



Porque usar Go

TDC **2020** BELO HORIZONTE 25/04



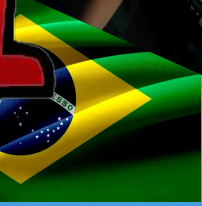
Jefferson Otoni

s3wf.com.br

@jeffotoni



TDC
ONLINE





Alguns pilares

Legibilidade

Comunidade

Simplicidade

Produtividade

simultaneidade





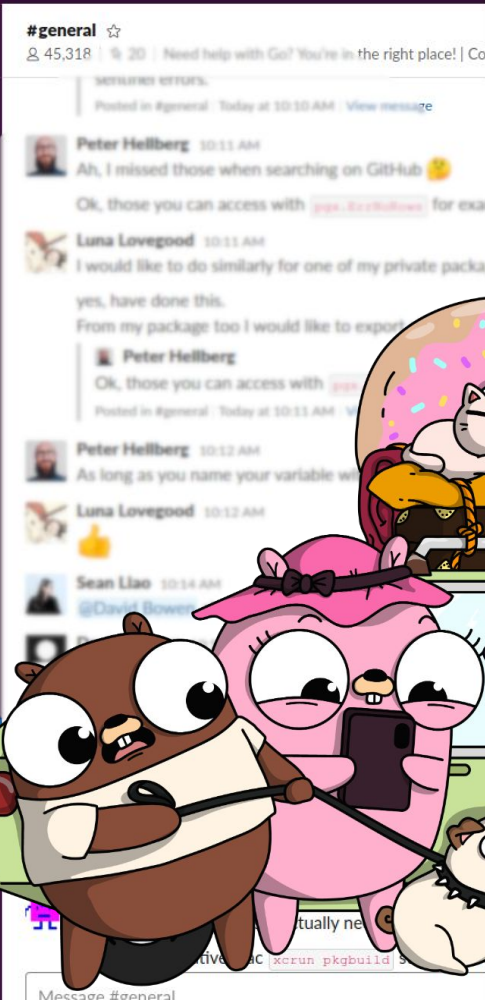
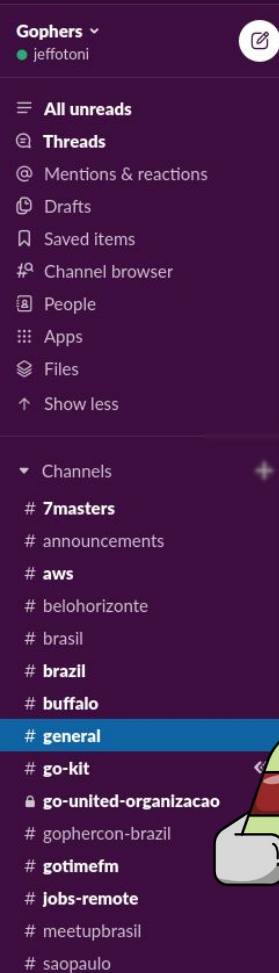
– A comunidade e a pandemia ⁼GO

Virologista, epidemiologista, pesquisadores

<https://blog.golang.org/pandemic>

<https://covid-oss-help.org>

<https://discourse.covid-oss-help.org>



Comunidade



Telegram

https://t.me/go_br
https://t.me/go_bh
<https://t.me/golangcwb>

Slack

<https://gophers.slack.com>
(members >~45k)

GopherCon Brasil 2020

<https://2020.gopherconbr.org>

Wiki Conferencias

<https://github.com/golang/go/wiki/Conferences>

Meetup

<https://www.meetup.com/go-belo-horizonte>
<https://www.meetup.com/pt-BR/golangbr>

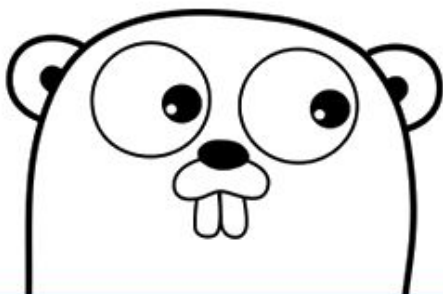
GoWeek | GoUnited

em breve ...





Go is an open source programming language that makes it easy to build **simple, reliable, and efficient** software.



Download Go

Binary distributions available for
Linux, macOS, Windows, and more.

