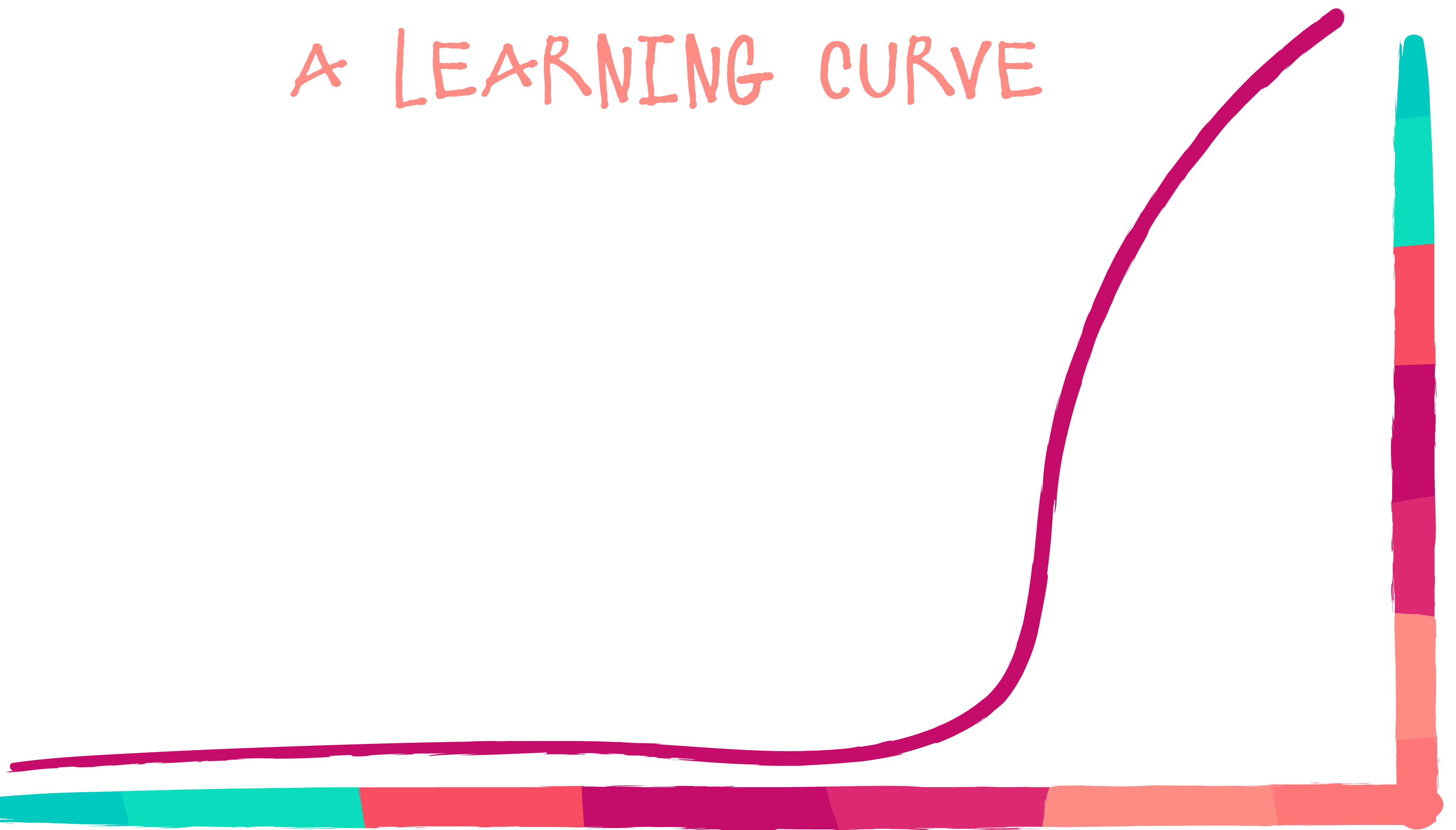
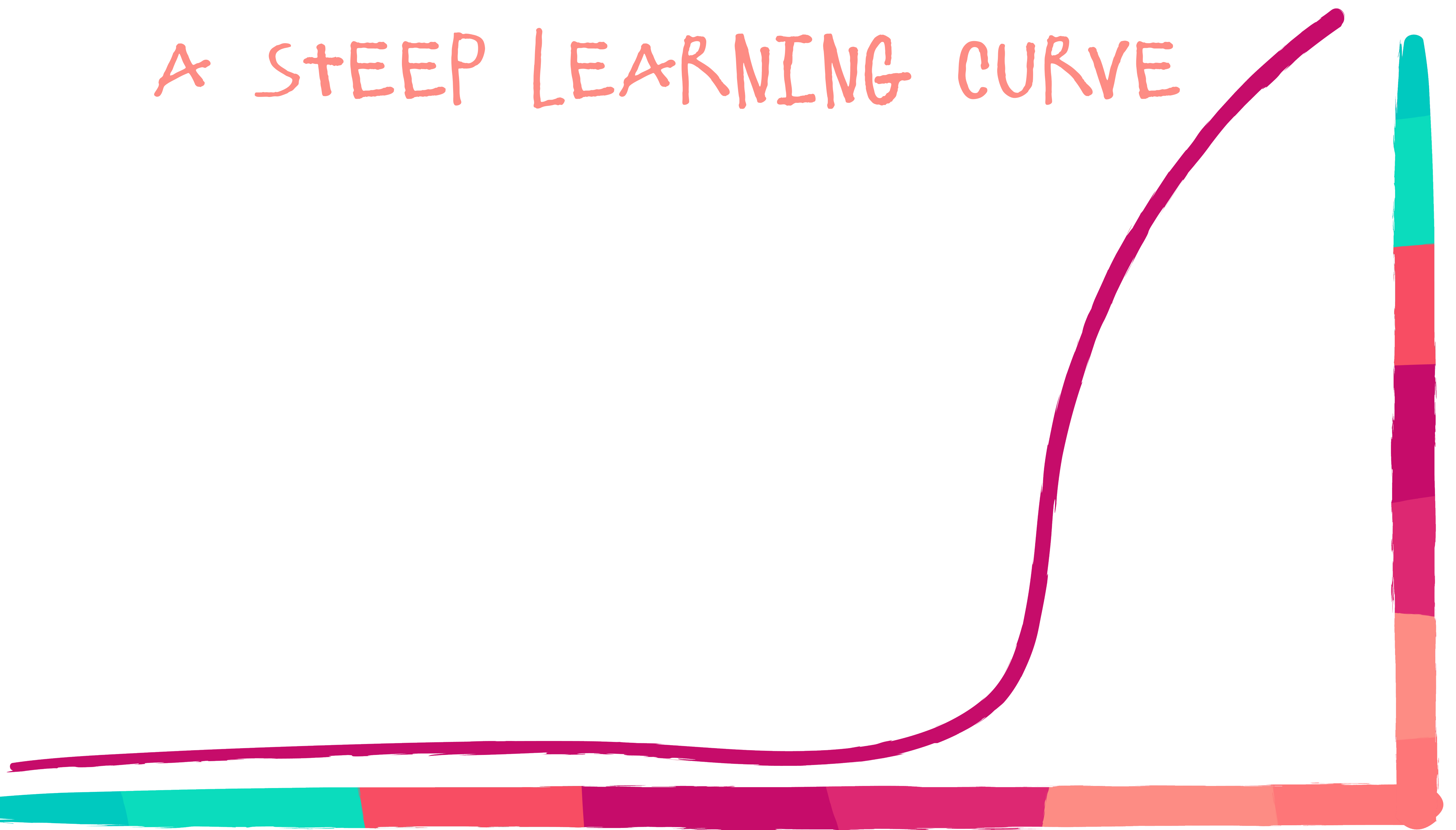


A LEARNING CURVE

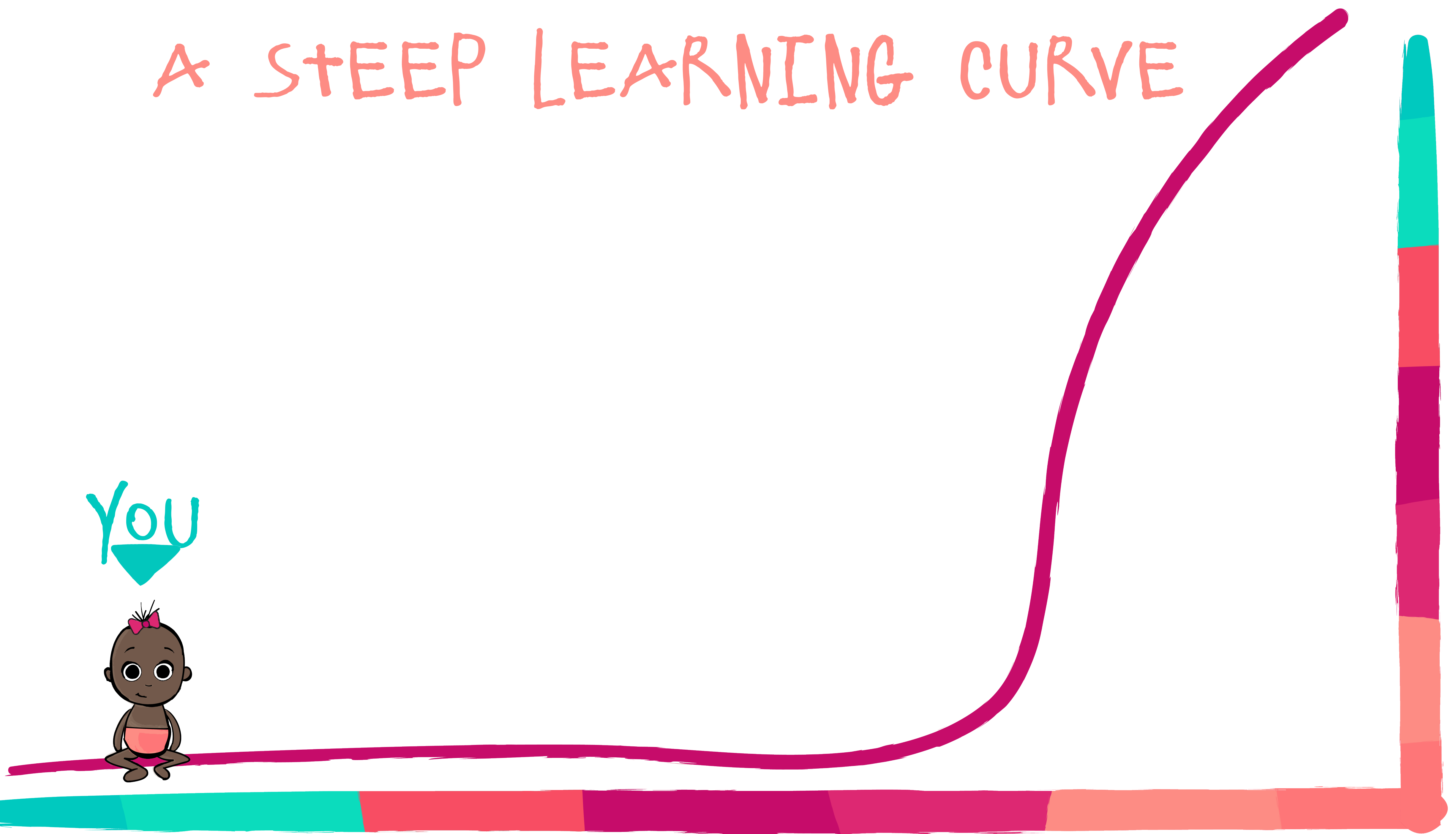
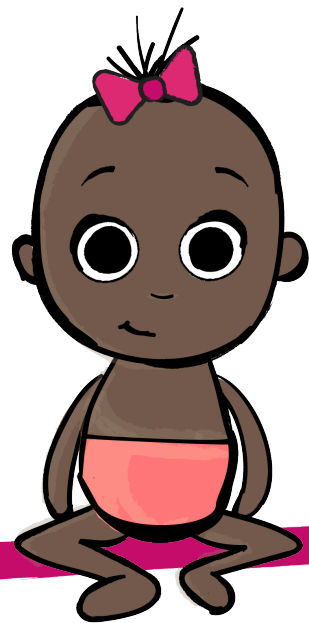


A STEEP LEARNING CURVE



A STEEP LEARNING CURVE

You

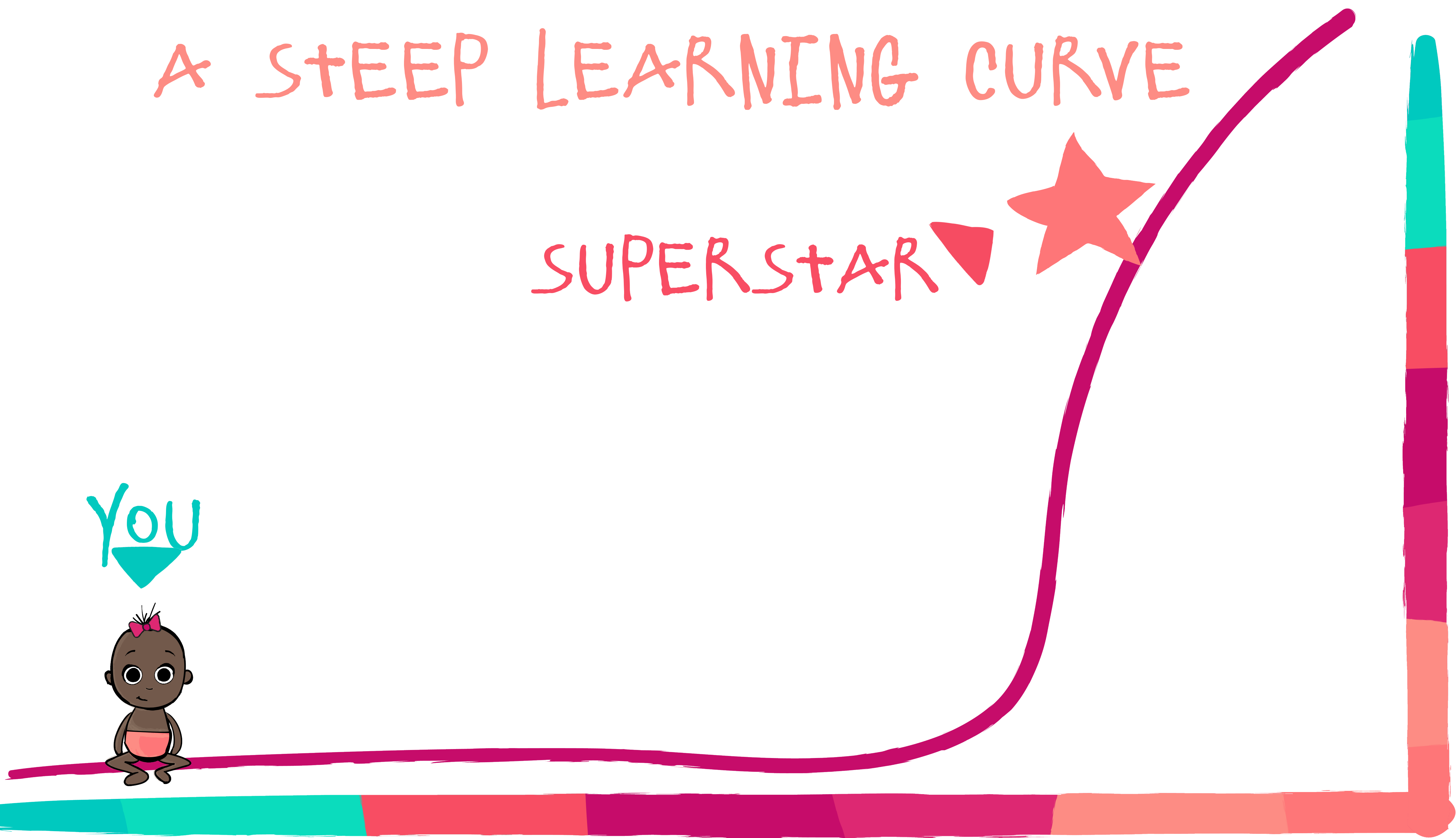
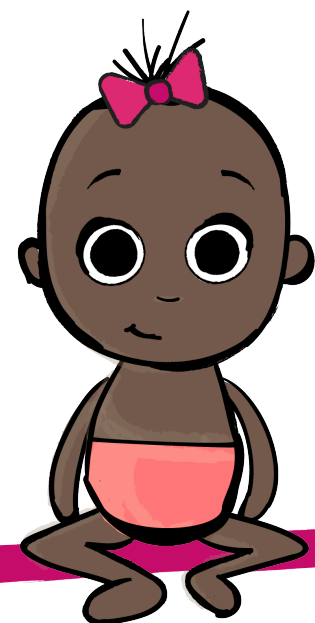


