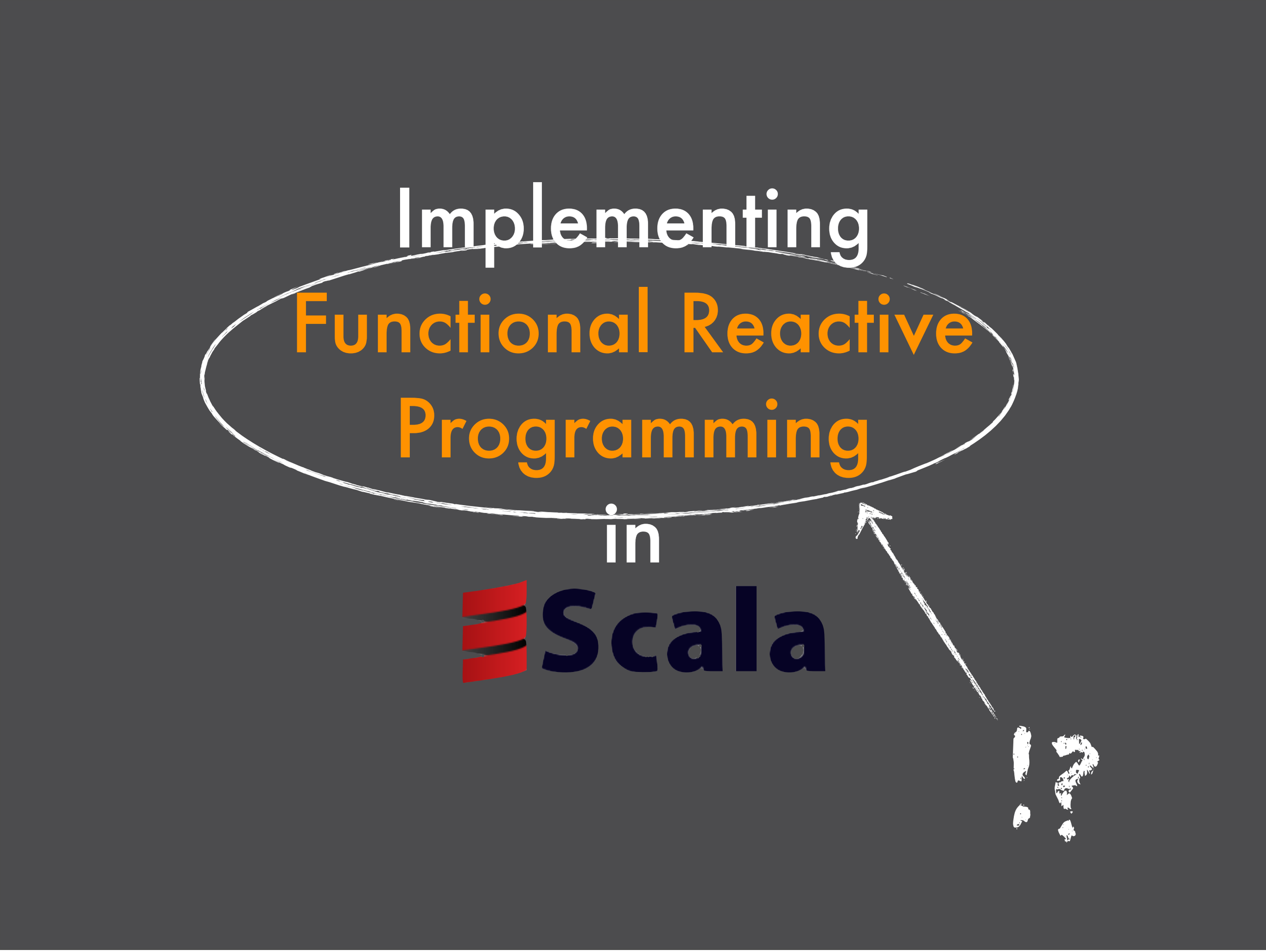
Implementing Functional Reactive Programming in

Implementing Functional Reactive Programming in Scala



Functional Reactive Programming?

Functional Reactive Programming?

Behaviours

Functional Reactive Programming?

Behaviours

Events

Behaviours

Time varying value

Behaviours

Time varying value

Behaviours

‘Continuous’

Time varying value

Generic

Behaviours

‘Continuous’

Time varying value

Generic

Behaviours

Recursive composition

‘Continuous’

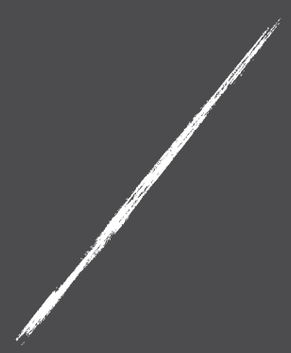
Functional Reactive Programming?

Behaviours

Events

Events

Events



Two states

‘Discrete’

Events

Two states

‘Discrete’

Events

Two states

‘Stream’-esque

‘Discrete’

Practical

Events

Two states

‘Stream’-esque

Implementing Functional Reactive Programming in

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in

"A multi-paradigm programming language designed to integrate features of object-oriented and functional programming..."

‘Purely’ Functional

Type System

Generics

Extensible

Extensible

Implicit Methods

```
implicit def int2String(val : Int) : String = val.toString
```

Scala = Extensible

Traits

```
trait SaysHello {
  val x = 5
  def sayHello {
    println(“Hello ” + x)
  }
}
```

FRP + Scala

‘echo‘

oetzi.github.com/echo