Try Go

[Open in Playground](#) ↗

```
// You can edit this code!  
// Click here and start typing.  
package main  
  
import "fmt"  
  
func main() {  
    fmt.Println("Hello, 世界")  
}
```

Go > Criado Por

Robert Griesemer



Ken Thompson



Rob Pike



Hello, World! ▼

Run

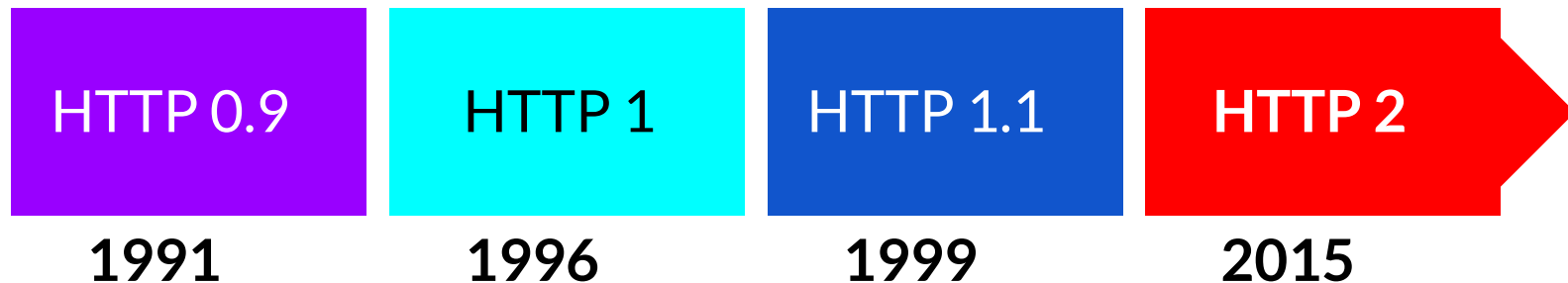
Share

Tour

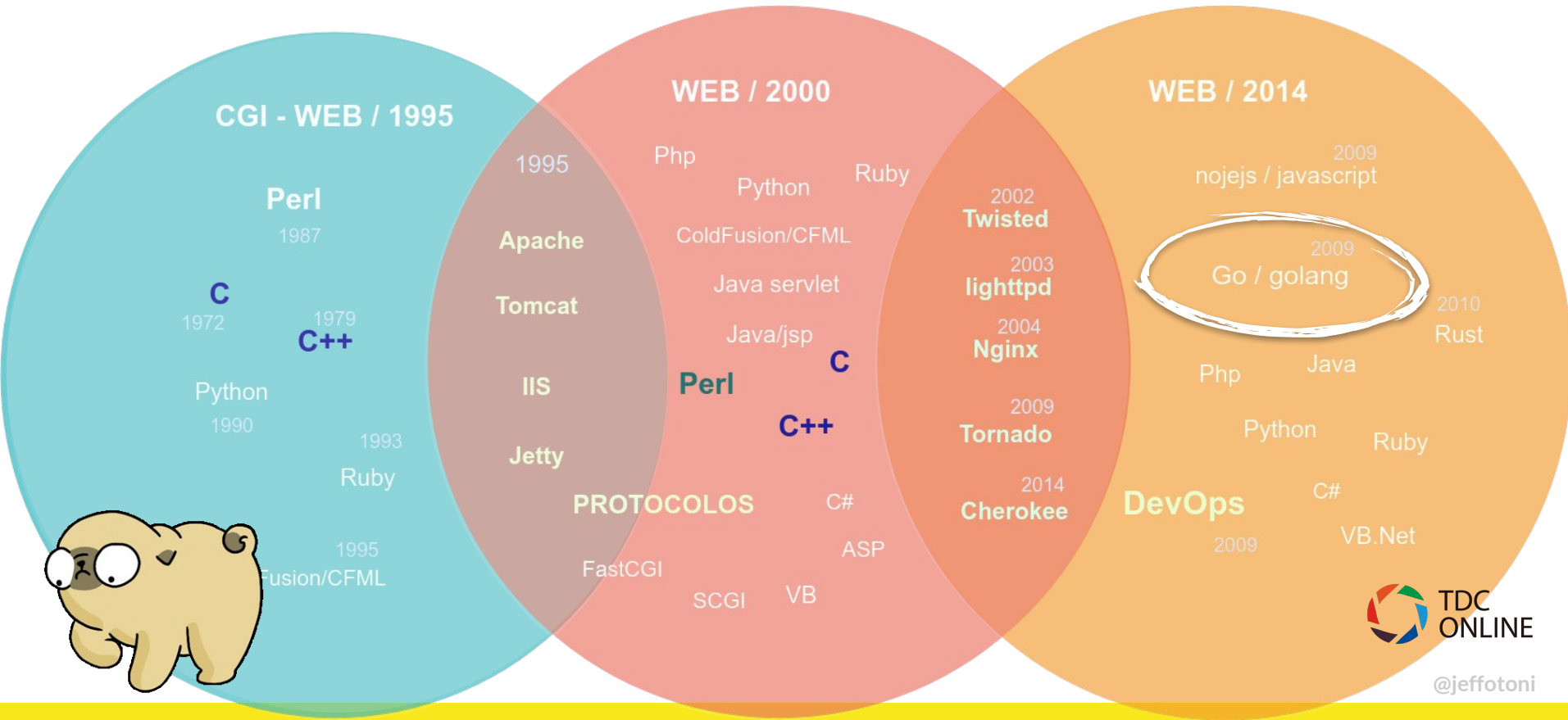
<https://golang.org>
https://golang.org/doc/effective_go.html
<https://golang.org/ref/spec>