A STEEP LEARNING CURVE

SUPERSTAR



You



A STEEP LEARNING CURVE

SUPERSTAR



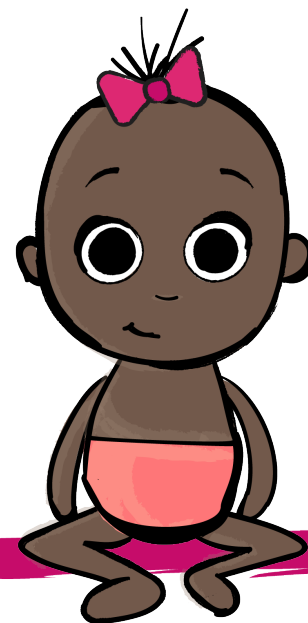
You



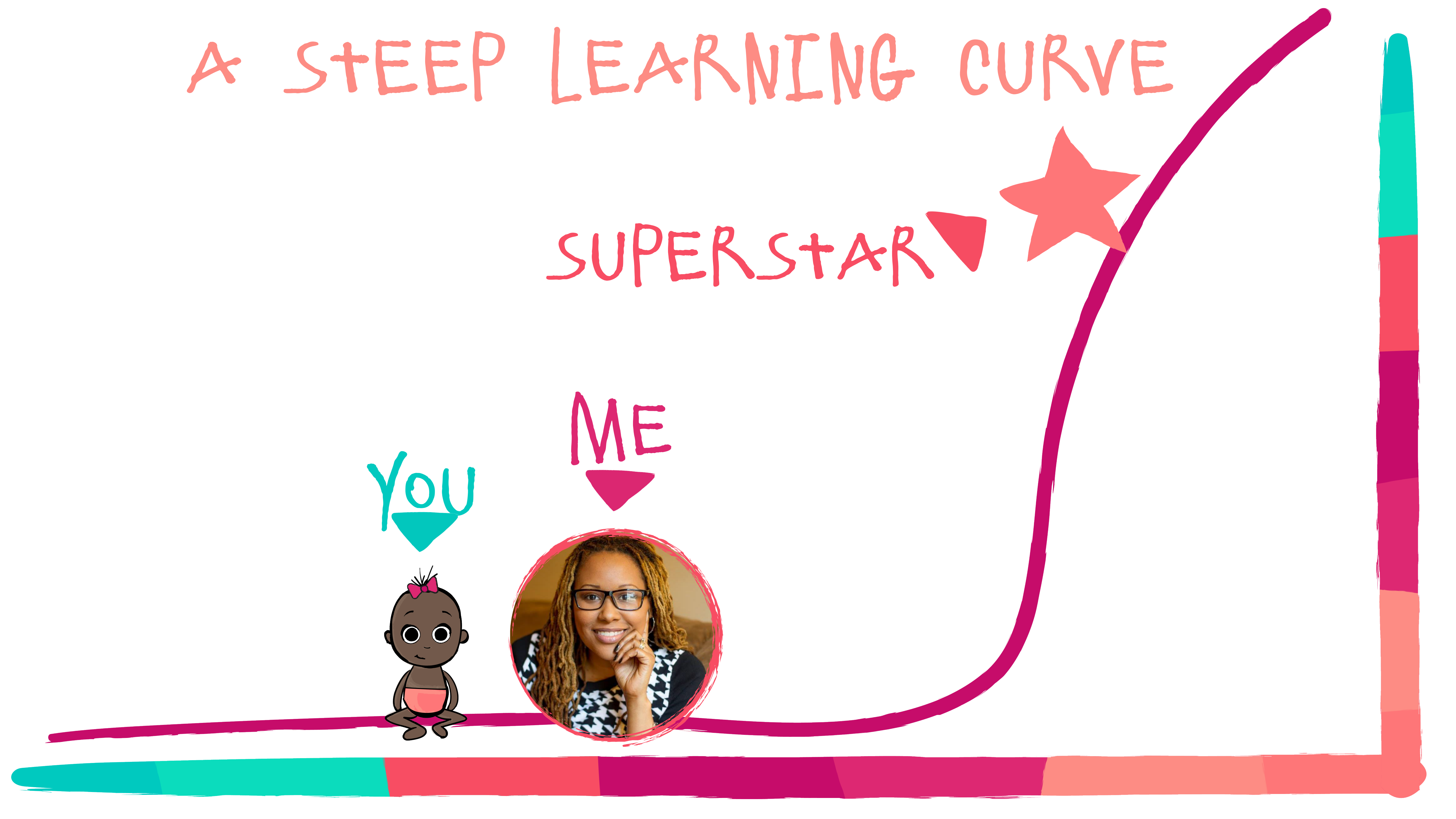
A STEEP LEARNING CURVE

SUPERSTAR

You

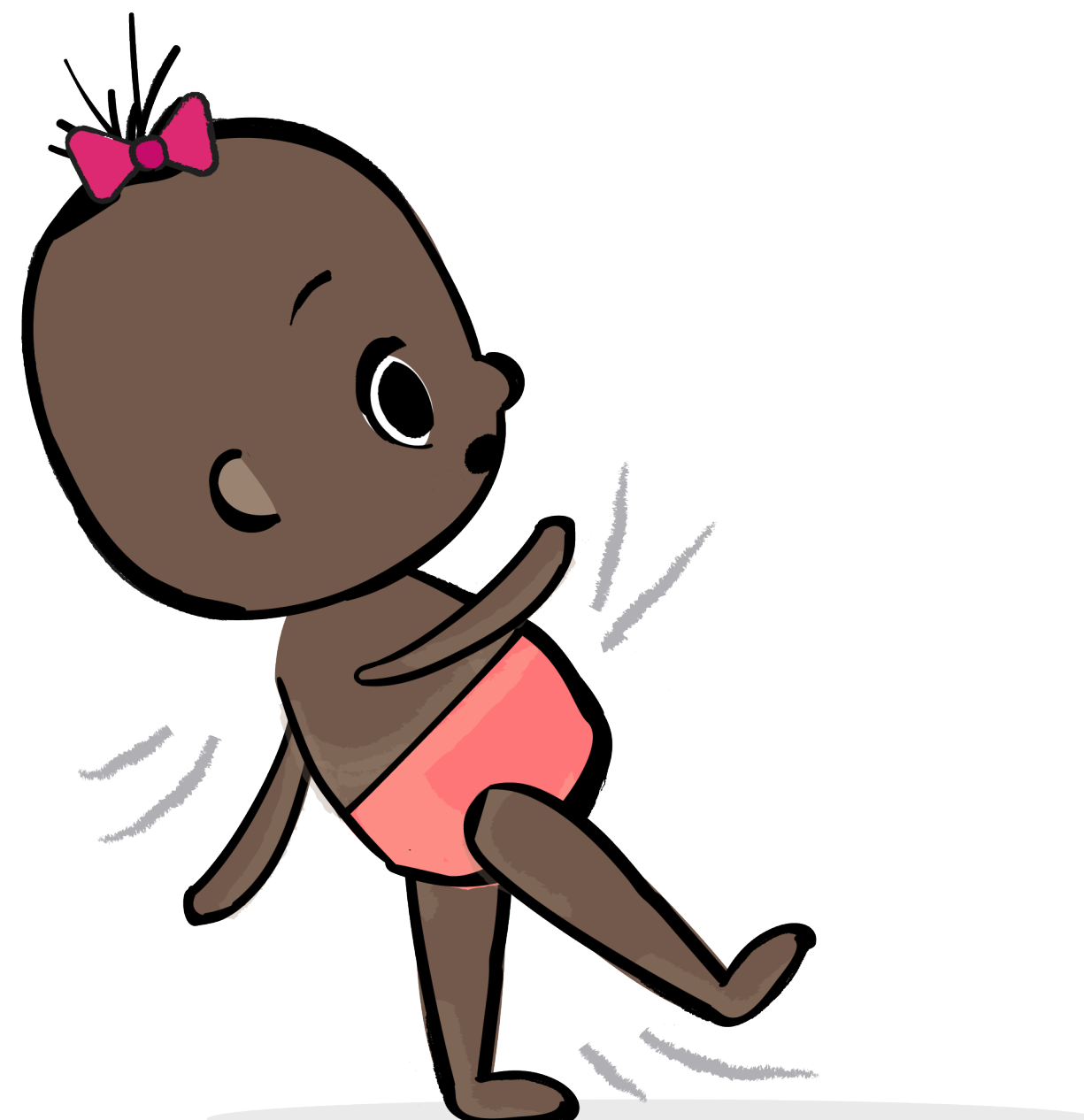


ME

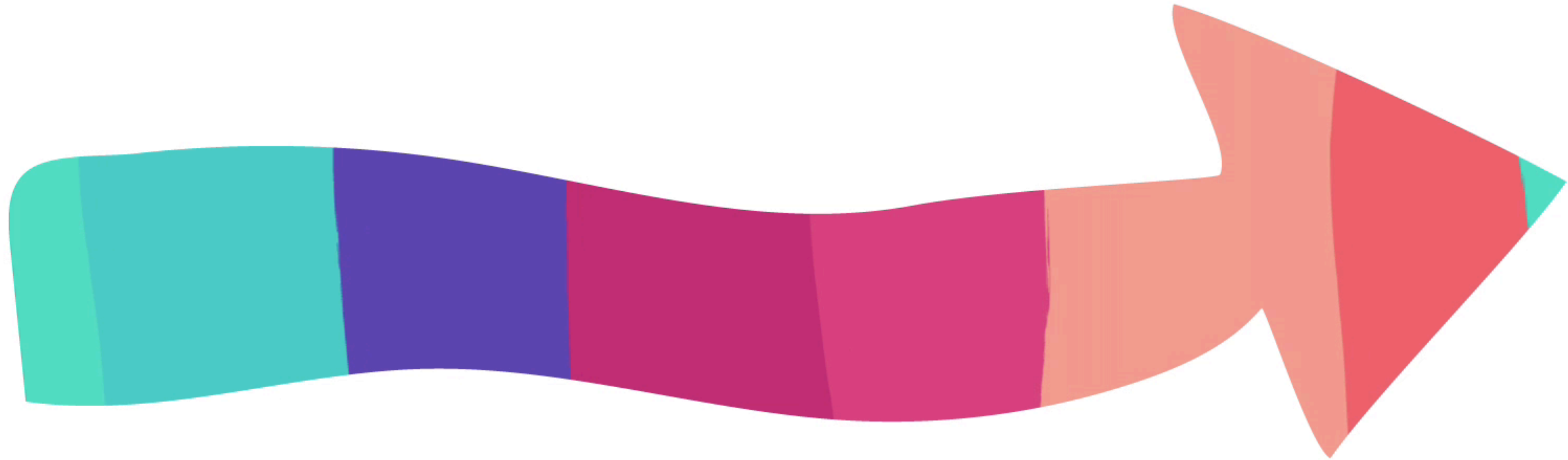


RX JAVA IN BABY STEPS

@BRWNGRLDEV



ASYNCHRONOUS DATA STREAMS



CLICK
EVENTS

PUSH
NOTIFICATIONS

KEYBOARD
INPUT

READING
A FILE

DATABASE
ACCESS

DEVICE
SENSOR
UPDATES

GPS UPDATES



GPS UPDATES



-36.34543, 3.23445



GPS UPDATES



-36.34543, 3.23445

-36.24543, 3.23425



GPS UPDATES



-36.34543, 3.23445

-36.24543, 3.23425

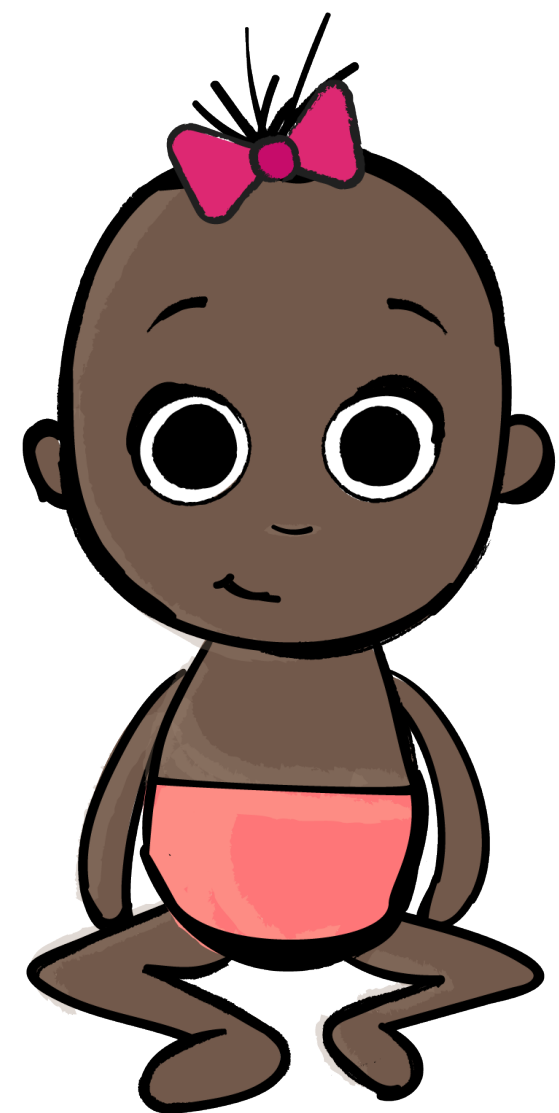
-35.34543, 3.13445



SERVER RESPONSE

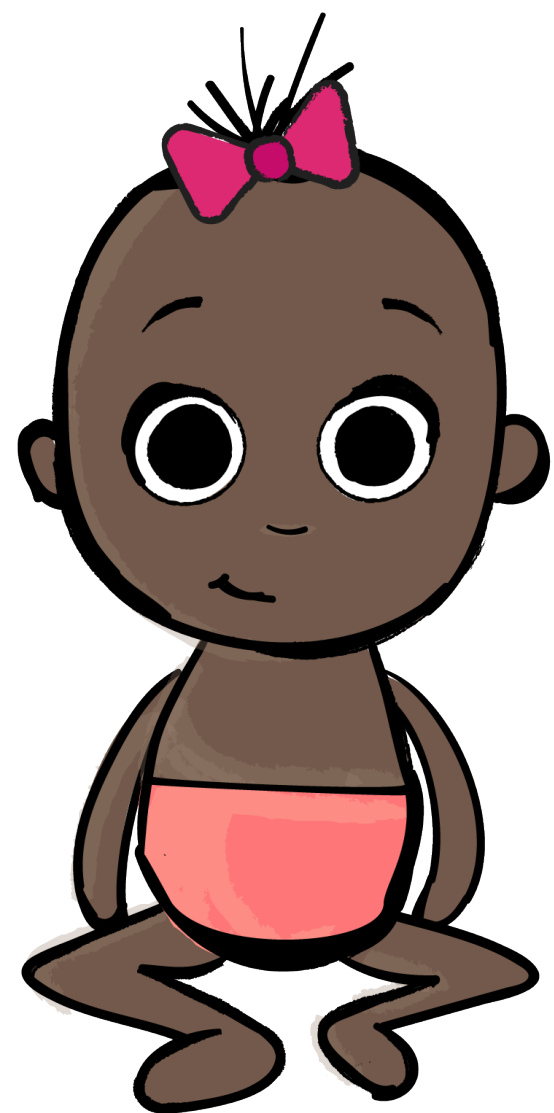


SERVER RESPONSE

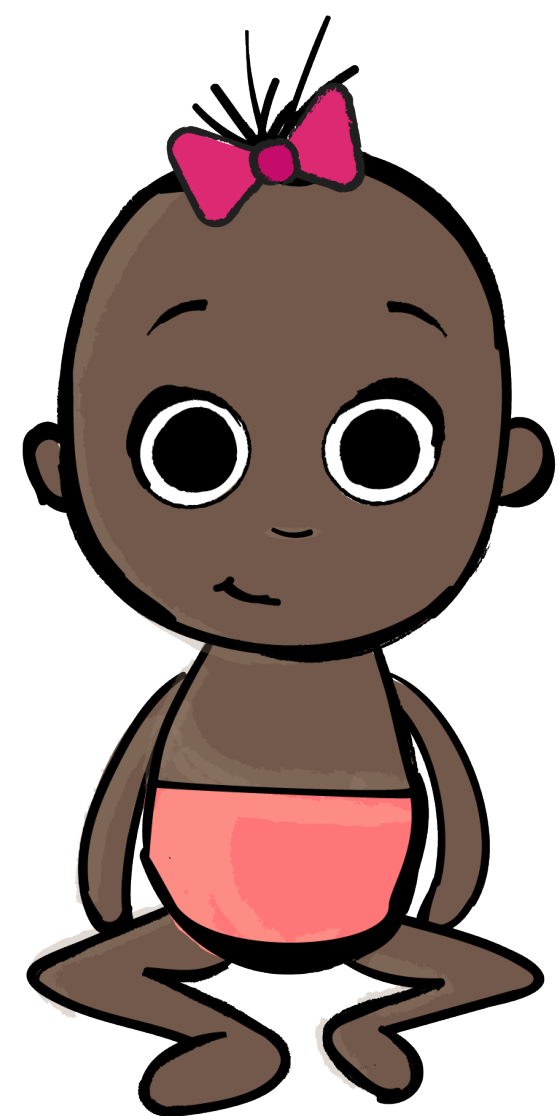


I WANT TOYS!!!

SERVER RESPONSE

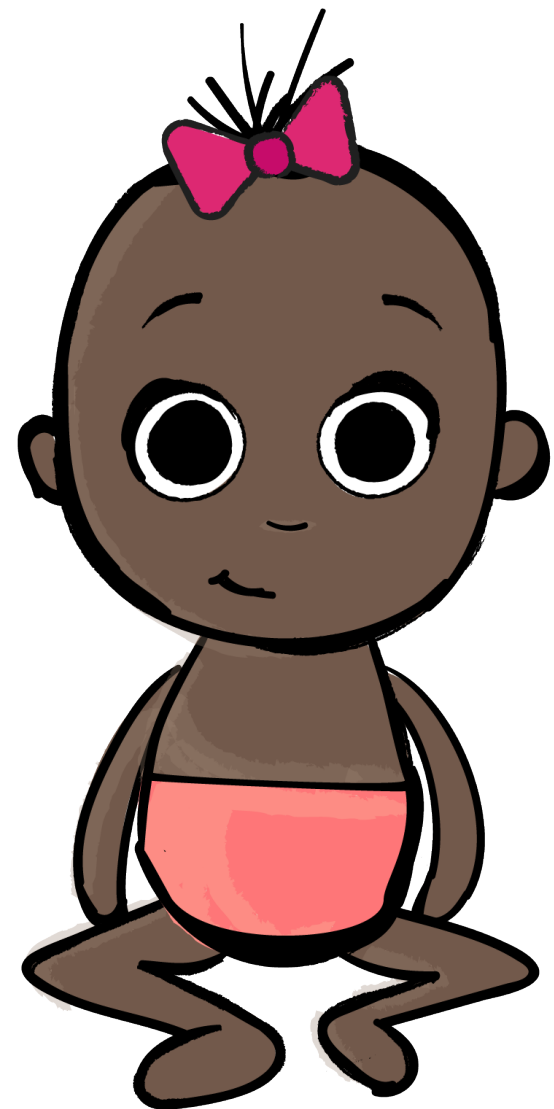


SERVER RESPONSE



I WANT TOYS!!!

SERVER RESPONSE

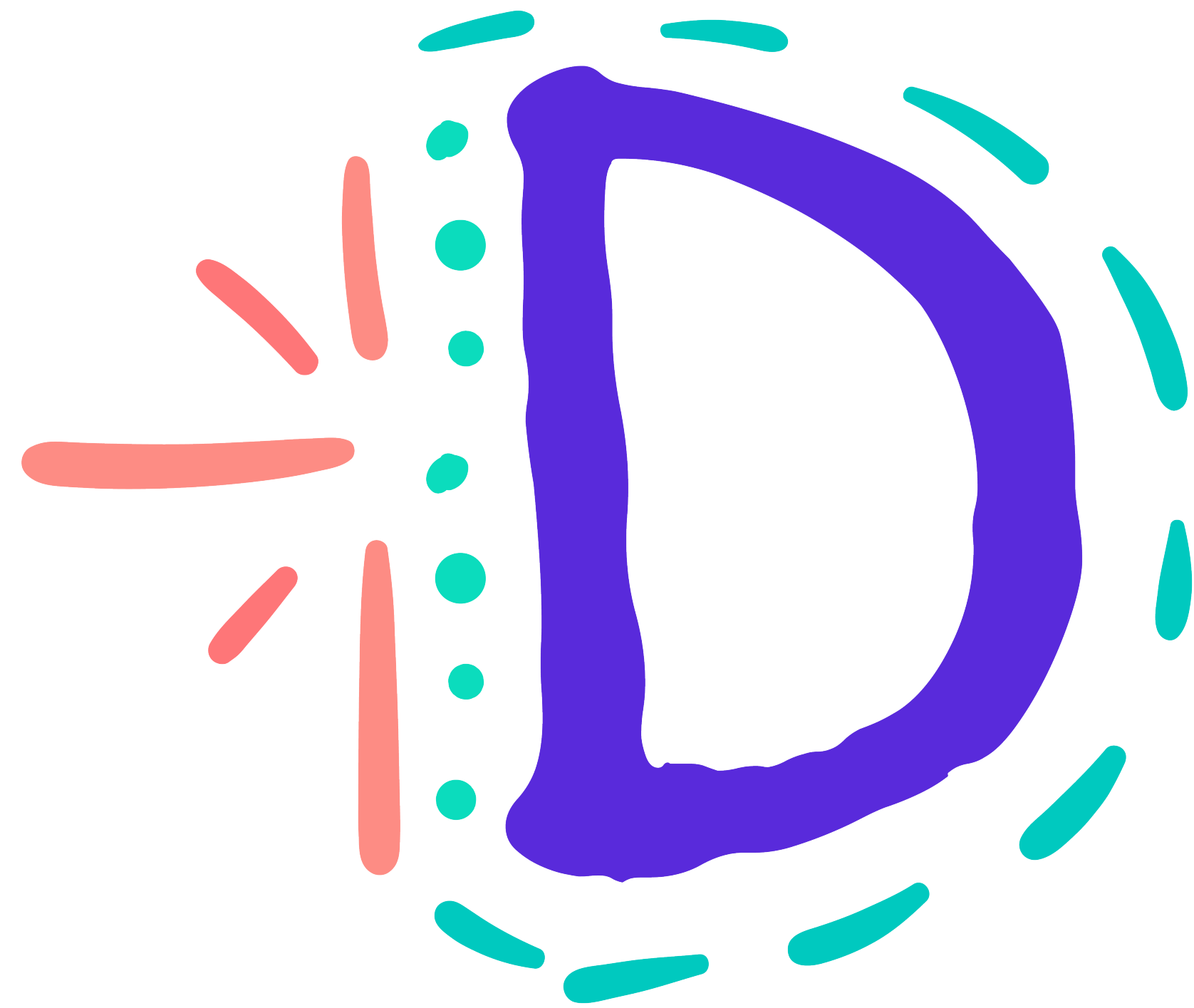


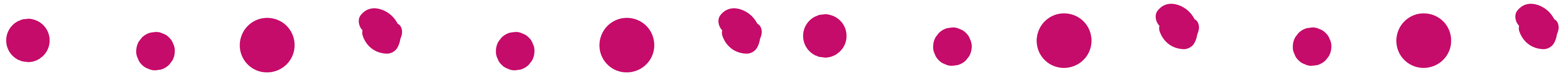
WHICH OF THE FOLLOWING IS AN ASYNCHRONOUS DATA STREAM?

- A: CLICK EVENTS
- B: DATABASE ACCESS
- C: SERVER RESPONSE
- D: ALL OF THE ABOVE

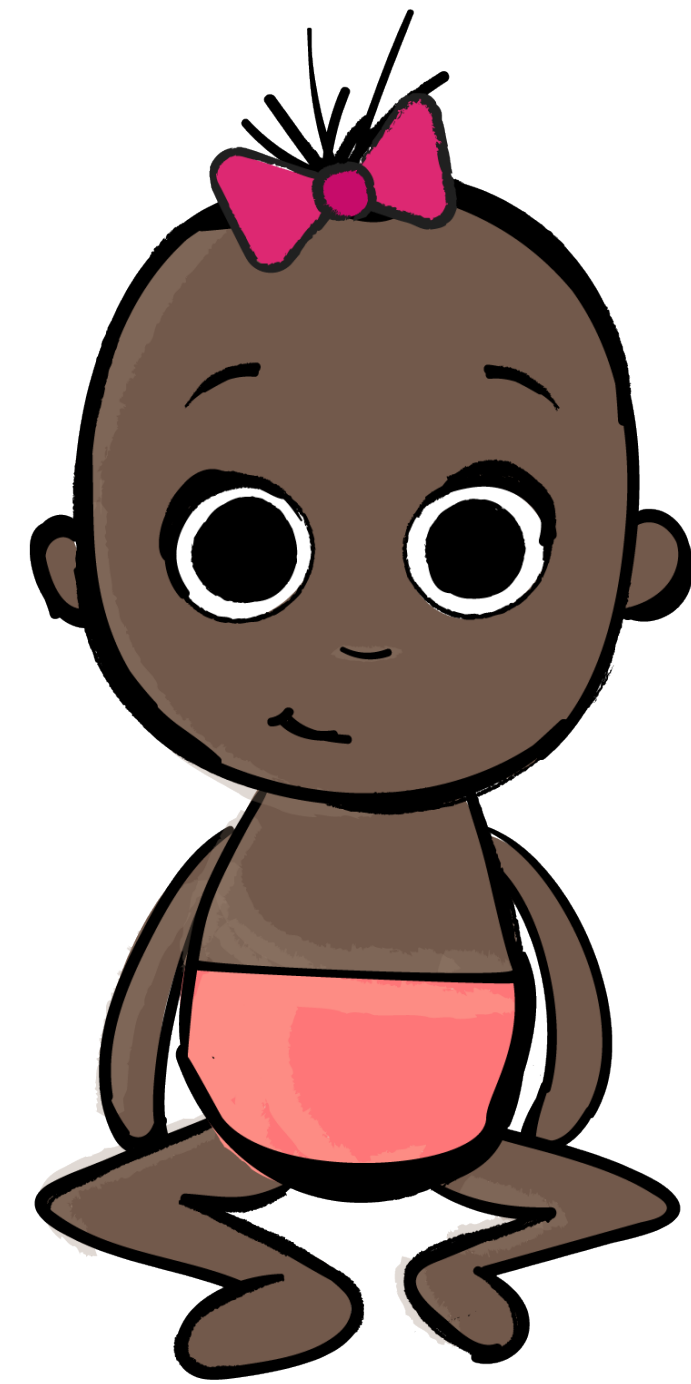
WHICH OF THE FOLLOWING IS AN ASYNCHRONOUS DATA STREAM?

- A: CLICK EVENTS
- B: DATABASE ACCESS
- C: SERVER RESPONSE
- D: ALL OF THE ABOVE





WHY?



SCIENTIFIC RESEARCH

SCIENTIFIC RESEARCH



Annyce Davis

@brwngrdev

Pls RT: People who use **#RxJava**, what are your top three reasons why? Asking for a friend 😜 **#AndroidDev**

7:09 PM - 5 Oct 2017

30 Retweets 49 Likes





Lucia
@LuciaP_86

Replying to @brwngrdev

Readability, higher level of abstraction, async
powerful operator

Following



Ben Oberkfell
@benlikestocode

Replying to @brwngrdev

It saved my soul from c...



Robert Anizoba
@bobbinkernaut

Replying to @brwngrdev @moyheen

Make multiple api calls in parallel (thank you
'zip'), threading made easy, operators to
transform/filter data

Follow



Eric Cochran
@Eric_Cochran

Replying to @brwngrdev @yogurtearl

FP: The predictability of functional
programming is what we prog
already strive for.



Matt Clarke
@kiwiandroiddev

Replying to @brwngrdev

I've found it makes it easier to
follow/visualise a sequence of async
operations making it easier to adapt it or
spot errors

Following



Yuliya Kaleda
@YuliyaKaleda

Replying to @brwngrdev

Convenient data processing though various
chain operators

Following



Perfect
@Perfect

Replying to @brwngrdev

Functional style, Thread management,
testability...

CHAINING

THREADING

COMPOSABLE

ABSTRACTION

NON-
BLOCKING

AVOID
CALLBACKS

DATA
TRANSFORMATION

DATA TRANSFORMATION

```
Observable.just(5, 6, 7)  
  .map { ";-) ".repeat(it) }  
  .subscribe { println(it) }
```

DATA TRANSFORMATION

```
Observable.just(5, 6, 7)  
  .map { ";-) ".repeat(it) }  
  .subscribe { println(it) }
```

```
;-) ;-) ;-) ;-) ;-)  
;-) ;-) ;-) ;-) ;-) ;-)  
;-) ;-) ;-) ;-) ;-) ;-) ;-)
```

CHAINING

```
Observable.just(5, 6, 7)
    .map { ";-)" .repeat(it) }
    .filter { it.length < 24 }
    .subscribe { println(it) }
```

CHAINING

```
Observable.just(5, 6, 7)
  .map { ";-) " .repeat(it) }
  .filter { it.length < 24 }
  .subscribe { println(it) }
```

;-) ;-) ;-) ;-) ;-)



ABSTRACTION

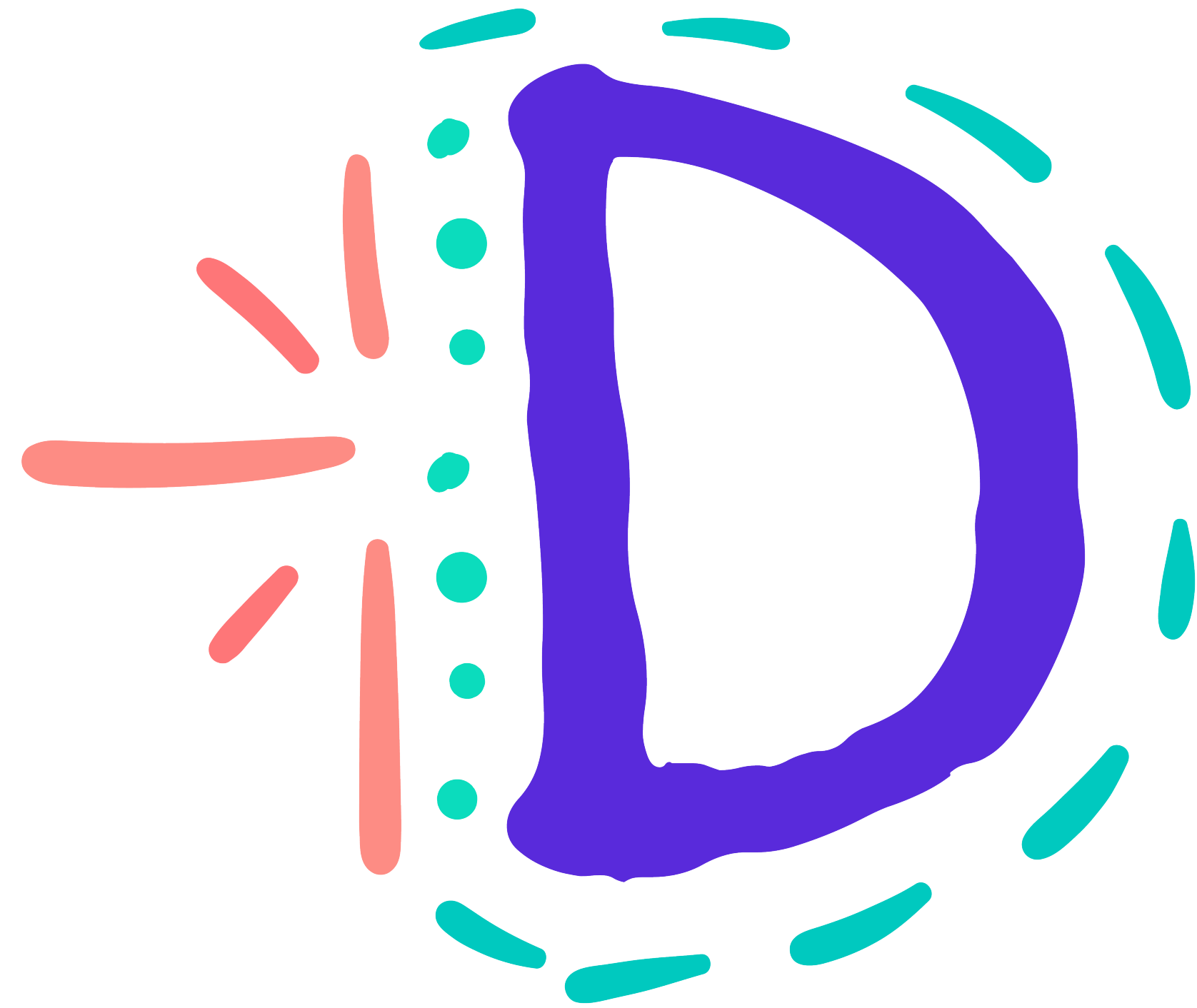
```
@Test
fun transformWithMap() {
    Observable.just(item1: 5, item2: 6, item3: 7)
        .map { ";-)" .repeat(it) }
        .filter { it.length < 24 }
        .subscribe { println(it) }
}
```

RX JAVA IS. . . ?

- A: THE SILVER BULLET
- B: SIMPLY MAGIC
- C: PURE VODOO
- D: A LIBRARY

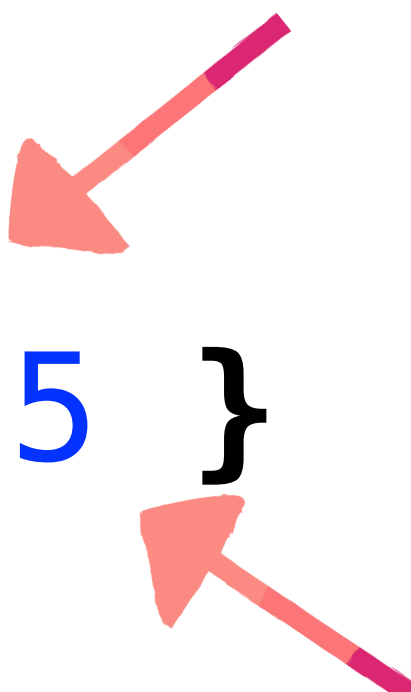
RX JAVA IS. . . ?

- A: THE SILVER BULLET
- B: SIMPLY MAGIC
- C: PURE VODOO
- D: A LIBRARY



KOTLIN COLLECTIONS

```
listOf(5, 6, 7)  
    .map { it * 5 }  
    .filter { it > 25 }
```



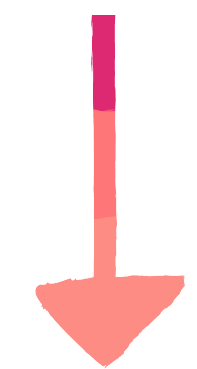
KOTLIN COLLECTIONS



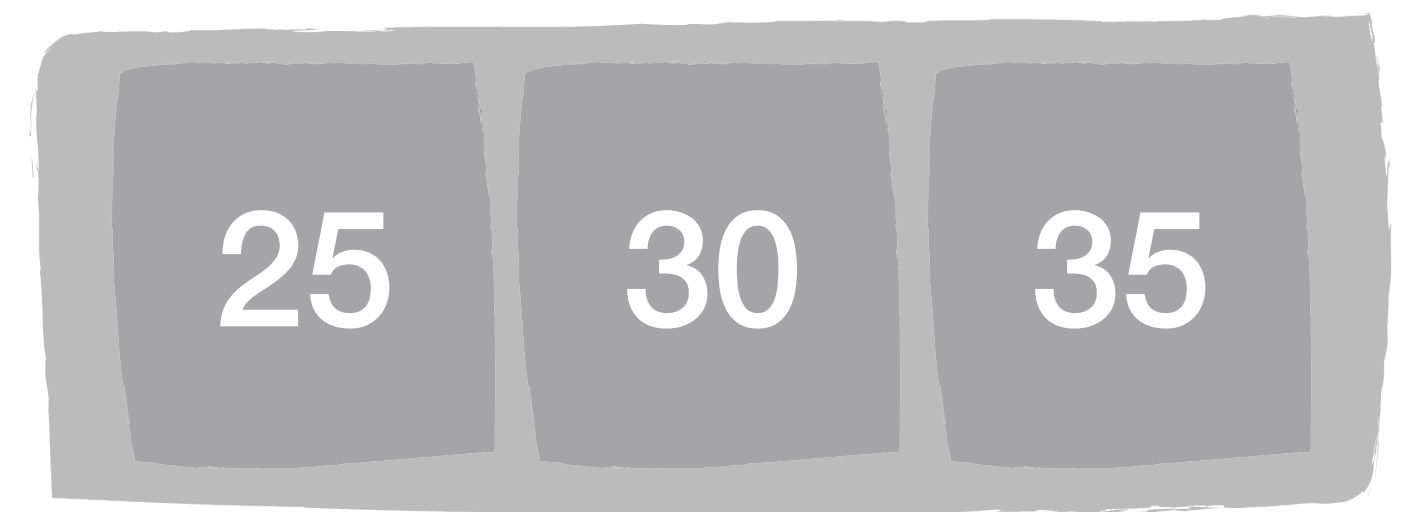
```
listOf(5, 6, 7)  
    .map { it * 5 }  
    .filter { it > 25 }
```

KOTLIN COLLECTIONS

```
listOf(5, 6, 7)  
    .map { it * 5 }  
    .filter { it > 25 }
```

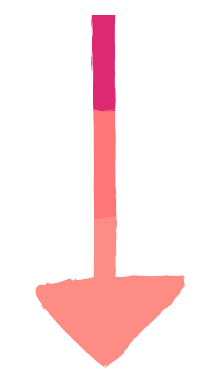


map

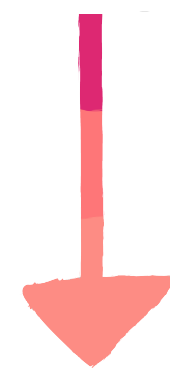
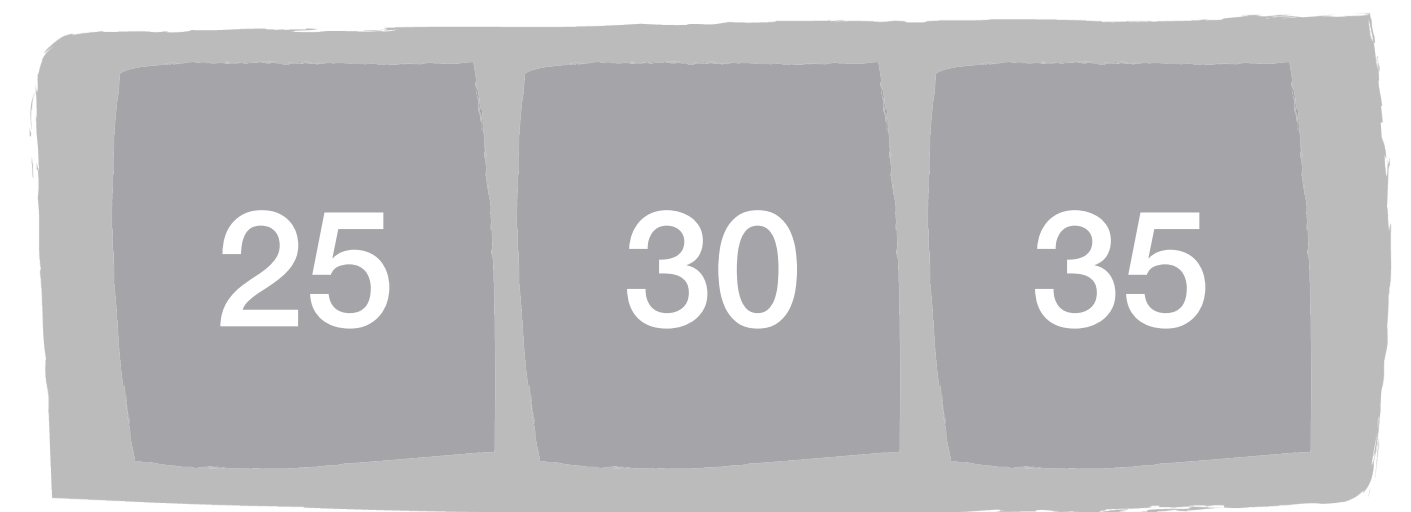


