

# Chaining Observables

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## Observable – typical type

```
func oneObservable() -> Observable<Some> {  
    return Observable<Some>.create { observer in  
  
        return Disposables.create()  
    }  
}
```

# Observable – Observable of Observable

```
func oneObservable() -> Observable<Some> {  
    return Observable<Some>.create { observer in  
        innerObservable()  
        .subscribe(onNext: {  
            observer.onNext(Some)  
            observer.onCompleted()  
        })  
        .disposed()  
        return Disposables.create()  
    }  
}
```

# Observable – merge

```
Observable.from([oneObservable, twoObservable]).merge()  
  .subscribe()  
  .disposed()
```

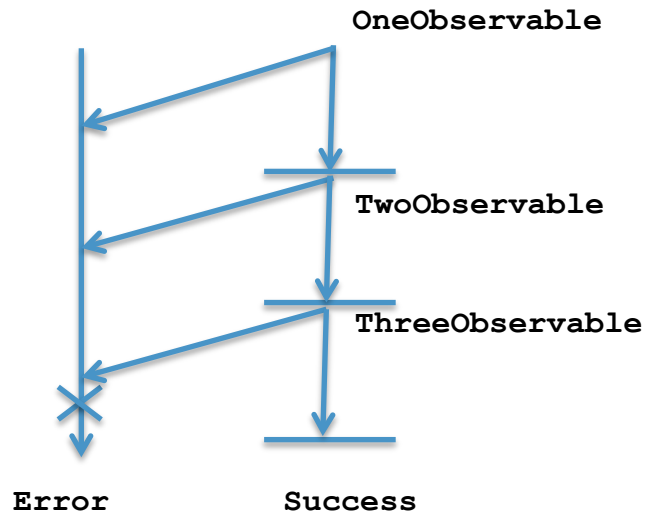
## Observable – zip

```
Observable.zip(oneObservable, twoObservable)  
  .subscribe()  
  .disposed()
```

# Observable – Observable of ZippedObservable

```
Func zippedOneTwoObservable() -> Observable<Some> {  
    return Observable<Some>.create { observer in  
        Observable.zip(oneObservable, twoObservable)  
            .subscribe(onNext: {  
                observer.onNext(Some)  
                observer.onCompleted()  
            })  
            .disposed()  
        return Disposables.create()  
    }  
}
```

# Chaining Observables



# Chaining Observables – typical format

```
OneObservable()  
  .filter {  
  
}  
  
  .flatMapLatest { _ -> Observable<Two>  
    TwoObservable()  
  
}  
  
  .filter {  
  
}
```

```
  .flatMapLatest { _ -> Observable<Three>  
    ThreeObservable()  
  
}  
  
  .subscribe()  
  
  .disposed()
```



