

1 인트로 (완성앱 & 구현 기능 소개)

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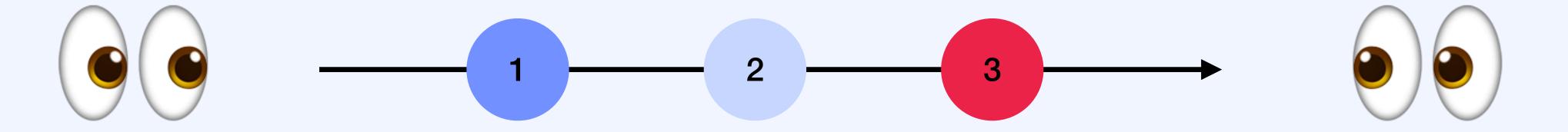
Observable

Observable

- = Observable Sequence
- = Sequence

2 인트로 (완성앱 & 구현 기능 소개)

Observable<Int>





3 인트로 (완성앱 & 구현 기능 소개)

```
Observable<Int>.of(1, 2, 3)
```

Observable<Int>.from([1, 2, 3])

Observable<Int>



```
Observable<Int>.create { observer -> Disposable in
    observer.onNext(1)
    observer.onNext(2)
    observer.onNext(2)
    return Disposables.create()
}
```

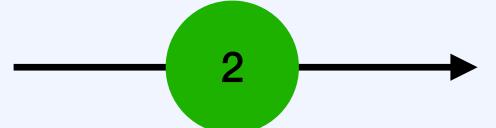
```
//내가 subscription을 하기 전에는
Observable.of("♥") //그는 다만 하나의 Observable에 지나지 않았다

subscribe { //내가 그의 이름을 불러주었을 때
print($0.element) //그는 나에게로 와서 ♥이 되었다
}
disposed(by: disposeBag)
```

기능 소개)

Observable

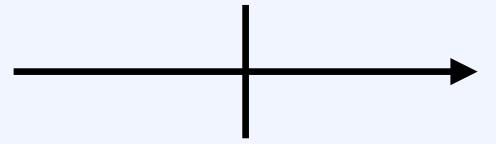
next(element)



error(Swift.Error)



completed

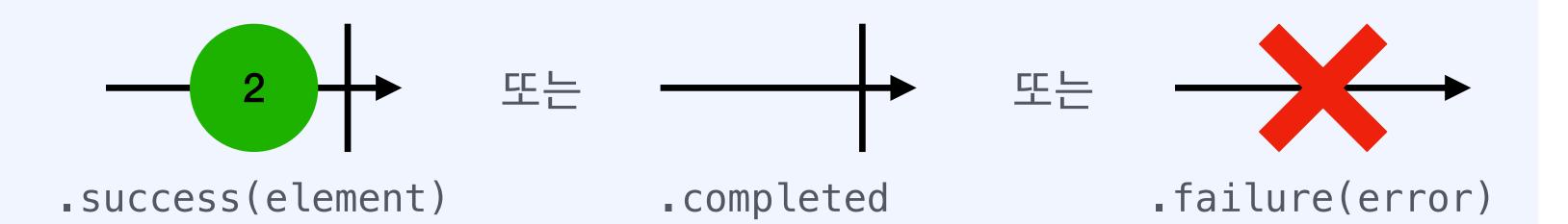


6 인트로 (완성앱 & 구현 기능 소개)

