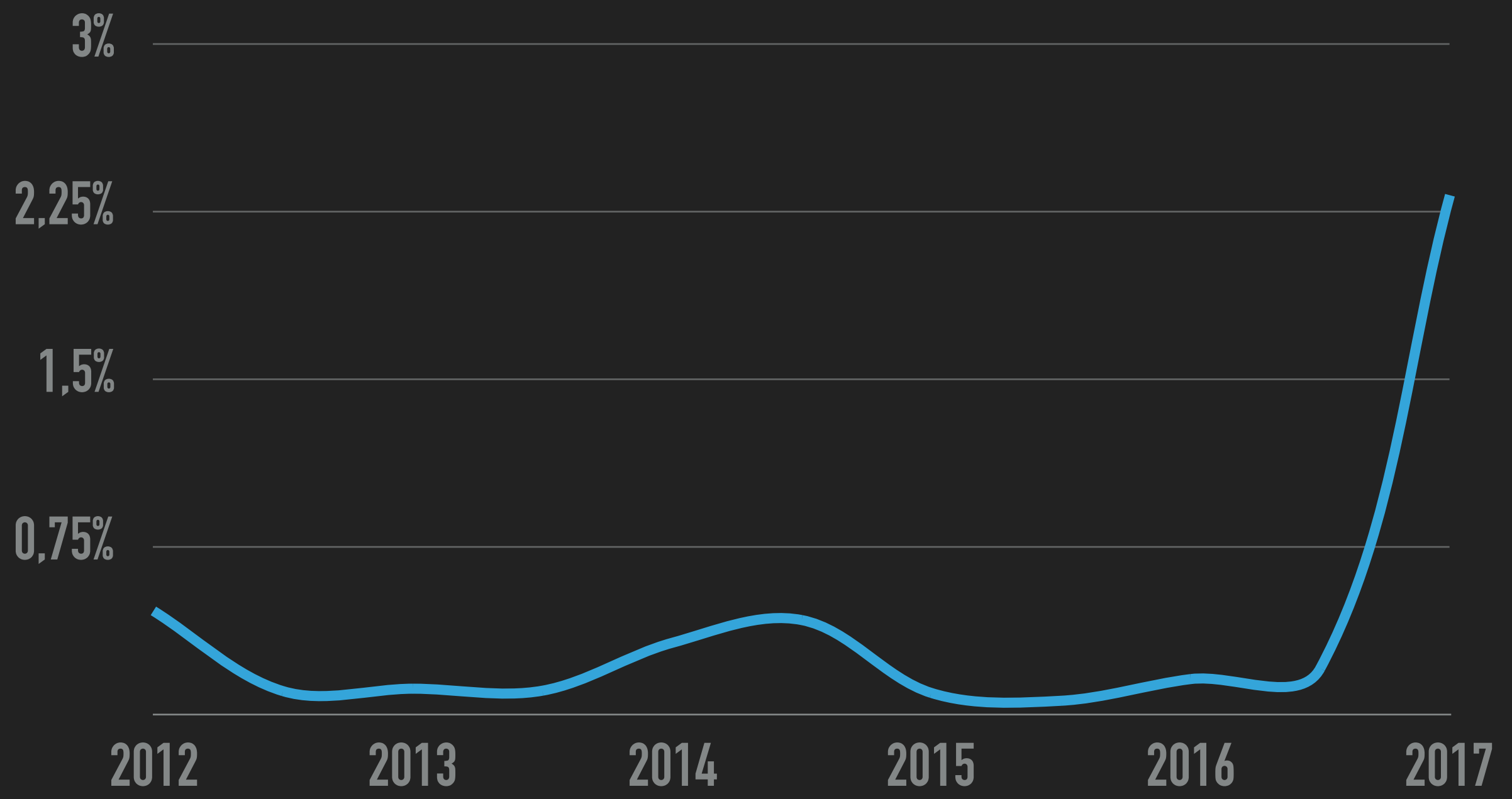