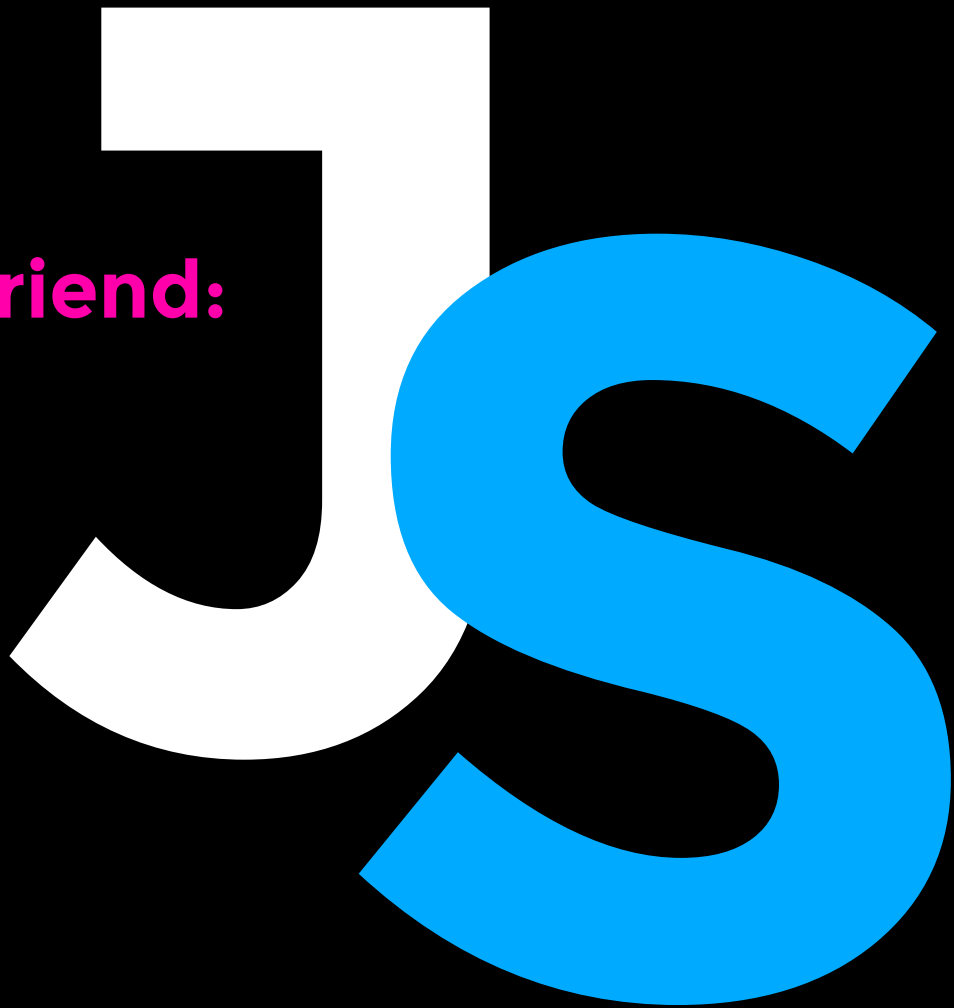


Say Hello to my Little Friend:





Carla Morawicz

McGill

Day Job

Todos

bout

*“JavaScript is the only language that I’m aware of that people feel they don’t need to learn before they start using it.”*

*- Douglas Crockford*

# #so true

**OBJECTS**



**OBJECTS EVERYWHERE**

you know what else are objects...

# **FUNCTIONS.**

***#firstclass***

# FUNCTION DECLARATION

VS

# FUNCTION EXPRESSION

```
function foo (arg1, arg2,...) {  
    //do something!  
}
```

```
var foo = function (arg1, arg2,...) {  
    //do something!  
};
```

**The same!**

**But not the same!?!**

# Consider the following...

```
alert(sum(10, 20)); //30
```

```
function sum(num1, num2) {  
    return num1 + num2;  
}
```

