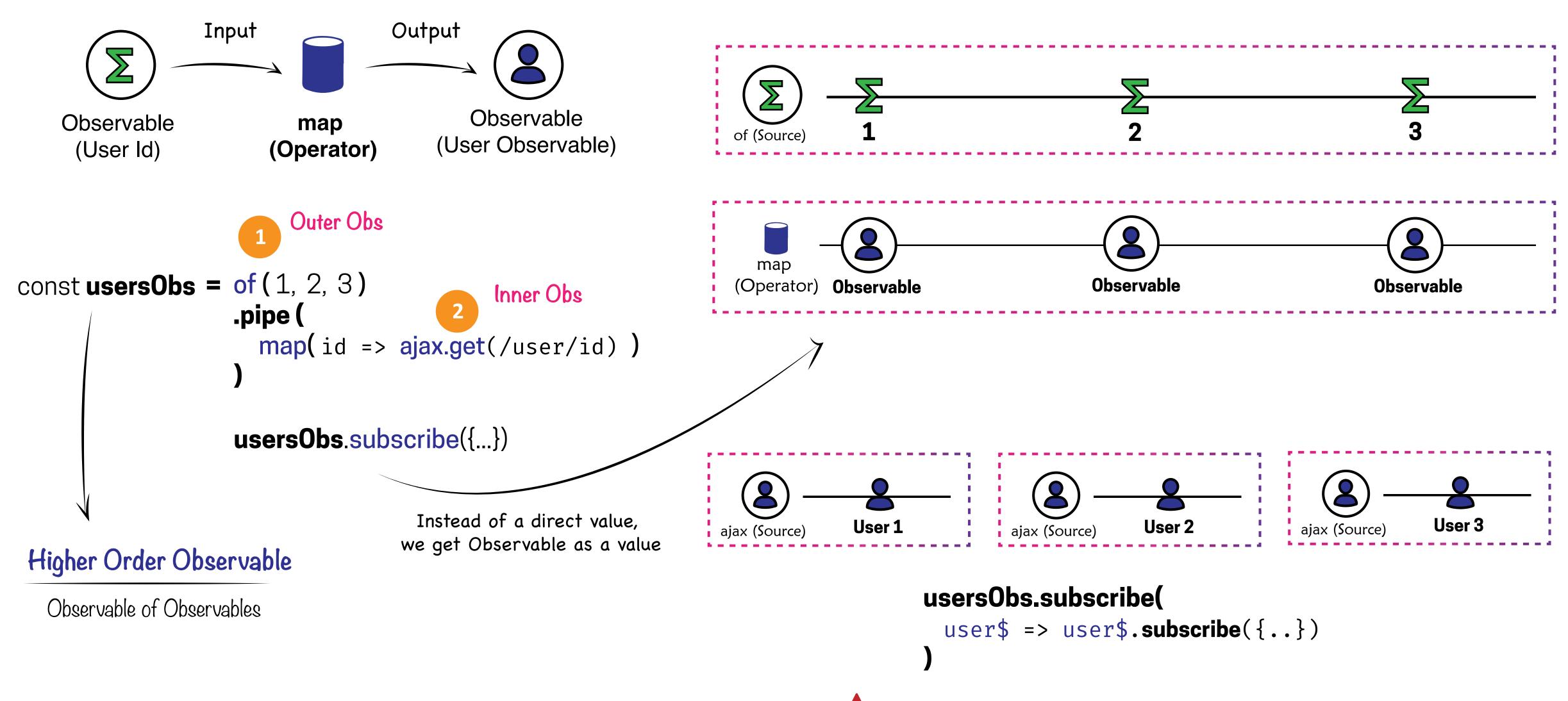
Higher Order Observables



Although it is an anti-pattern, but in upcoming videos we will see the best approach to handle Higher-Order Observables

Examples

```
Outer Obs
                                                                                                              Outer Obs
const rangesObs = of (1, 2, 3)
                                                                Output
                                                                                const timersObs = interval (1000)
                                                Inner Obs
                                                                                                                                 Inner Obs
                       .pipe (
                                                                                                      .pipe (
                                                                 1, 2, 3
                         map(n \Rightarrow range(n, 3))
                                                                                                        map(v => timer(v * 1000))
                                                                 2, 3, 4
                       rangesObs.subscribe(
                                                                                                      timersObs.subscribe(
                                                                3, 4, 5
                         range$ => range$.subscribe({..})
                                                                                                        timer$ => timer$.subscribe({..})
                                                                                                           Output
                          Outer Obs
                                                                                                    O (for interval 0 with timer delay of 0)
const usersObs = from ( [url1, url2, url3] )
                                                                  Output
                    .pipe (
                                                               Url1 Response
                      map(url => ajax.getJSON(url) )
                                                                                                    0 (for interval 1 with timer delay of 1000)
                                                               Url2 Response
                                              2 Inner Obs
                                                                                                    . . . . . . . .
                                                               Url3 Response
                                                                                                    0 (for interval 2 with timer delay of 2000)
                    usersObs.subscribe(
                      res$ => res$.subscribe({..})
```

Higher Order Mapping Operators

- 1. concatMap
- 2. mergeMap
- 3. switchMap
- 4. exhaustMap

$$O_H \rightarrow O_I(V_T) \rightarrow V_T$$

Where

Oн is Higher Order Observable

Or is Inner Observable

T is Transformation

VT is Transformed Value

Higher Order Flattening Operators

- 1. concatAll
- 2. mergeAll
- 3. switchAll
- 4. exhaustAll
- 5. combineLatestAll

$$O_H \rightarrow O_I(V) \rightarrow V$$

Where

Oн is Higher Order Observable

Or is Inner Observable

V is Value



AJIT

Youtube Channel https://www.youtube.com/c/ComputerBabaOfficial

Twitter https://twitter.com/akacomputerbaba

Discord Server https://discord.gg/9V4VTDM