Single<Element>



Maybe<Element>



Completable



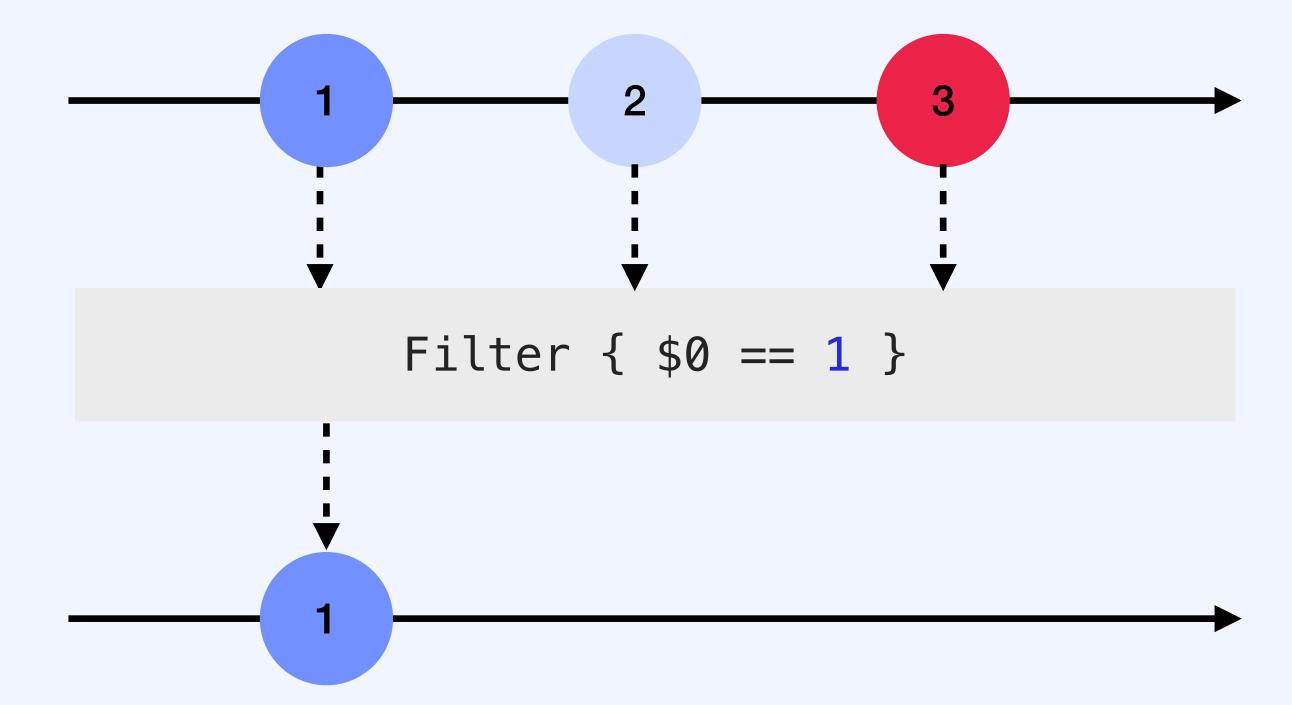
Subject

PublishSubject<T>()

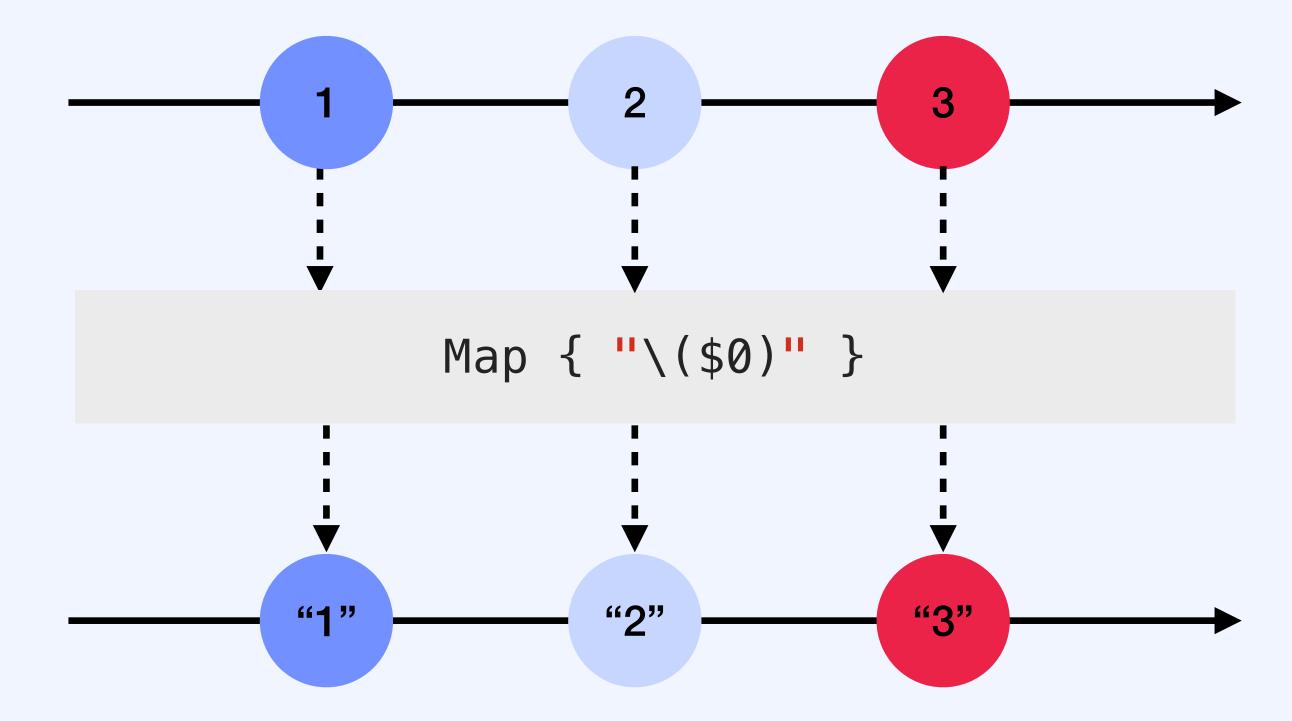
BehaviorSubject<T>(value: T)

ReplaySubject<T>.create(bufferSize: Int)

