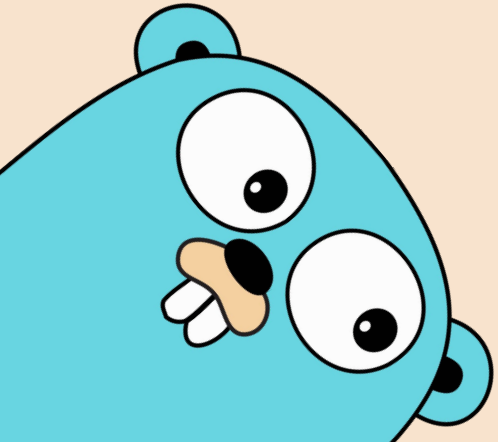
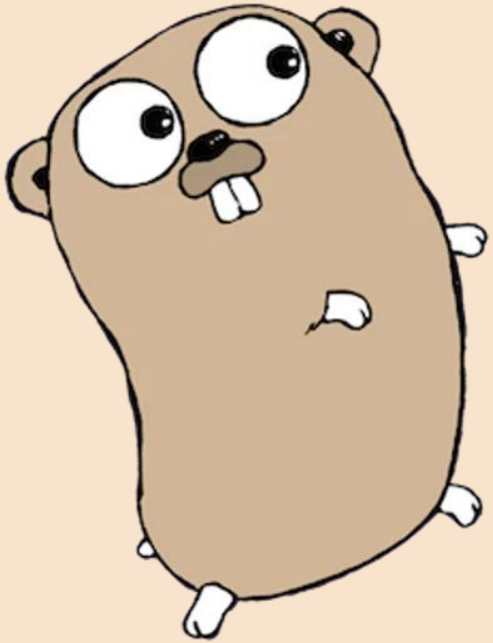
GOing: motivos para se usar Golang





Olá, meu nome é Igor

- Graduando em Engenharia da Computação na UFPE
- Metido a programador
- Procrastinador profissional

/igomp2

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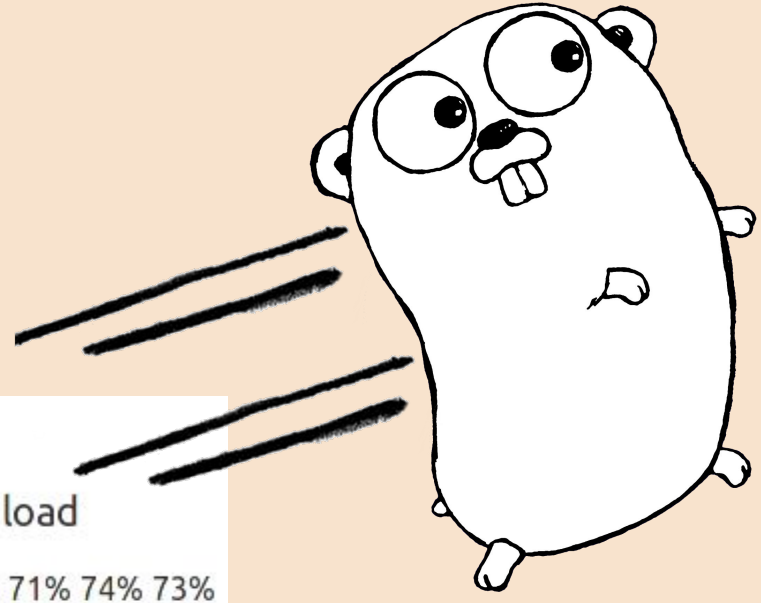
Um pouco sobre GO

- Linguagem compilada
- Sintaxe simples
- Auto formatação do código
- Foco em concorrência
- ***C para os tempos modernos***

Compilada

- Seus programas serão ***rápidos***



fasta

source	secs	KB	gz	cpu	cpu load
Go	**1.97**	3,456	1344	5.76	76% 71% 74% 73%
Java	2.20	37,072	2457	6.37	81% 68% 72% 72%
Node.js	13.41	28,892	1101	13.41	1% 1% 100% 0%
C++ g++	1.50	4,092	2313	5.17	87% 87% 87% 87%
C gcc	1.36	2,800	1993	5.26	96% 97% 100% 97%
Python 3	293.92	55,392	686	1,171.64	100% 100% 100% 100%

Sintaxe simples

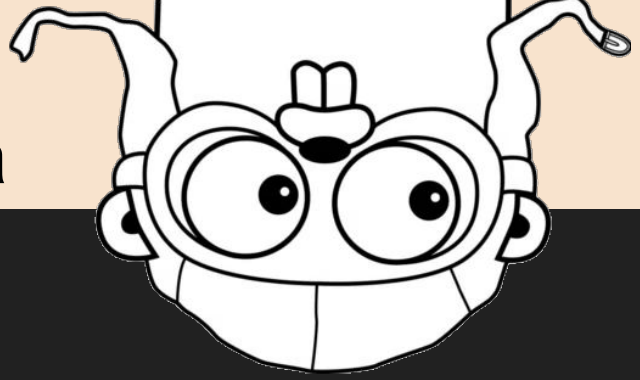
```
break        default      func         interface    select
case         defer        go           map          struct
chan         else         goto         package      switch
const        fallthrough  if           range        type
continue     for          import       return       var
```

GO fmt

```go
package main
import ("fmt"
"time")

func say(s string) {
  for i := 0; i < 5; i++ {
  time.Sleep(100 * time.Millisecond)
  fmt.Println(s)}}
func main() {
  go say("Olá")
  say("DevFest")}
```

```go
package main

import (
    "fmt"
    "time"
)

func say(s string) {
    for i := 0; i < 5; i++ {
        time.Sleep(100 * time.Millisecond)
        fmt.Println(s)
    }
}
func main() {
    go say("Olá")
    say("DevFest")
}
```

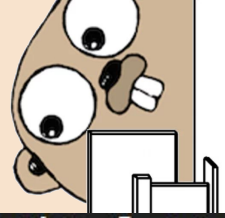
Concorrência



```go
package main

import (
    "fmt"
    "time"
)

func say(s string) {
    for i := 0; i < 5; i++ {
        time.Sleep(100 * time.Millisecond)
        fmt.Println(s)
    }
}
func main() {
    go say("Olá")
    say("DevFest")
}
```

```
go run hello.go
Olá
DevFest
DevFest
Olá
Olá
DevFest
DevFest
Olá
Olá
DevFest
```

Moderna



```
archive tar zip bufio builtin bytes compress bzip2 flate gzip lzw
zlib container heap list ring context crypto aes cipher des dsa
ecdsa elliptic hmac md5 rand rc4 rsa sha1 sha256 sha512 subtle
tls x509 pkix database sql driver debug dwarf elf gosym macho pe
plan9obj encoding ascii85 asn1 base32 base64 binary csv gob hex
json pem xml errors expvar flag fmt go ast build constant doc
format importer parser printer scanner token types hash adler32
crc32 crc64 fnv html template image color palette draw gif jpeg
png index suffixarray io ioutil log syslog math big cmplx rand
mime multipart quotedprintable net http cgi cookiejar fcgi
httptest httptrace httputil pprof mail rpc jsonrpc smtp textproto
url os exec signal user path filepath reflect regexp syntax
runtime cgo debug msan pprof race trace sort strconv strings sync
atomic syscall testing iotest quick text scanner tabwriter
template parse time unicode utf16 utf8 unsafe
```

TALK IS CHEAP;

SHOW ME THE CODE

(Linus Torvalds)