

RxSwift

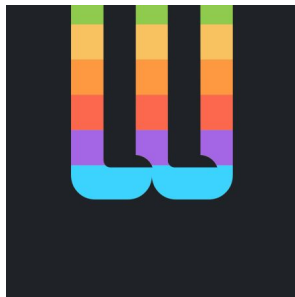
TDC - 2019 - Trilha iOS

Intro

- Paradigmas
- Conceitos
- Principais estruturas
- Demo
 - Erros comuns
 - Melhorias
- Desafios
- Referências

Eu

- Apple Developer Academy | PUCRS
- Woop Sicredi
- Wille - travel your way | Wille - viaje do seu jeito



Programação imperativa

- Estado salvo
- Ordens
- Sequência
- Side effects

```
private func style() {  
  
    self.view.backgroundColor = UIColor.aztec  
    self.searchCityName.textColor = UIColor.ufoGreen  
    self.tempLabel.textColor = UIColor.cream  
    self.humidityLabel.textColor = UIColor.cream  
    self.iconLabel.textColor = UIColor.cream  
    self.cityNameLabel.textColor = UIColor.cream  
  
}
```

Programação funcional

- Sem estado salvo
- Minimiza side effects
- Declarativa
- Composição
- Testes

```
let _ = [1,2,3].map { $0 + 2 }
```

Programação reativa

- Programas assíncronos e baseados em eventos
- Declarativa
- Responsiva

```
cell.publicButtonPressed
    .observeOn(MainScheduler.instance)
    .subscribe(onNext: { [weak self] _ in

        self?.presentDescription(for: movie)

    }).disposed(by: cell.disposeBag)
```

RX

- Reactive Extensions
- Funcional
- RX.NET
- Diferentes linguagens
- Observable pattern

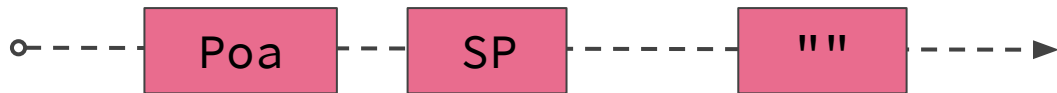
Observable<T>

- Sequência de eventos
- Escutados pelos Observers
- Tipo genérico
- Eventos
 - Error
 - Next -> T
 - Completed
- Tempo de vida



Operators

Observable<String>



`.filter{!$0.isEmpty}`

Observable<String>



Code time :)

Subjects

- Observers and Observables
- `bind()`
- `onNext()`
- `asObservable()` | `asObserver()`

Dispose Bag

```
override fun prepareForReuse() {  
    super.prepareForReuse()  
    self.disposeBag = DisposeBag()  
}
```

```
cell.publicButtonPressed  
    .observeOn(MainScheduler.instance)  
    .subscribe(onNext: { [weak self] _ in  
  
        self?.presentDescription(for: movie)  
  
    }).disposed(by: cell.disposeBag) // cell disposeBag !!!
```

Desafios

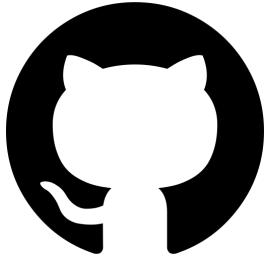
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- Diferentes opiniões
- Curva de aprendizado
- Manutenibilidade

.onNext()

- rx-marin.com
- Livro Ray Wenderlich
- App RxMarbles
- RxCommunity -> RxDataSources, RxFlow
- Projetos exemplos nos repositórios
- Blog Code in a Suit - Adam Borek
- Medium - Michael Long

Obrigada! :)



lauracorssac



Laura Corssac



Link github

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<https://github.com/lauracorssac/RxMovieDB/settings>