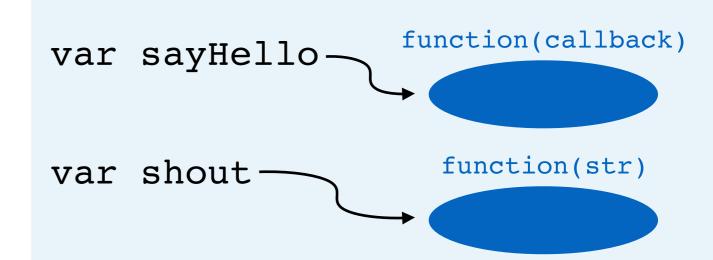
JSDN

(by example)

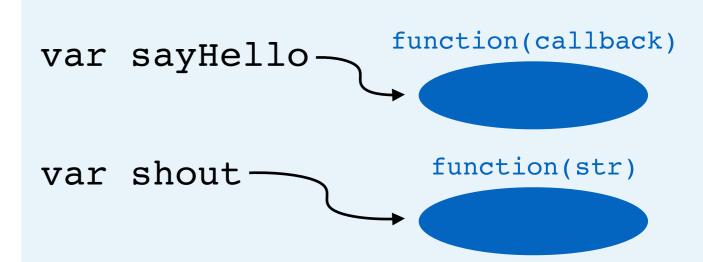
Functions as Arguments

```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```



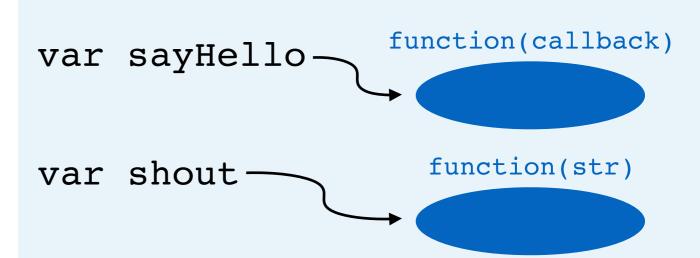
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

a. Assignment