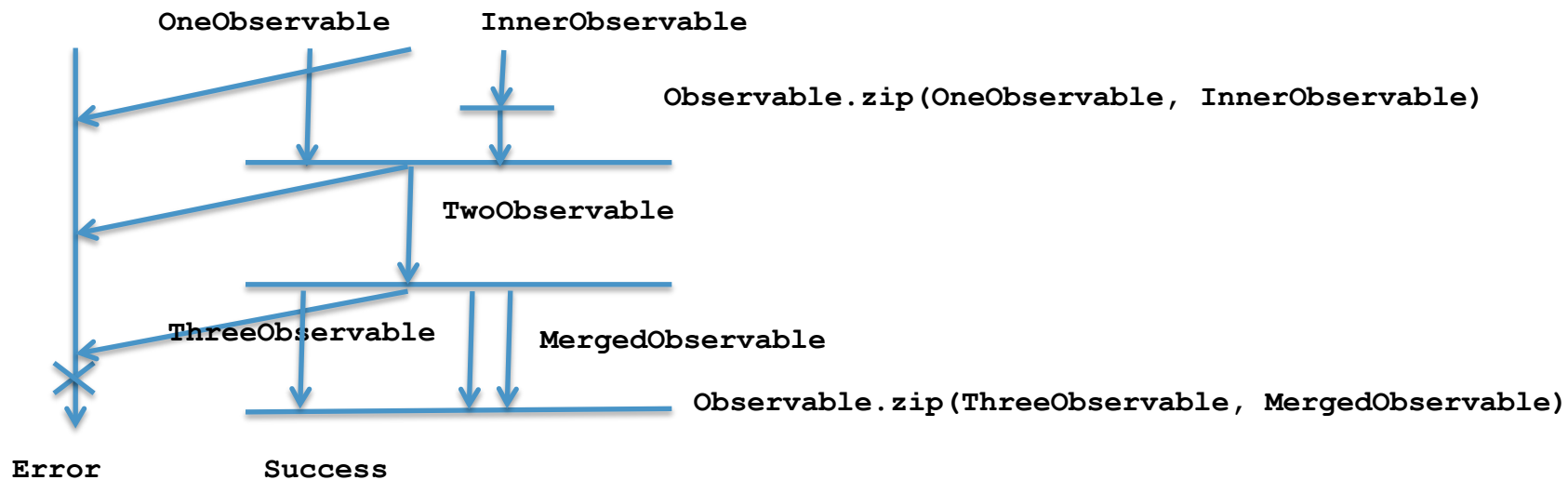
# Chaining Observables

## - How to use the result of previous observable chain?

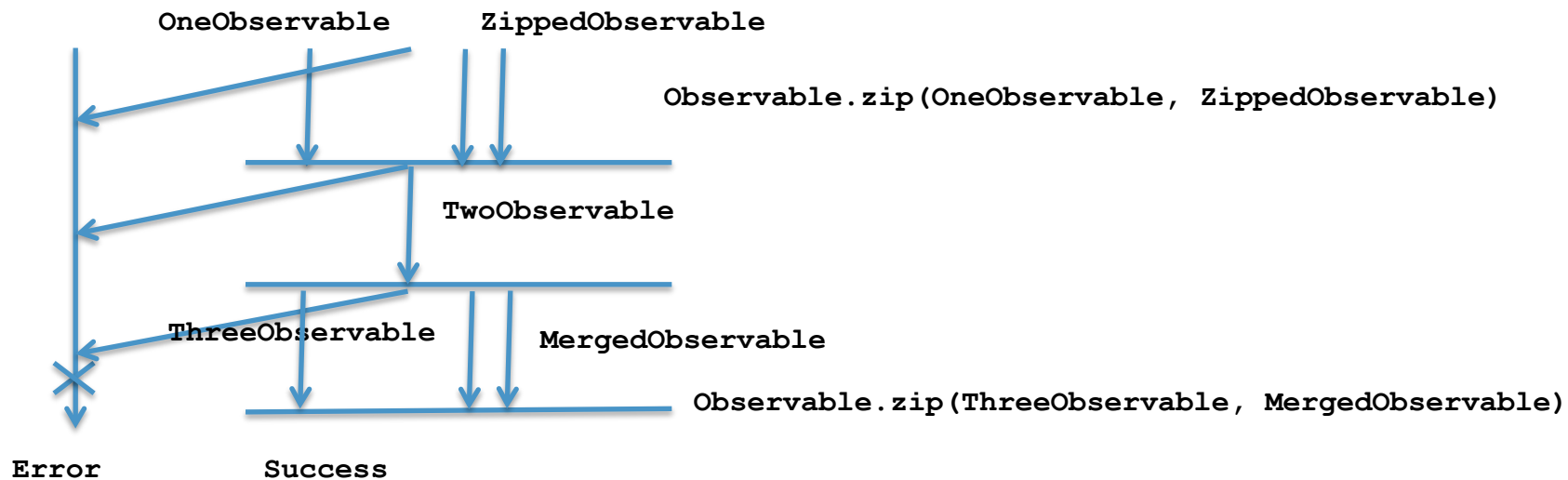
```
OneObservable()  
  .flatMapLatest { One -> Observable<Two>  
    if Some(One) {  
      return Observable<Two>  
    } else {  
      TwoObservable()  
    }  
  }.filter {  
  
}
```

```
.flatMapLatest { _ -> Observable<Three>  
  ThreeObservable()  
}  
  .subscribe()  
  .disposed()
```

# Chaining Observables – innerObservable, merge, zip



# Chaining Observables – merge, zip



## Chaining Observables – merge, zip

```
Observable.zip(OneObservable(), ZippedObservable())
```

```
.filter {
```

```
}
```

```
.flatMapLatest { _ -> Observable<Two>
```

```
    TwoObservable()
```

```
}
```

```
.filter {
```

```
}
```

```
.flatMapLatest { _ -> Observable<Three>
```

```
    Observable.zip(ThreeObservable(),  
    MergedObservable())
```

```
}
```

```
.subscribe()
```

```
.disposed()
```