<https://golang.org/doc>
<https://tour.golang.org/welcome/1>

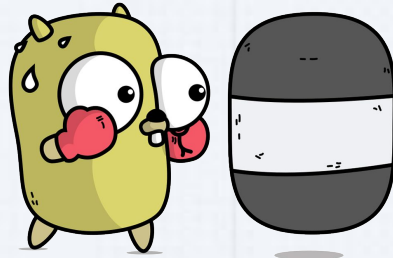
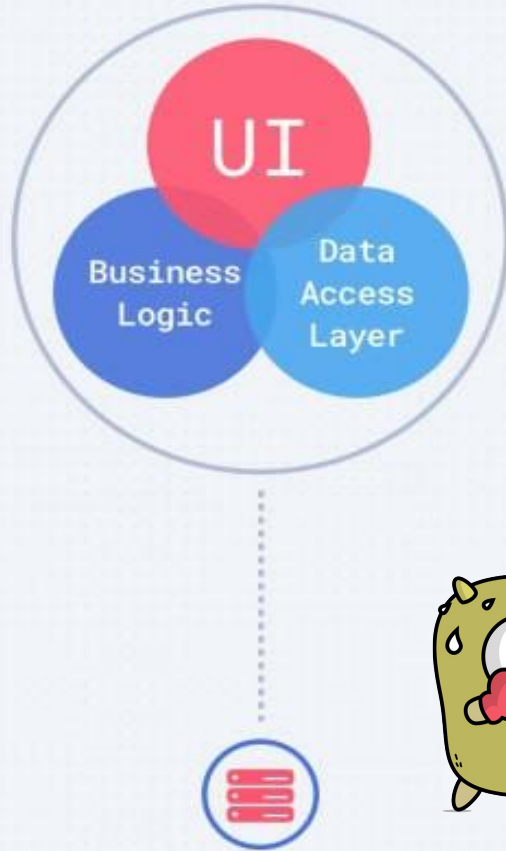
Evolução do HTTP



