

Transcript: http://bit.ly/accessible-go-transcript

Hi, I'm julia

Writer of code for people who write open source code

Gopher for a few years

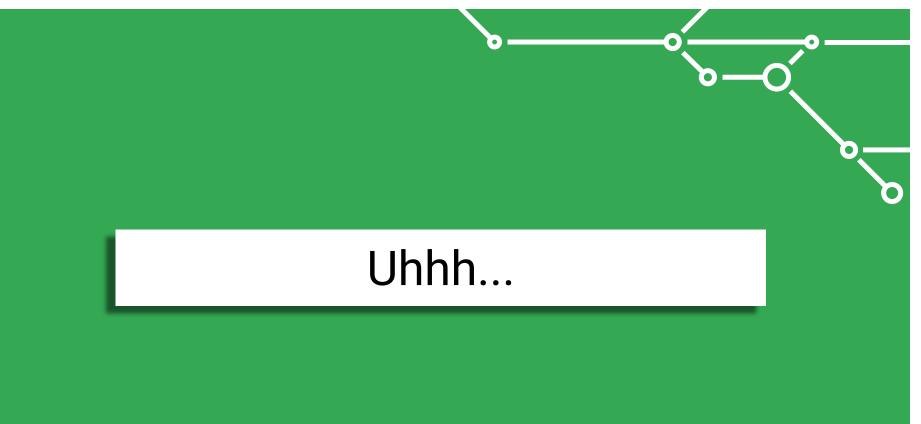
Frequently understatedly described as "stubborn" AKA "stubborn AF"



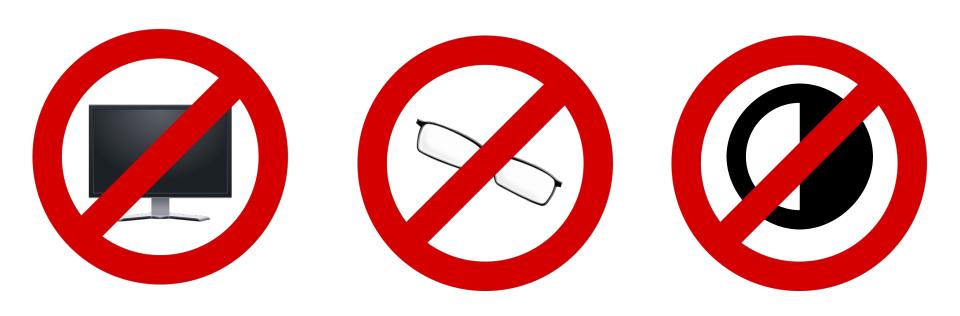


Vision-impaired off-and-on for the past two years





Intermittent failures are the WORST



I was/am (intermittently) disabled

"[Disability] is a complex phenomenon, reflecting the interaction between features of a person's body and features of the society in which [they live]."

- World Health Organization



Demo

```
Jackage main
import (
        "fmt"
type Vector []float64
func main() {
       a, b := Vector{1, 2, 3}, Vector{4, 5, 6}
       a, b, _ = swap(a, b)
       fmt.Printf("Swapped vectors a: %v, b: %v\n", a, b)
       c := Vector{7, 8, 9}
       sum, \_ := add([]Vector{a, b, c}...)
        fmt.Printf("Sum of all vectors: %v\n", sum)
       multiplier := 3
       scaled := scale(sum, multiplier)
       fmt.Printf("Scaled up by %d the sum is: %v\n", multiplier, scaled)
// swap swaps two vectors, and will return an error if the dimensions are incom\
-uu-:**-F1 vector_do_go Top L1
                                      (Fundamental)----
Auto-saving...done
```

We make products accessible, but not the processes by which they are built



Some hard-earned lessons in writing accessible code

Group code blocks logically

```
a, b := Vector\{1, 2, 3\}, Vector\{4, 5, 6\}
a, b, \_ = swap(a, b)
c := Vector{7, 8, 9}
total, _ := add([]Vector{a, b, c}...)
```

OK

Group code blocks logically

NOT RECOMMENDED

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```
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```

- Keep your variables close to where they are used
- Same with interfaces, struct, type declaration

Keep names short

var a, b Vector

var vectorA, vectorB Vector

Fast to listen to

Easier to navigate around

Less effort to type

OK

NOT RECOMMENDED

Make names meaningful

var total, scaled Vector

OK

var tVec, sVec Vector

NOT RECOMMENDED

- Meaningful names reduce cognitive load
- A light form of self-documenting code
- Reduces the amount of jumping around in the codebase

Use pronounceable names

```
var total Vector
func add(...)

OK
```

- Screenreaders can read them
- Takes less time than pronouncing a string of letters

Use new lines intentionally

```
a, b := Vector{1, 2, 3}, Vector{4, 5, 6}
a, b, _ = swap(a, b)

c := Vector{7, 8, 9}
total, _ := add([]Vector{a, b, c}...)
```

- New lines are your code's paragraph breaks
- Don't use them too much or too little



Be consistent

- Pick styles early
- Update your code
- Keep enforcing them



Why do any of this?



Disability can be invisible





Disability isn't binary





Accessibility is for everyone





Curb cut effect



Built for a single population or purpose



Serves the needs of others as well



Curb cuts for your code

- Improved maintenance
- Better onboarding
- More inclusive environment



Writing accessible Go

- ✓ Organize your code logically
- ✓ Use pronounceable names
- ✓ Be consistent



More info

- Transcript of this talk:
 http://bit.ly/accessible-go-transcript
- Python Code Style for Blind Programmers: <u>http://bit.ly/2uBWHoY</u>
- Emacspeak: http://bit.ly/emacspeak
- Tools of a Blind Programmer:
 http://bit.ly/tools-of-a-blind-programmer
- Curb cuts: http://bit.ly/99-curb-cuts



Thank you!

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