Filtering Operators

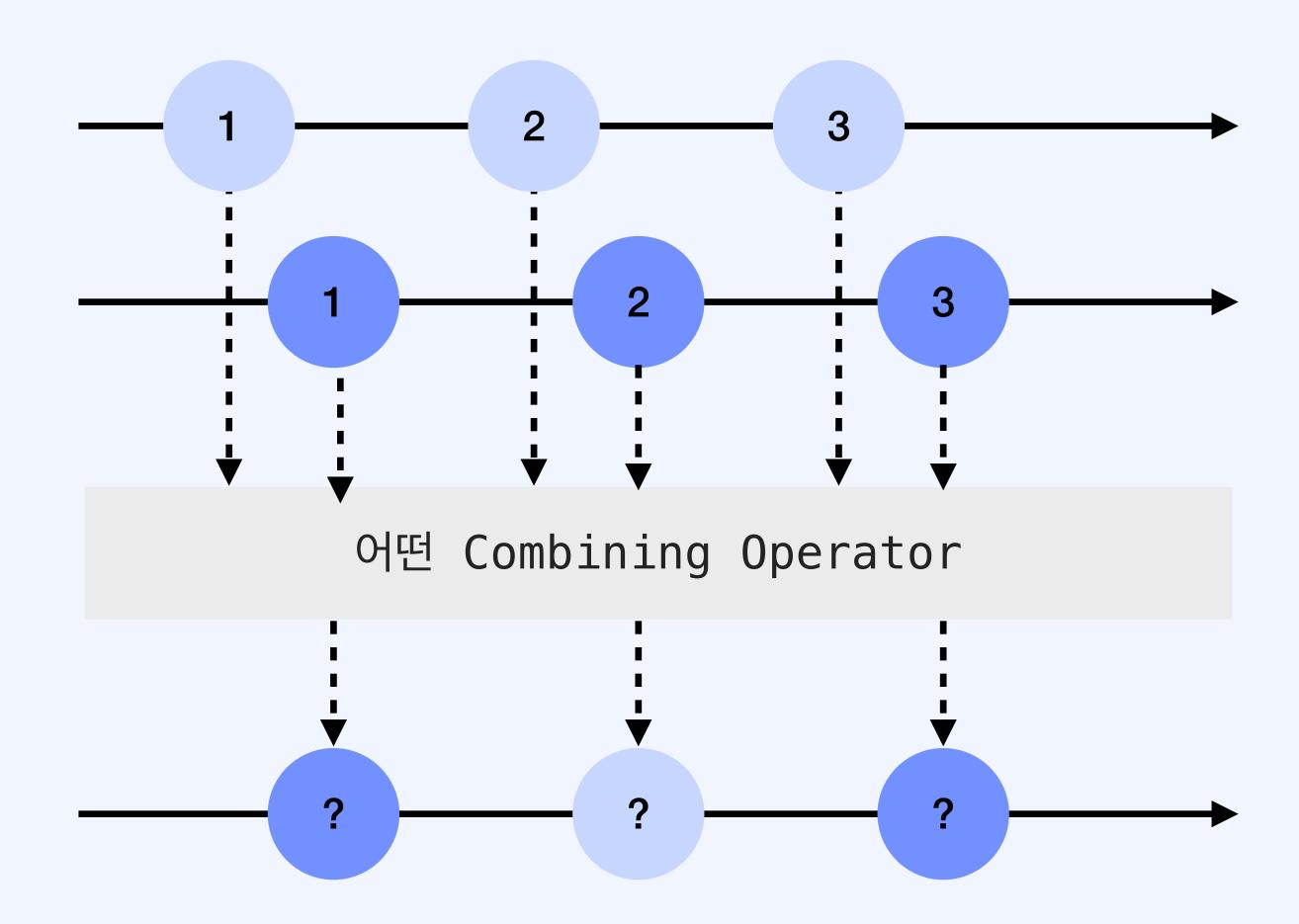


Transforming Operators



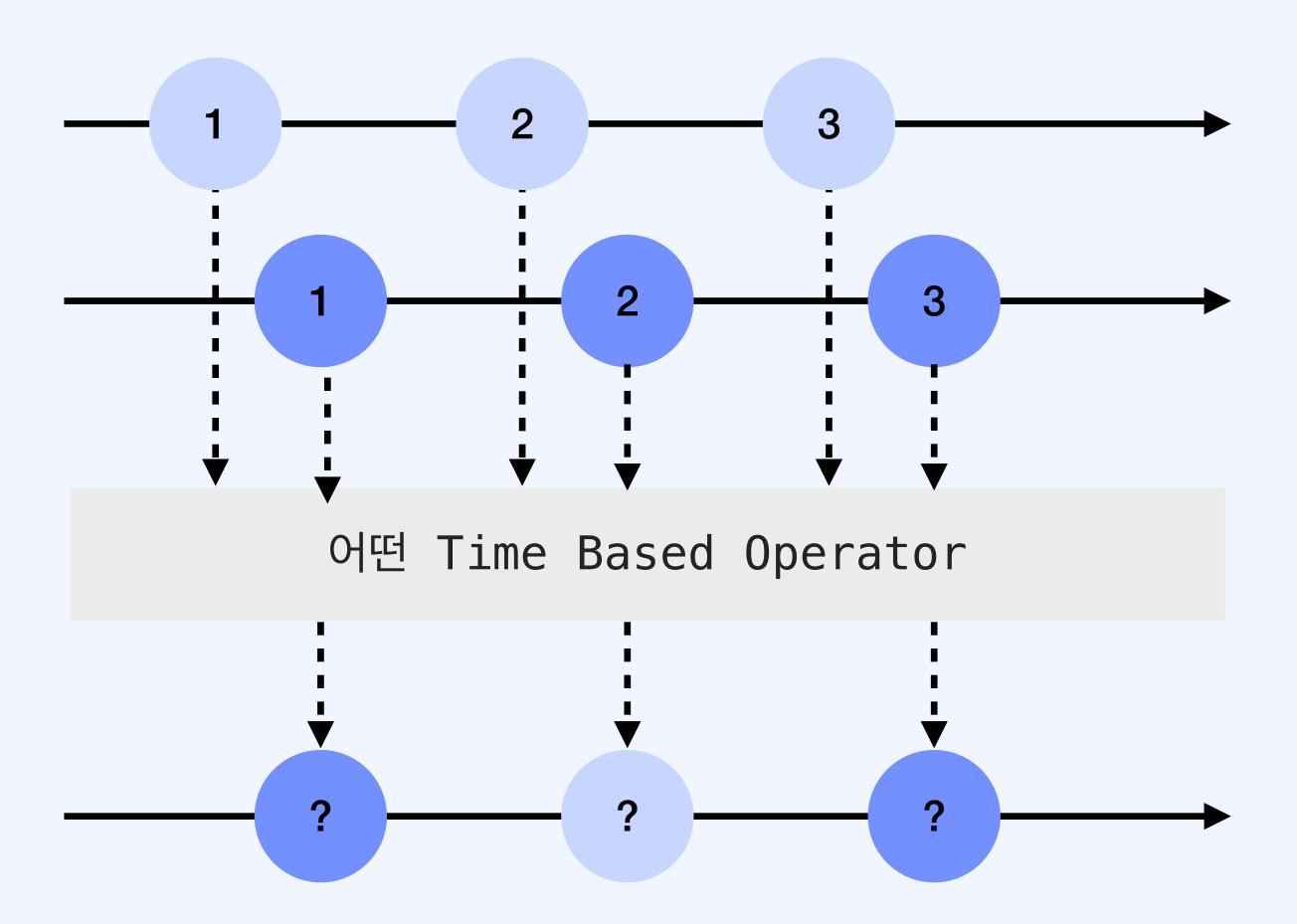
기능 소개)