KOTLIN COLLECTIONS

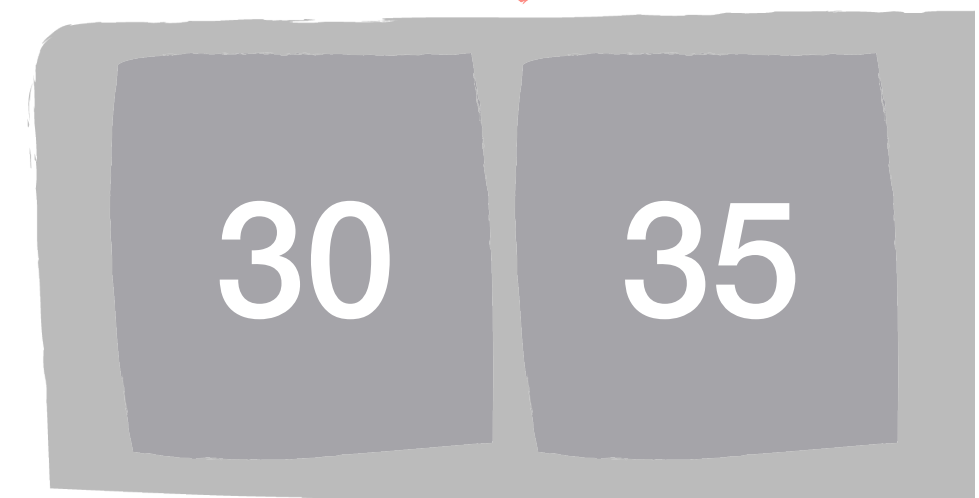
```
listOf(5, 6, 7)  
    .map { it * 5 }  
    .filter { it > 25 }
```



map



filter



L A



KOTLIN SEQUENCES

```
listOf(5, 6, 7)
    .asSequence()
    .map { it * 5 }
    .filter { it > 25 }
    .toList()
```

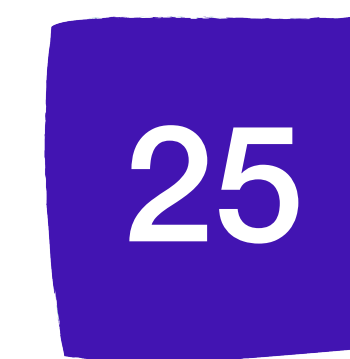
KOTLIN SEQUENCES



```
listOf(5, 6, 7)
    .asSequence()
    .map { it * 5 }
    .filter { it > 25 }
    .toList()
```

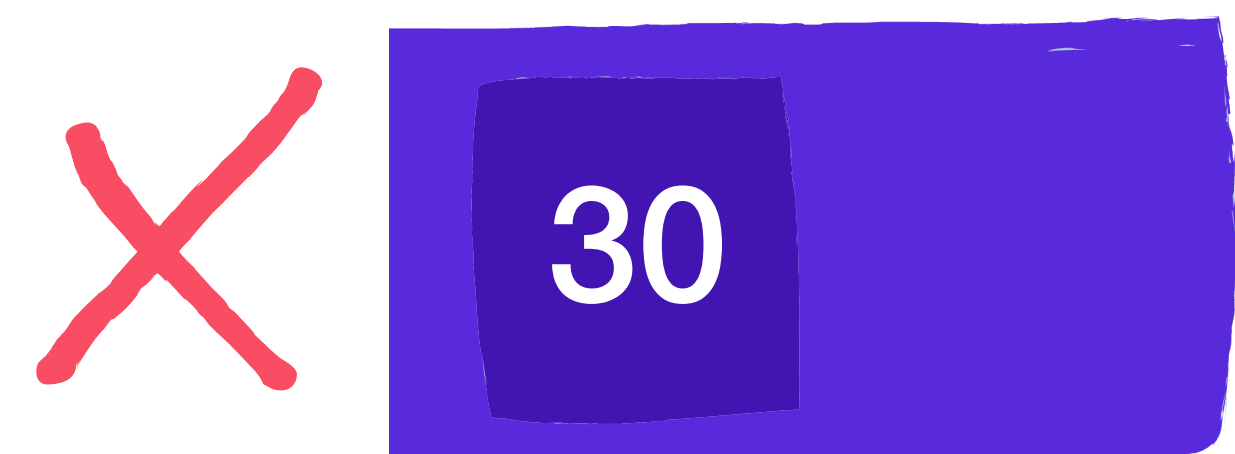
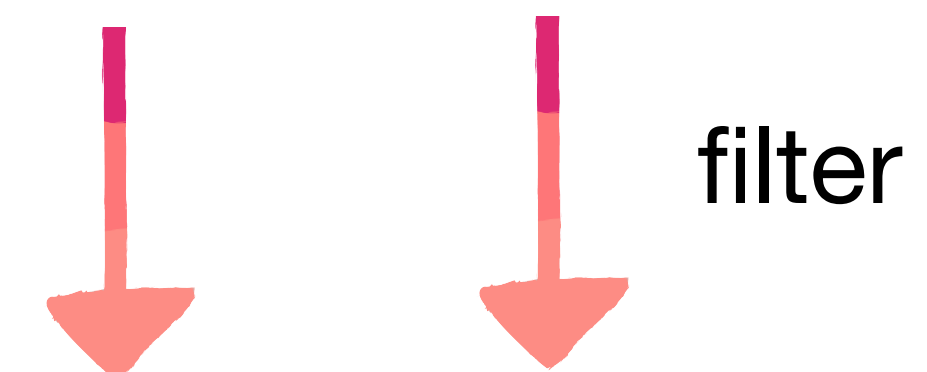
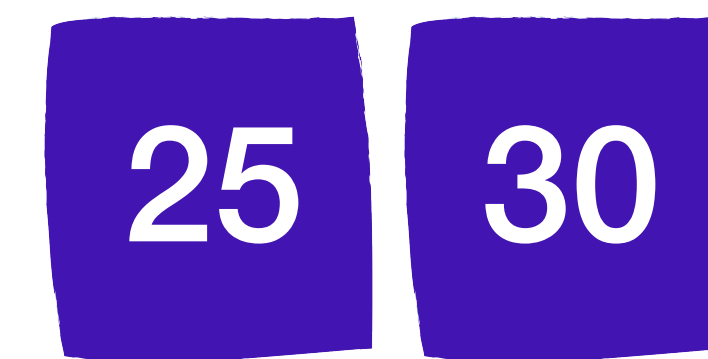
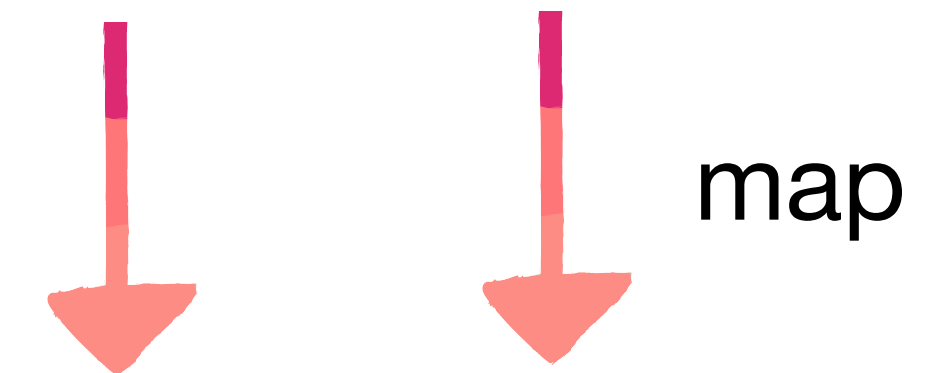
KOTLIN SEQUENCES

```
listOf(5, 6, 7)  
  .asSequence()  
  .map { it * 5 }  
  .filter { it > 25 }  
  .toList()
```



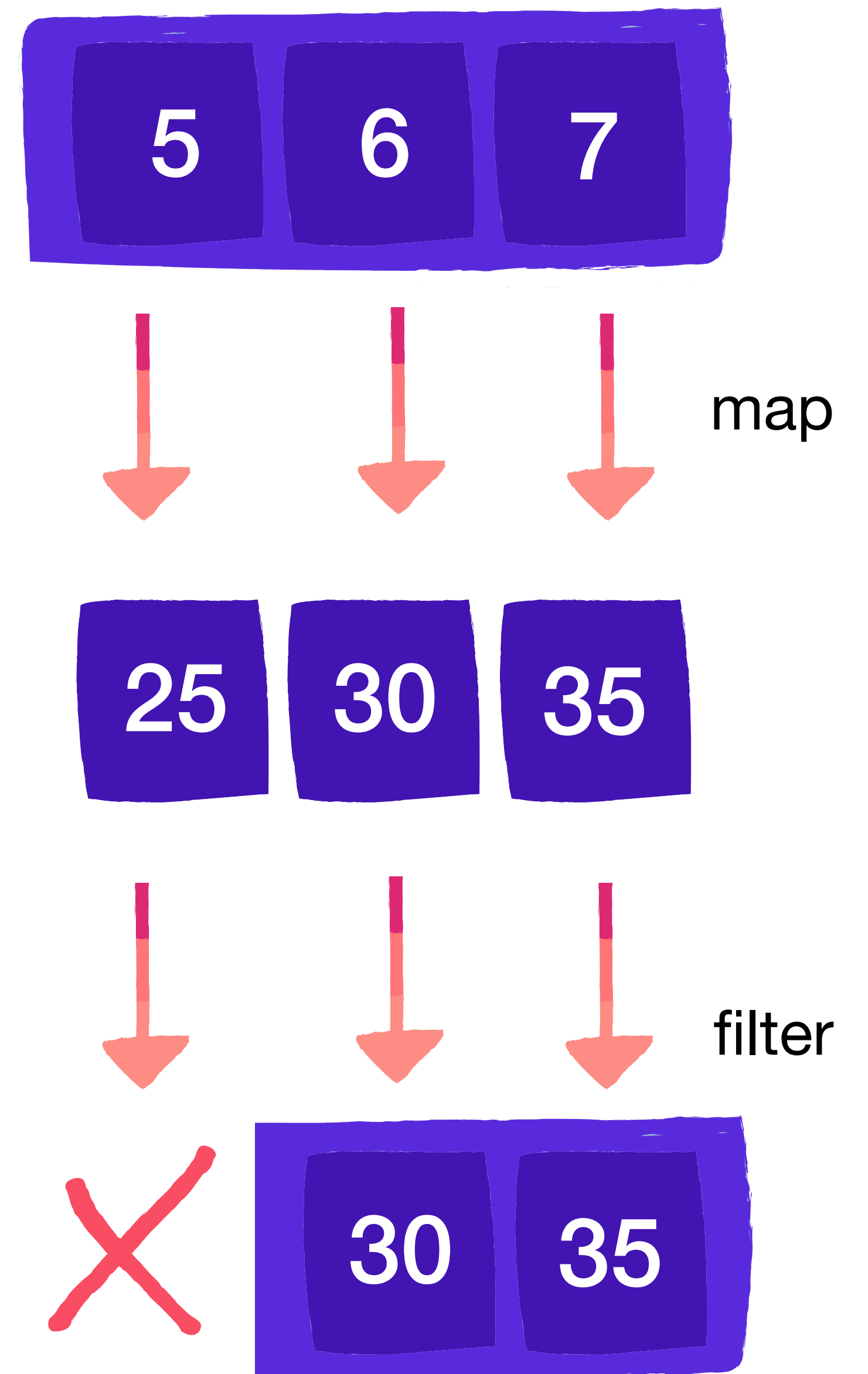
KOTLIN SEQUENCES

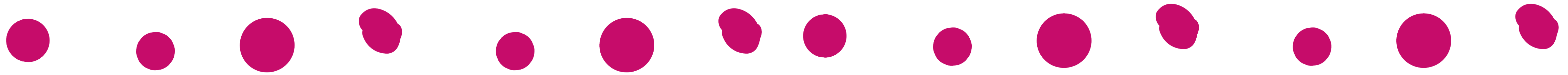
```
listOf(5, 6, 7)
  .asSequence()
  .map { it * 5 }
  .filter { it > 25 }
  .toList()
```



KOTLIN SEQUENCES

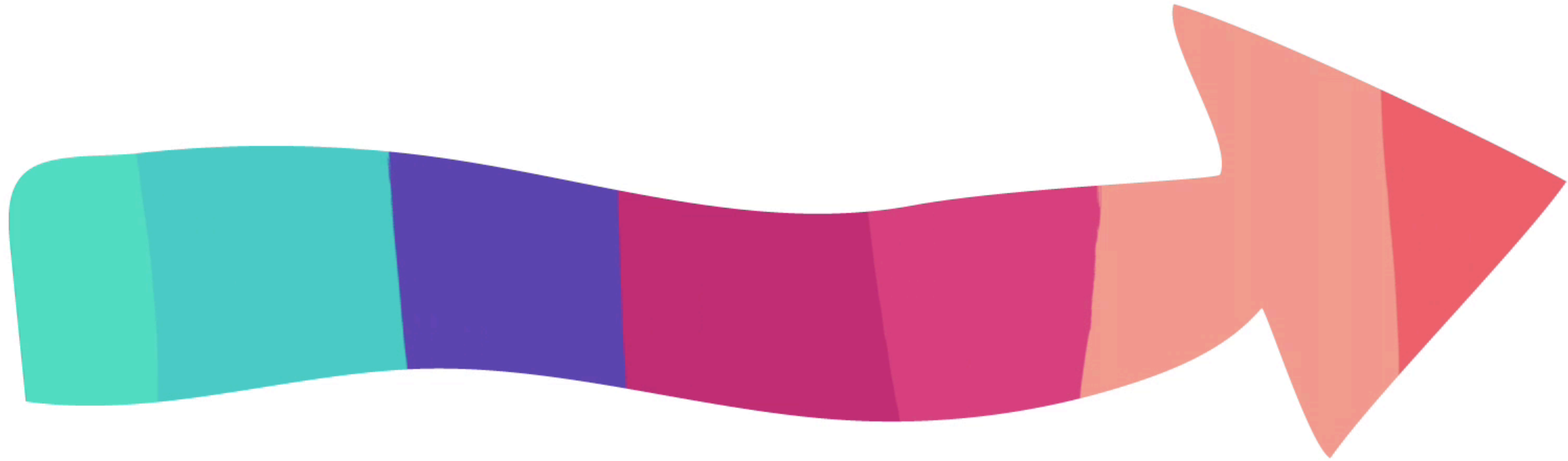
```
listOf(5, 6, 7)  
  .asSequence()  
  .map { it * 5 }  
  .filter { it > 25 }  
  .toList()
```



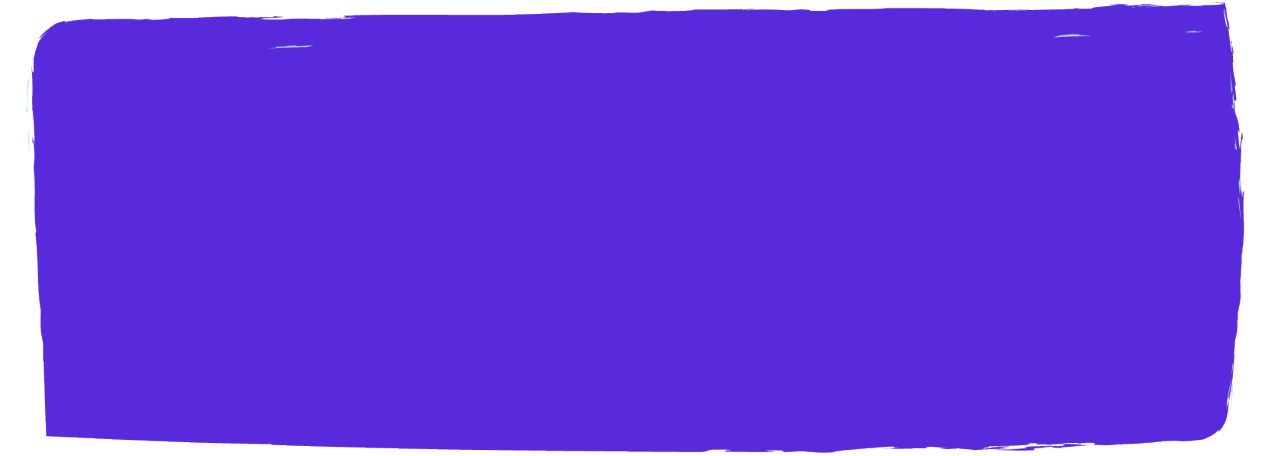


WHY?

ASYNCHRONOUS DATA STREAMS



RX/JAVA



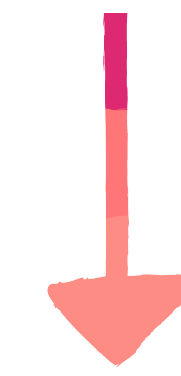
numbers

```
.map { it * 5 }  
.filter { it > 25 }  
.subscribe()
```

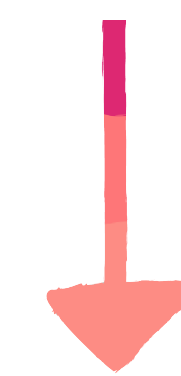
RX/JAVA

numbers

```
.map { it * 5 }  
.filter { it > 25 }  
.subscribe()
```



map



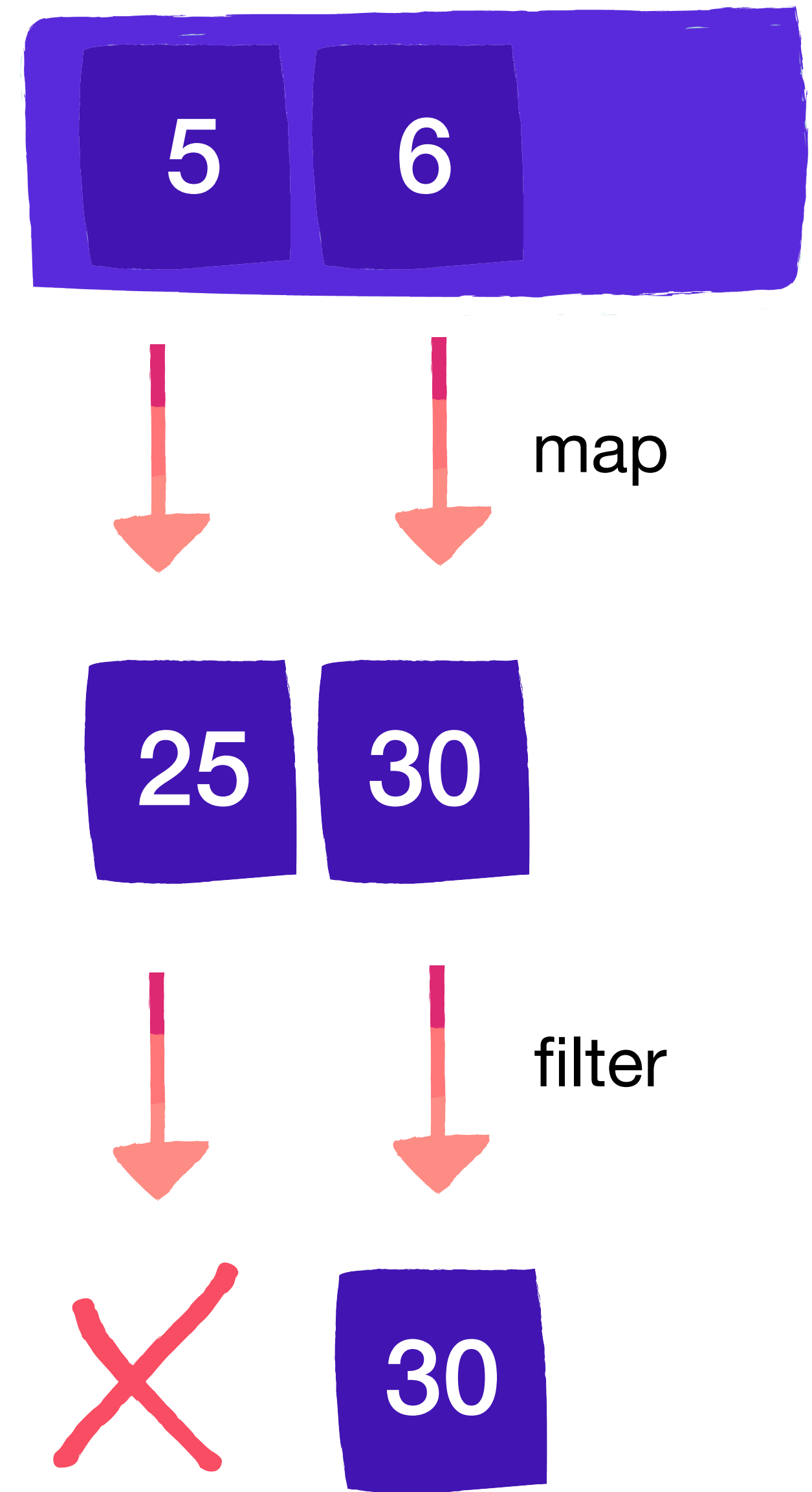
filter



RX JAVA

numbers

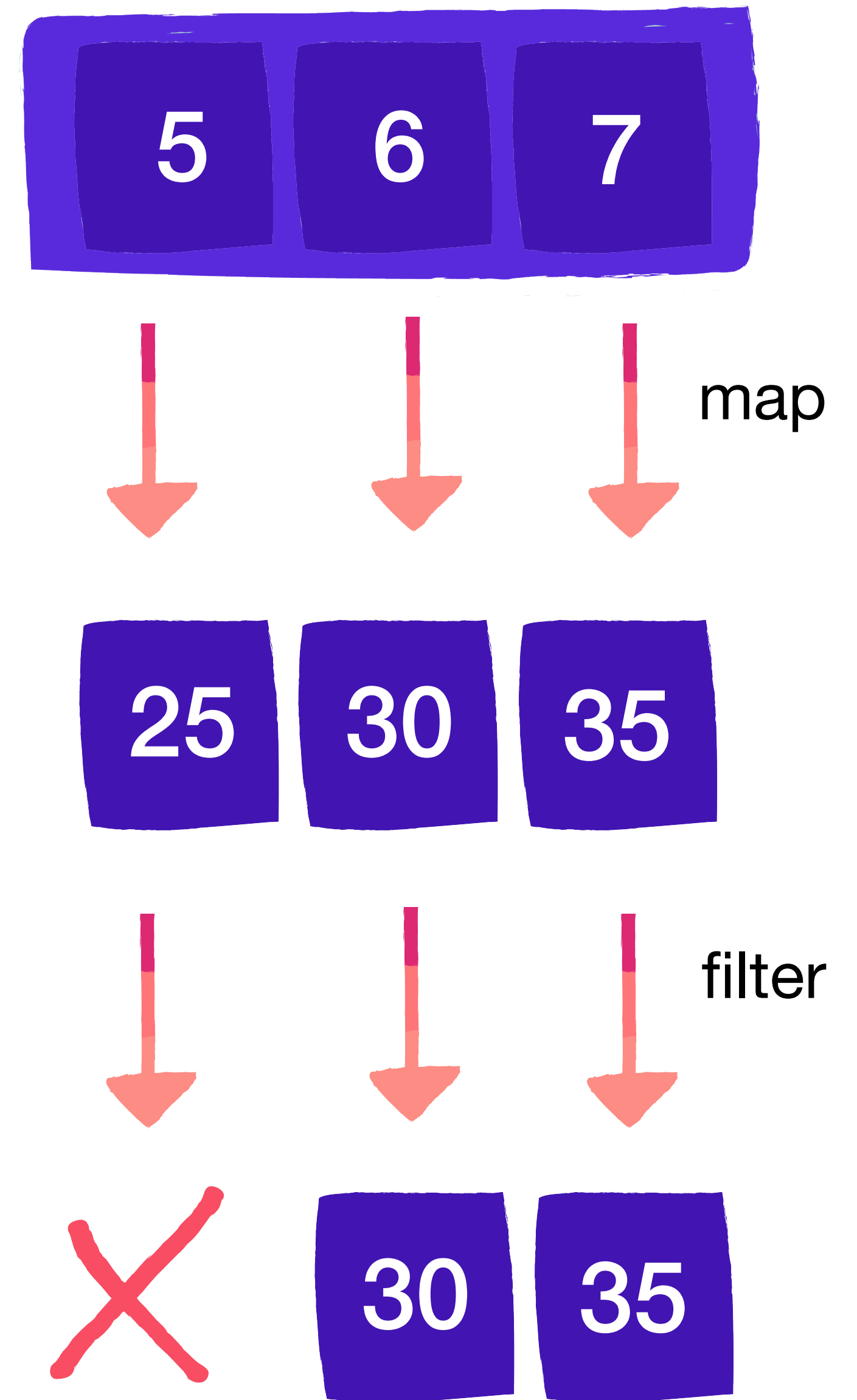
```
.map { it * 5 }  
.filter { it > 25 }  
.subscribe()
```