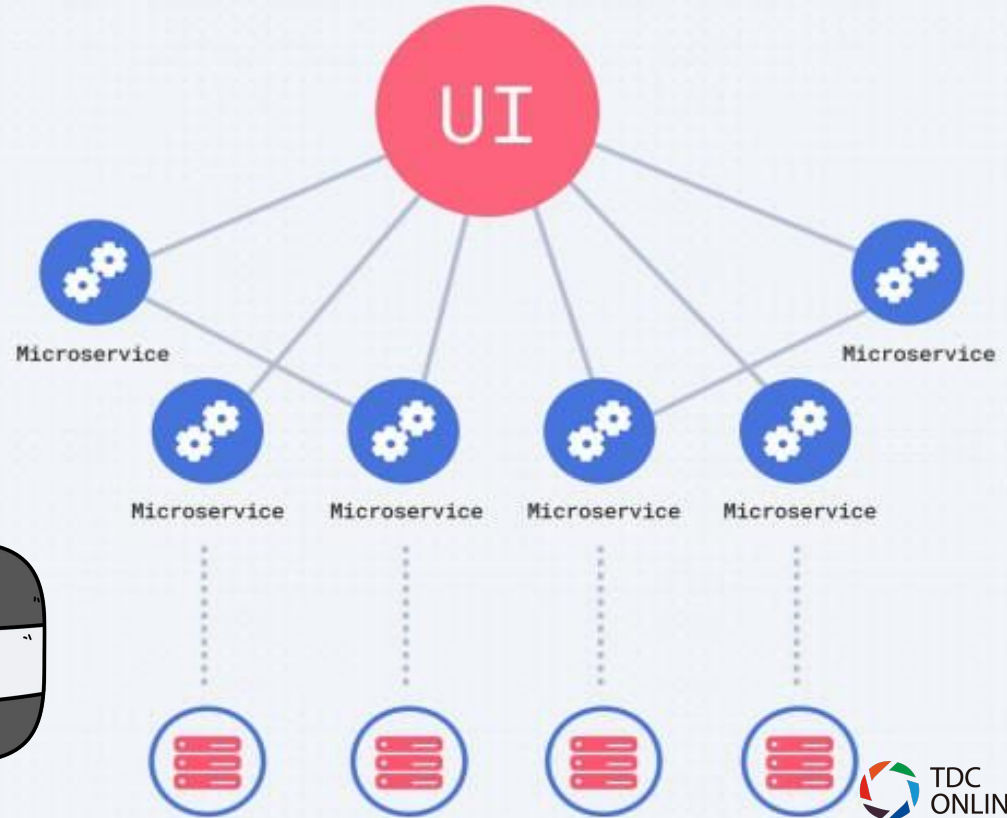
Entendo o problema



Monolithic Architecture

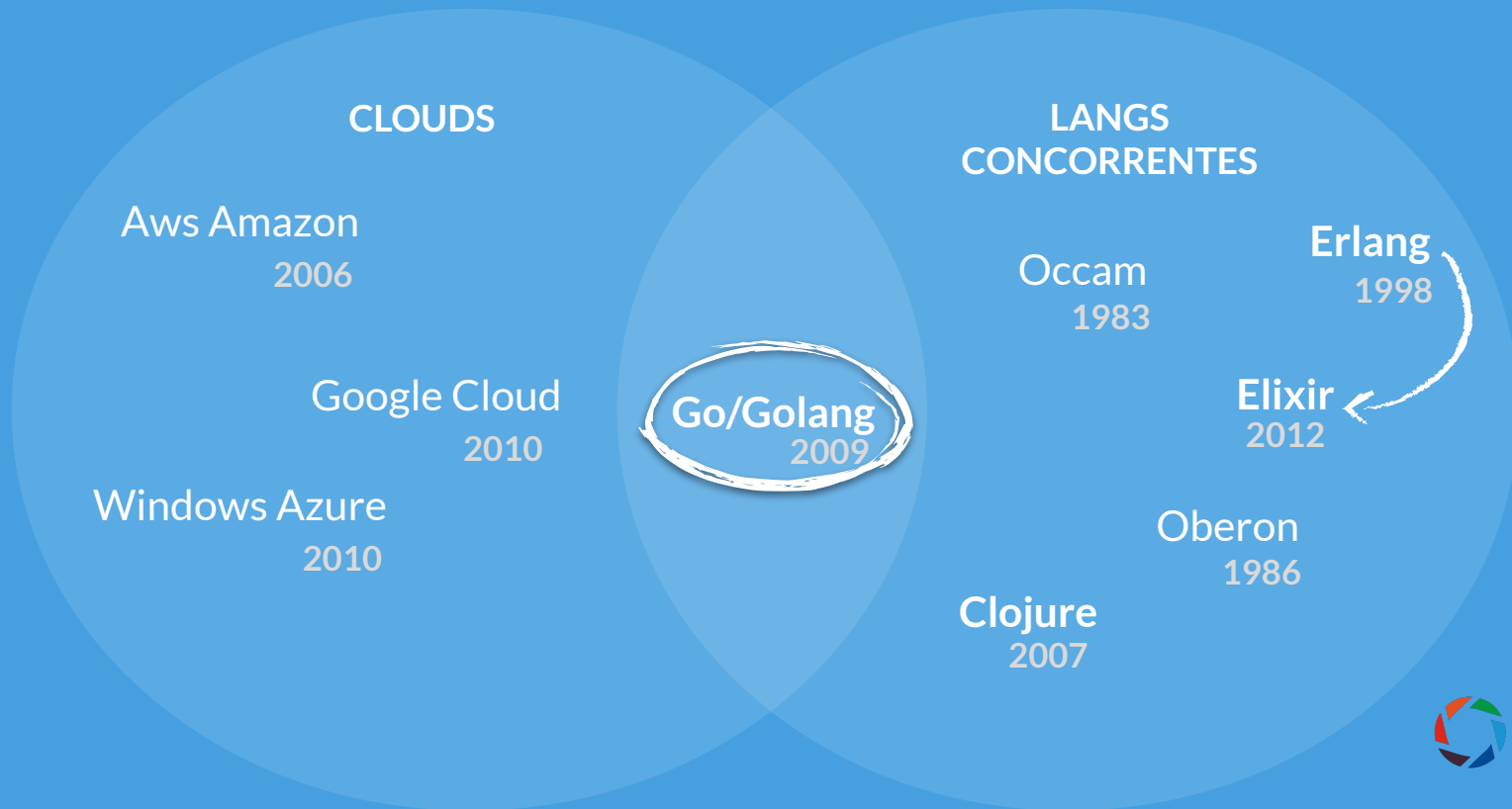


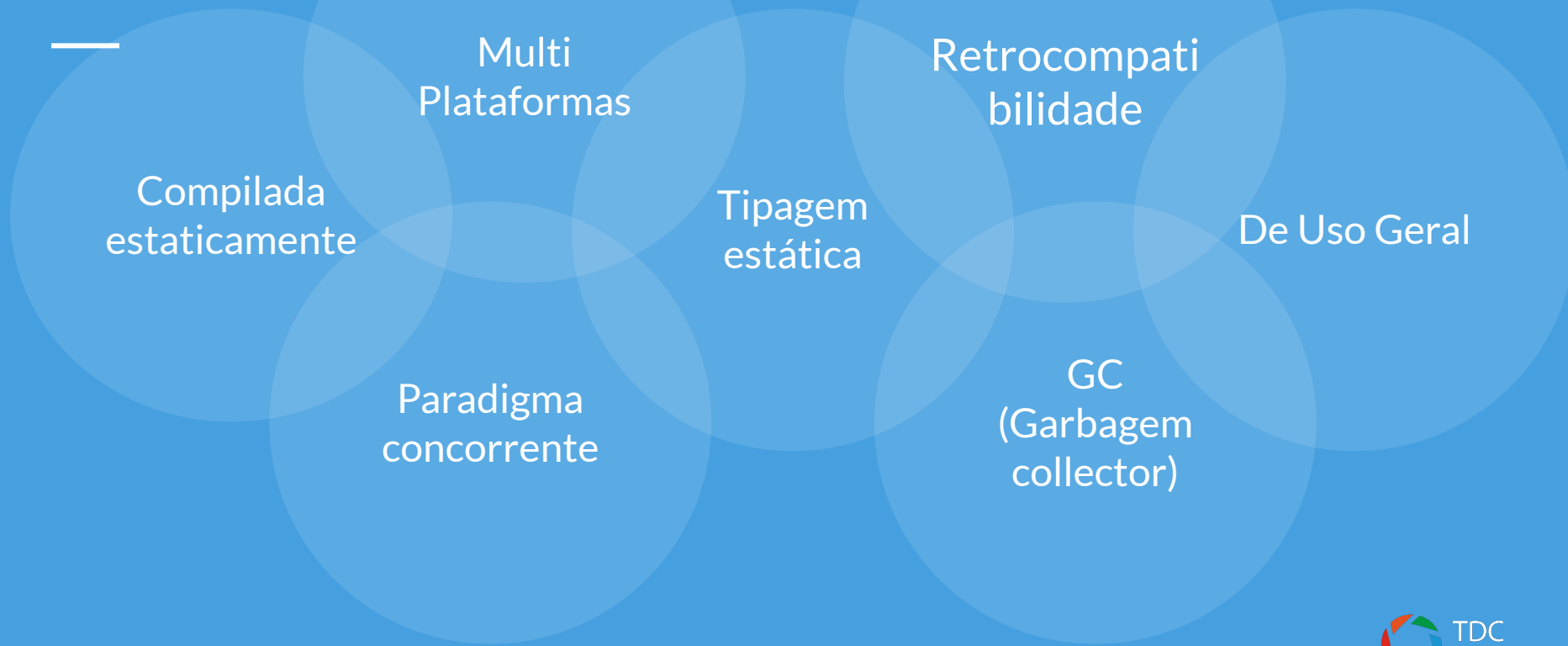
Microservices Architecture





Possíveis soluções

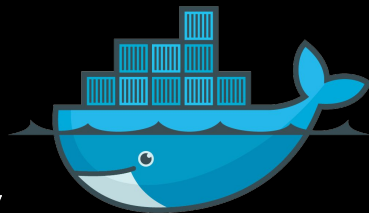




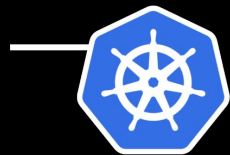


HashiCorp

Terraform



Ritchie



Caddy

docker



```

                                000
                                000
                                000
    .0000. .0000. .000000 000000.
dASP"000000""00000K   000 "00
000 000000 000"Y00000.000 00
Y000 000Y00...00" X00000 00
"Y00000 "Y000" 000000'000 00
000
Y00 dASP
