RxSwift Classroom

FrenchKit 2017

Agenda

- Setup
- Taming flatMap()
- Learning to share()
- Introducing RxFeedback

Prepare for the class

- Clone https://github.com/FrenchKit/ RxSwiftClassroom
- Open Playground/Playground.xcworkspace
- Build RxSwift-macOS scheme

Taming flatMap

Taming flatMap

Use flatMap whenever maping to a single value is not enough Most crucial and useful operator to know inside out

1. Regular flatMap

Turn input into a network request

2. Errors

Beware errors emitted by inner sequences

3. Errors, the right way

Catching errors inside flatMap prevents breaking the overall sequence

4. Using flatMapLatest

When you only want to see the freshest results

Learning to share

Expensive observables

- Computation (i.e. preparing thuumbnails)
- Network requests
- Side effects

Forms of share

- share()
- shareReplay(_:)
- shareReplayLatestWhileConnected()
- share(replay:scope:)

Standard share()

- Subscribes to inner observable with first observer
- Unsubscribes when no more observers
- A Side effect: zero observers = next observer restarts inner subscription

shareReplay

- Replays the last N emitted elements
- Event if # subscribers fell to zero
- Experiment with the playground!

shareReplayLatestWhileConnected

- Replays the last emitted element
- Clears buffer when no more subscribers

share(replay:scope:)

- Most flexible variant
- Control whether buffering 'sticks' when subscribers drop to zero

Introducing RxFeedback