Combining Operators



1 1 인트로 (완성앱 & 구현 기능 소개)

Time Based Operators



12 인트로 (완성앱 & 구현

기능 소개)

RxCocoa

```
let searchResults = searchBar.rx.text
    .distinctUntilChanged()
    .flatMapLatest {
        //어떤 로직
    }

searchResults
    .bind(to: tableView.rx.items) {
        //cell 설정
    }
    .disposed(by: disposeBag)
```

	●●●● 🛜 09:41						→ 100% → +		
∢ Rx	Exam	ples	GitH	ub se	earch				
Q Repository search									
Q W E R T Y U I O P									
Α	s	D	F	G	Н	J	К	L	
•	Z	X	С	V	В	N	М	\otimes	
123	(1)	<u>Q</u>	space				Se	arch	

Error 처리

catch



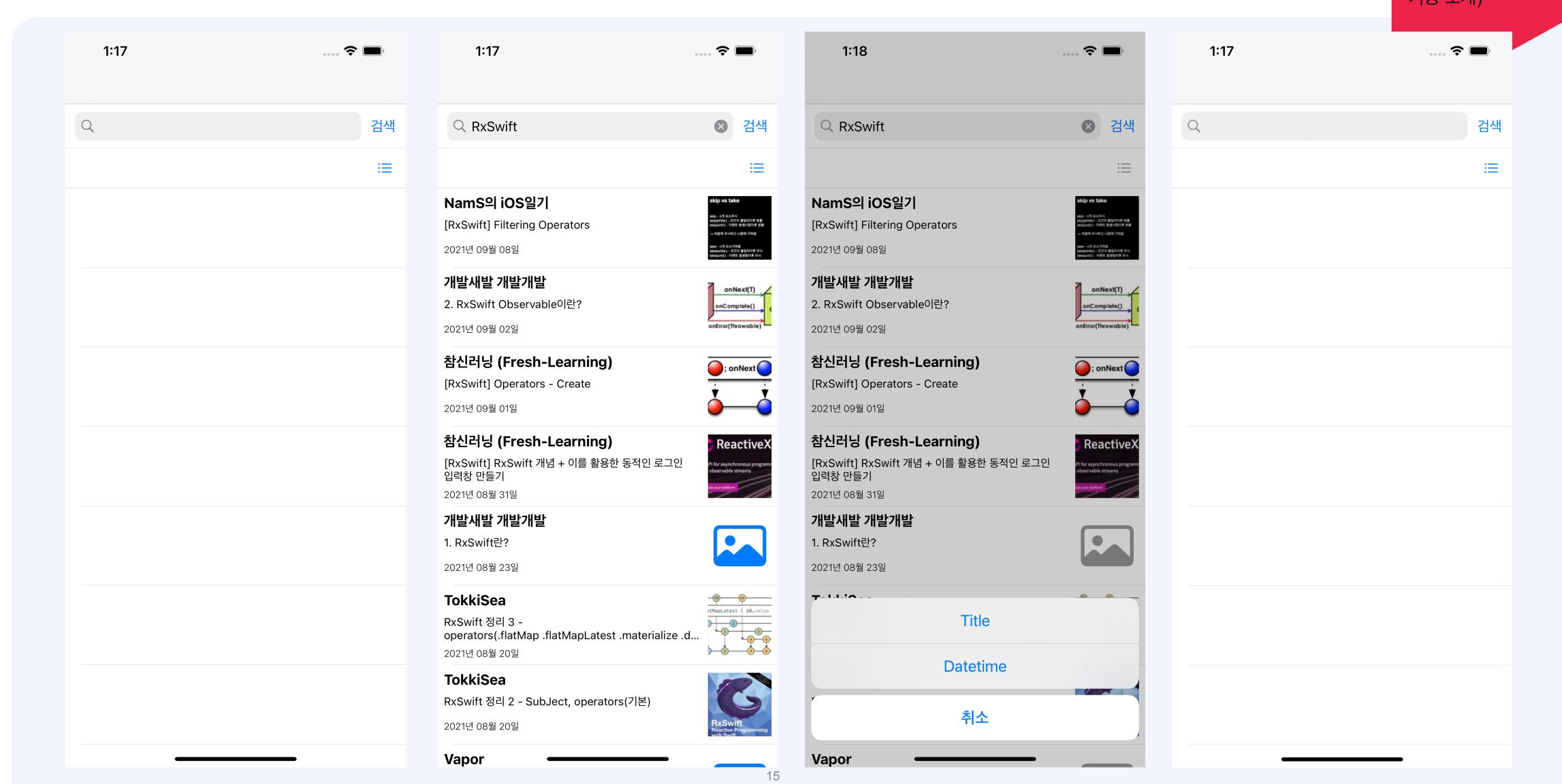
잡았다 요놈

retry



완성 앱

1 4 인트로 (완성앱 & 구현 기능 소개)





