Advanced RxSwift - Day 2

RxSwift Basics

- Day 1 Observable, Operator (Filter, Transform, Combine)
- Day 2 Subject (flatMap, flatMapFirst, flatMapLatest)
- Day 3 Two VCs communications with Subject, RxCocoa (Button)
- Day 4 Sequential, Merged Observable Calls
- Day 5 RxCocoa, UI Binding (Button, TextField, Label, TableView)

Advanced RxSwift

- Day 1 Protocol-Oriented Programming, Protocol Extension, Associatetype
- Day 2 Network Call, Generic Enum

- Day 3 Binding Track Activity (show / hide 'Loading')
- Day 4 Adding a Reactive Extension to Custom UI Element,
- 2 Way Binding, Advanced TableView RxDataSources
- Day 5 Schedulers (observeOn, subscribeOn),

Unit Test (RxTest, RxBlocking)



Integrate with API Call

- API Call (create Observable)
- Flow Control in API calls (filter, flatMap operation in Observables)
- Create View Model (BehaviorSubject)
- Data Model (demo 'Quick Type')
- UI Binding (TableView and ViewModel)



API Call (create Observable)

Country Info

https://restcountries.eu/rest/v2/alpha/DEU

Border Countries

https://restcountries.eu/rest/v2/alpha?codes=DEU;FRA;ITA;



Integrate with API Call

```
func contentRequestCall(urlString: String) -> Observable<Result<Data, String>> {
guard let urlRequest = contentURLRequest(urlString: urlString) else {
     return Observable<Result<Data, String>>.just(.failure(nil))
return Observable.create { observer in
     let task = URLSession.shared.dataTask(with: urlRequest) { (data, response, error) in
         guard error == nil, let data = data else {
             observer.onNext(.failure(error?.localizedDescription))
             observer.onCompleted()
             return
         observer.onNext(.success(data))
         observer.onCompleted()
    task.resume()
     return Disposables.create{
         task.cancel()
```



-Generic Enum (Video)



Error Handling with Result Type (Video)



Generic Enum: Result in AlamoFire

https://github.com/Alamofire/Alamofire/blob/master/Source/Result.swift