RX JAVA

numbers

```
.map { it * 5 }  
.filter { it > 25 }  
.subscribe()
```



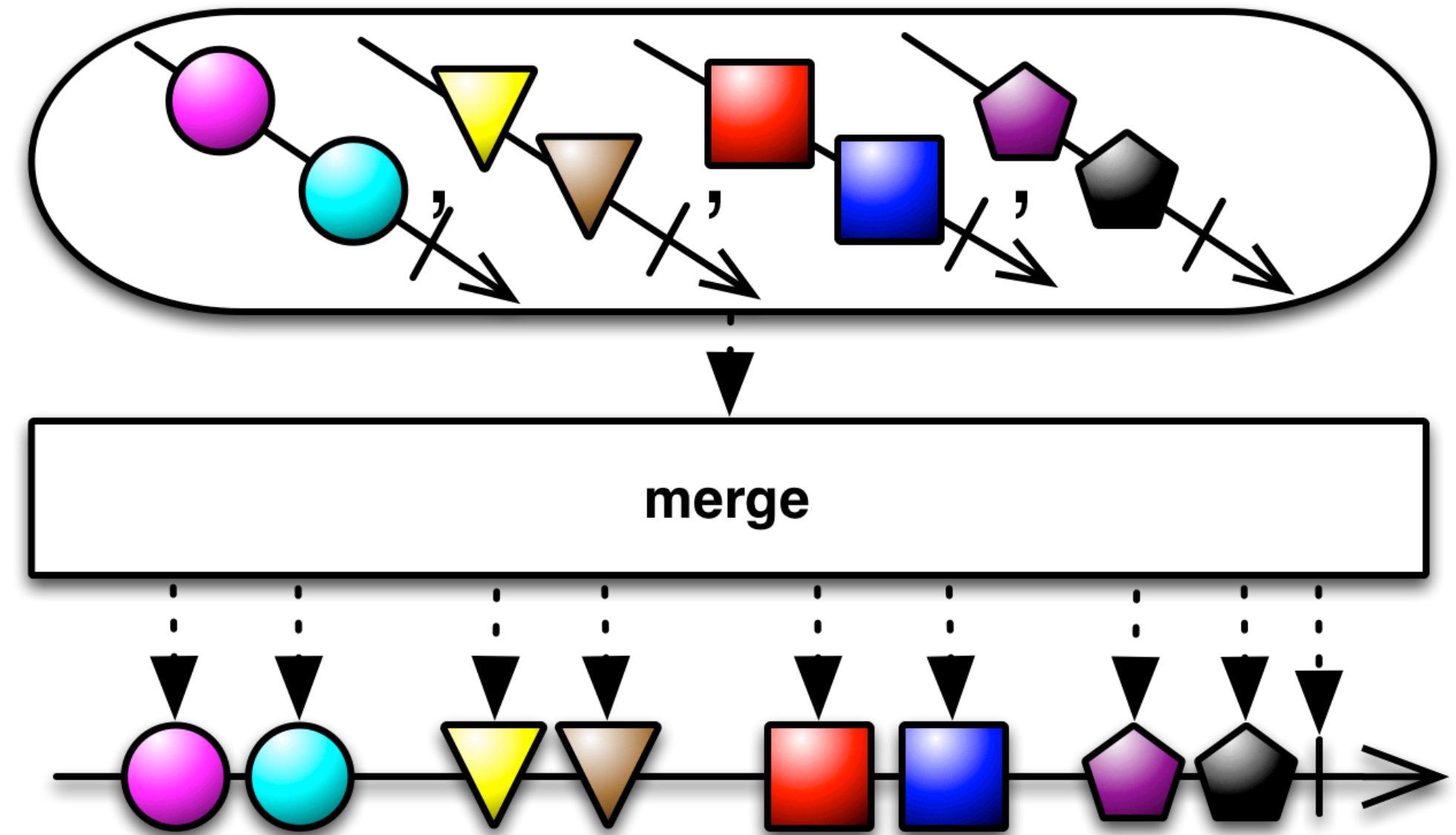
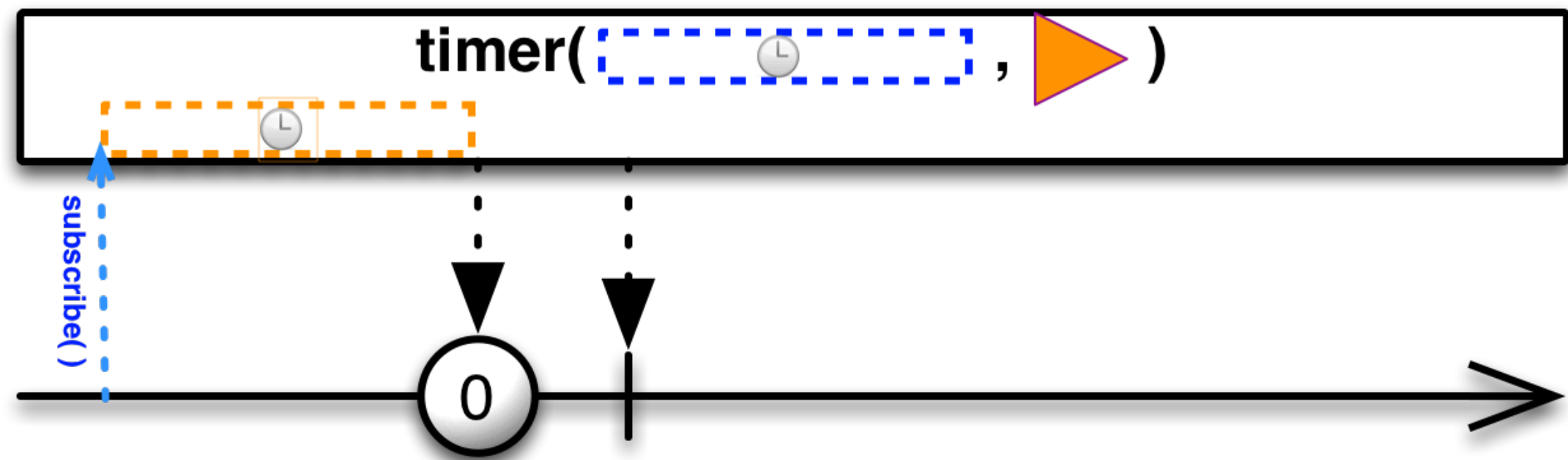
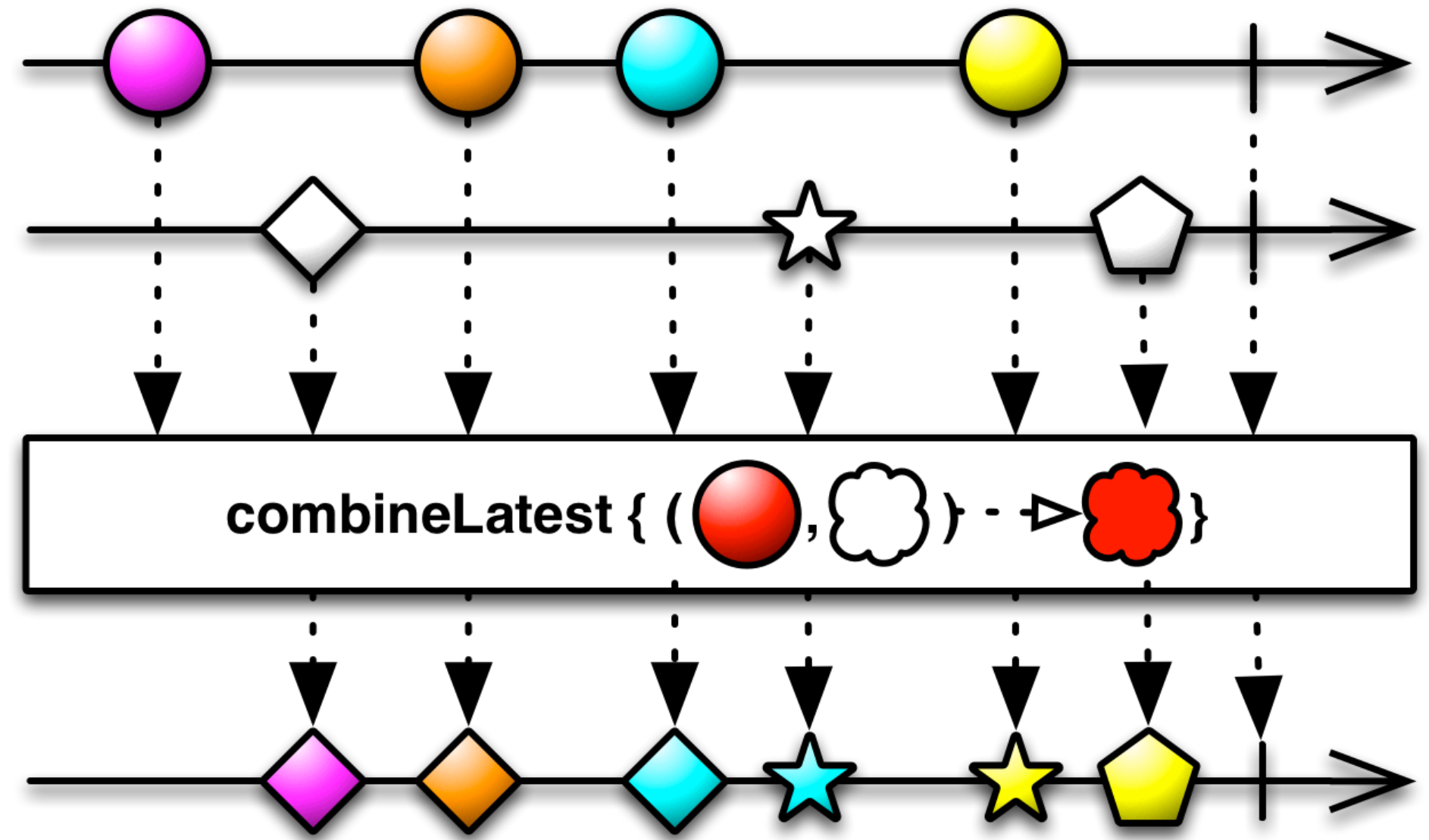
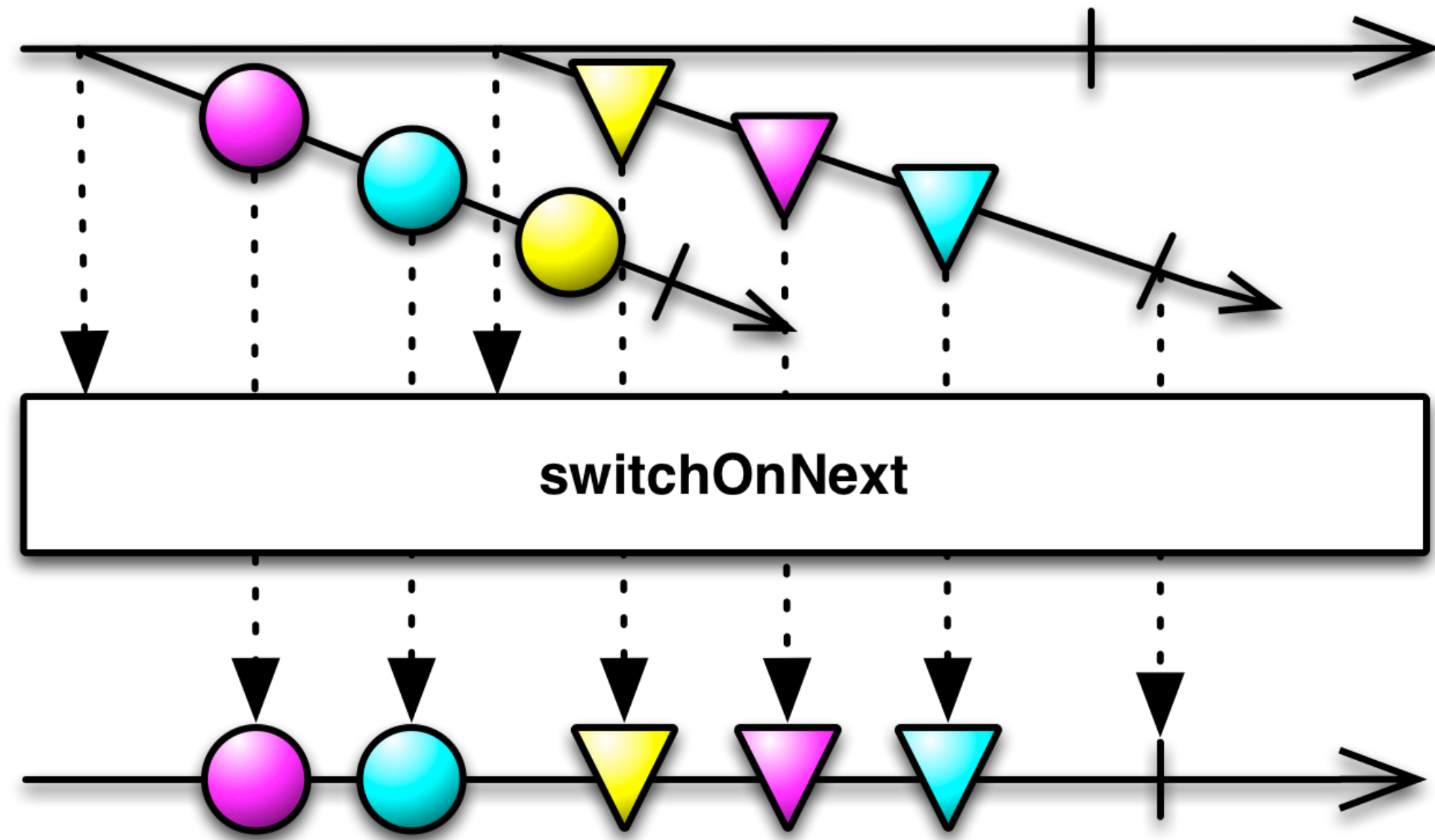
FLEXIBLE
THREADING

SCHEDULERS



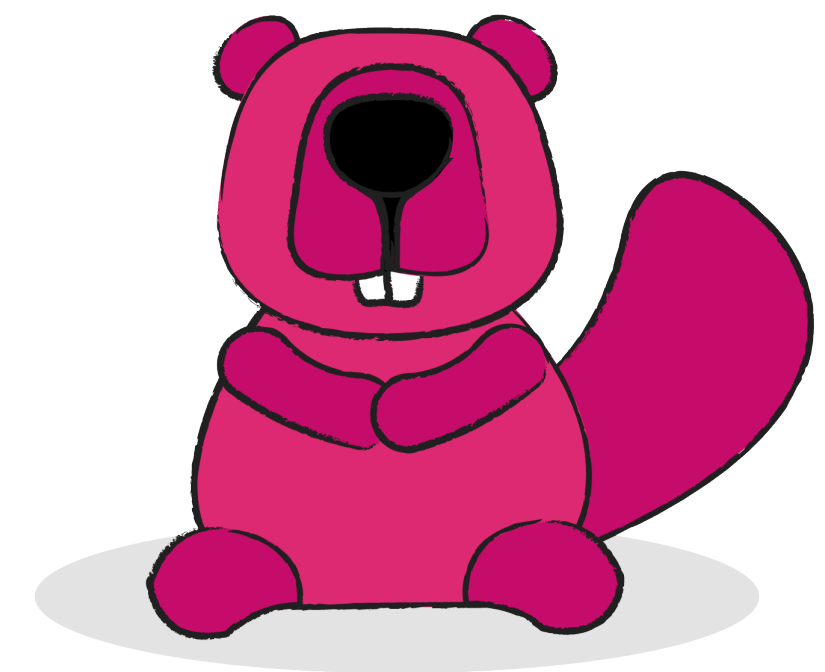
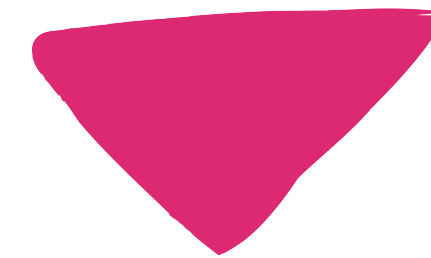
```
Observable.just(5, 6, 7)
    .map { ";-) ".repeat(it) }
    .subscribe { println(it) }
```

```
Observable.just(5, 6, 7)
    .observeOn(Schedulers.io())
    .map { ";-) ".repeat(it) }
    .subscribe { println(it) }
```

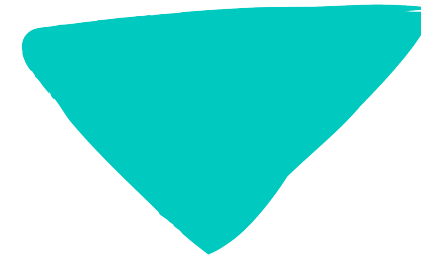
THE BASICS

OBSERVABLE

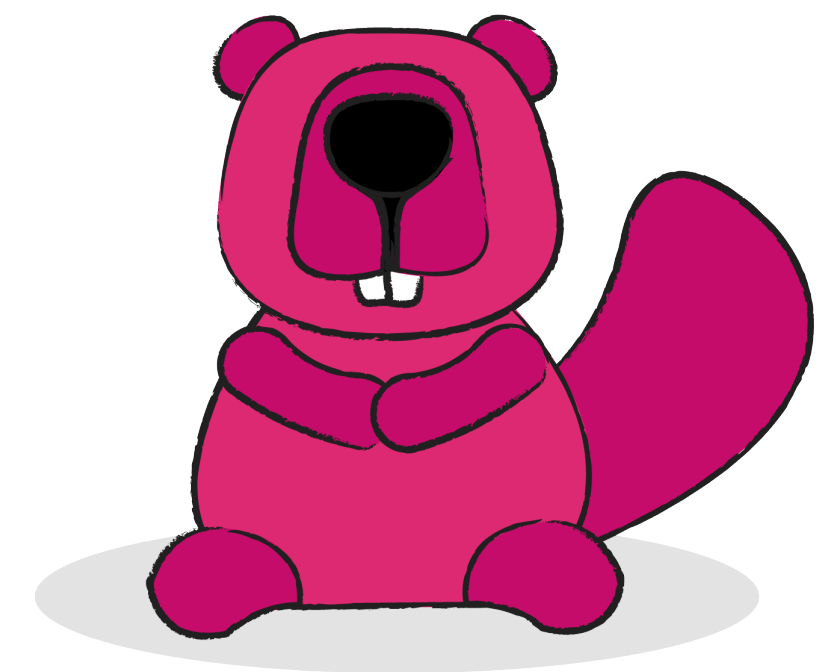
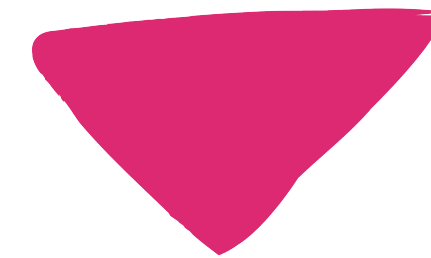


THE BASICS

OBSERVER

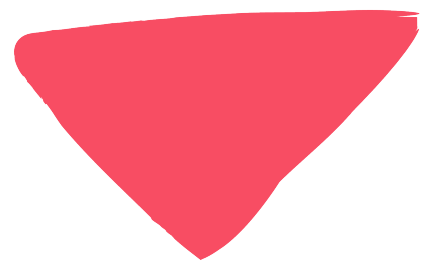


OBSERVABLE

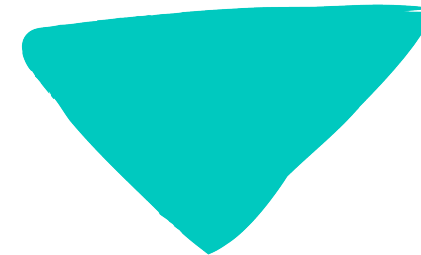


THE BASICS

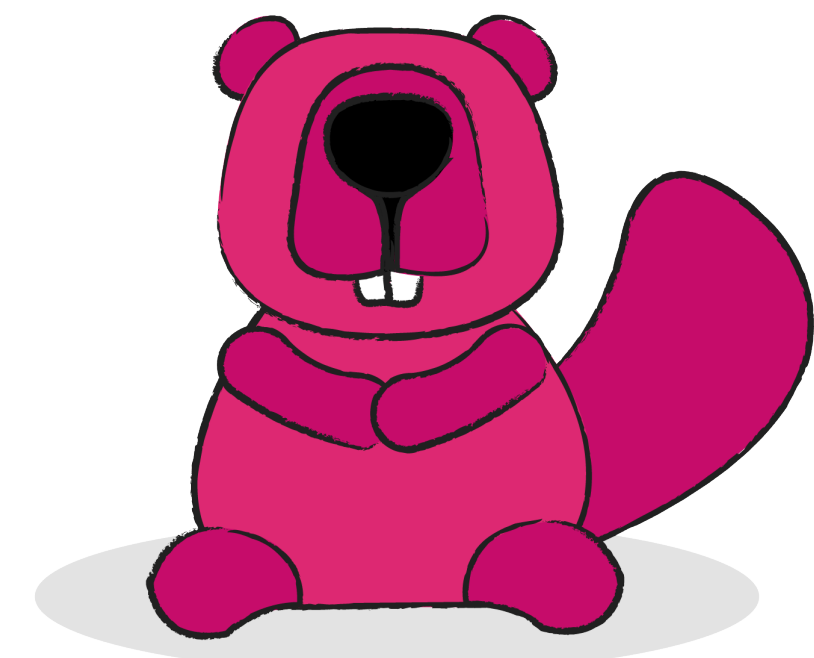
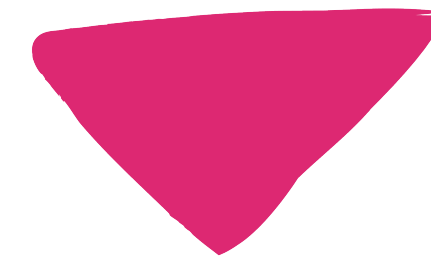
OPERATORS



OBSERVER



OBSERVABLE

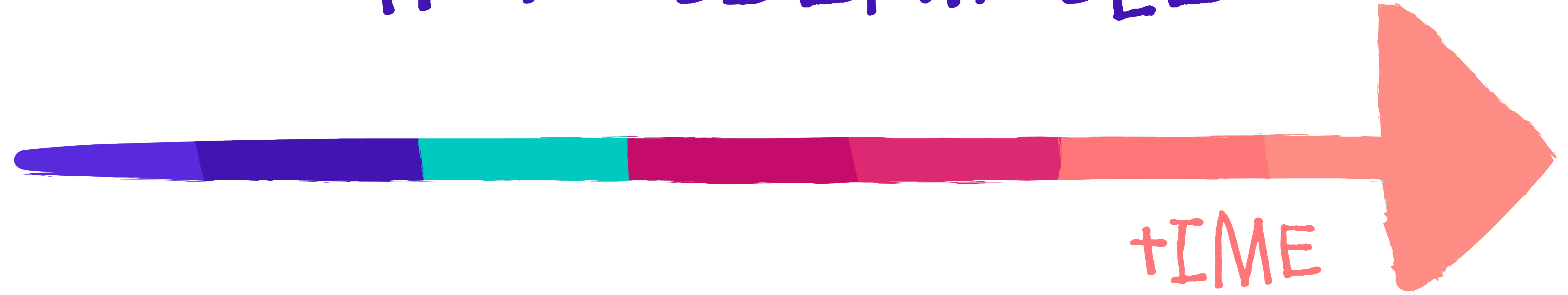


OBSERVABLE

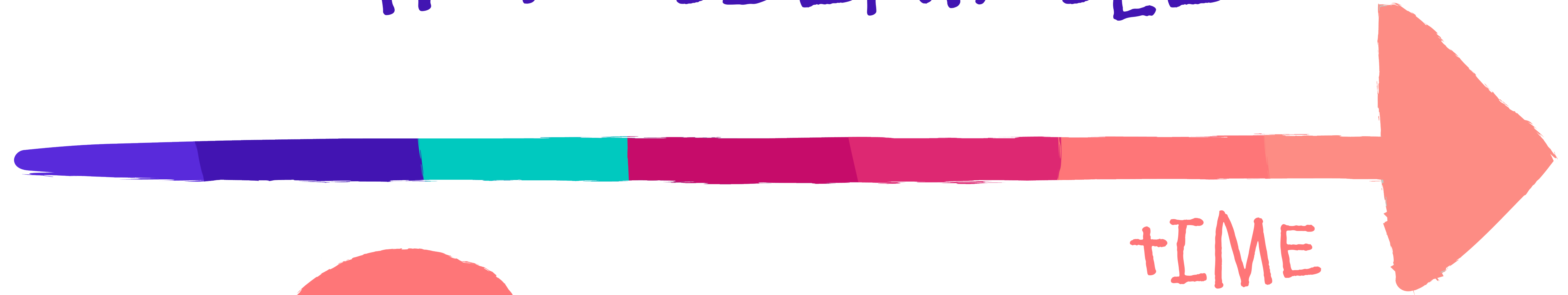




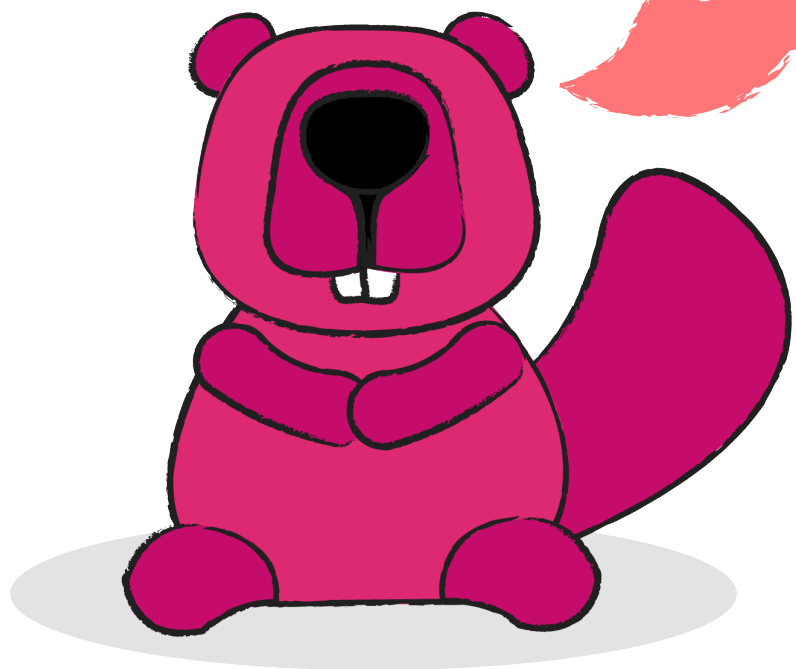
HOT OBSERVABLE



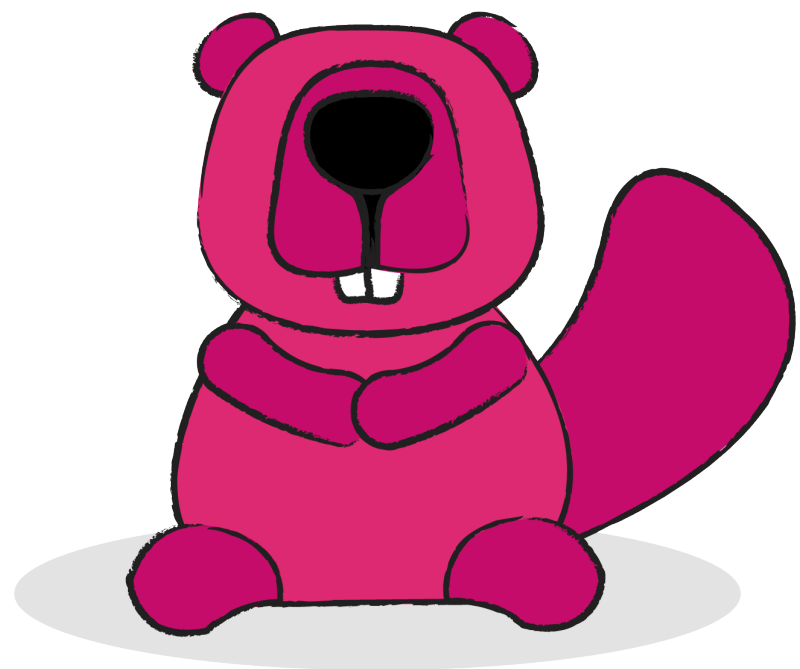
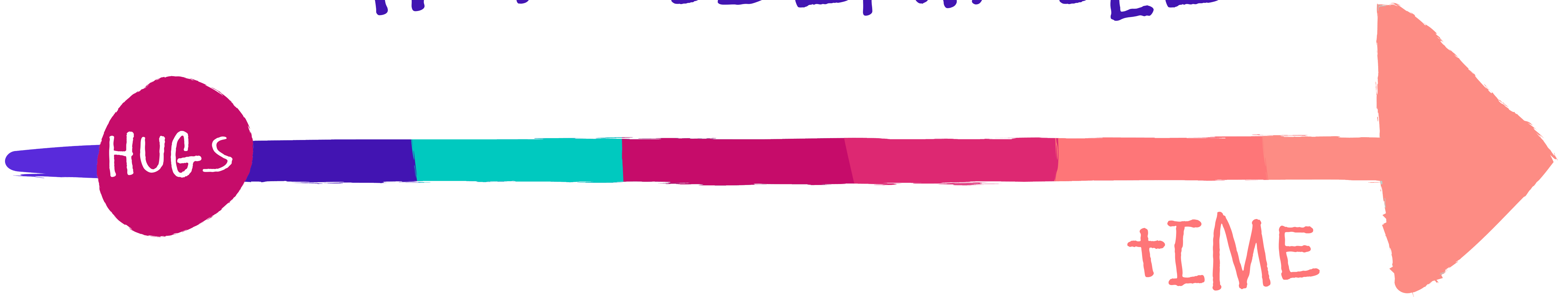
HOT OBSERVABLE



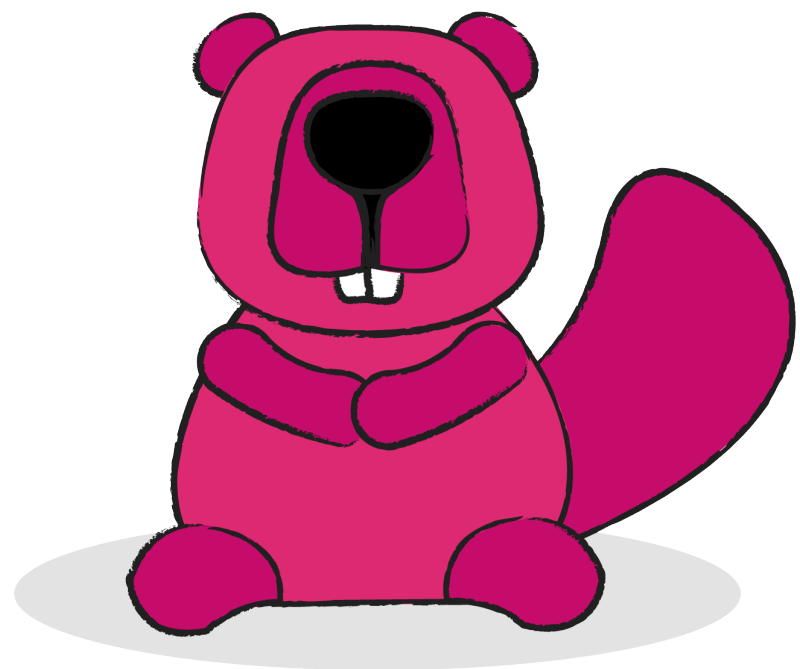
I WANT HUGS!!!!