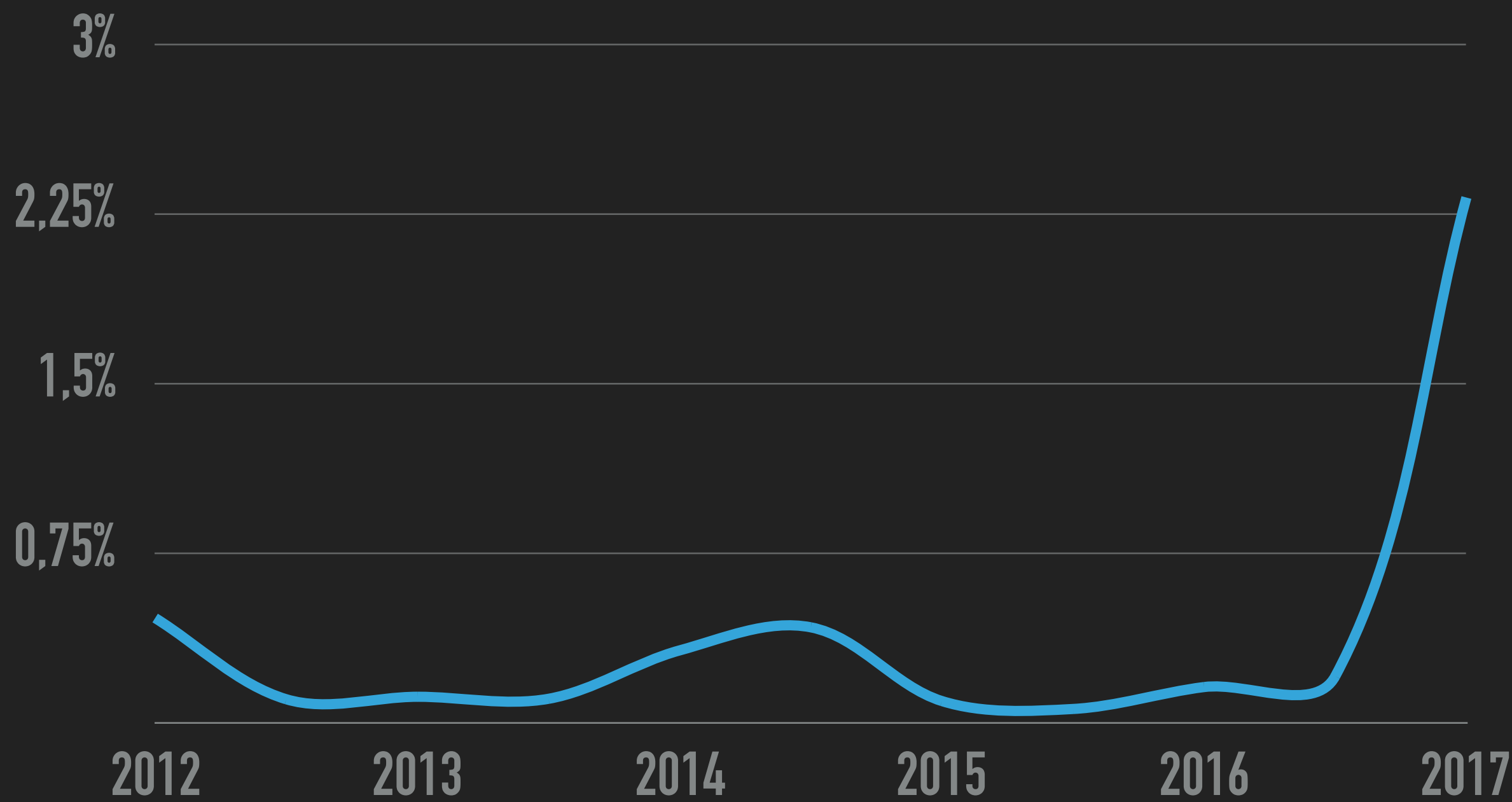