"Y000"
```

kubernetes



Thanos

 Prometheus

træfik



Istio



Cockroach DB



Dgraph



HashiCorp

Packer



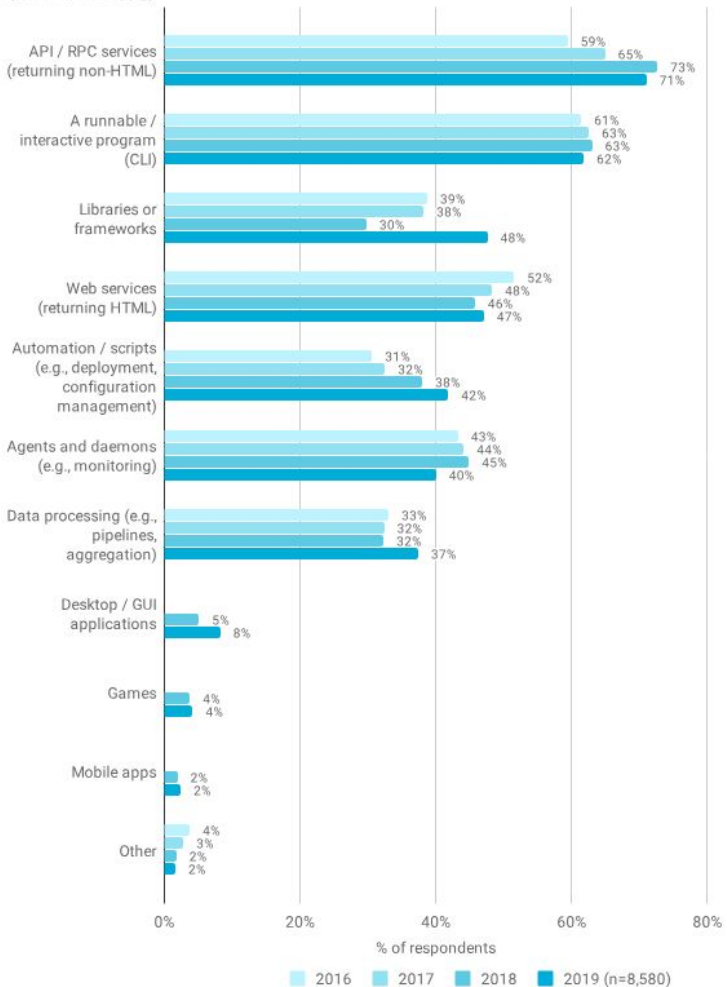
TDC
ONLINE

@jefftoni



I write the following in Go:

(select all that apply)



1) API/RPC

2) CLI

3) Frameworks

4) Sistemas Web



<https://blog.golang.org/survey2019-results>

25 Keywords



break	default	func	interface	select
case	defer	go	map	struct
chan	else	goto	package	switch
const	fallthrough	if	range	type
continue	for	import	return	var





go Terminal UI



Services Monitor

monitoring 8 services every 2s, press q to quit

Status

Last update: May 3 15:57:01

Services	Alloc	Gorout...	Sys	HeapAl...	HeapIn...	Respon...	Enable...	NumGC	PauseT...	Uptime
[R] people.serv...	528KB	9	3.8MB	528KB	888KB	N/A	true	50	83ms	12m29s
[R] events.serv...	1.0MB	15	40MB	1.0MB	1.5MB	N/A	true	67	212ms	12m29s
[R] competitors...	418KB	9	3.8MB	418KB	784KB	N/A	true	50	71ms	12m29s
[R] geo.service	693KB	16	20MB	693KB	1.0MB	N/A	true	43	102ms	12m29s
[R] 🚀 demo.serv...	121KB	7	2.8MB	121KB	392KB	429ms	true	7	3ms	23s
[R] 🚀 rest.serv...	899KB	19	4.9MB	899KB	1.4MB	N/A	true	15	14ms	2m29s
[R] web.members...	125KB	5	2.8MB	125KB	496KB	N/A	true	132	85ms	12m29s
[R] web.admin.s...	124KB	5	2.8MB	124KB	456KB	N/A	true	122	73ms	12m29s