Combining Operator



3 Time Based Operator



4 RxCocoa 알아보기

1 RxCocoa 알아보기

Cocoa Framework



Foundation

ApplicationKit(UIKit)

RxCocoa



Binder<Value>



Driver<Element>
Signal<Element>

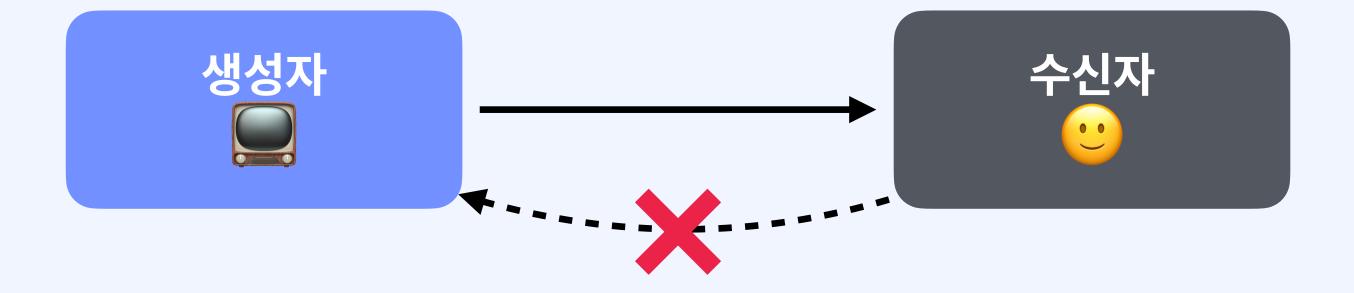


extension Reactive where Base: T {}

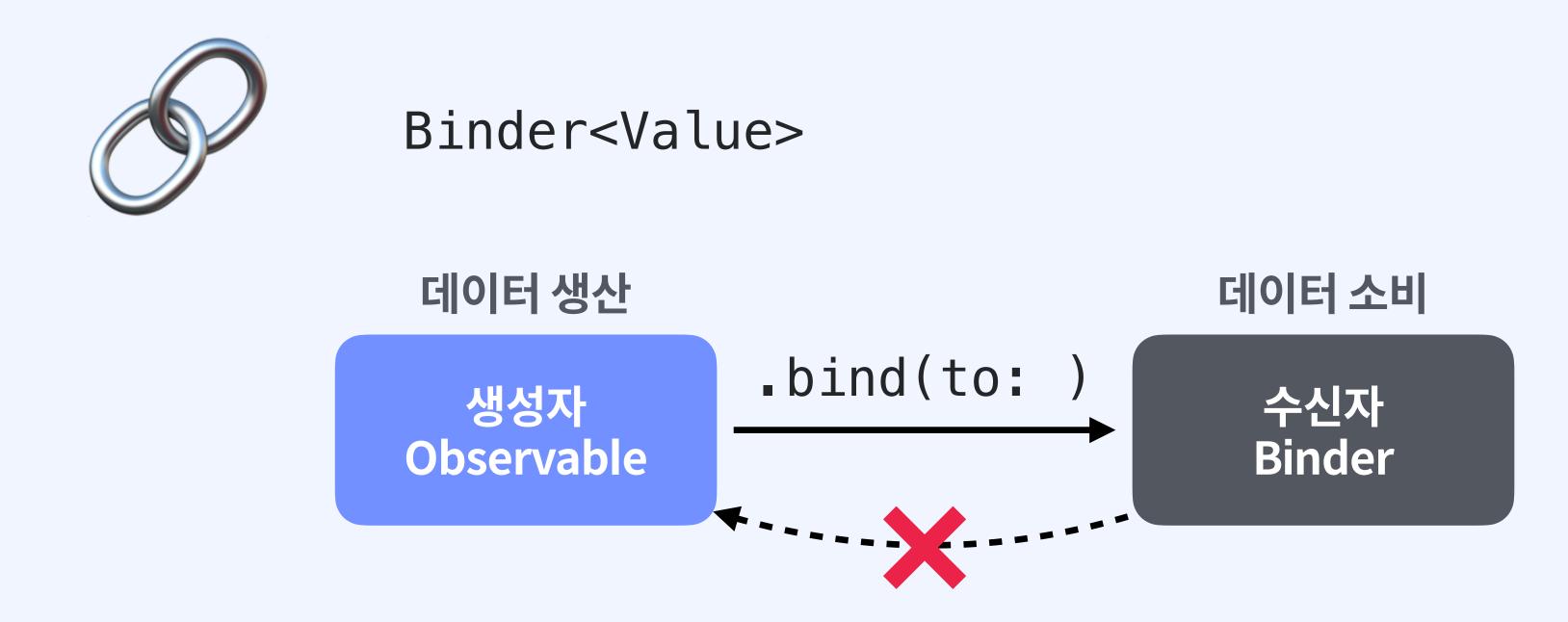
Binder



Binder<Value>

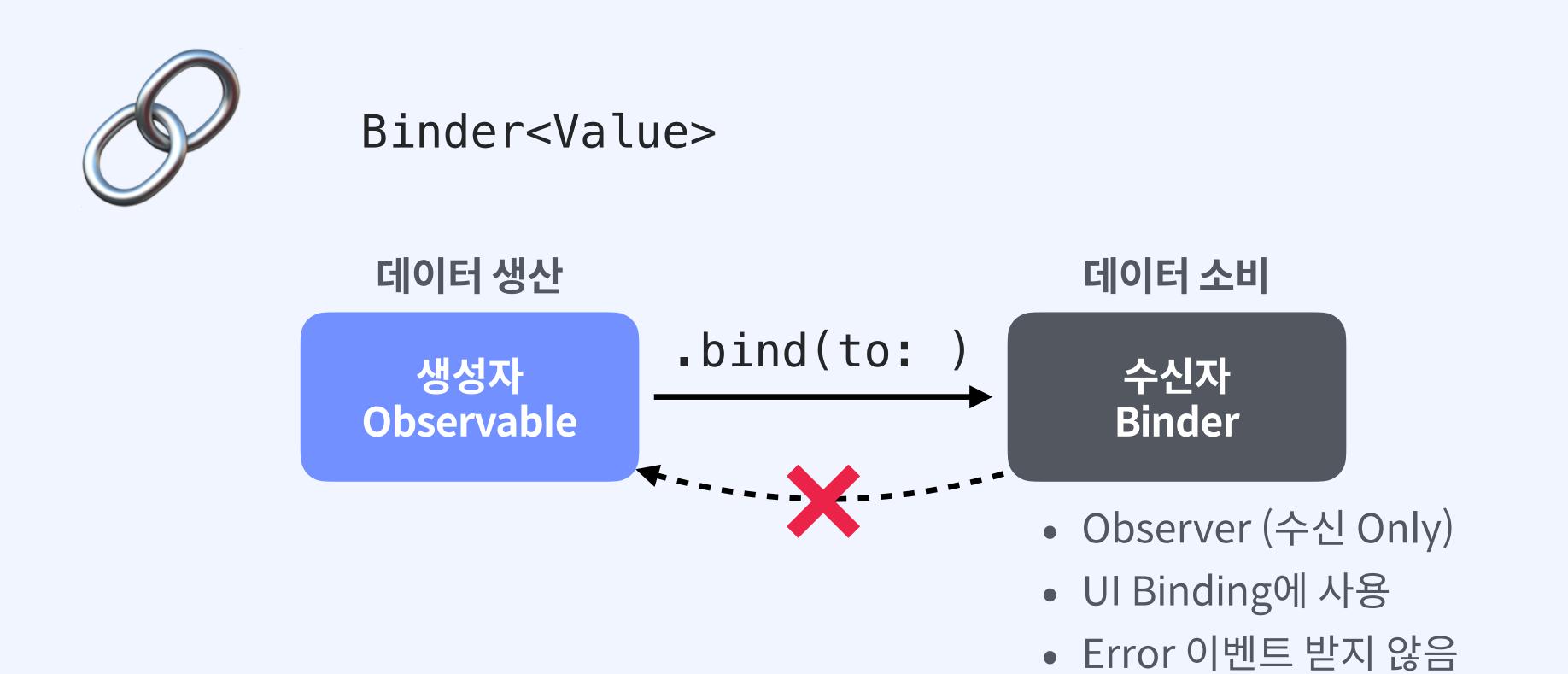


Binder



• Main Thread에서 실행되는 것을 보장

Binder



Binder



Binder<Value>

```
textField.rx.text
    observe(on: MainScheduler.instance)
    subscribe(onNext: {
        label.text = $0
    })
    disposed(by: disposeBag)
```

입력하세요

Binder



Binder<Value>

```
textField.rx.text
    observe(on: MainScheduler.instance)
    subscribe(onNext: {
        label.text = $0
    })
    disposed(by: disposeBag)
```

입력하세요

```
textField.rx.text
    .bind(to: label.rx.text)
    .disposed(by: disposeBag)
```

8 RxCocoa 알아보기

Traits



Driver<Element>
Signal<Element>

- 에러를 방출하지 않는 특별한 observable
- 모든 과정은 main thread에서 이뤄진다.
- 스트림 공유가 가능하다.
- Driver: 초기값 || 최신값 replay
- Signal: 구독한 이후에 발생하는 값 전달

Rx Extension



extension Reactive where Base: T {}

```
extension Reactive where Base: UIView {
    var sizeToFit: Binder<Void> {
        return Binder(base) { base, _ in
            base.sizeToFit()
        }
    }
}
```



에러 관리



- 인터넷 연결 없음: 오프라인
- 잘못된 입력: 잘못된 타입, 길이, 크기, 내용
- API, HTTP 에러: 400, 500, JSON Codable