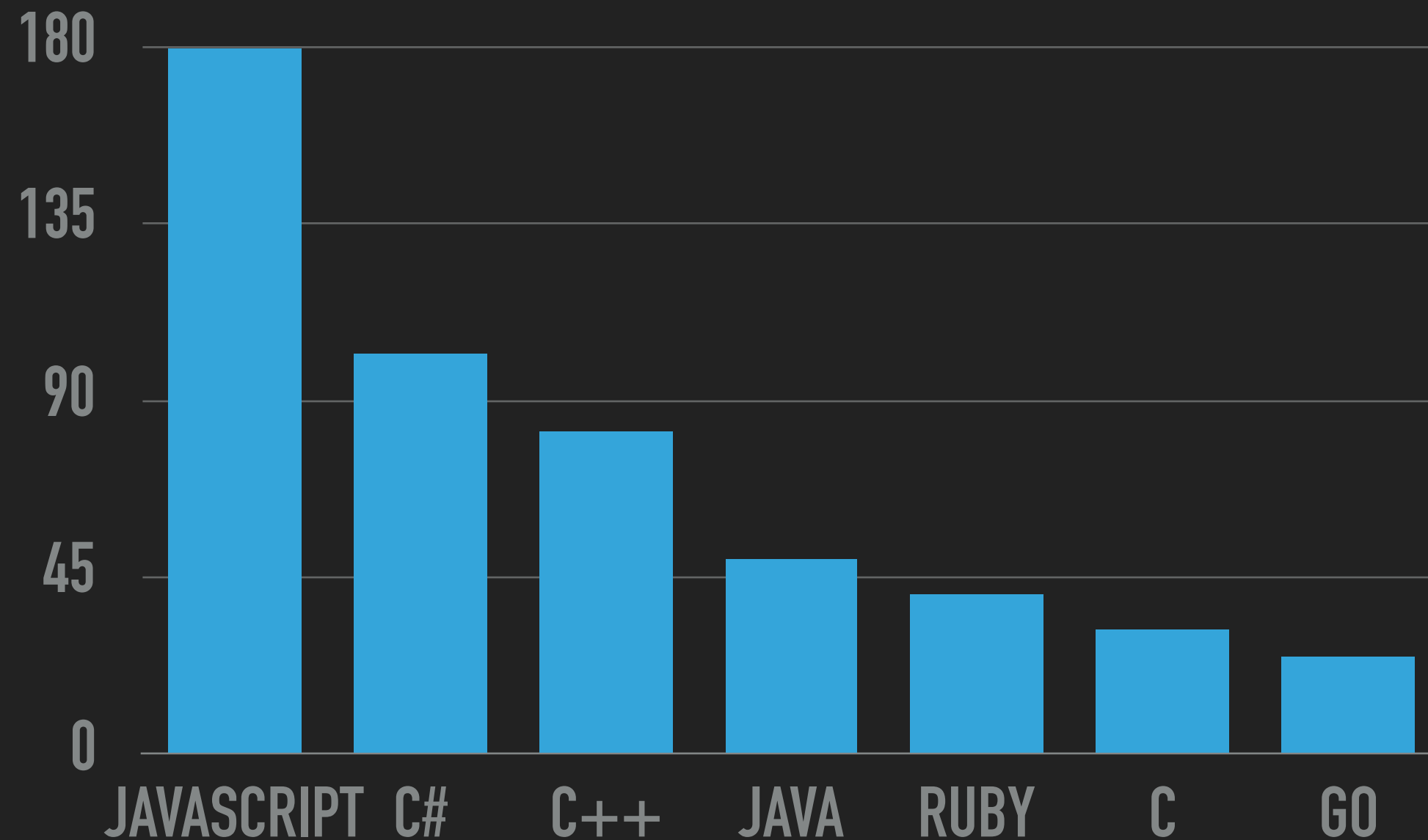# GOLANG VS RUBY