Monitoring memstats.Alloc

people.service (max: 549KB)

events.service (max: 1.2MB)

competitors.service (max: 549KB)

geo.service (max: 1.0MB)

demo.service (max: 220KB)

rest.service (max: 1.7MB)

web.members.service (max: 222KB)

web.admin.service (max: 221KB)

Monitoring Goroutines

people.service (max: 9)

events.service (max: 15)

competitors.service (max: 9)

geo.service (max: 16)

demo.service (max: 7)

rest.service (max: 19)

web.members.service (max: 6)

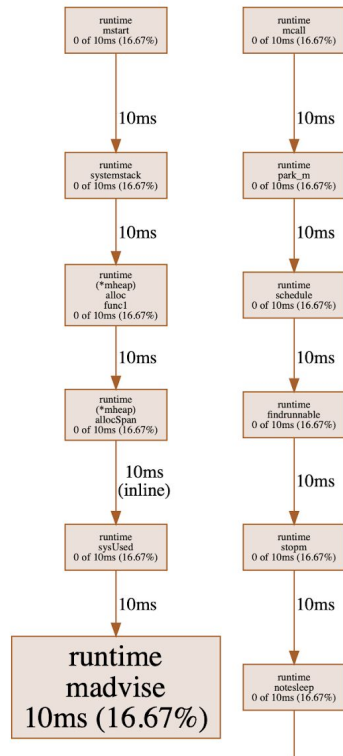
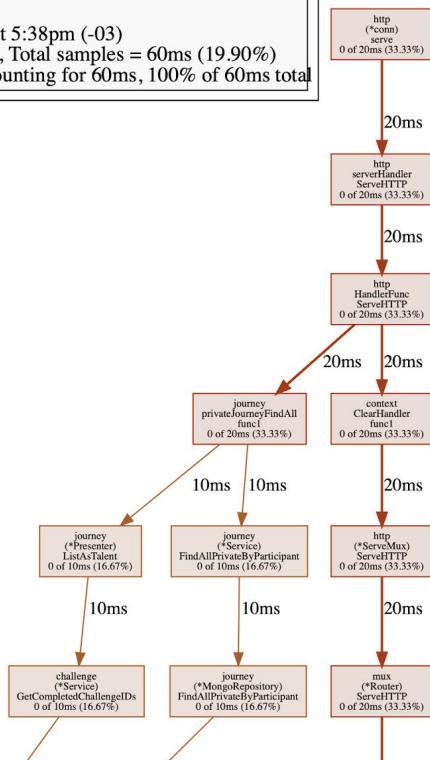
web.admin.service (max: 5)