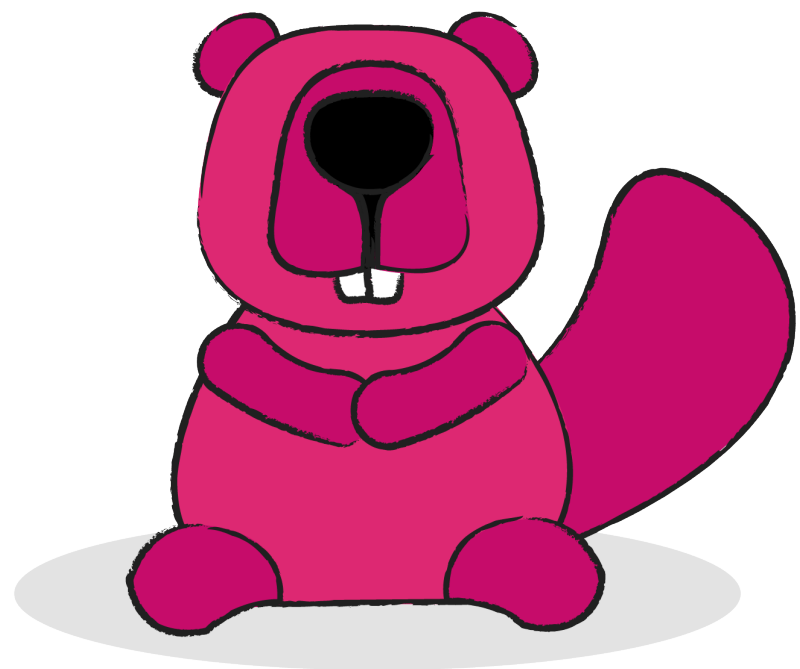
HOT OBSERVABLE



HOT OBSERVABLE



HOT OBSERVABLE



CLICK
EVENTS

PUSH
NOTIFICATIONS

KEYBOARD
INPUT

READING
A FILE

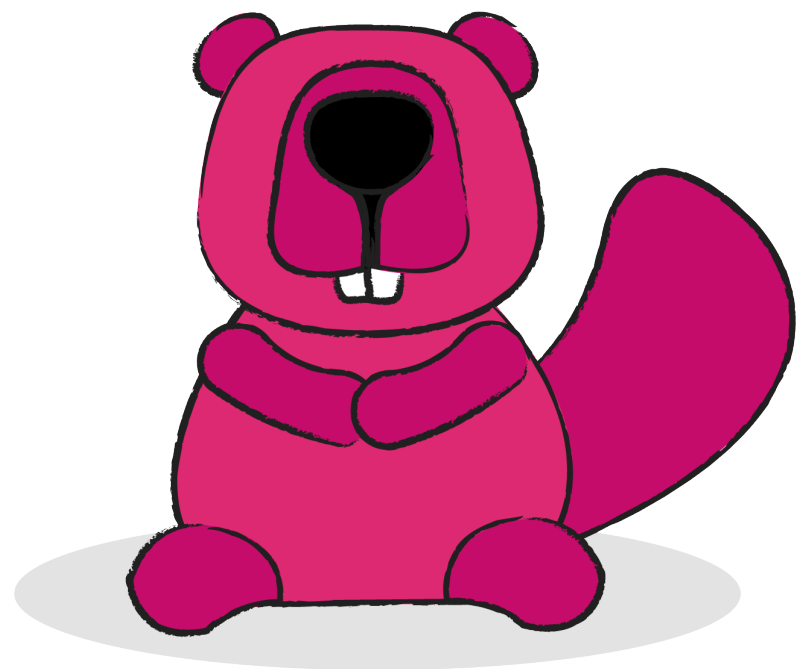
DATABASE
ACCESS

DEVICE
SENSOR
UPDATES

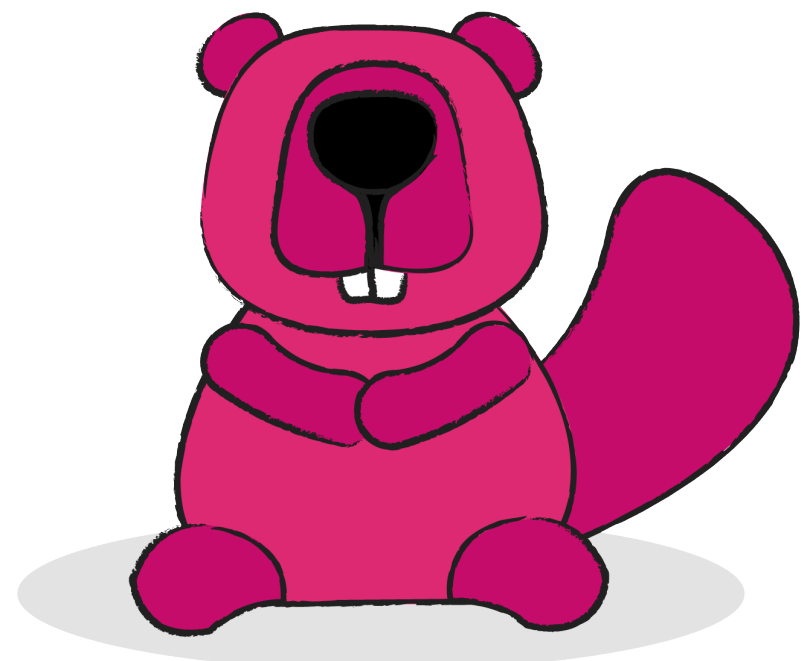
COLD OBSERVABLE



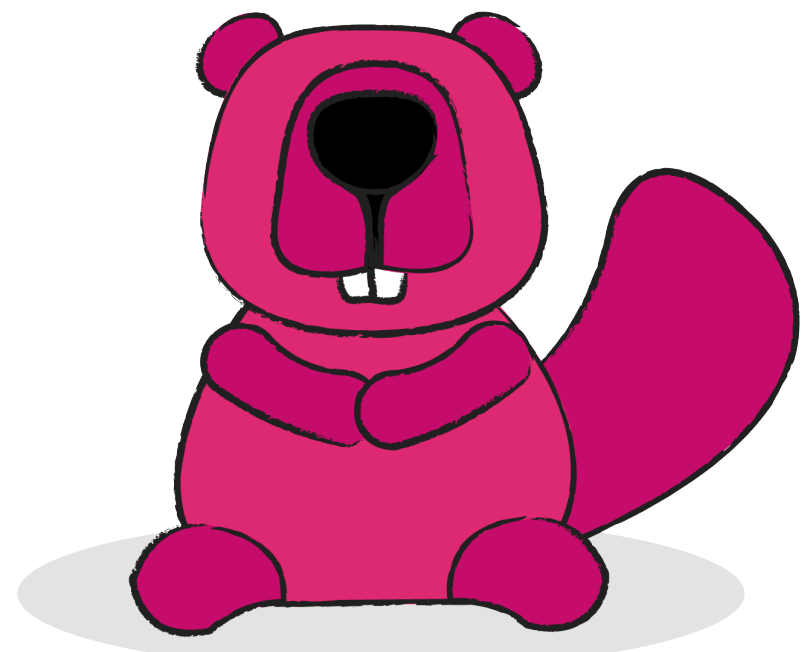
COLD OBSERVABLE



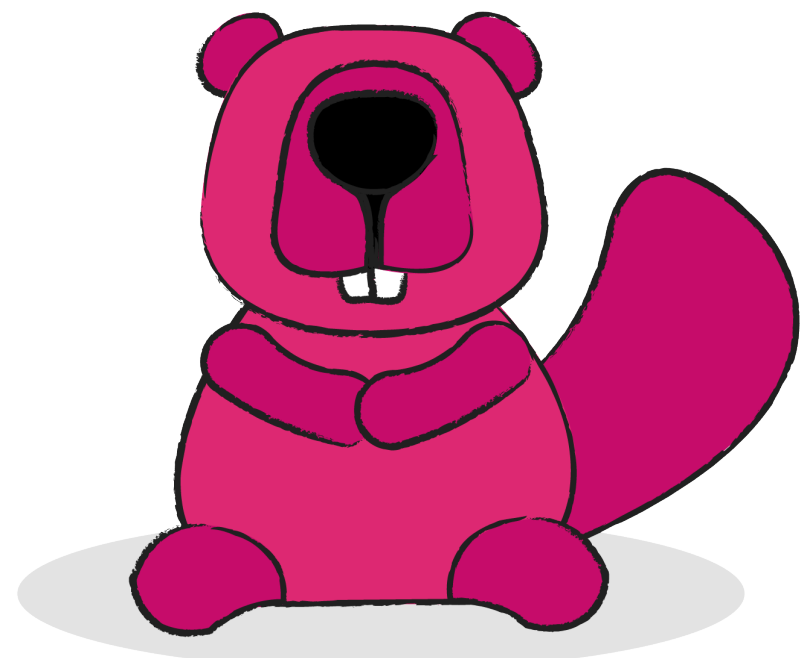
COLD OBSERVABLE



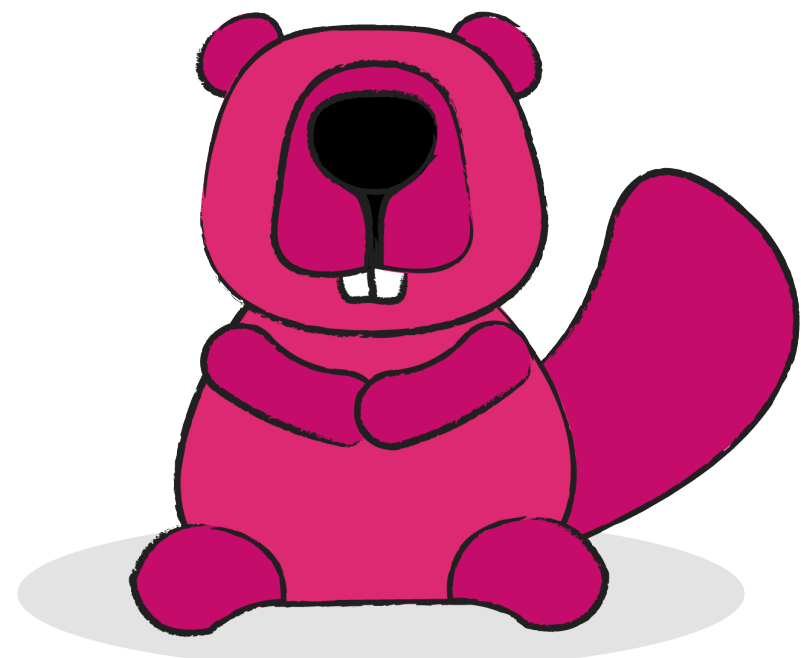
COLD OBSERVABLE



COLD OBSERVABLE



COLD OBSERVABLE



CLICK
EVENTS

PUSH
NOTIFICATIONS

KEYBOARD
INPUT

READING
A FILE

DATABASE
ACCESS

DEVICE
SENSOR
UPDATES

WHERE?



```
Observable.create<Int> { subscriber -> }
```

```
Observable.create<Int> { subscriber -> }
```

```
Observable.just(item1, item2, item3)
```

```
Observable.create<Int> { subscriber -> }
```

```
Observable.just(item1, item2, item3)
```

```
Observable.interval(2, TimeUnit.SECONDS)
```

```
Observable.create<Int> { subscriber ->
```

```
}
```



```
Observable.create<Int> { subscriber ->
    Logger.log("create")

    Logger.log("complete")
}

Logger.log("done")
```

```
Observable.create<Int> { subscriber ->
    Logger.log("create")
    subscriber.onNext(5)
    subscriber.onNext(6)
    subscriber.onNext(7)

    Logger.log("complete")
}

Logger.log("done")
```

```
Observable.create<Int> { subscriber ->
    Logger.log("create")
    subscriber.onNext(5)
    subscriber.onNext(6)
    subscriber.onNext(7)
    subscriber.onComplete()
    Logger.log("complete")
}
```

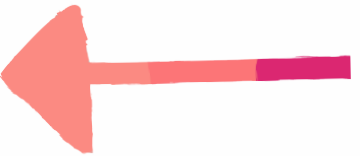
```
Logger.log("done")
```

```
28
29 @Test
30 fun testCreate_withNoSubscriber() {
31     val observable = Observable.create<Int> { subscriber ->
32         Logger.log(msg: "create")
33         subscriber.onNext(value: 5)
34         subscriber.onNext(value: 6)
35         subscriber.onNext(value: 7)
36         subscriber.onComplete()
37         Logger.log(msg: "complete")
38     }
39
40     Logger.log(msg: "done")
41 }
42
```

Run ObservableCreateTest.testCreate_withNoSubscriber

Progress bar and test summary: 1 test passed - 11

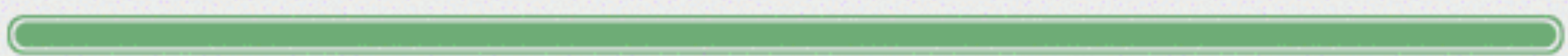
Test result: All Tests Passed 117ms



Run 'ObservableCreateTest.testCreate_withNoSubscriber' via ^P (Shift+F10 for Win/Linux)

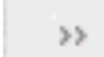
```
29 @Test
30 fun testCreate_withSubscriber() {
31     val observable = Observable.create<Int> { subscriber ->
32         Logger.log( msg: "create")
33         subscriber.onNext( value: 5)
34         subscriber.onNext( value: 6)
35         subscriber.onNext( value: 7)
36         subscriber.onComplete()
37         Logger.log( msg: "complete")
38     }
39
40     observable.subscribe{ Logger.log( msg: "next: $it") }
41
42     Logger.log( msg: "done")
43 }
```

Run ObservableCreateTest.testCreate_withSubscriber



1 test passed - 12

All Tests Passed 129ms

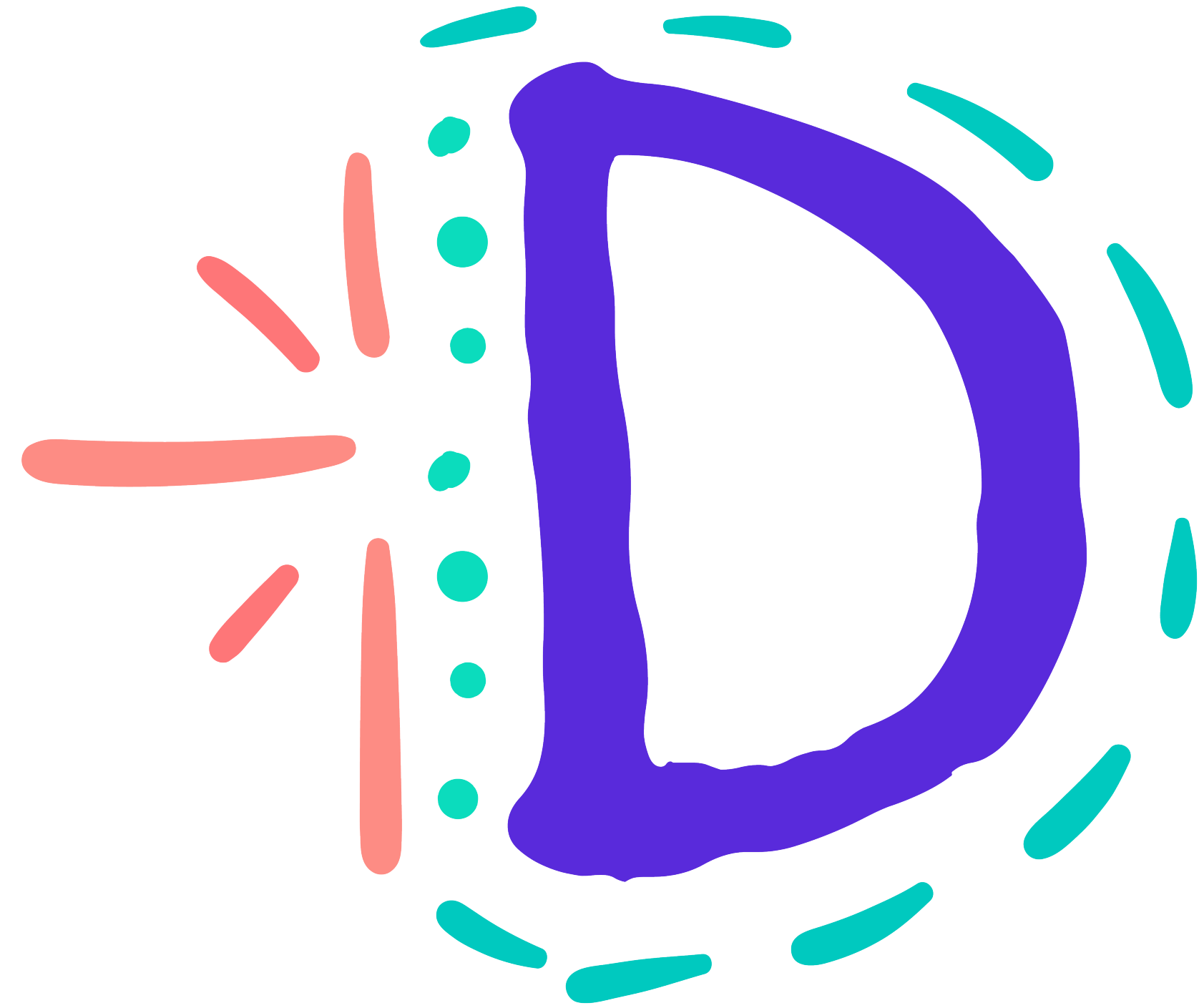


OBSERVABLES CAN. . . .

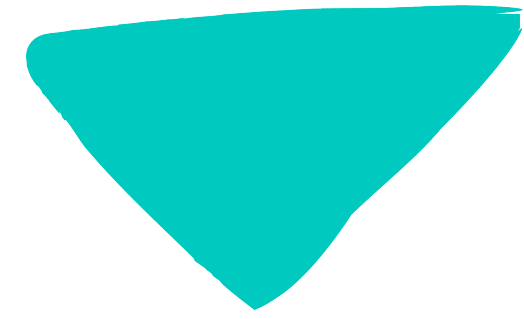
- A: EMIT ITEMS
- B: BE COLD
- C: BE HOT
- D: ALL OF THE ABOVE

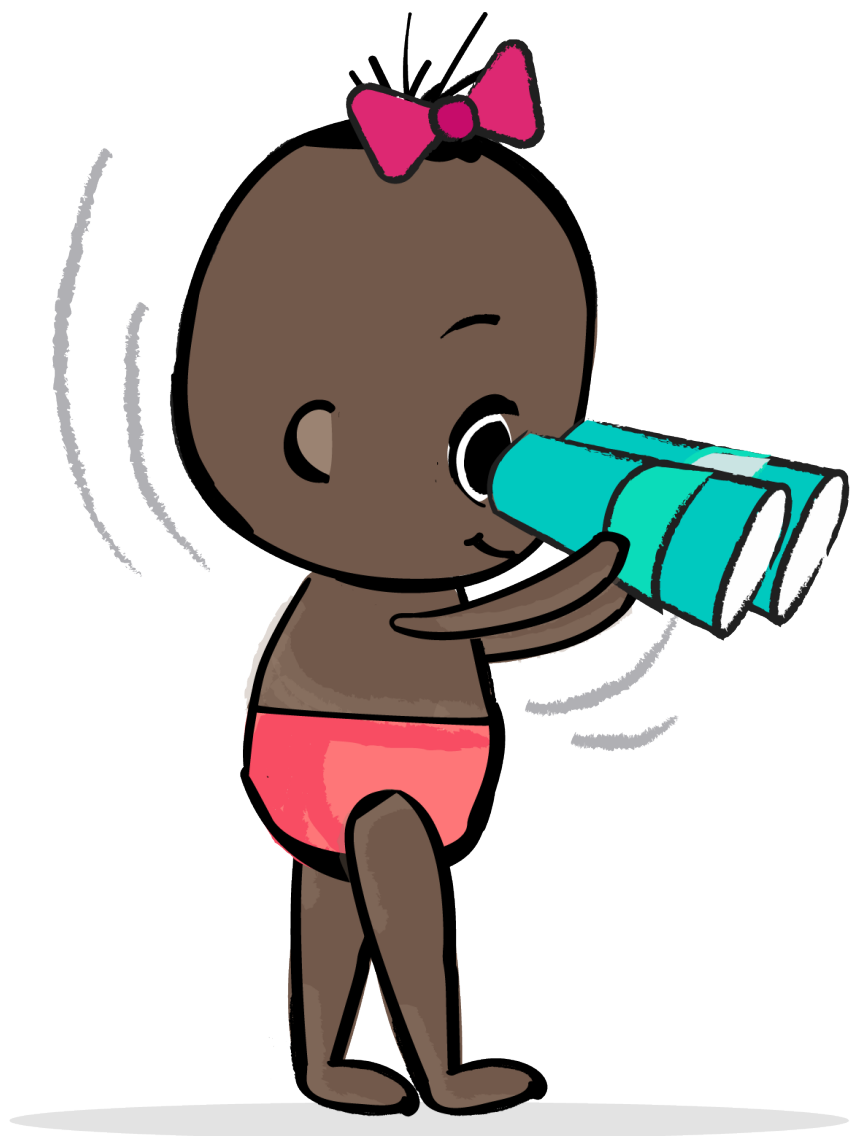
OBSERVABLES CAN. . . .

- A: EMIT ITEMS
- B: BE COLD
- C: BE HOT
- D: ALL OF THE ABOVE

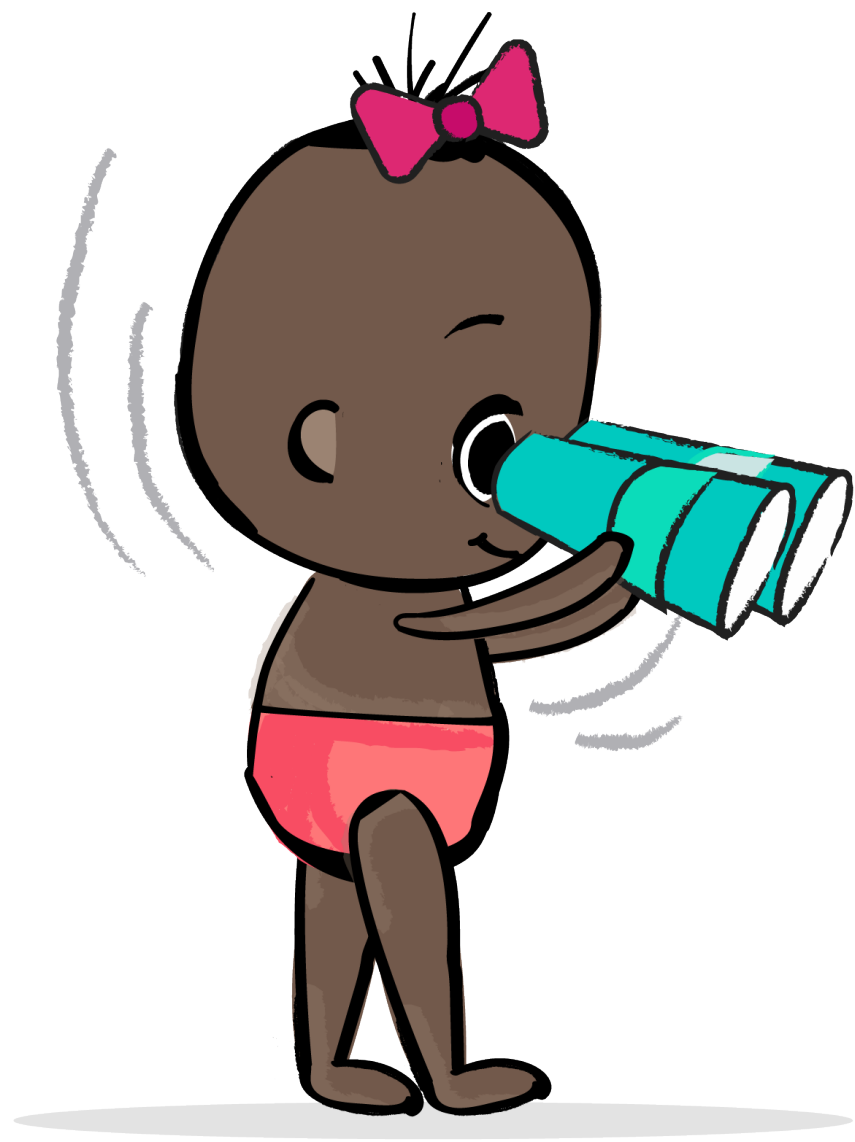


OBSERVER

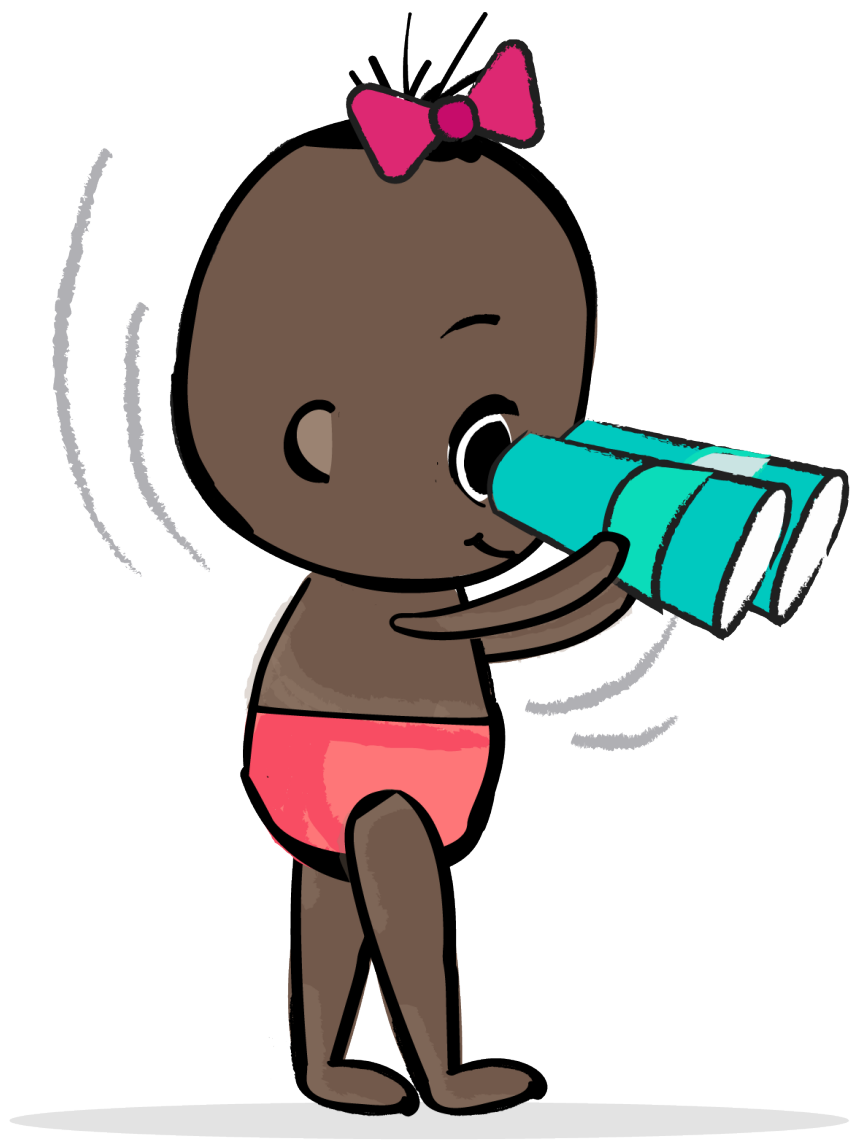




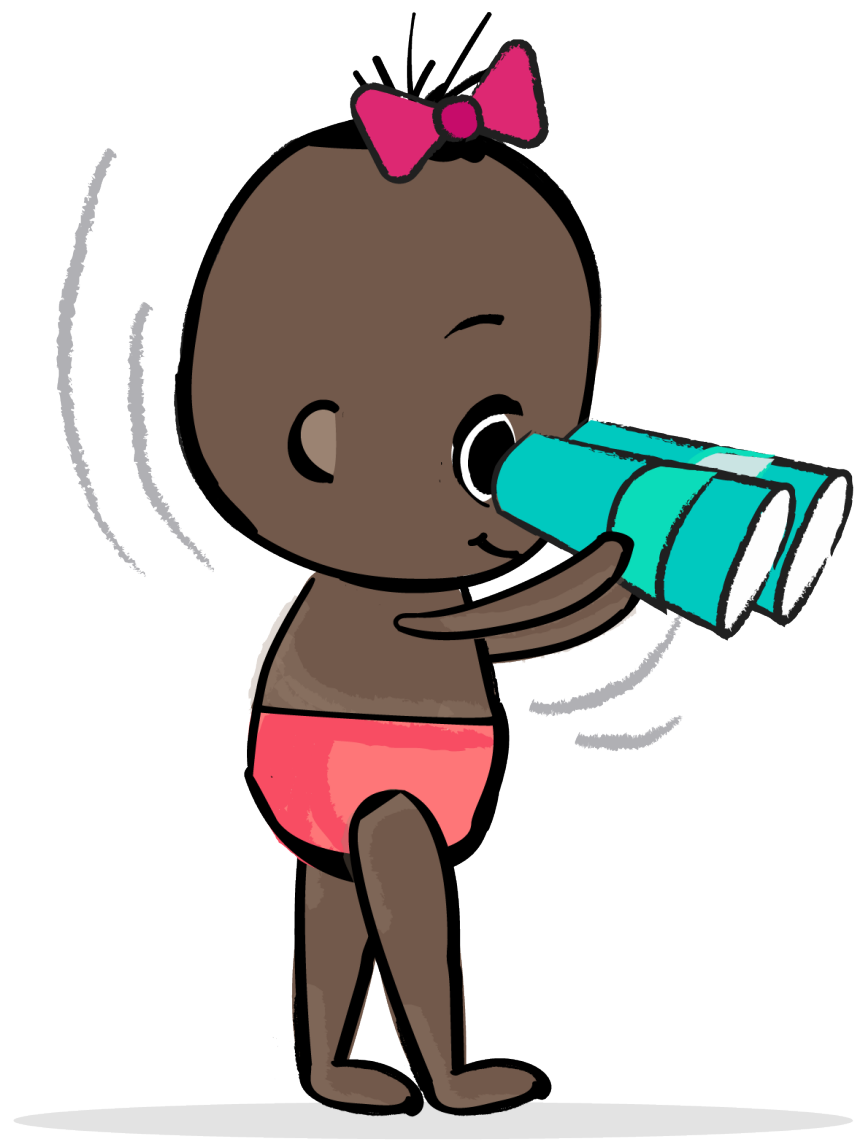
```
interface Observer<T> {  
    fun onError(e: Throwable)  
  
    fun onComplete()  
  
    fun onNext(t: T)  
  
    fun onSubscribe(d: Disposable)  
}
```