MICHAŁ KONARSKI

WHO AM I?

Ruby developer @

u2i

RESERVED KEYWORDS

http://stackoverflow.com/questions/4980766/reserved-keywords-count-by-programming-language

dynamic	static
interpreted (MRI)	compiled
garbage collected	garbage collected
object oriented	structured
reflective	concurrent

STATICALLY TYPED DUCK TYPING

```go
type Animal interface {
    Speak() string
}

type Dog struct {
    age int32
}

func (d Dog) Speak() string {
    return "Woof!"
}


func SaySomething(a Animal) {
    fmt.Println(a.Speak())
}

dog := Dog{}
SaySomething(dog)
```

OOO DESIGN
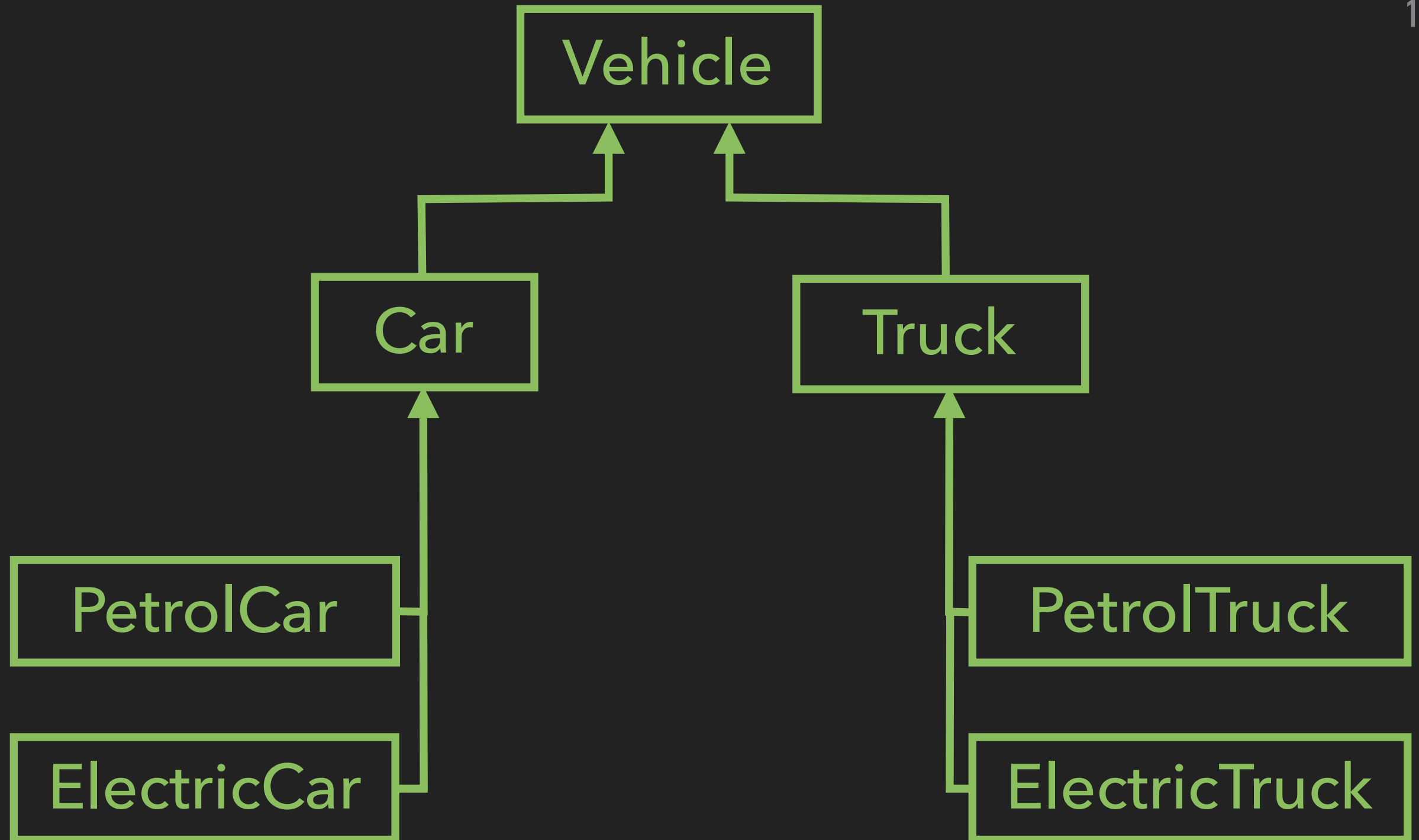
COMPOSITION OVER INHERITANCE
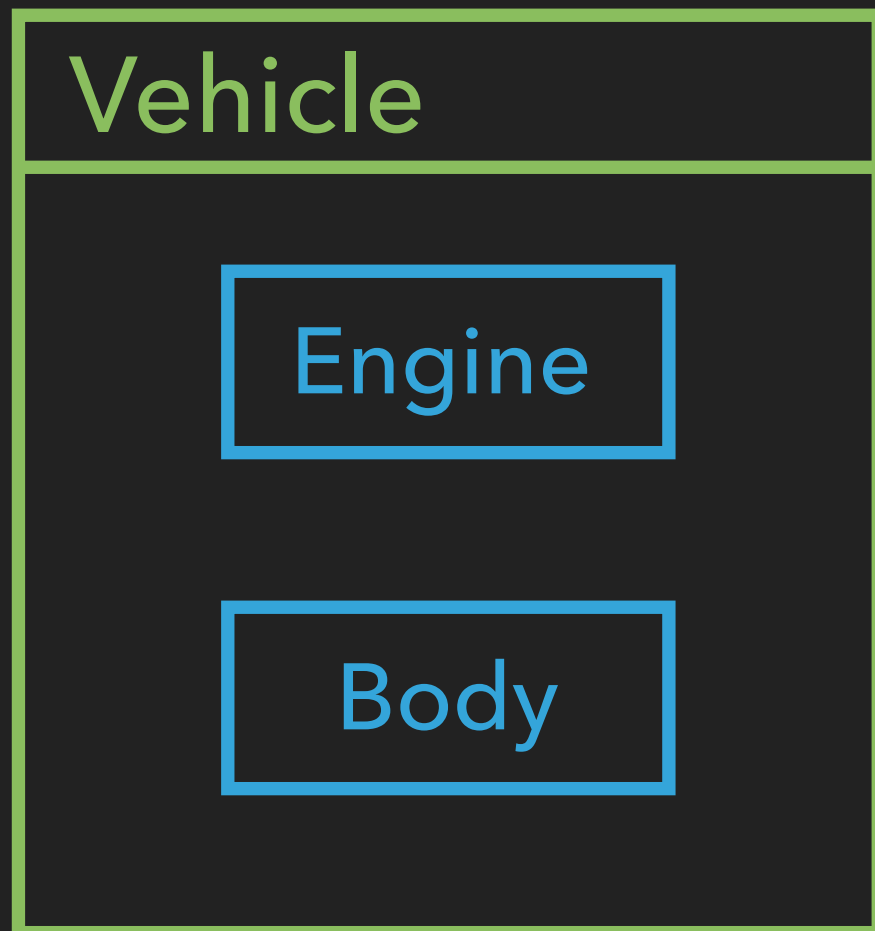
PetrolEngine

