### SUMMERIZE

- Notion about Rx: logo, name, origin
- RxSwift
  - ▶ ‡Observable(Subject) ‡Operater ‡Scheduler
- RxCocoa
  - ▶ ControlProperty Binder Drive
- ▶ IN PRACTICE
  - ► ‡Functional ‡MVVM





## REFERENCES