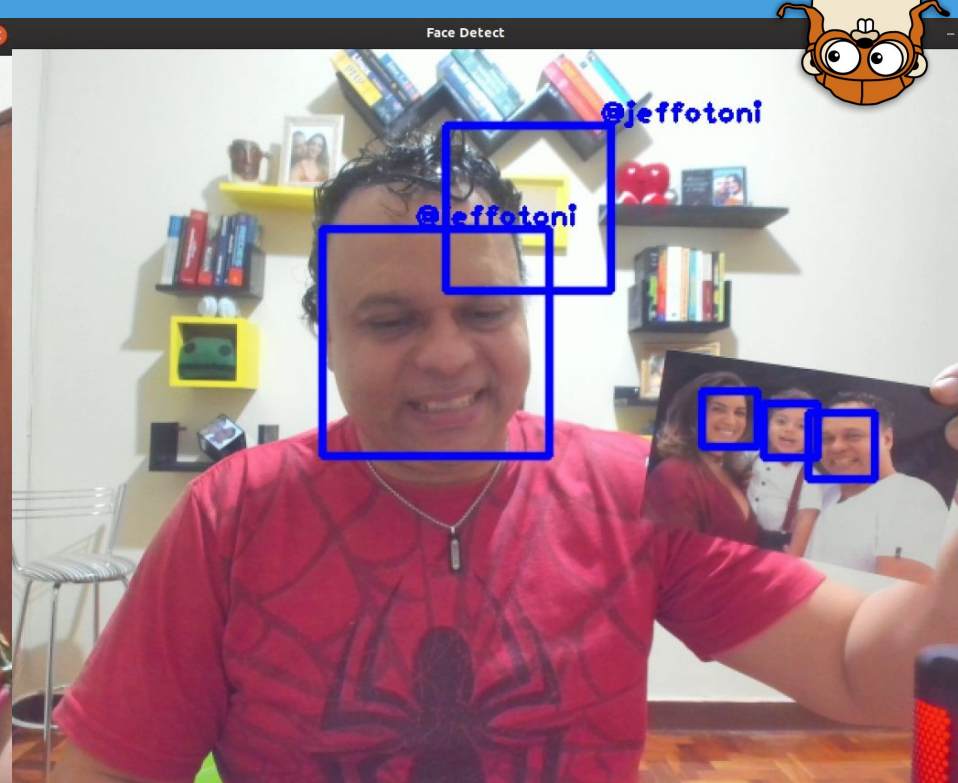
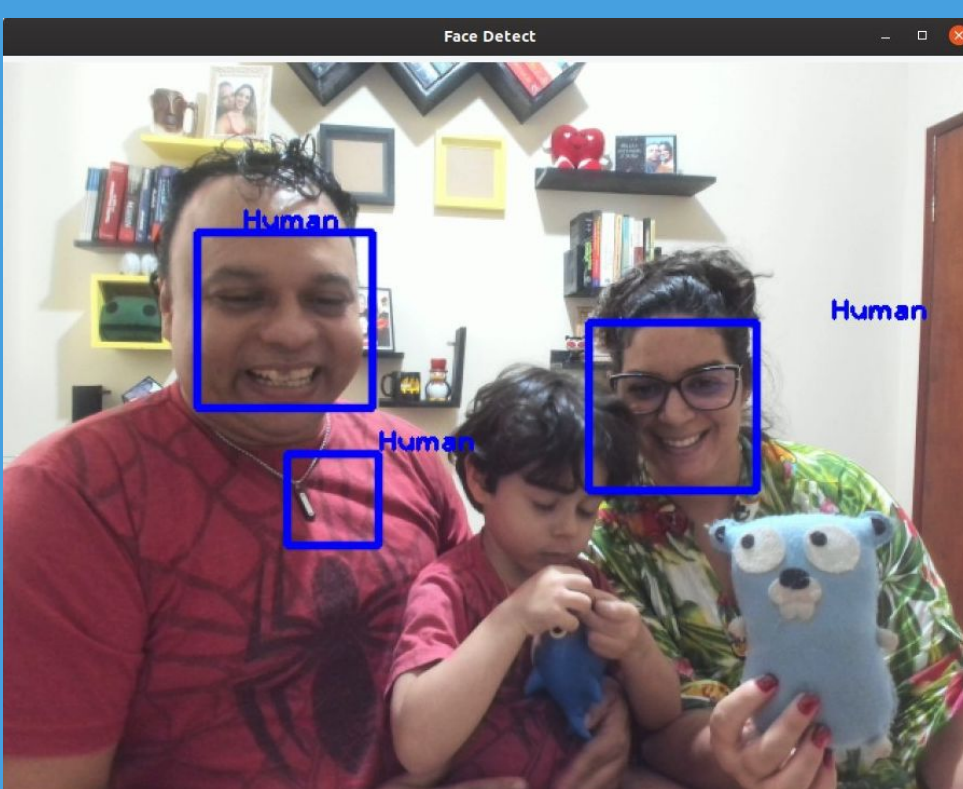




File: api
Type: cpu
Time: Apr 7, 2020 at 5:38pm (-03)
Duration: 301.45ms, Total samples = 60ms (19.90%)
Showing nodes accounting for 60ms, 100% of 60ms total

Pprof Profiling Go





gocv.io/x/gocv
<https://opencv.org/>

Sheimy Rahman - Classify things in
<https://www.youtube.com/watch?v=2cCiO4MlzbM&t=4130s>

λ Thanks := &Obrigado{...}



Obrigado...



github.com/jeffotoni



[instagram.com/jeffotoni](https://www.instagram.com/jeffotoni)



[linkedin.com/in/jeffotoni](https://www.linkedin.com/in/jeffotoni)



https://t.me/go_br



<https://t.me/awsbrasil>



<https://t.me/devopsbh>