ElectricEngine

Vehicle

Engine

Body

Car

Truck

```go
type Engine interface {                type Body interface {
  start()                                  weight() int32
}                                      }


type PetrolEngine struct {}            type Car struct {}
type ElectricEngine struct {}          type Truck struct {}


                type Vehicle struct {
                    Engine
                    Body
                }


    vehicle := Vehicle{Engine: PetrolEngine{}, Body: Truck{}}
    vehicle.start()
    vehicle.weight()
```

CONCURRENCY

DON'T COMMUNICATE BY SHARING MEMORY, SHARE MEMORY BY COMMUNICATING.

Go process

goroutine	channel	goroutine

goroutine	channel	goroutine

goroutine	channel	goroutine
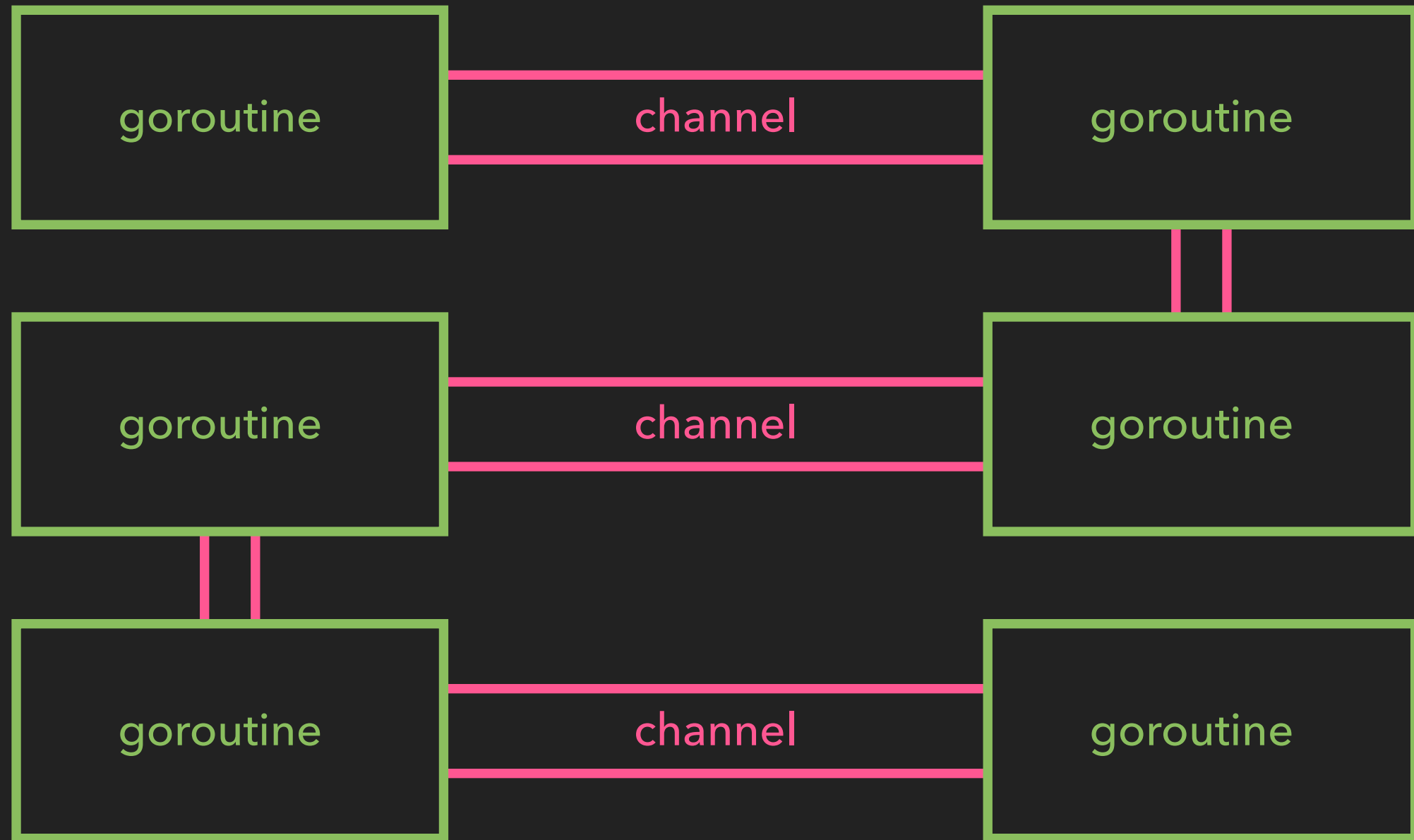
```go
func HeavyComputations(ch chan int32) {
    ...

    ch <- result
}




ch := make(chan int32)

go HeavyComputations(ch)

// do other things

result := <-ch
```

THERE IS NOTHING EXCEPTIONAL IN EXCEPTIONS

```go
f, err := os.Open("filename.ext")

if err != nil {
  log.Fatal(err)
  return err
}

// do something with the file
```

GO FMT
NO MORE CODE STYLE WARS

"LEARN AT LEAST ONE NEW LANGUAGE EVERY YEAR"

David Thomas and Andrew Hunt

THANKS!

🐦 @mjkonarski

michal.konarski@u2i.com

blog.u2i.com