2 Error 처리하기

RxSwift의 에러 관리

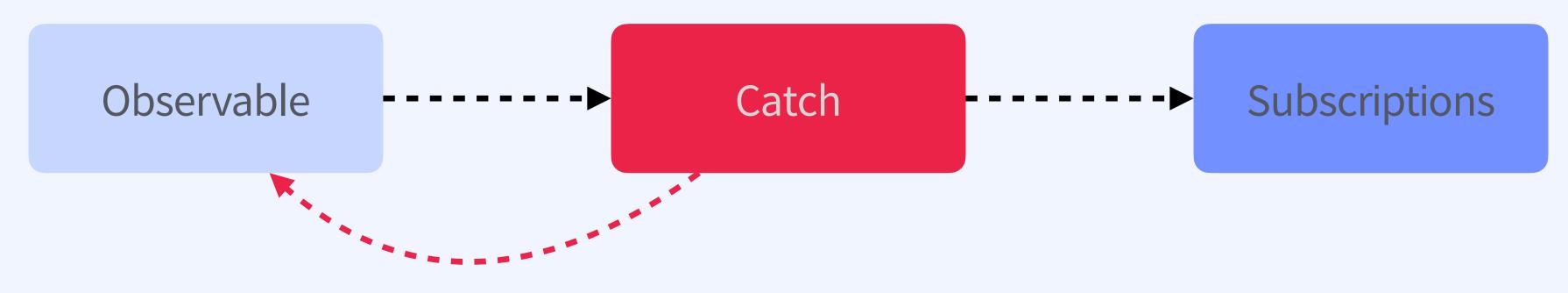
catch

기본값defaultValue으로 error 복구하기



retry

제한적 또는 무제한으로 재시도Retry 하기



3 Error 처리하기

Catch

```
func catch(_ handler:) -> RxSwift.Observable<Self.Element>
```

```
enum MyError: Error {
    case anError
    case criticalError
Observable create {
    $0.onError(MyError.anError)
    return Disposables.create()
.catch { error in
    switch error as! MyError {
    case .anError:
        return .just("괜찮아요")
    case .criticalError:
        return .just("뻥!")
subscribe {
    print($0)
disposed(by: disposeBag)
```



<mark>4</mark> Error 처리하기

CatchAndReturn

```
func catchAndReturn(_ element: Self.Element) -> RxSwift.Observable<Self.Element>
enum MyError: Error {
    case an Error
Observable create {
    $0.onError(MyError.anError)
    return Disposables.create()
■ catchAndReturn("에러싫어")
subscribe {
   print($0)
                                                      next(에러싫어)
                                                      completed
.disposed(by: disposeBag)
```

Retry

```
func retry() -> RxSwift.Observable<Self.Element>
          enum MyError: Error {
              case anError
              case criticalError
          Observable.create {
              $0.onError(MyError.anError)
                                                          RxSwift.AnyObserver...
              return Disposables.create()
                                                          RxSwift.(unknown co...
          .retry()
          .subscribe {
              print($0)
          .disposed(by: disposeBag)
```

Retry

```
func retry(_ maxAttemptCount: Int) -> RxSwift.Observable<Self.Element>
        enum MyError: Error {
            case anError
            case criticalError
        Observable.create {
            $0.onError(MyError.anError)
                                                        (52642 times)
            return Disposables.create()
                                                        (52642 times)
        .retry(10000)
         .subscribe {
            print($0)
        .disposed(by: disposeBag)
                                                         Unhandled error happened: anError
```

