

# **Go For Frontend Developers**

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- Front End Developer
- I just started learning Go.
- Thats not my dog.

**Go is a better designed  
language than JS.**

# WRITE



# ALL THE CODE IN JAVASCRIPT



<http://www.globalnerdy.com/2014/08/11/techie-amusements/>

If a [language] feature is sometimes  
useful and sometimes dangerous  
and there is a better option then  
always use the better option.



- Functions
- Object Literals
- Dynamic Typing  
(but not the ==)



- Easily Declared Globals
- Everything is in the same space
- this...what is this!?!  
  
● ;

<http://imgur.com/gallery/H6Veq2V>



JS



Go



?

# Like JavaScript...

- Functions are first class
- Lexical Scoping (with blocks)
- Closures
- Easily create methods

# But Different...

```
1 package main
2
3 import "fmt"
4
5 func Repeat(a string, b int) string {
6     result := ""
7     for i := 0; i < b; i++ {
8         result += a
9     }
10
11     return result
12 }
13
14 func main() {
15     fmt.Print(Repeat("Hello", 3))
16 }
```

HelloHelloHello  
Program exited.

```
3 import (
4     "errors"
5     "fmt"
6 )
7
8 func Repeat(a string, b int) (string, error) {
9     result := ""
10    if b < 1 {
11        return result, errors.New("Must repeat atleast once")
12    }
13    for i := 0; i < b; i++ {
14        result += a
15    }
16    return result, nil
17 }
18
19 func main() {
20     fmt.Println(Repeat("Hello", 3))
21 }
22
```

HelloHelloHello <nil>

```
4
5 func Concat(words ...string) string {
6     result := ""
7     for _, word := range words {
8         result += word
9     }
10    return result
11 }
12
13 func main() {
14     fmt.Println(Concat("Hello", " ", "Gophers"))
15 }
```

Hello Gophers

```
function Concat () {
    var result = '',
        length = arguments.length;
    for (var i = 0; i < length; i++) {
        result += arguments[i];
    }
    return result;
}
```

```
console.log(Concat('Hello', ' ', 'Gophers!'));
```

# More Likes

- Async and Concurrency
- Garbage Collection
- Error Handling
- go fmt

# More Differences

- Static Typing
- Compiler Errors and Compiling
- Packages

# Both Want to Improve Inheritance

**Prototypical  
Inheritance**

**Composition  
interfaces**



INTERFACES

Ocean Dwellers

Birthers

Land Dwellers

TYPES

Tuna

Guppies

Horse

METHODS

Swim

Live Birth

Run

School

Walk

Blink

~~Composition in~~ Go is safe,  
comfortable and explicit.

# ex·plic·it

/ik'splisit/ 

*adjective*

1. stated clearly and in detail, leaving no room for confusion or doubt.

"the speaker's intentions were not **made explicit**"

*synonyms:* [clear](#), [plain](#), [straightforward](#), crystal clear, easily understandable; [More](#)

# ex·pres·sive

/ik'spresiv/ 

*adjective*

effectively conveying thought or feeling.

*synonyms:* [eloquent](#), [meaningful](#), [demonstrative](#), [suggestive](#) [More](#)

- conveying (the specified quality or idea).

"the spires are expressive of religious aspiration"

“Go seems great, but like its so opinionated.”

- Anonymous Coworker

# Resources

- [golang-book.com](http://golang-book.com)
- [golangbootcamp.com](http://golangbootcamp.com)
- [gophers.slack.com](http://gophers.slack.com)
- [golang.org](http://golang.org)
- [gophervids.appspot.com](http://gophervids.appspot.com)