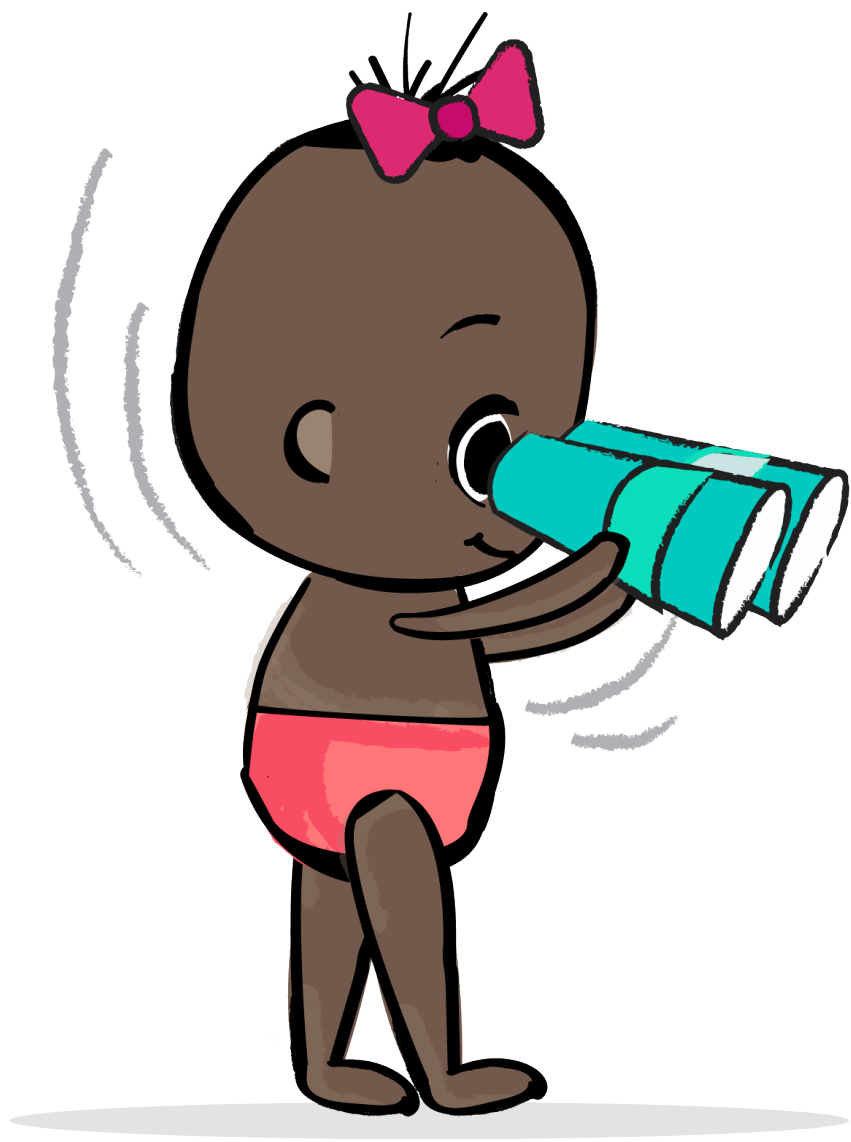
```
interface Observer<T> {  
    fun onError(e: Throwable)  
  
    fun onComplete()  
  
    fun onNext(t: T)  
  
    fun onSubscribe(d: Disposable)  
}
```



```
interface Observer<T> {  
    fun onError(e: Throwable)  
  
    fun onComplete()  
  
    fun onNext(t: T)  
  
    fun onSubscribe(d: Disposable)  
}
```

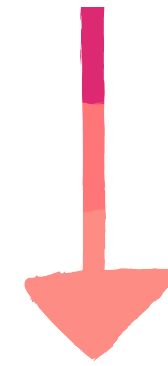


```
interface Observer<T> {  
    fun onError(e: Throwable)  
  
    fun onComplete()  
  
    fun onNext(t: T)  
  
    fun onSubscribe(d: Disposable)  
}
```



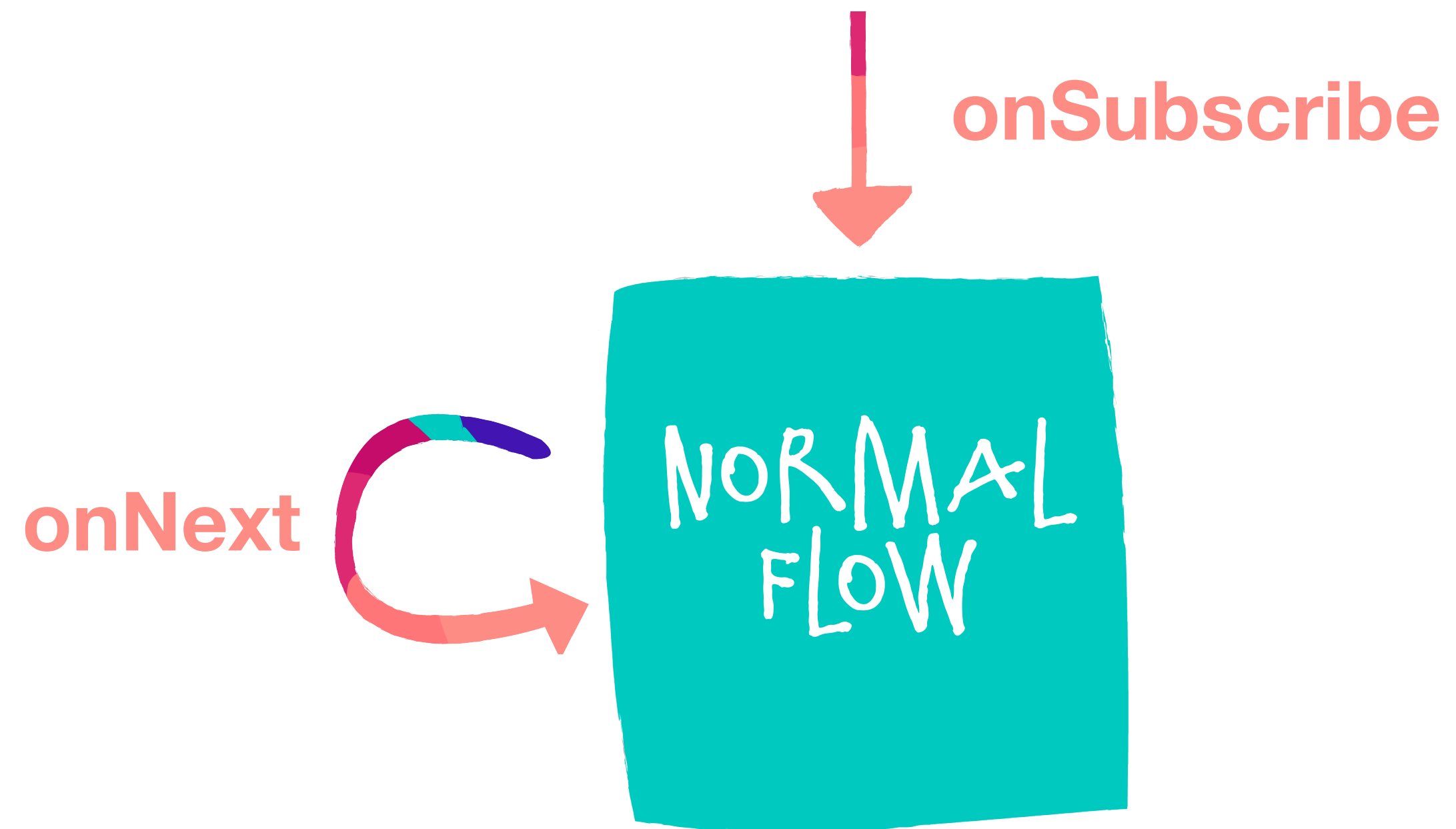
```
interface Observer<T> {  
    fun onError(e: Throwable)  
  
    fun onComplete()  
  
    fun onNext(t: T)  
  
    fun onSubscribe(d: Disposable)  
}
```

OBSERVER'S LIFECYCLE

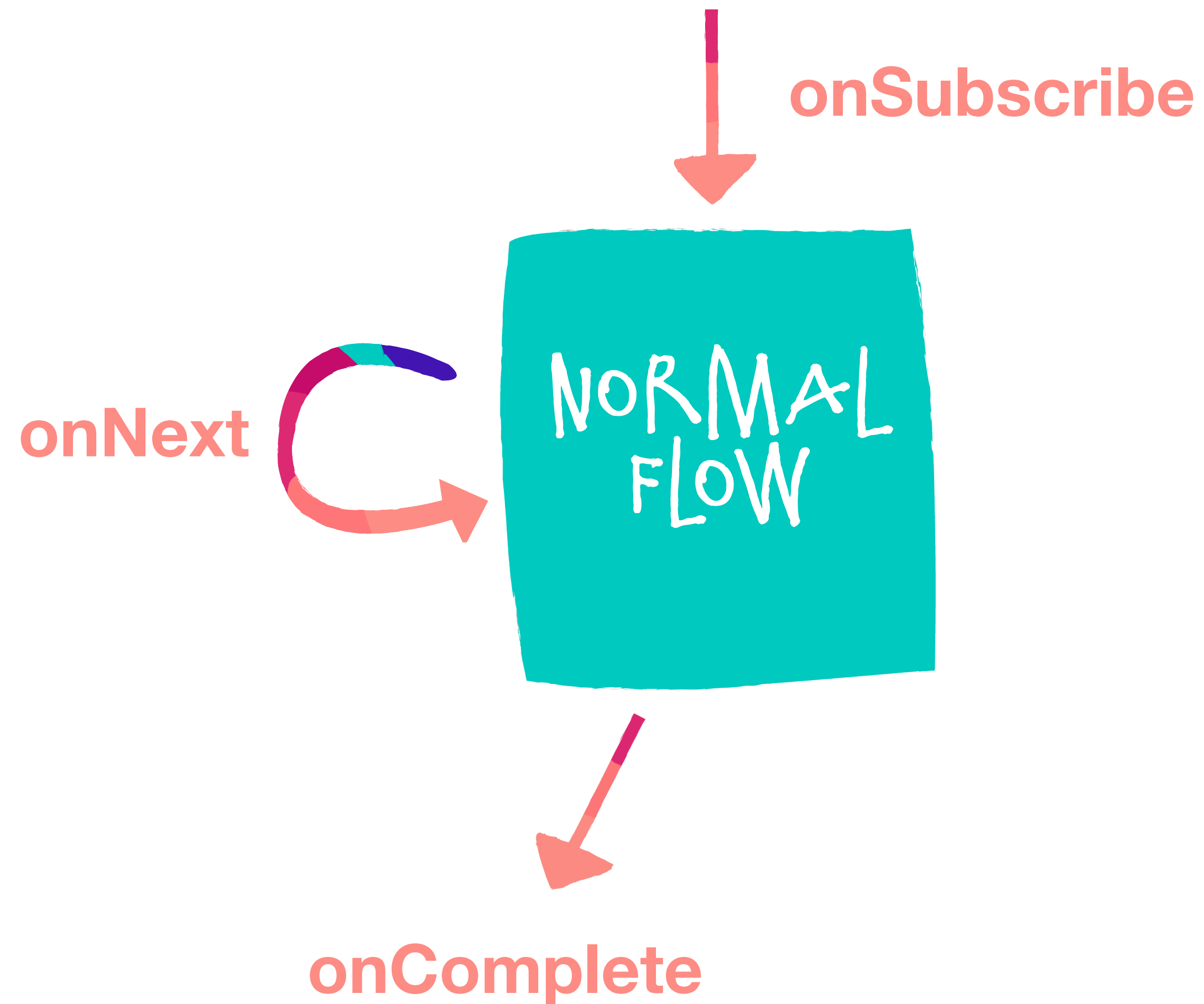


onSubscribe

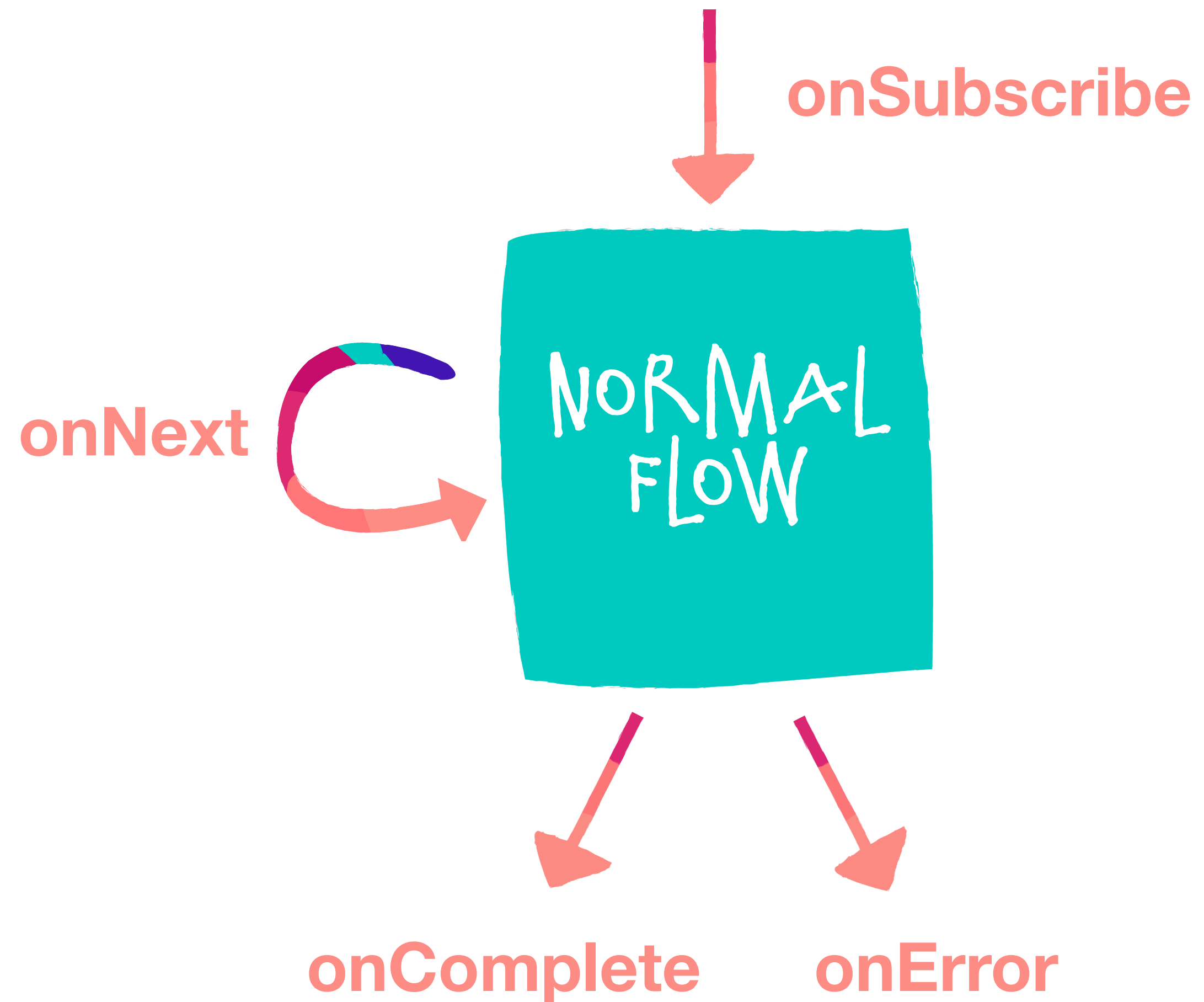
OBSERVER'S LIFECYCLE



OBSERVER'S LIFECYCLE



OBSERVER'S LIFECYCLE



```
val observer = object : Observer<Int> {  
    override fun onError(e: Throwable) {  
        Logger.log(e)  
    }  
  
    override fun onComplete() {  
        Logger.log("on complete")  
    }  
  
    override fun onNext(t: Int) {  
        Logger.log("next: $t")  
    }  
  
    override fun onSubscribe(d: Disposable) {  
        Logger.log("on subscribe")  
    }  
}
```

```
67     override fun onComplete() {
68         Logger.log(msg: "on complete")
69     }
70
71     override fun onNext(t: Int) {
72         Logger.log(msg: "next: $t")
73     }
74
75     override fun onSubscribe(d: Disposable) {
76         Logger.log(msg: "on subscribe")
77     }
78 }
79
80 observable.subscribe(observer)
```



Run ObservableCreateTest.testCreate_withExplicitSubscriberFull



1 test passed

All Tests Passed 173ms

Run 'ObservableCreateTest.testCreate' via ⌘R (Shift+F10 for Win/Linux)



```
interface Consumer<T> {  
    fun accept(t: T)  
}
```

```
val consumer = object : Consumer<Int> {  
  
    override fun accept(t: Int) {  
        Logger.log("next: $t")  
    }  
  
}
```

```
subscriber.onNext(value: 6)
subscriber.onNext(value: 7)
subscriber.onComplete()
Logger.log(msg: "complete")
```

```
val consumer = object : Consumer<Int> {
    override fun accept(t: Int) {
        Logger.log(msg: "next: $t")
    }
}
```

```
observable.subscribe(consumer)
```

ObservableCreateTest.testCreate_withExplicitSubscriberFull



1 test passed

All Tests Passed

148ms

```
1507747777513: main: create
1507747777513: main: next: 5
1507747777513: main: next: 6
1507747777513: main: next: 7
1507747777513: main: complete
```

Process finished with exit code 0

```
subscriber.onNext( value: 6)
subscriber.onNext( value: 7)
subscriber.onComplete()
Logger.log( msg: "complete")
}

val consumer = object : Consumer<Int> {
    override fun accept(t: Int) {
        Logger.log( msg: "next: $t")
    }
}

observable.subscribe(consumer)
}
```

ObservableCreateTest.testCreate_withExplicitSubscriberFull



All Tests Passed

148ms

```
1507747777513: main: create
1507747777513: main: next: 5
1507747777513: main: next: 6
1507747777513: main: next: 7
1507747777513: main: complete
```

CONSUMER

```
val consumer = Consumer<Int> { t -> Logger.log("next: $t") }  
obs.subscribe(consumer)
```


CONSUMER

```
obs.subscribe(Consumer<Int> { t -> Logger.log("next: $t") })
```



CONSUMER

```
obs.subscribe({ t -> Logger.log("next: $t") })
```

CONSUMER

```
obs.subscribe{ t -> Logger.log("next: $t") }
```

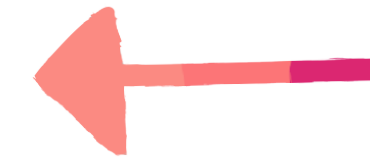
CONSUMER

```
obs.subscribe{ Logger.log("next: $it") }
```



@Test

```
fun testCreate_withExplicitSubscriberFull() {  
    val observable = Observable.create<Int> { subscriber ->  
        Logger.log(msg: "create")  
        subscriber.onNext(value: 5)  
        subscriber.onNext(value: 6)  
        subscriber.onNext(value: 7)  
        subscriber.onComplete()  
        Logger.log(msg: "complete")  
    }  
  
    observable.subscribe { Logger.log(msg: "next: $it") }  
}
```



ObservableCreateTest.testCreate_withExplicitSubscriberFull



1 test passed

All Tests Passed

250ms

```
1507749694482: main: create  
1507749694482: main: next: 5  
1507749694482: main: next: 6  
1507749694482: main: next: 7  
1507749694482: main: complete
```



Process finished with exit code 0

OBSERVERS. . .

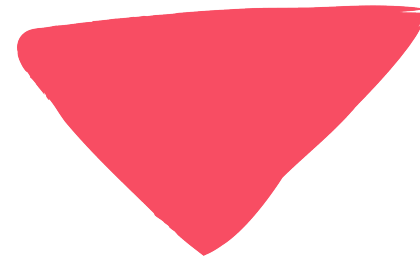
- A: HAVE A LIFECYCLE
- B: ALWAYS COMPLETE
- C: NEVER ERROR
- D: ALL OF THE ABOVE

OBSERVERS. . .

- A: HAVE A LIFECYCLE
- B: ALWAYS COMPLETE
- C: NEVER ERROR
- D: ALL OF THE ABOVE



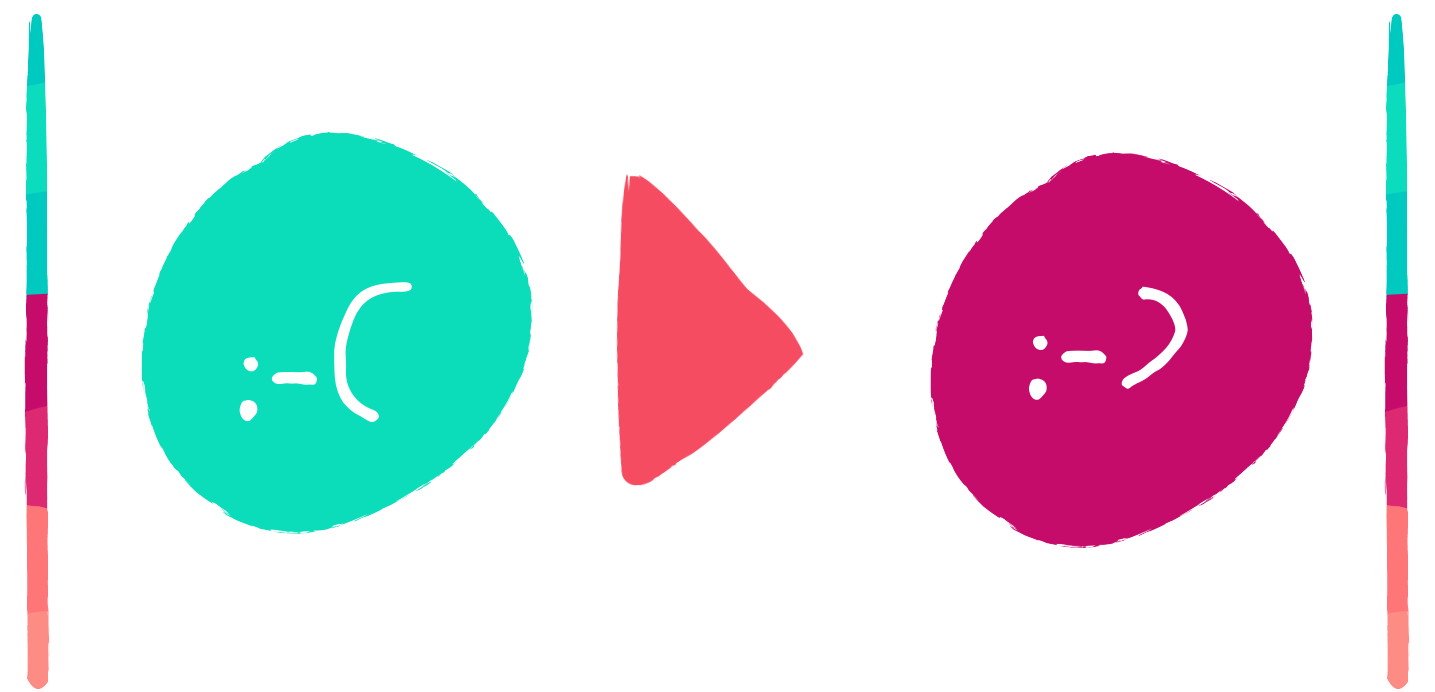
OPERATOR



OPERATOR: MAPC()

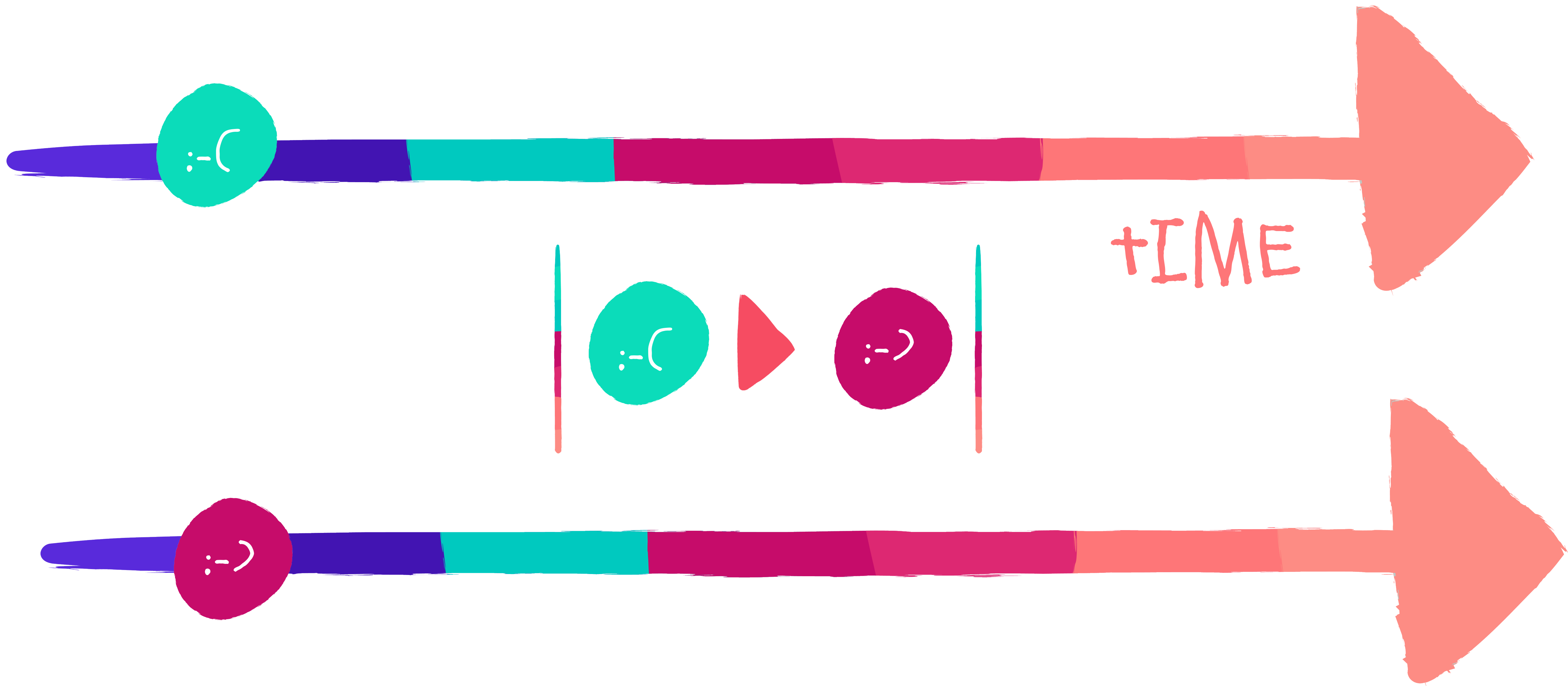


OPERATOR: MAP()