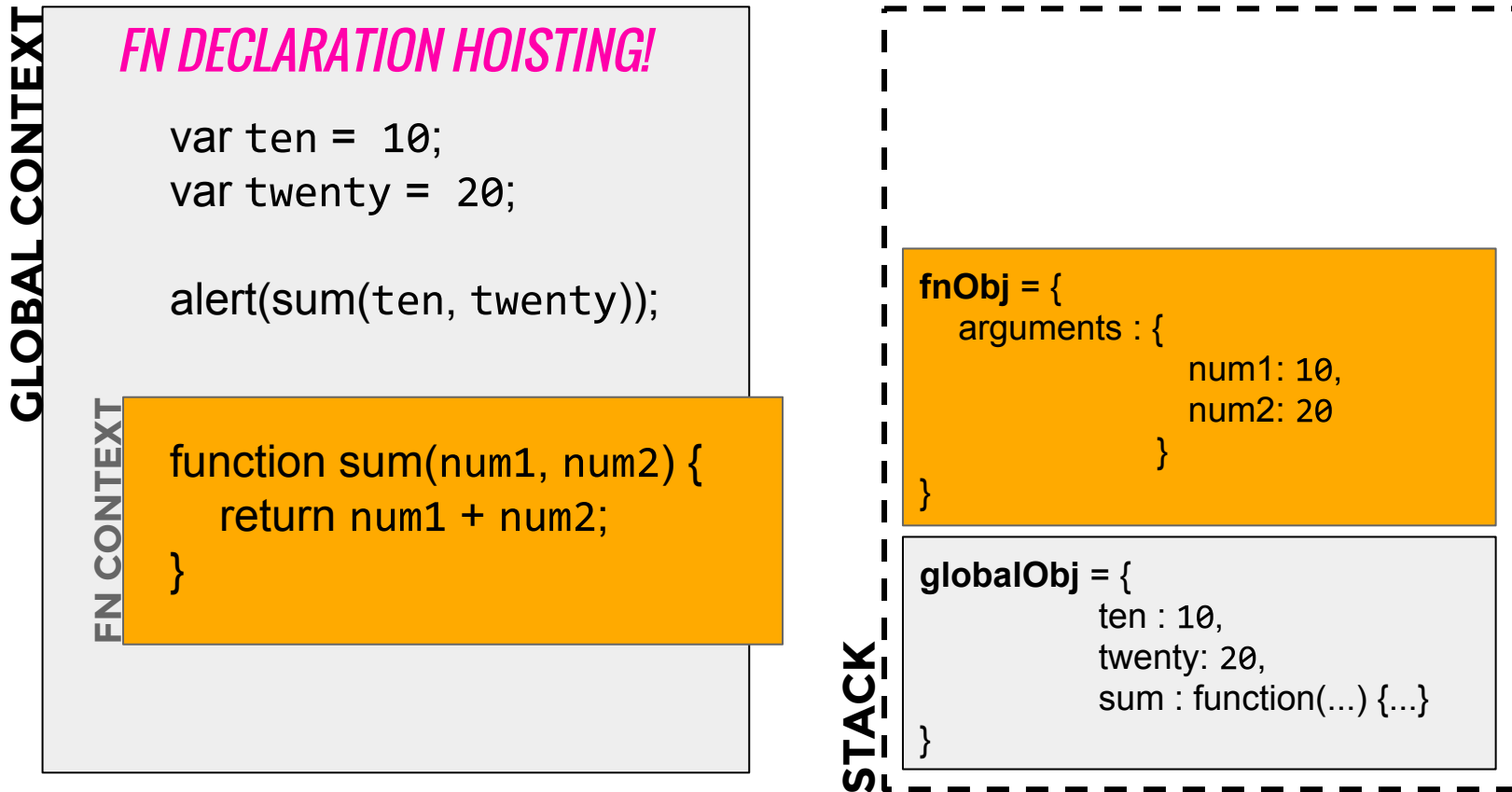
```
alert(sum(10, 20)); //throws error!
```

```
var sum = function(num1, num2) {  
    return num1 + num2;  
};
```

***ERRONEOUS!***

**Context is Everything!**

# EXECUTION CONTEXT // SCOPE





“JavaScript does not have *block scope*  
(but has **closure** so let’s call it even?)”

- Eugene Yokota

#seemsfair

# NO BLOCK SCOPE // CLOSURE

GLOBAL CONTEXT

```
var ten = 0;  
  
for (var i=0; i < 10; i++) {  
    ten++;  
}  
  
alert(i); //10, i lives!!!  
  
alert(sum(ten)());
```

FN CONTEXT

```
function sum(num) {  
    var twenty = 20;  
    return function () {  
        return num + twenty;  
    }  
}
```

STACK

```
anonymObj = {  
  arguments : { },  
  num : 10,  
  twenty: 20  
}
```

```
fnObj = {  
  arguments : { num: 10 },  
  twenty: 20  
}
```

```
globalObj = {  
  ten : 10,  
  i = 10,  
  sum : function(...) {...}  
}
```

# FUNCTIONS as VALUES

“anything **var** can do, **i** can do better!”

```
function callFunction(someFunction, someArgument) {  
    return someFunction(someArgument);  
}
```

**Thank  
you!**

