

Objectives

- → Represent "static" objects, arrays, functions and variables in diagrams.
- → Draw a diagram of the result of calling a function.
 - → Explain the difference between mutable values and immutable values.

Object

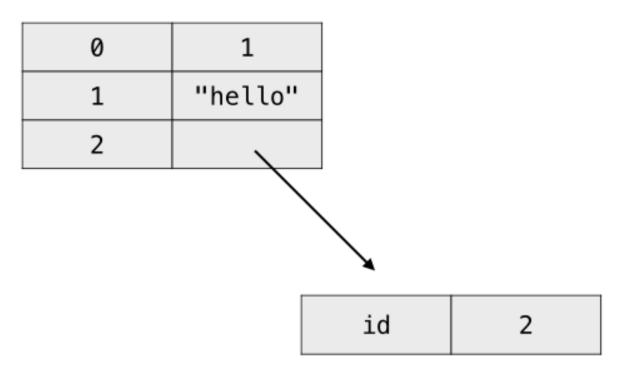
```
first:'Joe',
last: 'Jones',
name: function(){
  return [
    this.first,
    this.last
].join(' ');
}
```

first	"Joe"
last	"Jones"
name	

name body

Array

```
[
 1,
 "hello",
 {id: 2},
 ]
```



Function

```
function(){
  return [
   this.first,
   this.last
  ].join(' ');
function fullName(){
  return [
   this.first,
   this.last
  ].join(' ');
```

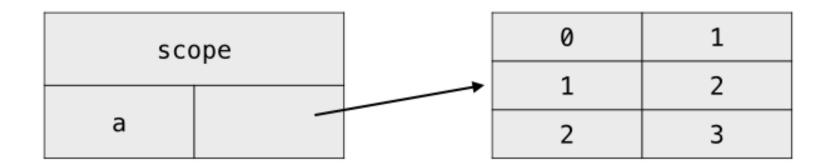
```
fn
name
body
```

```
name "fullName"

body
```

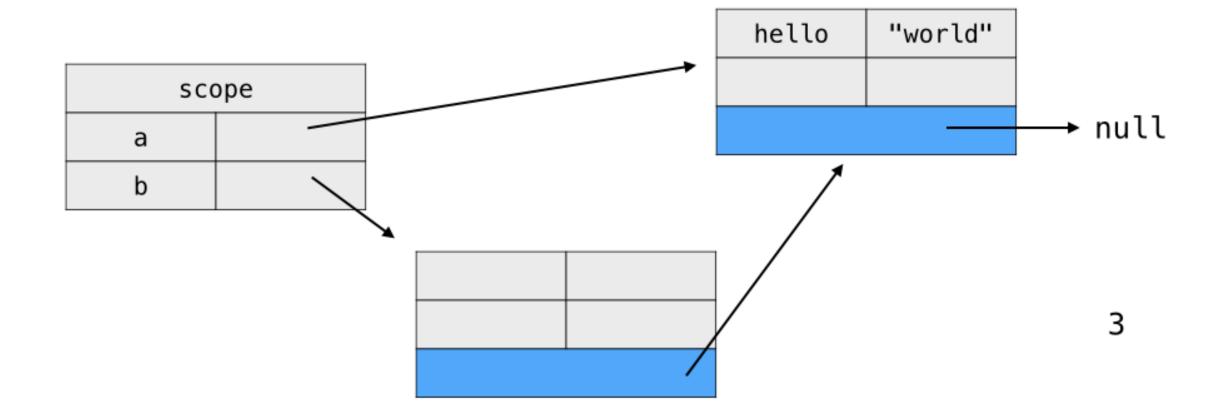
Scope (variables)

var a = [1,2,3]



Prototypes

```
var a = {hello: "world"}
var b = Object.create(a)
```



```
var joe = {
    address: {
        city: "New York",
        state: "NY",
        zip: "10012"
    hobbies: [
        "knitting",
        "coding"
```

Example

```
scope
                                                          "New York"
                                              address
                      joe
                                                          "NY"
                                              hobbies
var joe = {
 address: {
                                                          "10012"
                                              zip
  city: "New York",
  state: "NY",
                          address
  zip: "10012"
                          hobbies
 hobbies: [
  "knitting",
  "coding"
                                               "Knitting"
                                    0
                                                "Coding"
```