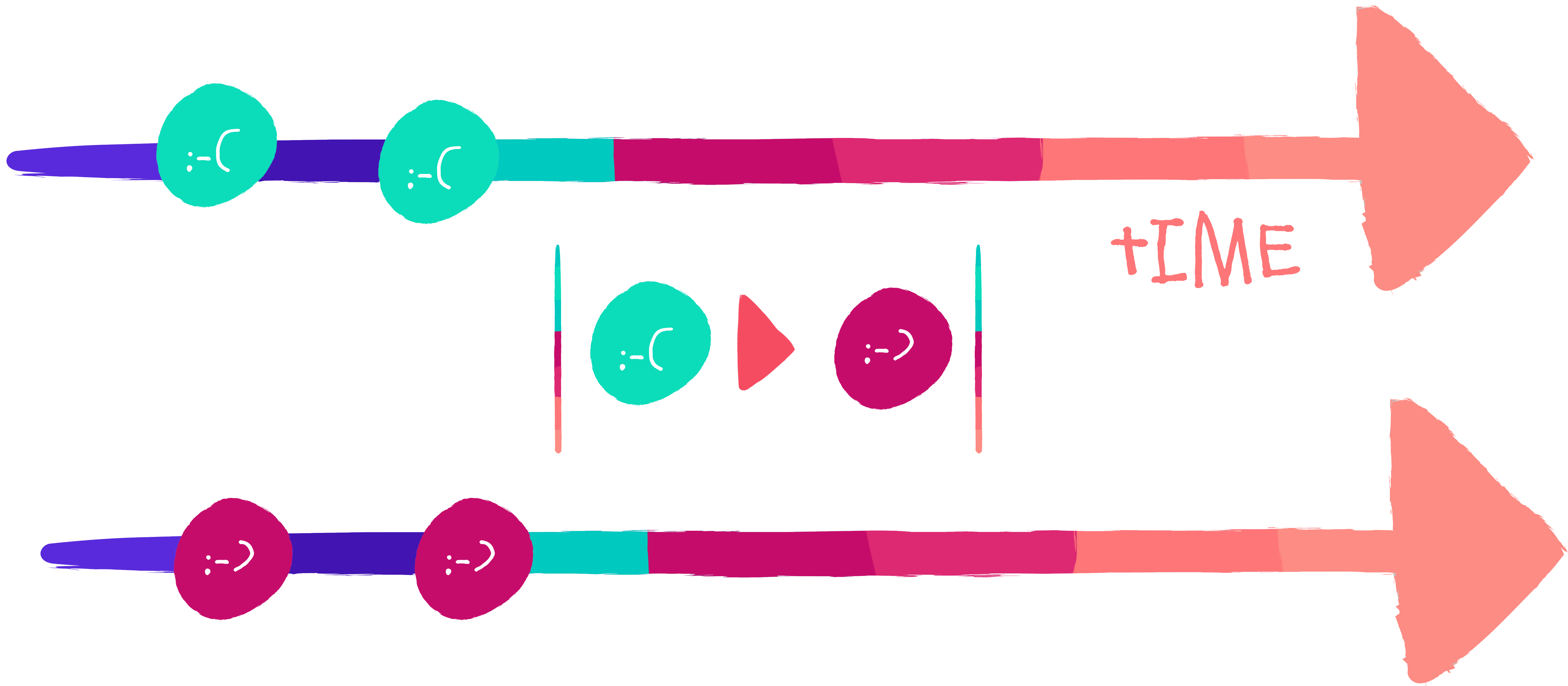


TIME

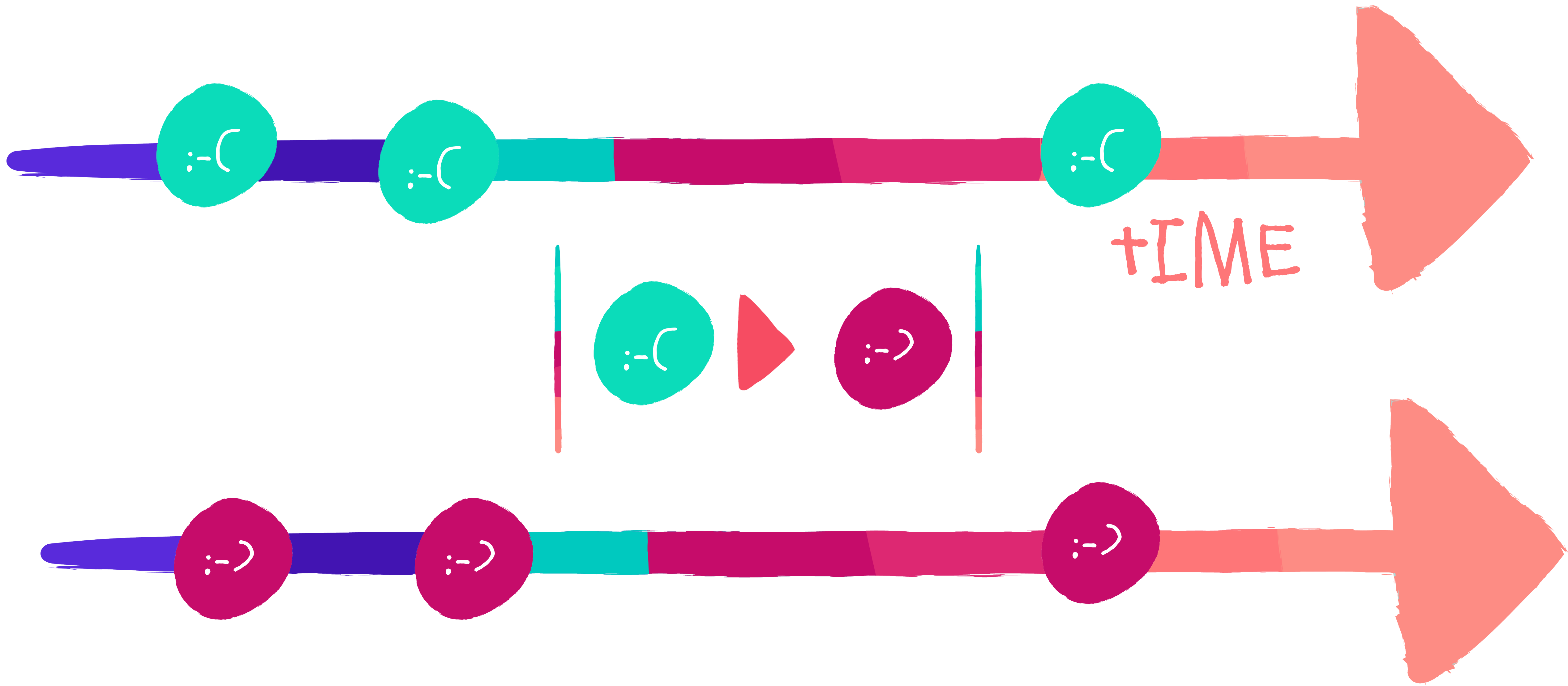
OPERATOR: MAP()



OPERATOR: MAP()



OPERATOR: MAP()



OPERATOR: MAP()

```
Observable.just(5, 6, 7)
  .map { ";-)" .repeat(it) }
  .subscribe { println(it) }
```

OPERATOR: MAP()

```
Observable.just(5, 6, 7)
  .map { ";-)" }.repeat(it) }
  .subscribe { println(it) }
```

```
;-) ;-) ;-) ;-) ;-)
;-) ;-) ;-) ;-) ;-) ;-)
;-) ;-) ;-) ;-) ;-) ;-) ;-)
```

OPERATOR: MAP()

```
Observable.just(5, 6, 7)
    .map(object: Function<Int, String> {
        override fun apply(t: Int): String {
            return ";-) ".repeat(t)
        }
    })
    .subscribe { println(it) }
```


OPERATOR: MAP()

```
Observable.just(5, 6, 7)
    .map(object: Function<Int, String> {
        override fun apply(t: Int): String {
            return ";-)".repeat(t)
        }
    })
    .subscribe { println(it) }
```

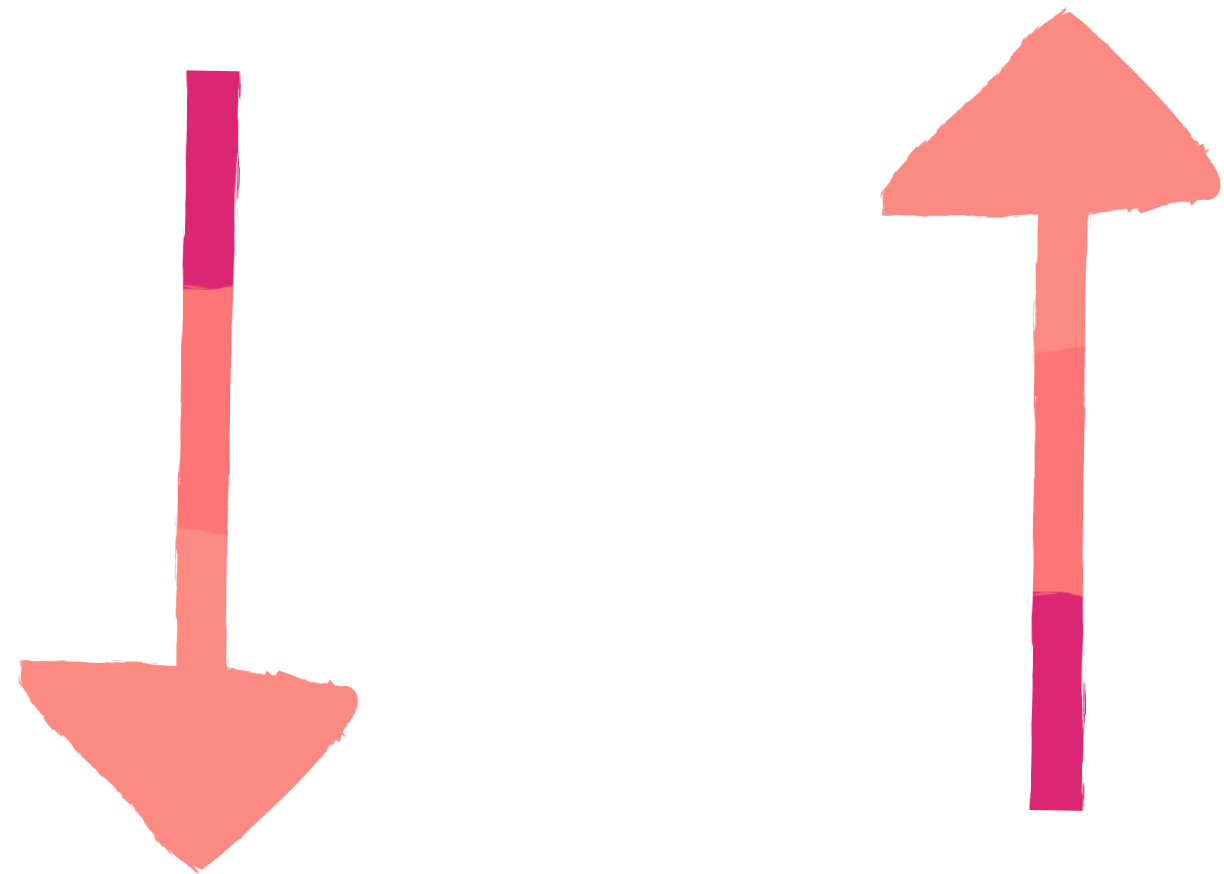
OPERATOR: MAP()

```
Observable.just(5, 6, 7)
    .map(object: Function<Int, String> {
        override fun apply(t: Int): String {
            return ";-) ".repeat(t)
        }
    })
    .subscribe { println(it) }
```

OPERATOR: MAP()

```
Observable.just(5, 6, 7)
    .map(object: Function<Int, String> {
        override fun apply(t: Int): String {
            return ";-) ".repeat(t)
        }
    })
    .subscribe { println(it) }
```

```
.map(object: Function<Int, String> {  
    override fun apply(t: Int): String {  
        return ";-) ".repeat(t)  
    }  
})
```



```
.map { ";-) ".repeat(it) }
```



WHAT'S THE OUTPUT?

```
Observable.just(1, 2, 3)
  .map { it * 2 }
  .subscribe { println(it) }
```

WHAT'S THE OUTPUT?

```
Observable.just(1, 2, 3)
  .map { it * 2 }
  .subscribe { println(it) }
```

A: 1, 2, 3

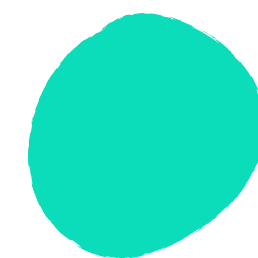
B: A, B, C

C: 2, 4, 6

D: 6, 2, 4

WHAT'S THE OUTPUT?

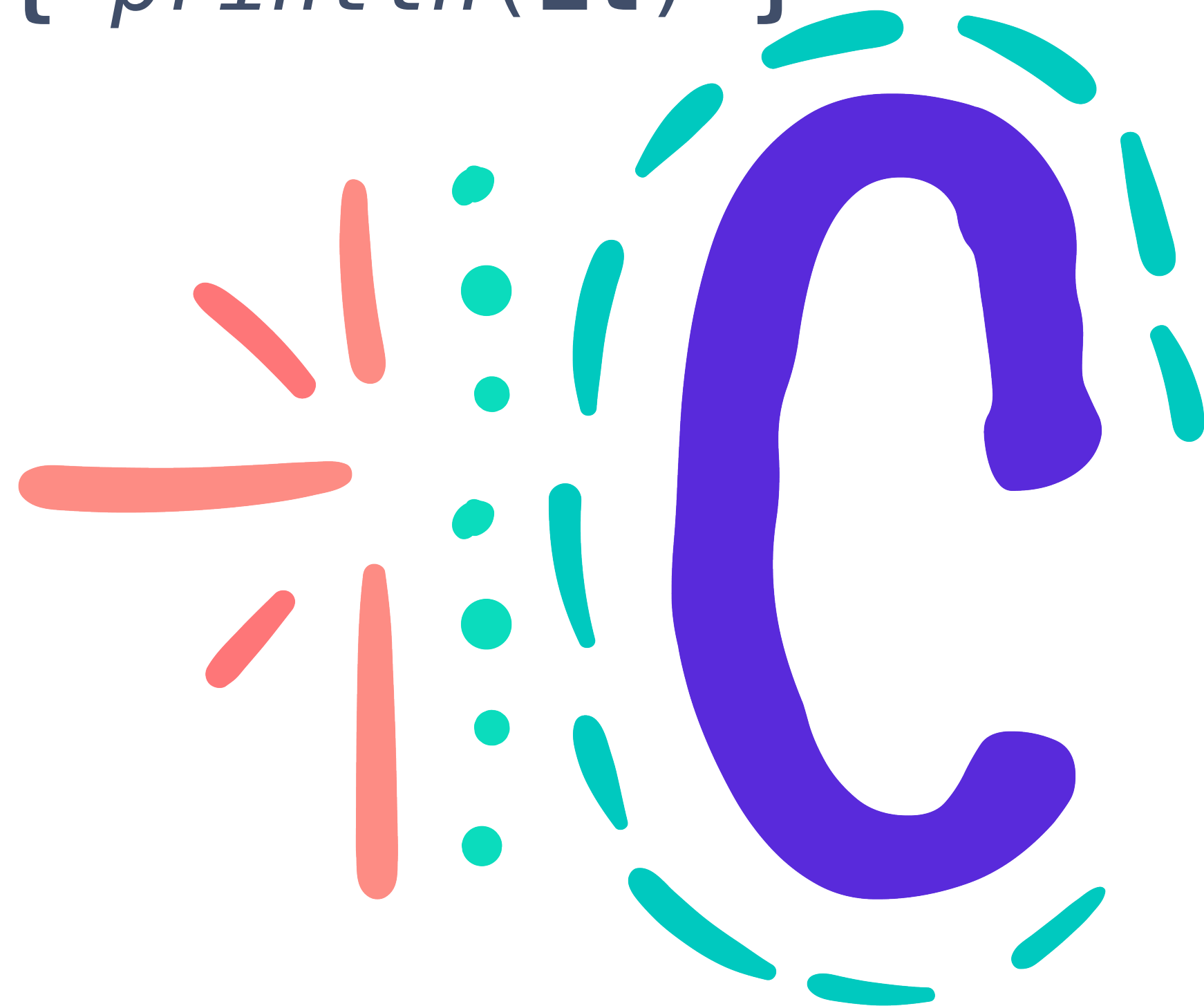
```
Observable.just(1, 2, 3)  
  .map { it * 2 }  
  .subscribe { println(it) }
```

 A: 1, 2, 3

 B: A, B, C

 C: 2, 4, 6

 D: 6, 2, 4



WHAT'S THE OUTPUT?

```
Observable.just(1, 2, 3)
  .map { it * 2 }
  .filter { it < 6 }
  .subscribe { println(it) }
```

WHAT'S THE OUTPUT?

```
Observable.just(1, 2, 3)
  .map { it * 2 }
  .filter { it < 6 }
  .subscribe { println(it) }
```

A: 2, 3, 1

B: 2, 4

C: 1, 2, 3

D: 6, 4

WHAT'S THE OUTPUT?

```
Observable.just(1, 2, 3)
  .map { it * 2 }
  .filter { it < 6 }
  .subscribe { println(it) }
```

A: 2, 3, 1

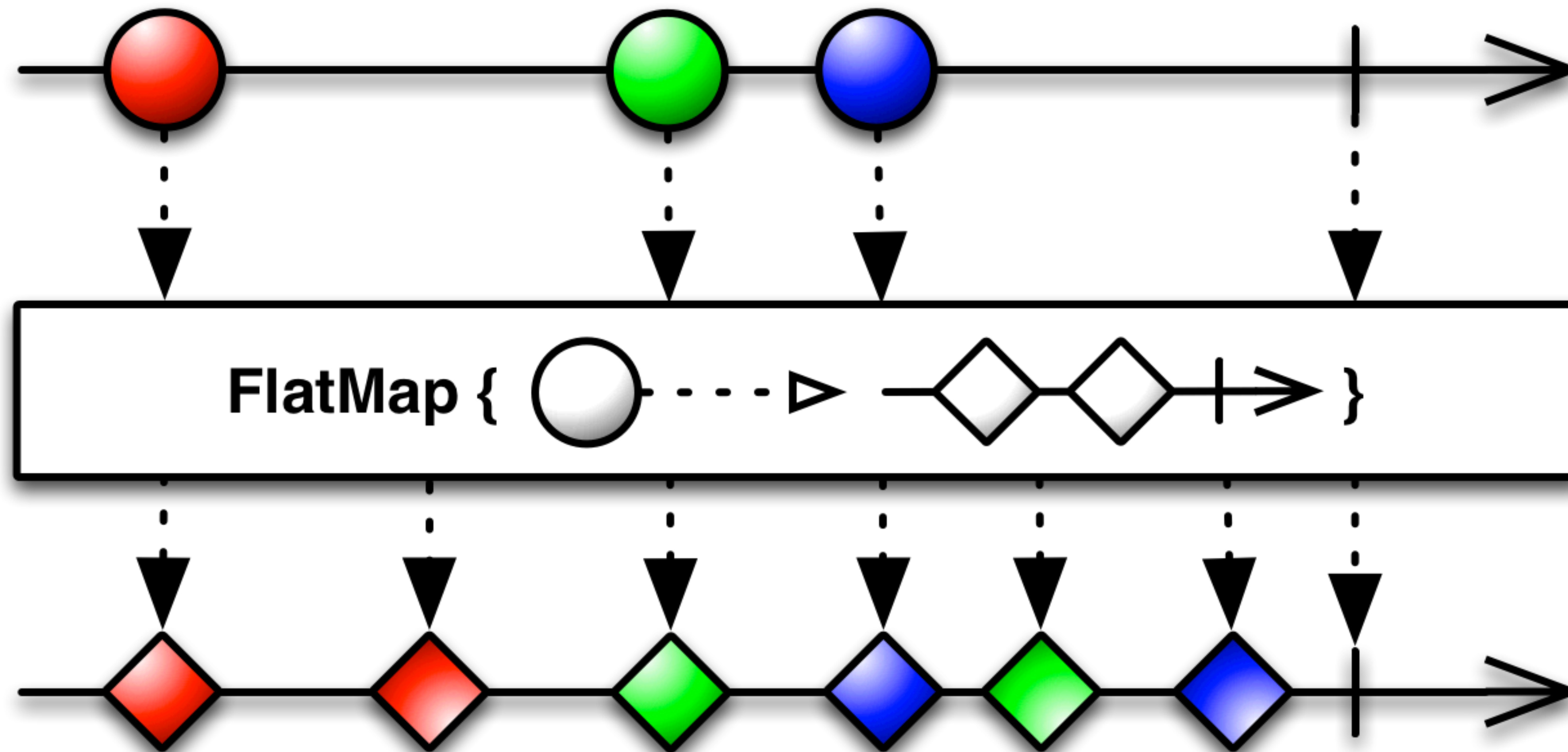
B: 2, 4

C: 1, 2, 3

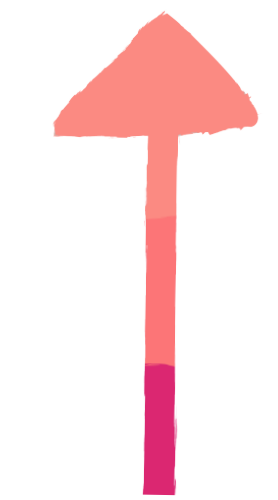
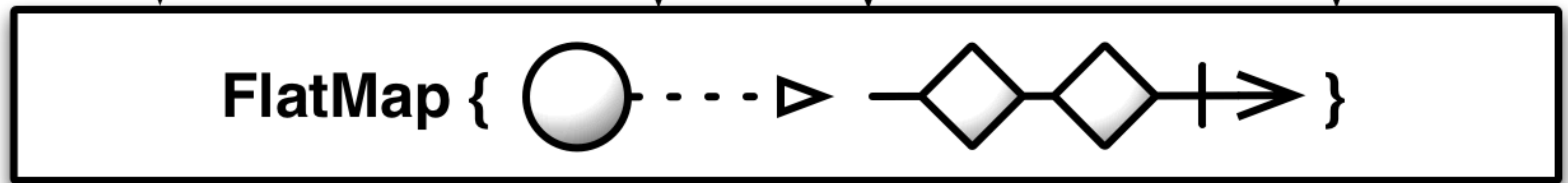
D: 6, 4



OPERATOR: FLATMAP()

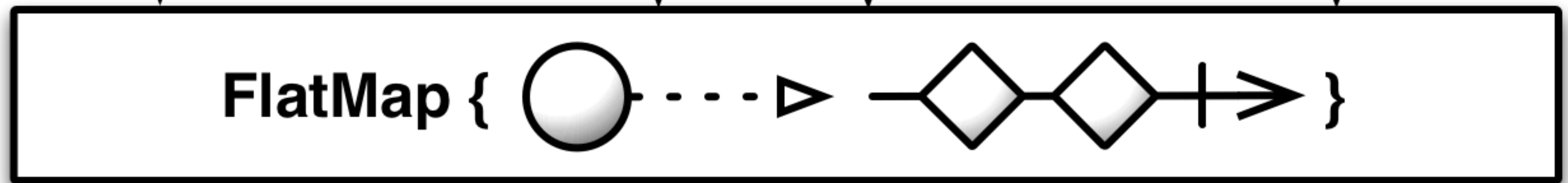


OPERATOR: FLATMAP()

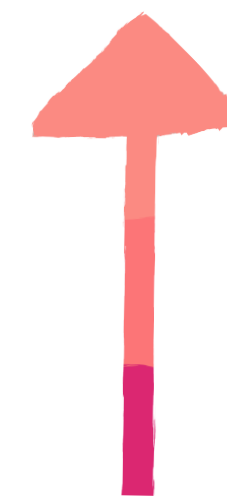


item

OPERATOR: FLATMAP()



item



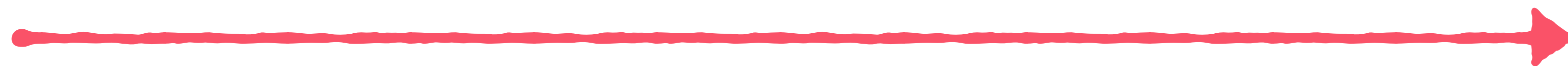
observable

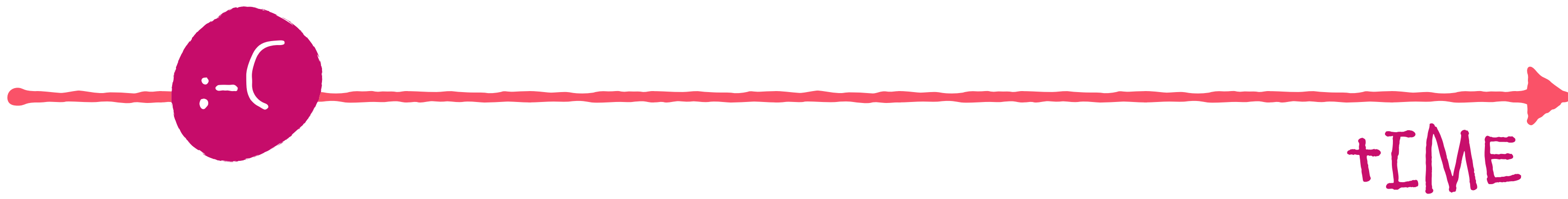
OPERATOR: FLATMAP()

```
Observable.just( :- ( , :- ( )  
  .flatMap( { Observable.just( ▼ ) } )  
  .subscribe { println(it) }
```



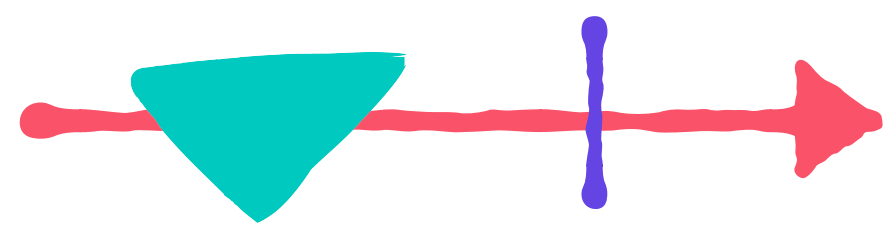
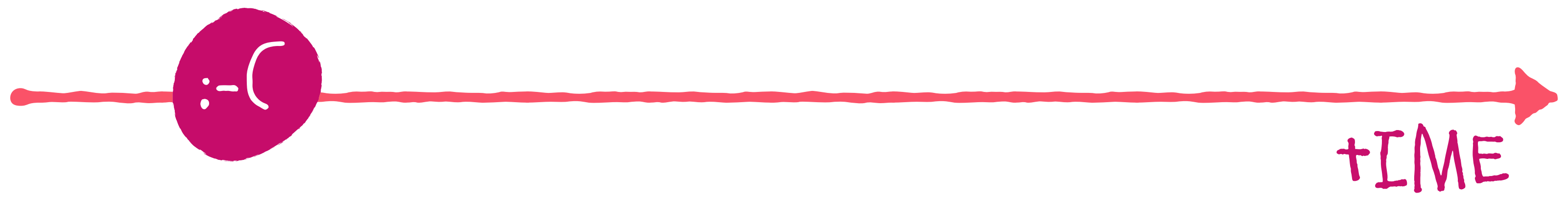
FLATMAP