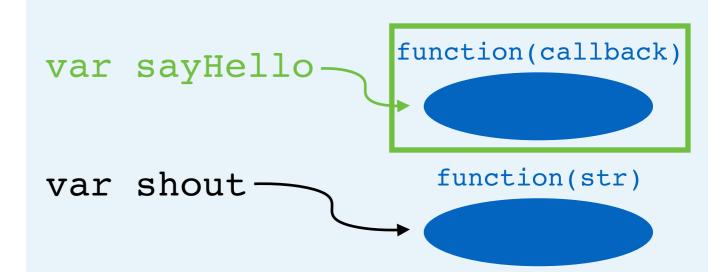
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side



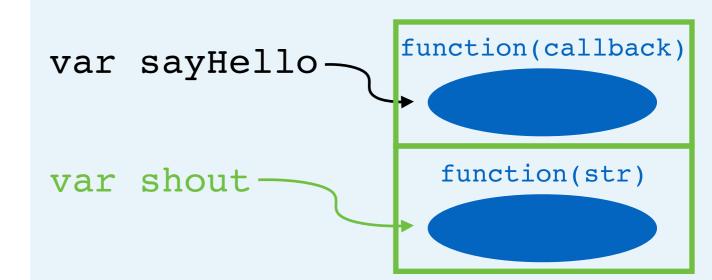
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello



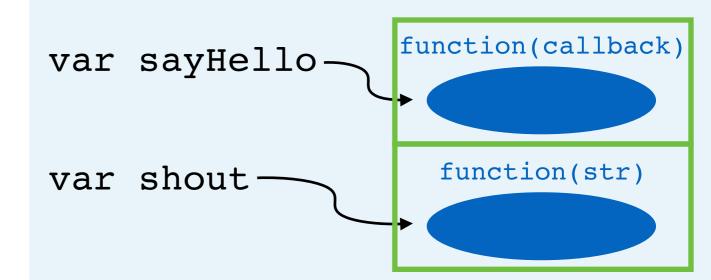
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)