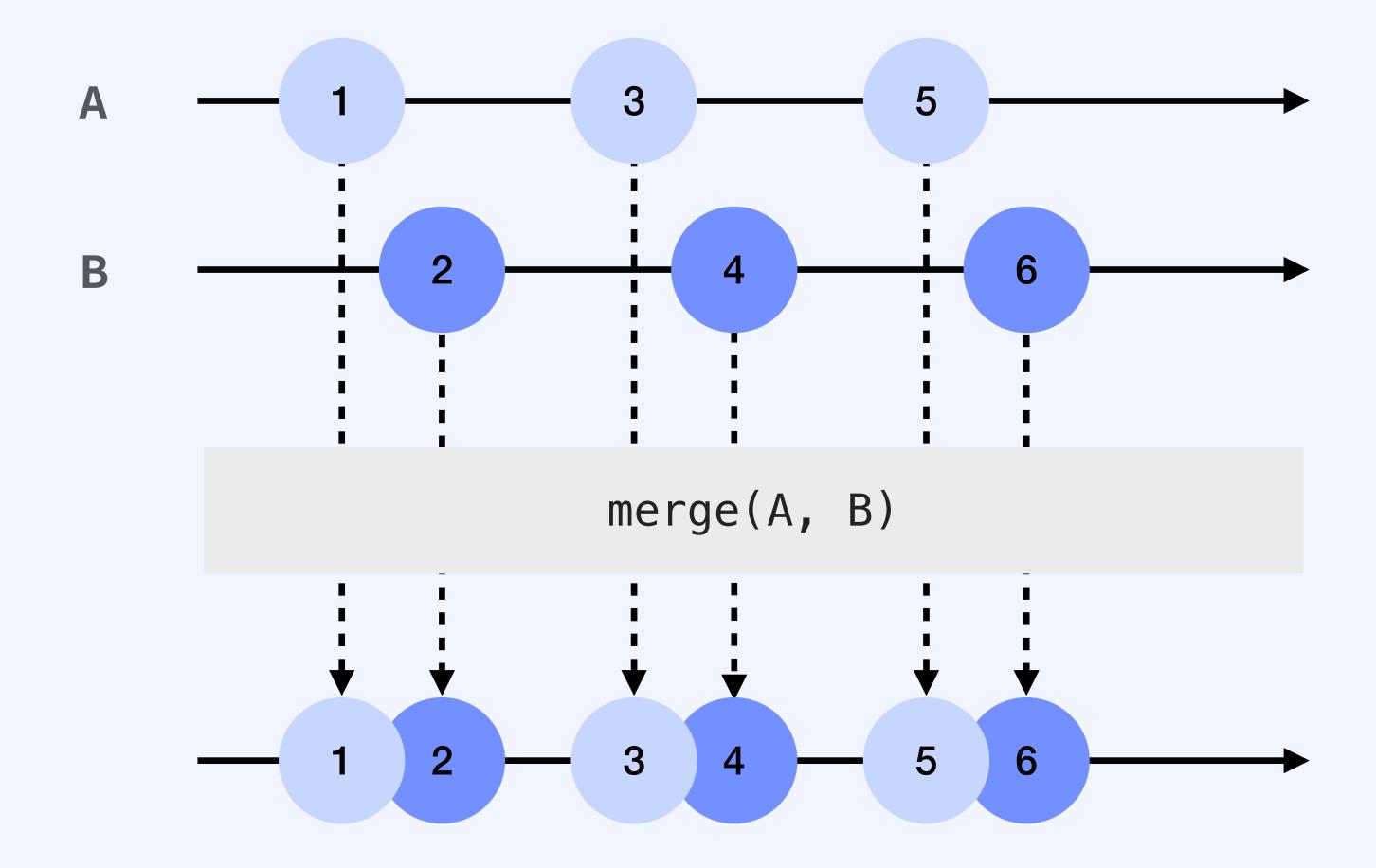
6 기본 UI 그리기

7 Kakao API 연결하기

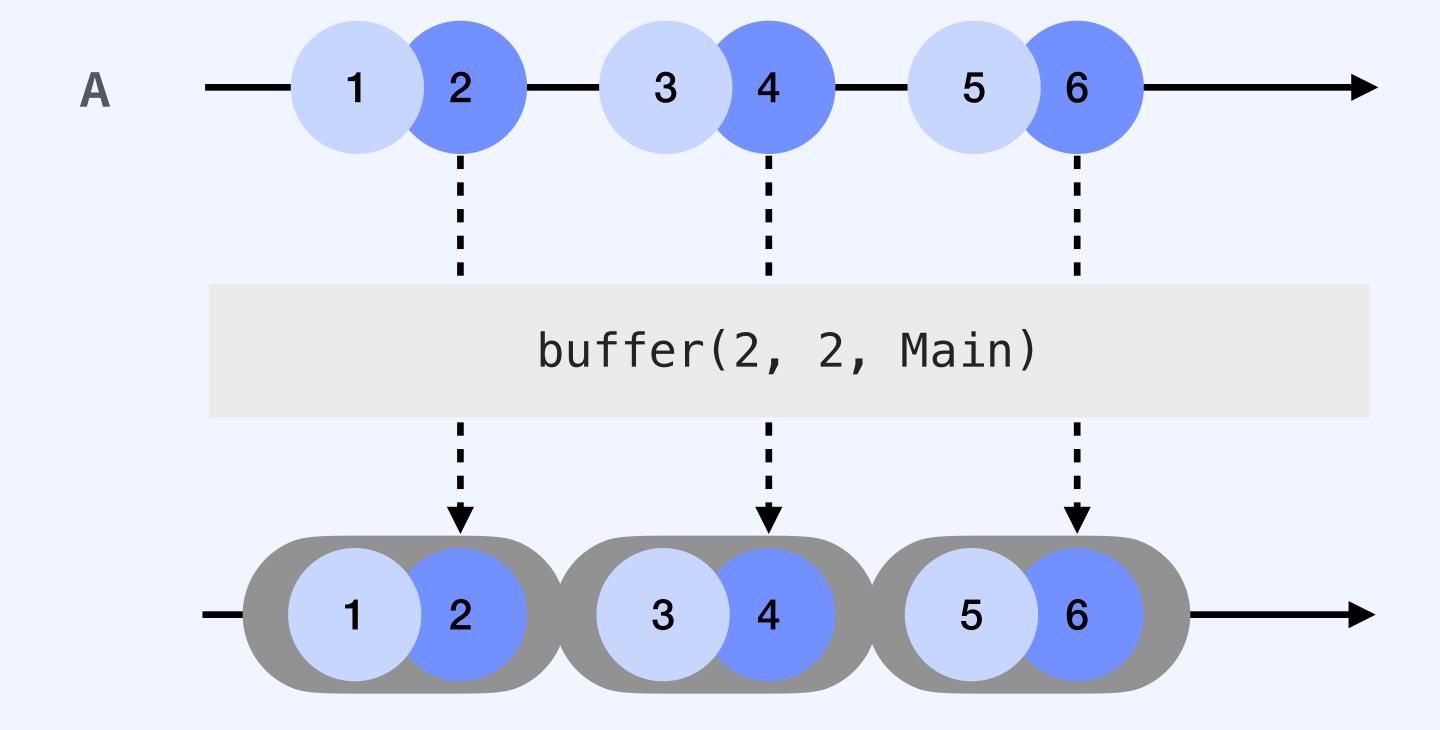
8 데이터 처리하기

9 아웃트로 (정리, 현업 예시)

Combining Operator



Time Based Operator



RxCocoa



에러 처리

catch



잡았다 요놈

retry



정리

