Chaining Observables

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Observable – typical type

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

        return Disposables.create()
    }
}
```

Observable – Nested Observable

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

Observable – merge

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

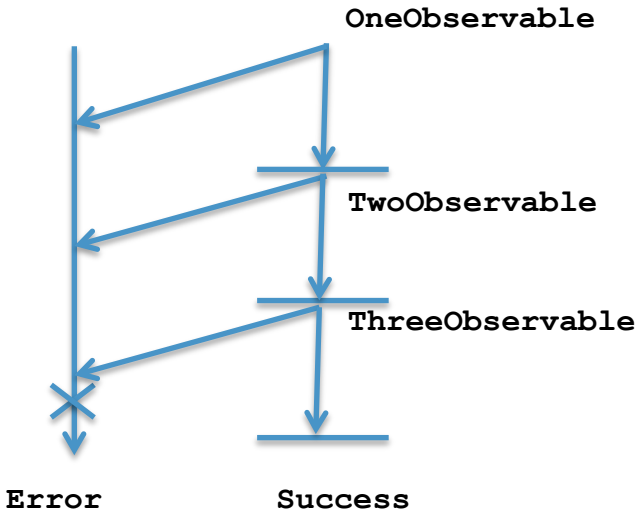
Observable – zip

```
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

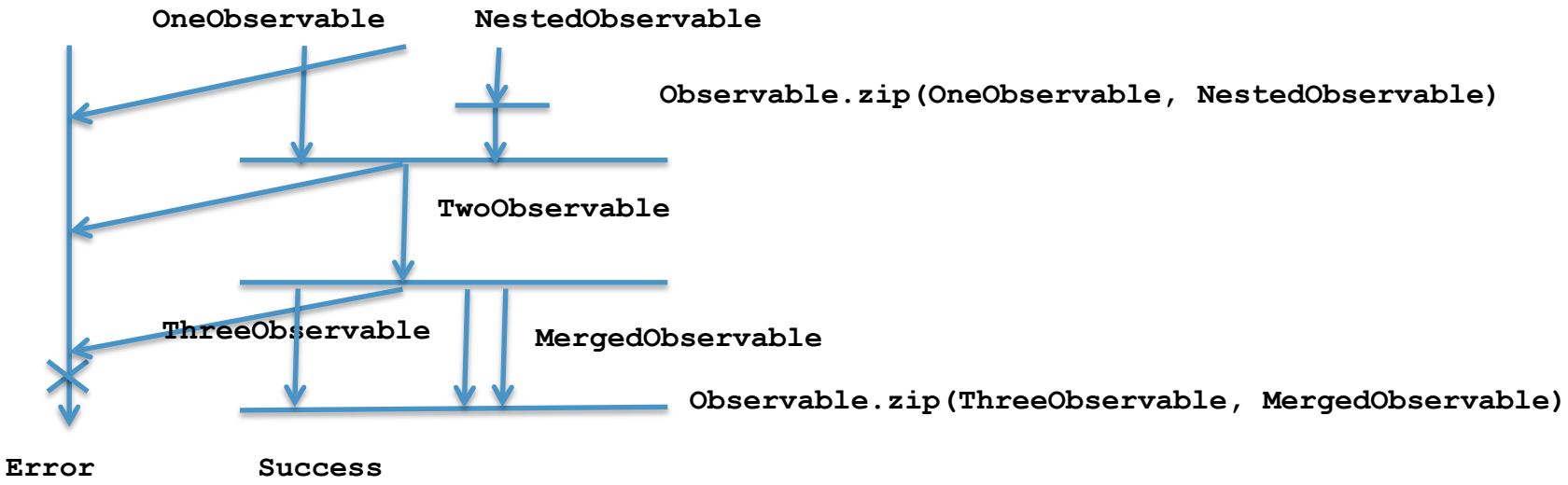
```
OneObservable()
.filter {


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


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

Chaining Observables
- How to use the result of previous observable chain?

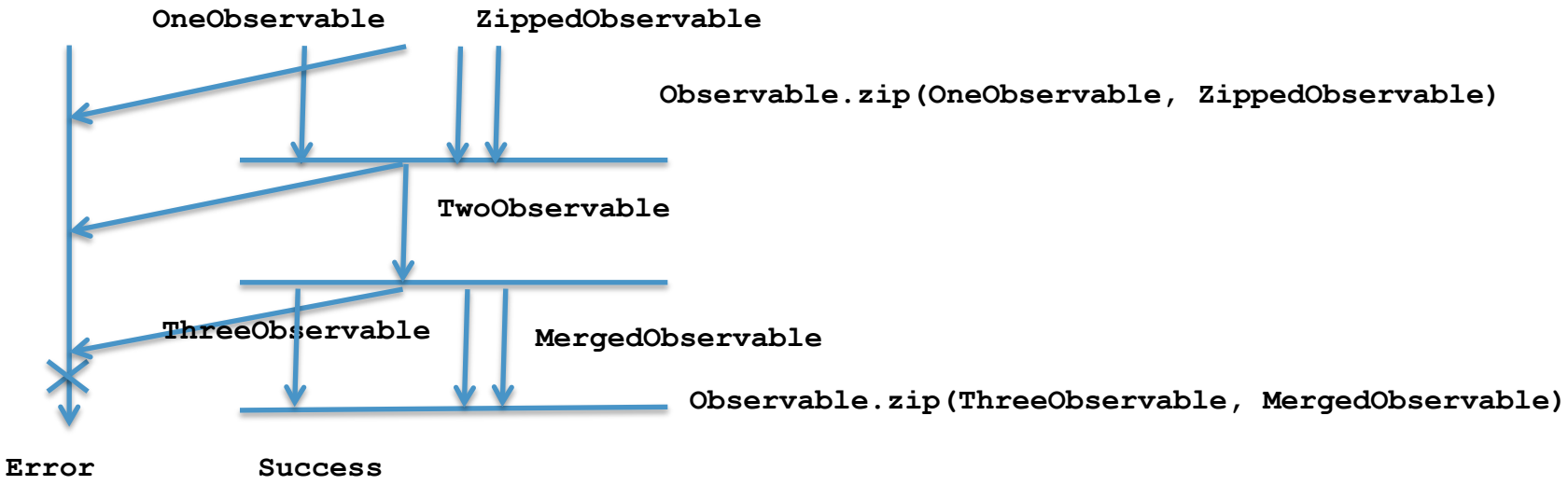
```
OneObservable()
.flatMapLatest { One -> Observable<Two>
            if Some(One) {
                        return Observable<Two>
            } else {
                        TwoObservable()
            }
}.filter {


}
```

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

Chaining Observables – Nested Observable, 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()
```