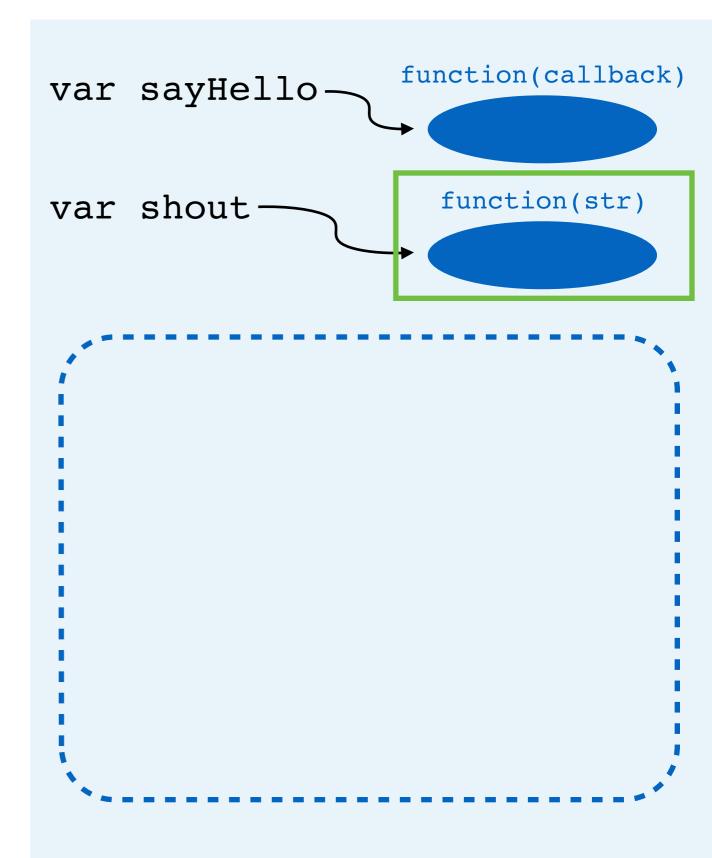
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function



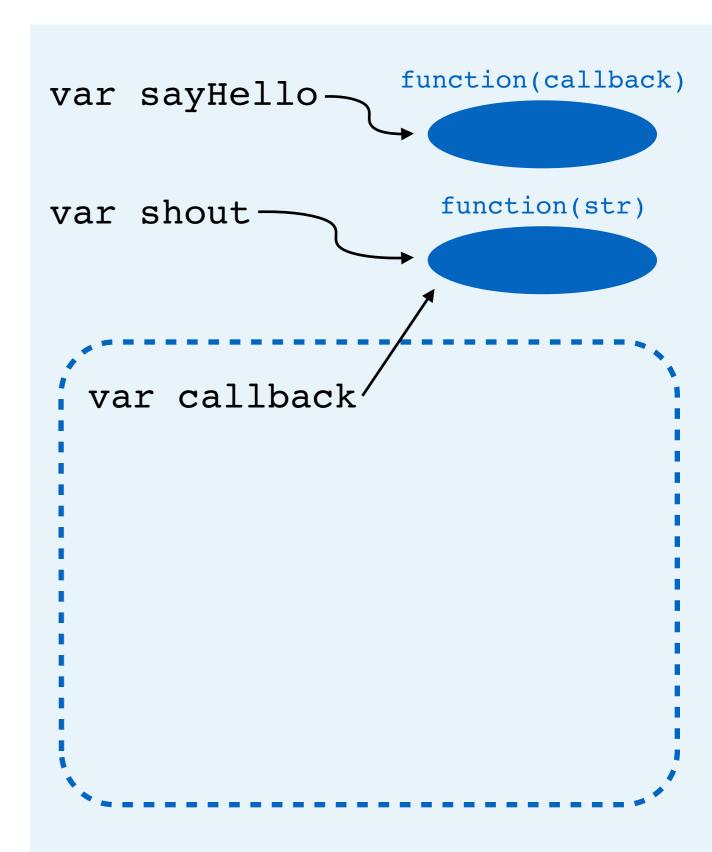
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope



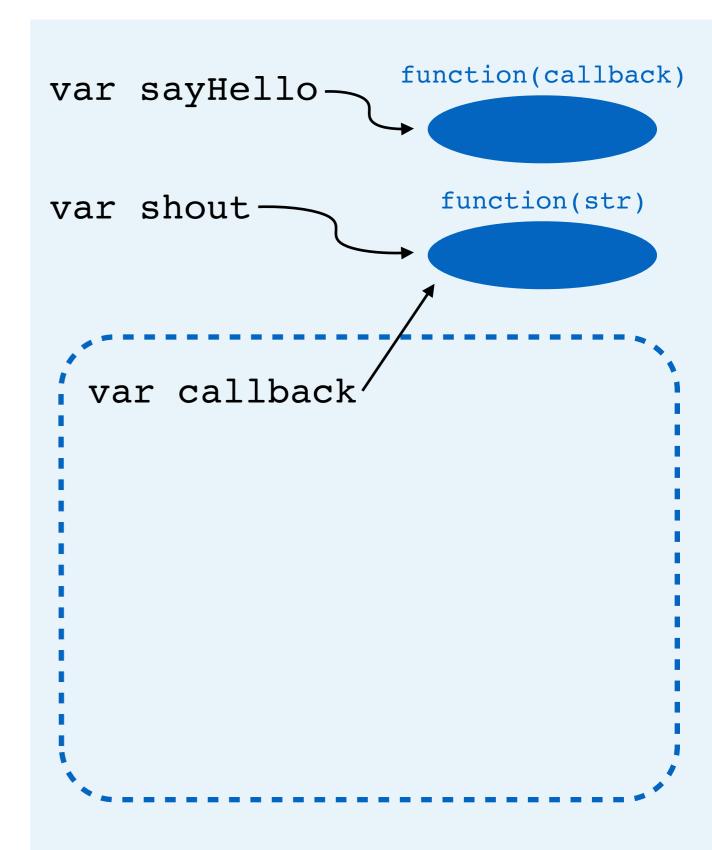
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters