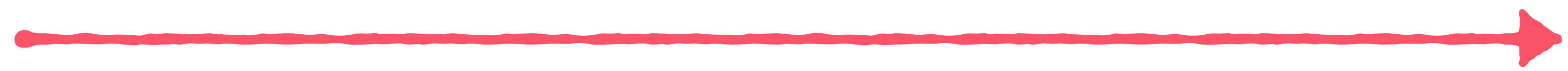


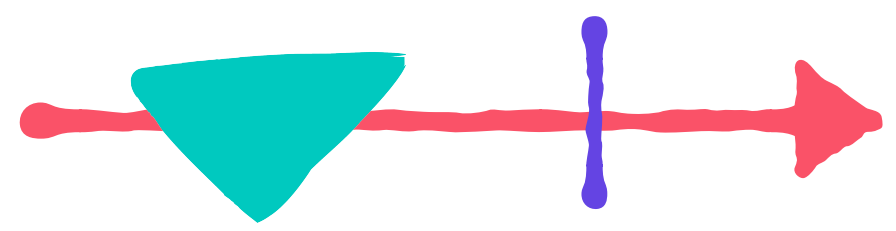
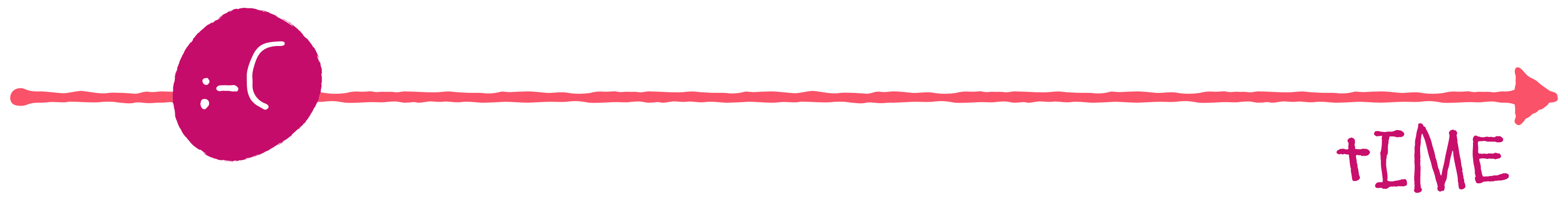
FLATMAP



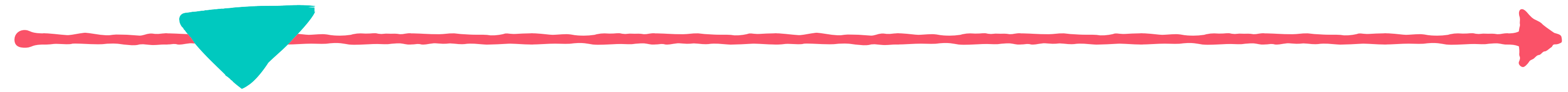


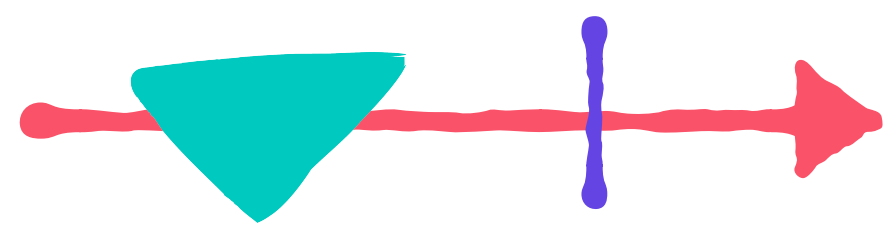
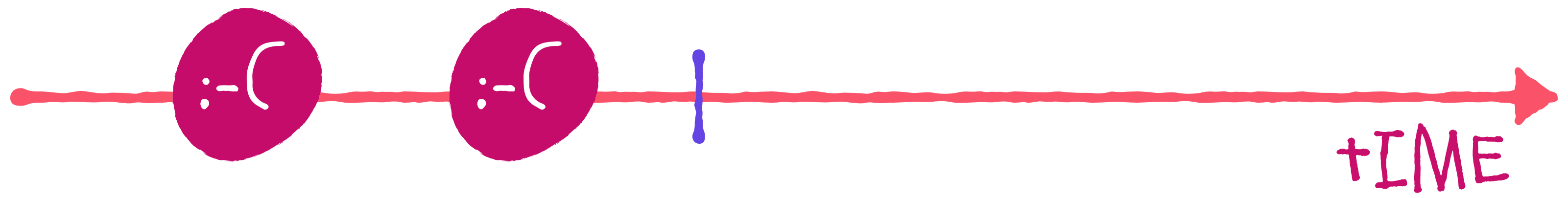
FLATMAP



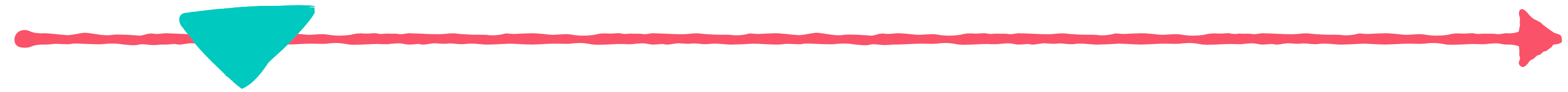


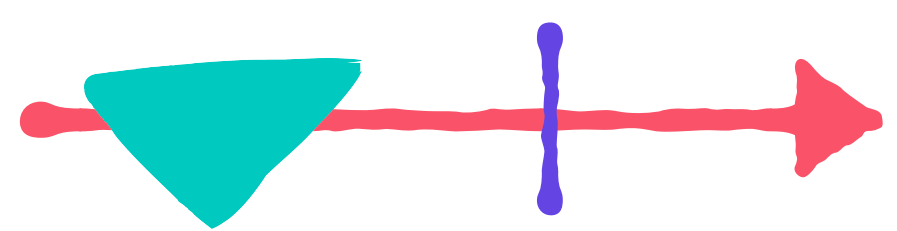
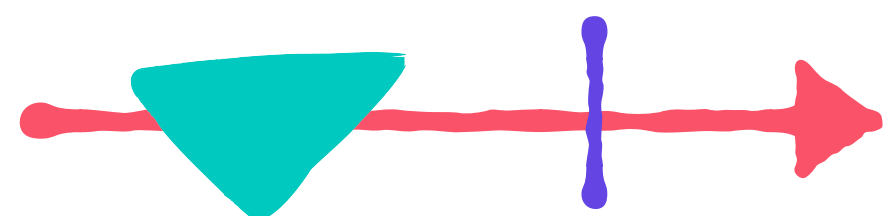
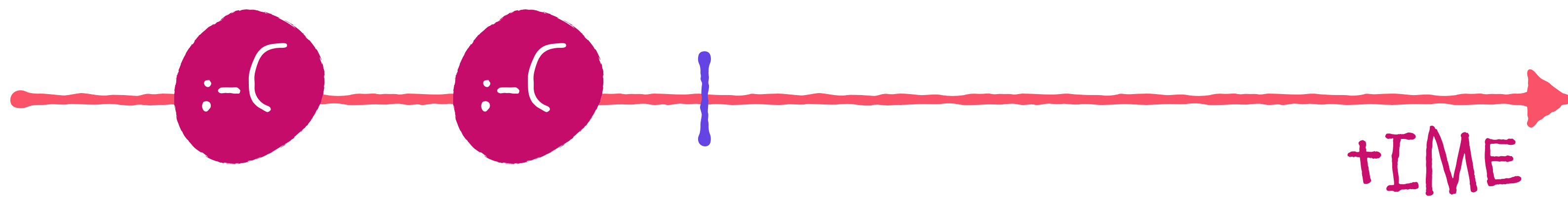
FLATMAP



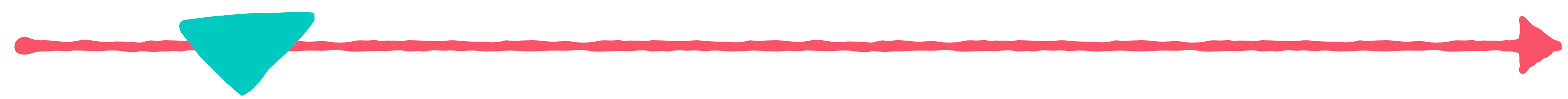


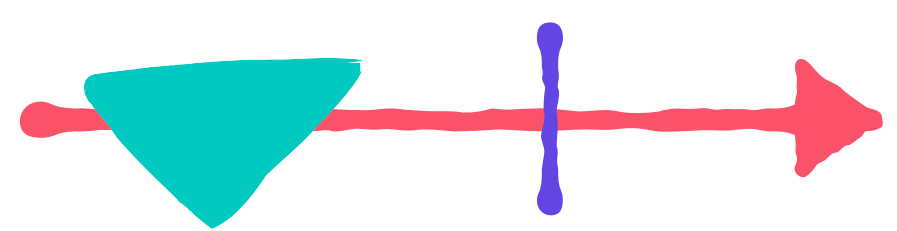
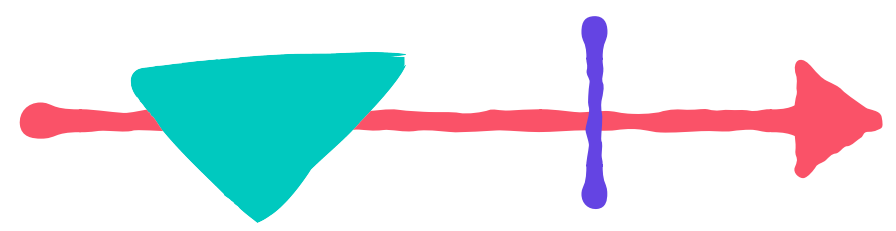
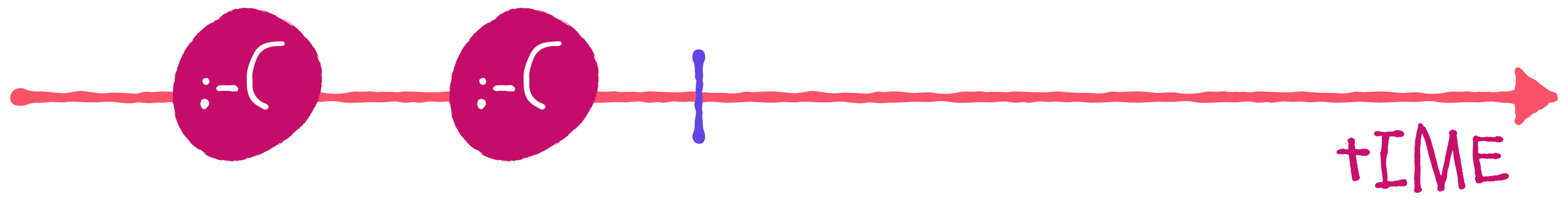
FLATMAP



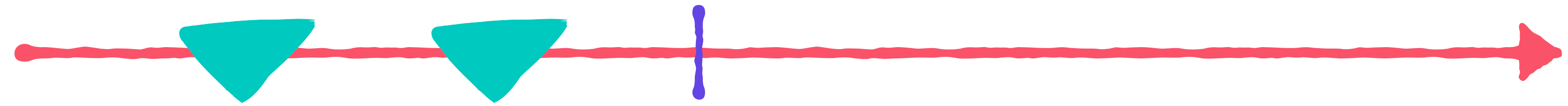


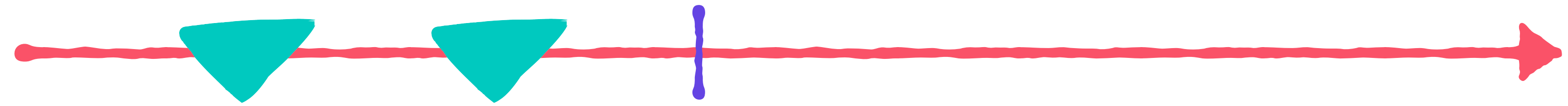
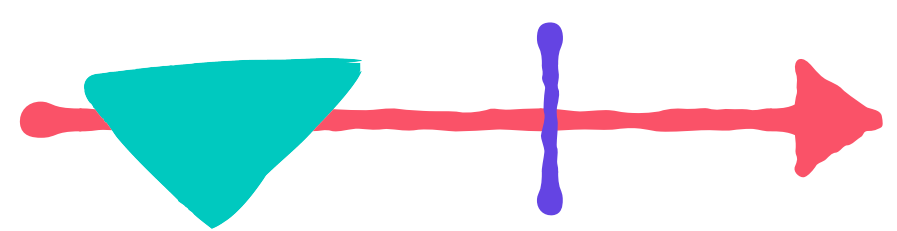
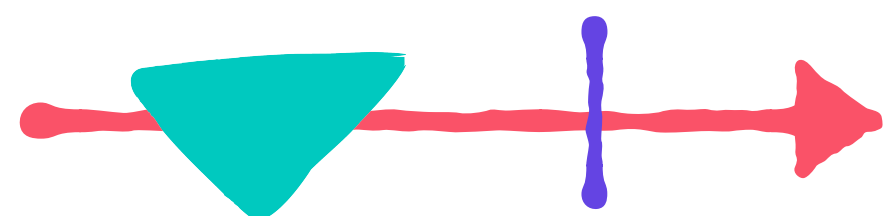
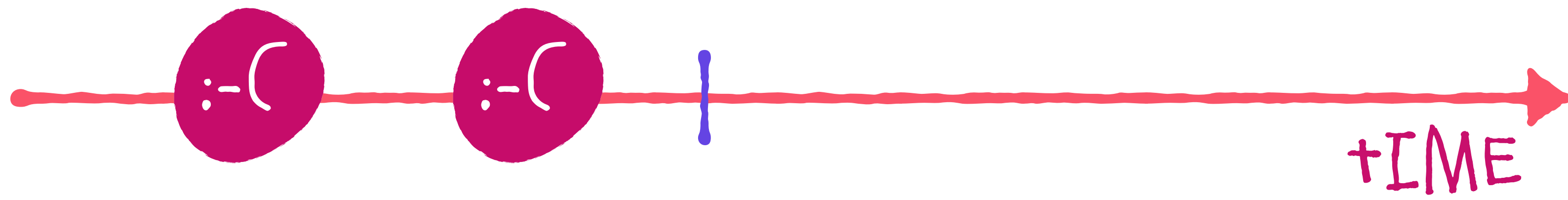
FLATMAP





FLATMAP





FLATMAP

LONG RUNNING

ASYNCHRONOUS

OPERATOR: FLATMAP()

```
val users // Observable<User>
```

OPERATOR: FLATMAP()

```
val users // Observable<User>  
val posts: Observable<Post>
```

OPERATOR: FLATMAP()

```
val users // Observable<User>
```

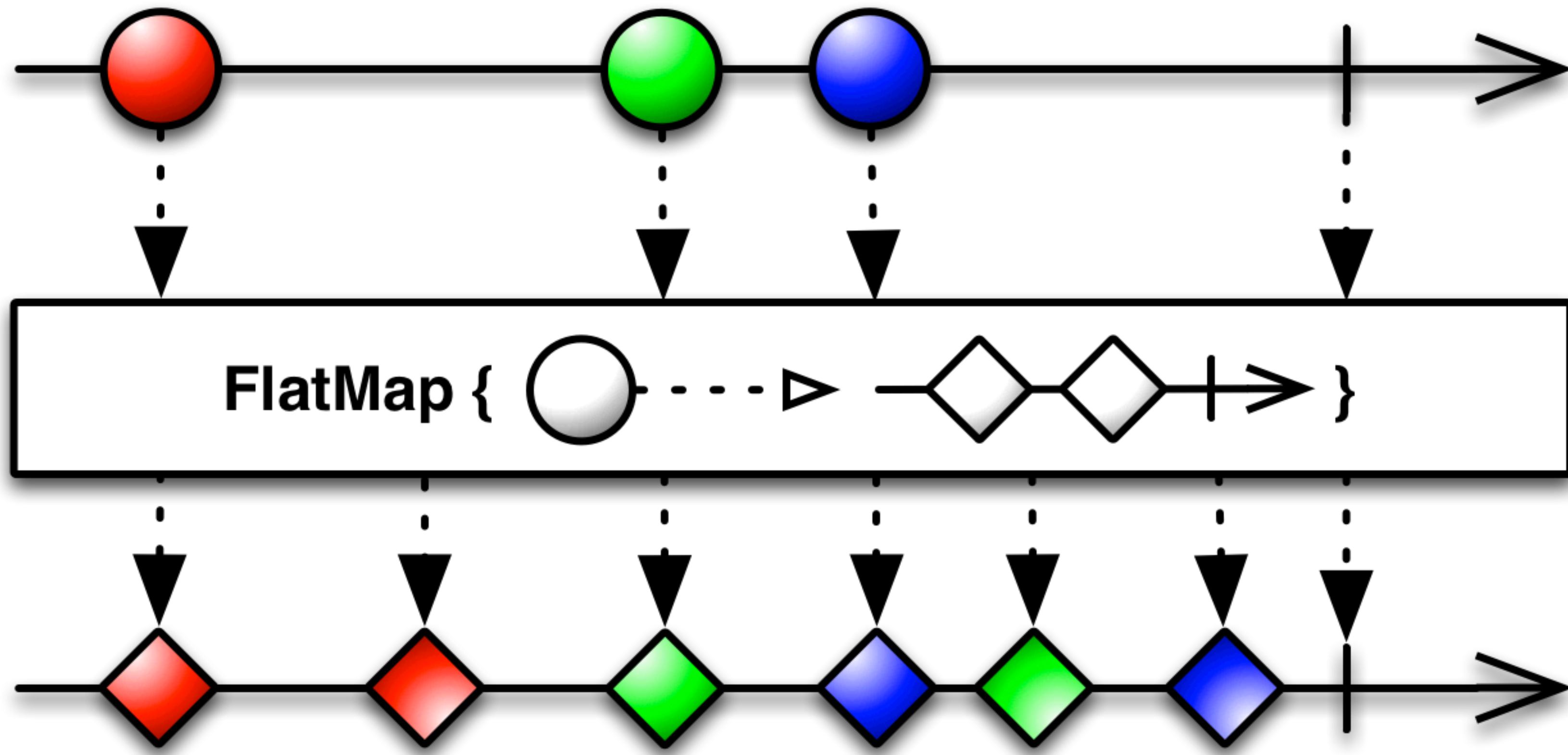
```
val posts: Observable<Post>
```

```
posts = users.flatMap { getUsersPosts(it.id) }
```

OPERATOR: FLATMAP()

```
val users // Observable<User>  
val posts: Observable<Post>
```

```
posts = users.flatMap { getUsersPosts(it.id) }  
posts.subscribe { println(it) }
```



FLOWABLE

MAYBE

DISPOSABLE

BACKPRESSURE

COMPLETABLE

SINGLE

SHOULD YOU USE
RXJAVA?

SHOULD YOU USE RXJAVA?

- LIKE FUNCTIONAL PROGRAMMING?
- PROCESS ITEMS ASYNCHRONOUSLY?
- COMPOSE DATA?
- HANDLE ERRORS GRACEFULLY?

SHOULD YOU USE RXJAVA?

● LIKE FUNCTIONAL PROGRAMMING?

● PROCESS ITEMS ASYNCHRONOUSLY?

● COMPOSE DATA?

● HANDLE ERRORS GRACEFULLY?

.....

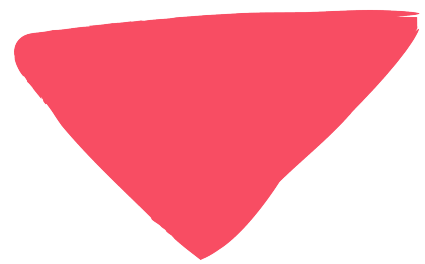
YES!

.....

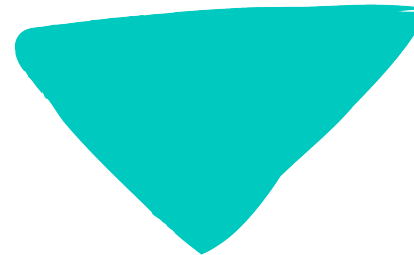
It
DEPENDS

THE BASICS

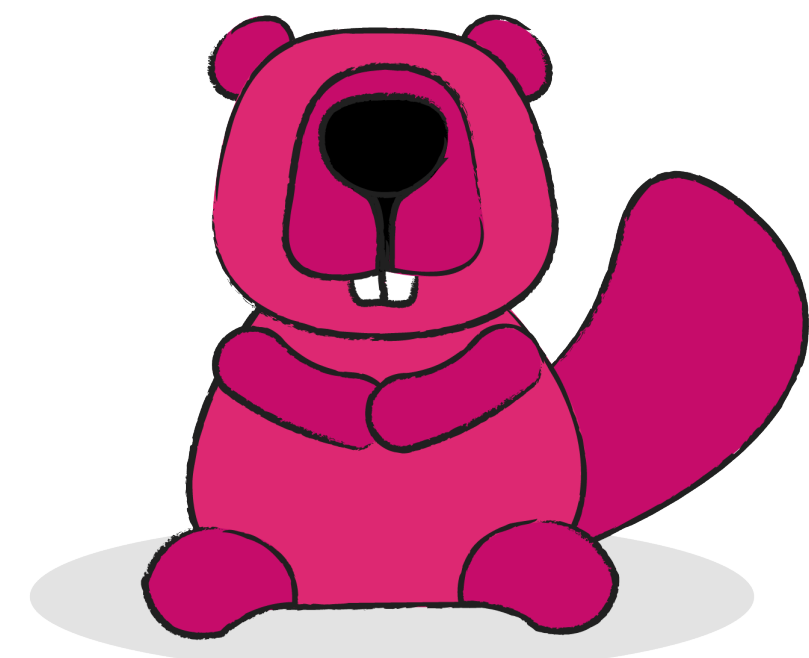
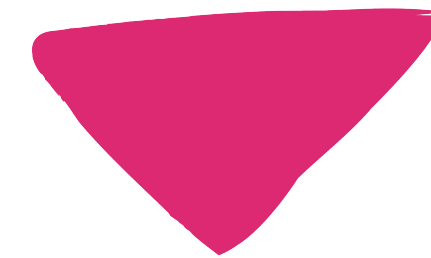
OPERATORS



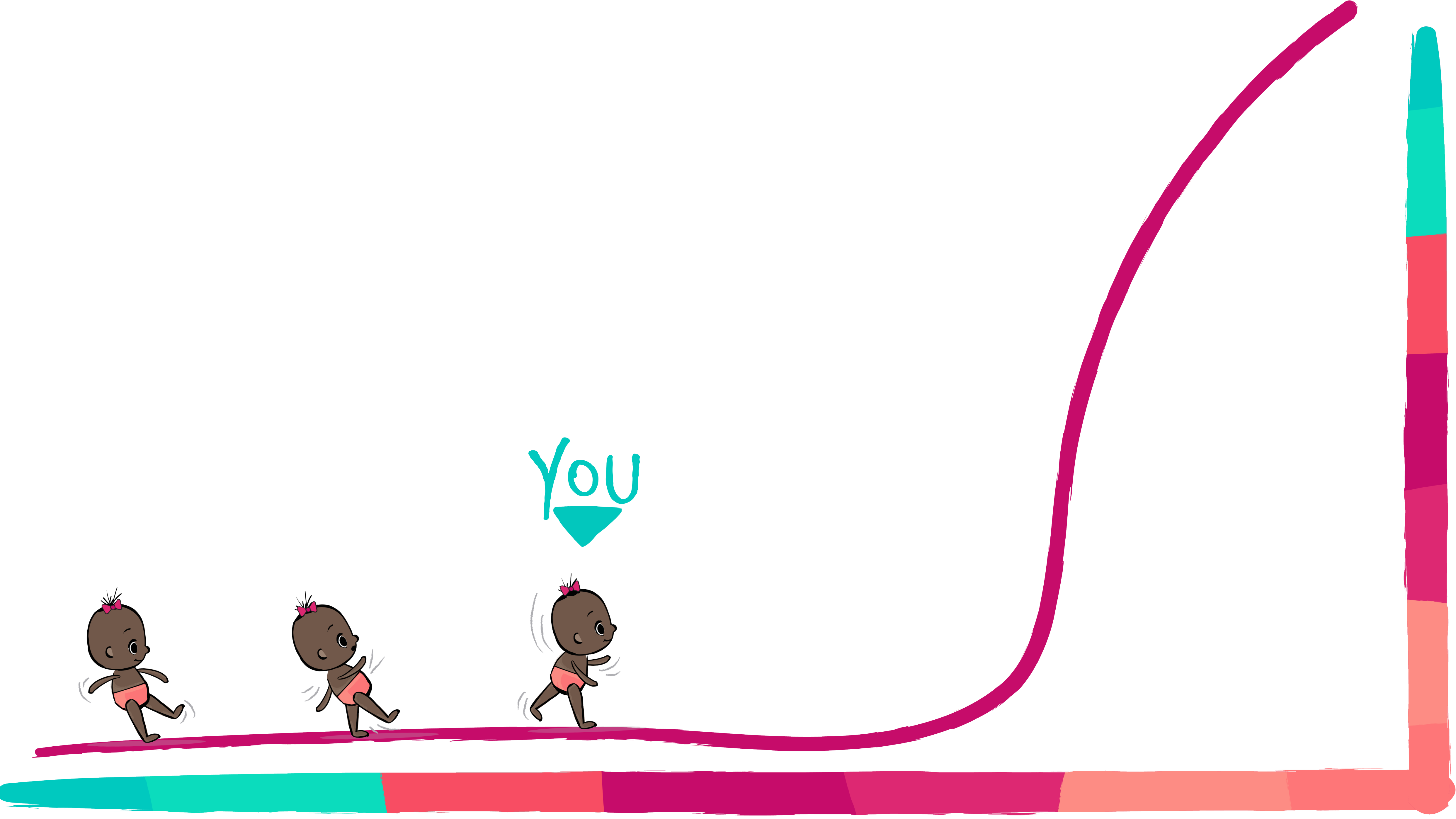
OBSERVER



OBSERVABLE



You



WWW.ADAVIS.INFO

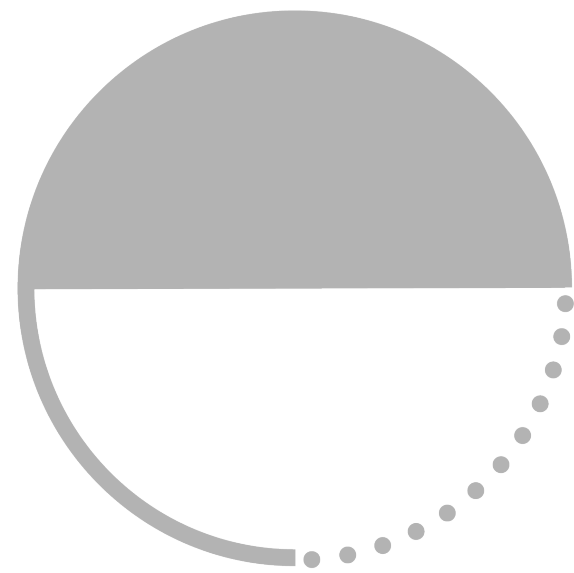
@BRWNGRLDEV



RESOURCES

- Reactive Programming on Android with RxJava (<http://amzn.to/2yOAxn>)
- Reactive Programming with RxJava (<http://amzn.to/2zQtqb5>)
- RxJava Playlist (<https://goo.gl/9fw1Zv>)
- Learning RxJava for Android Devs (<https://goo.gl/VWxFLK>)
- RxJava Video Course (<https://caster.io/courses/rxjava>)

SLIDE DESIGN:



@LAURAEEMILYILLUSTRATION

FONT: ELLIOT 6, FONTSQUIRREL.COM