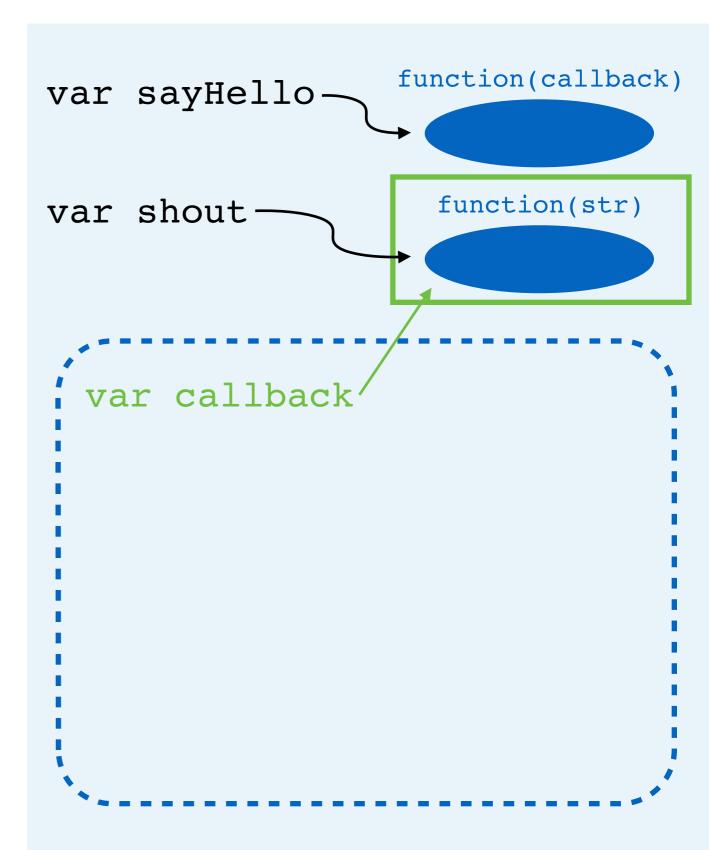
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement



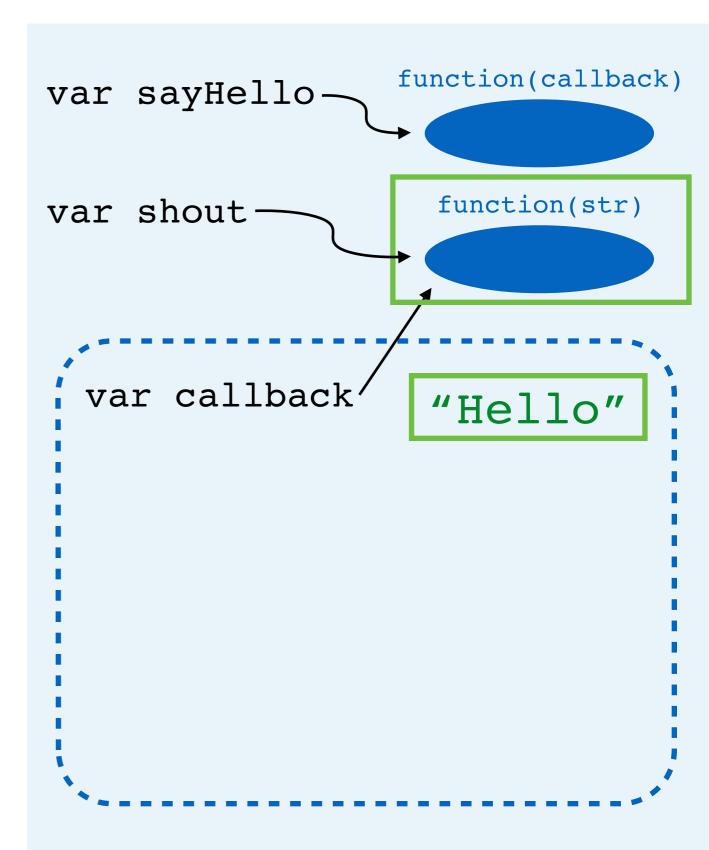
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of callback



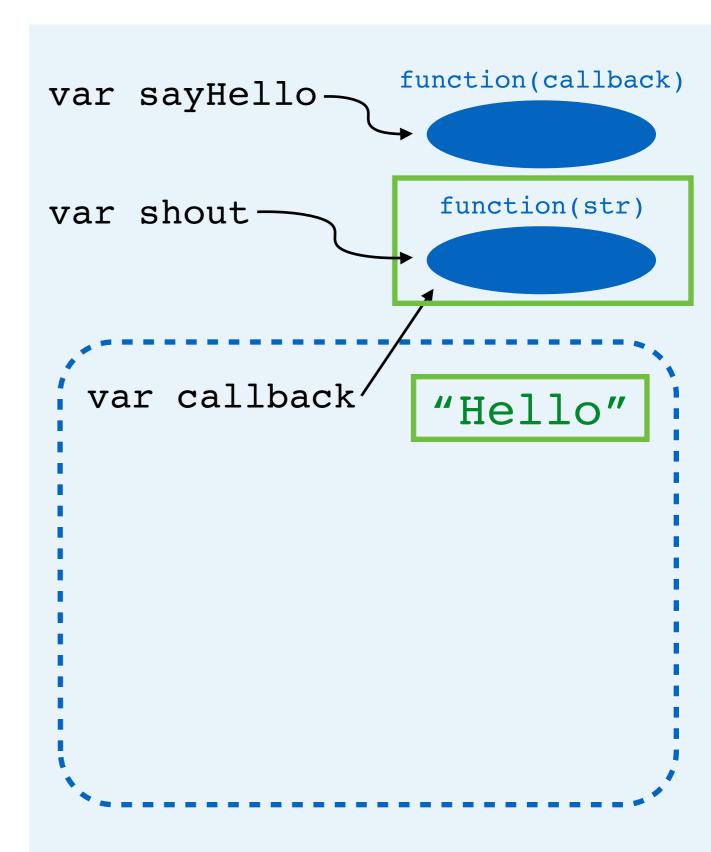
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)



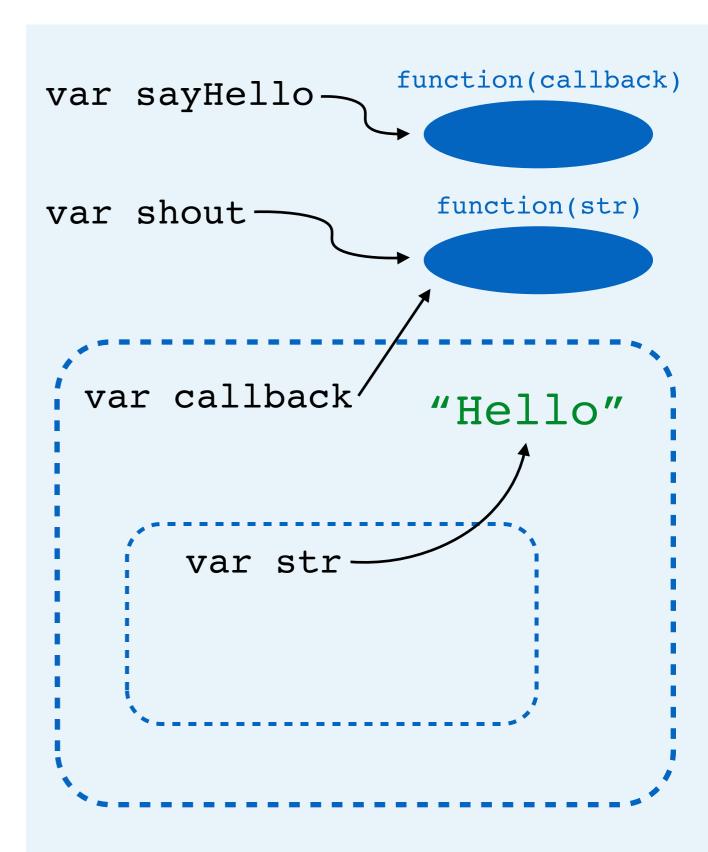
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function



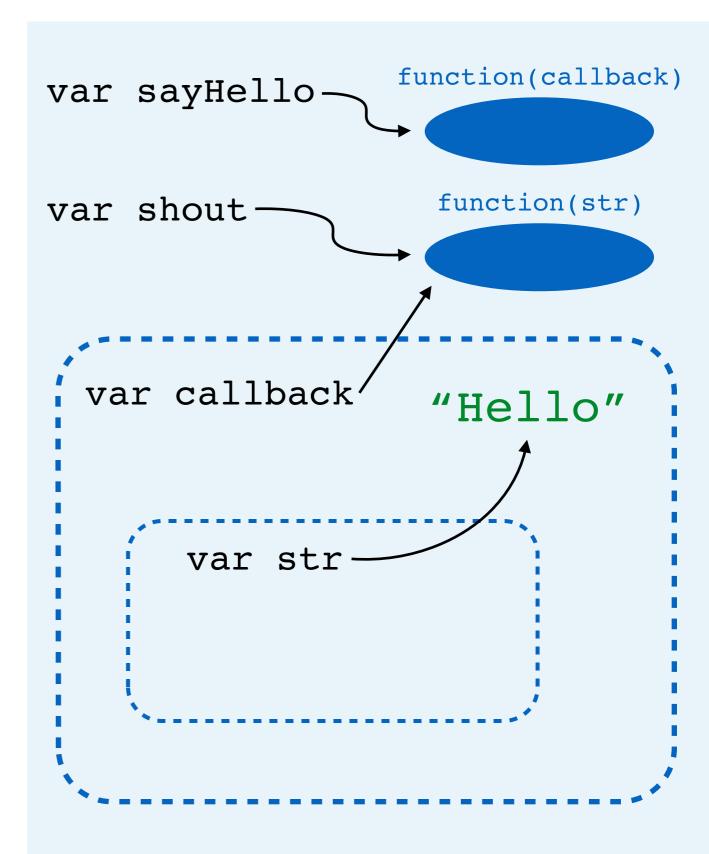
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters



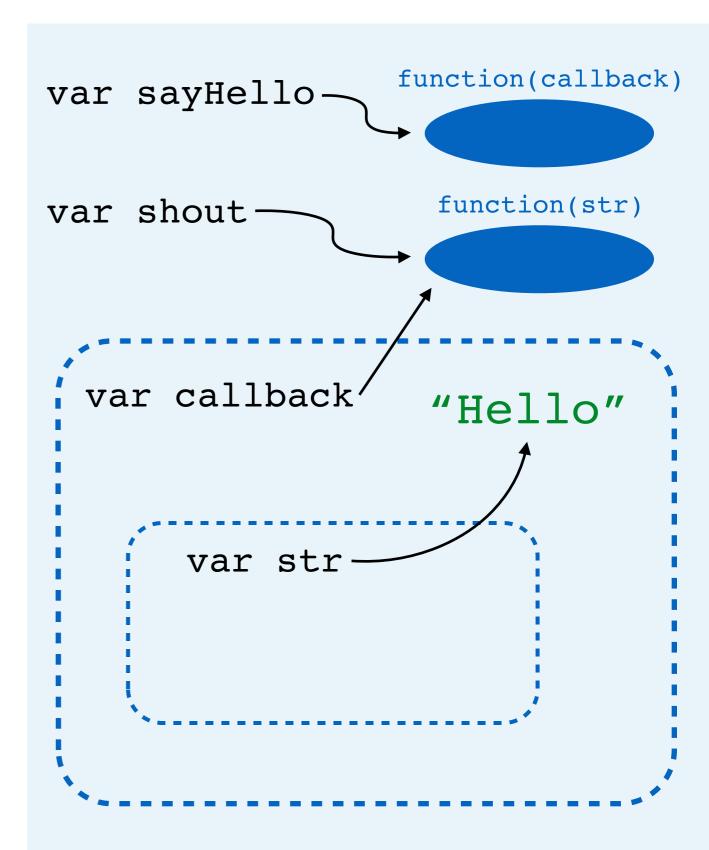
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement



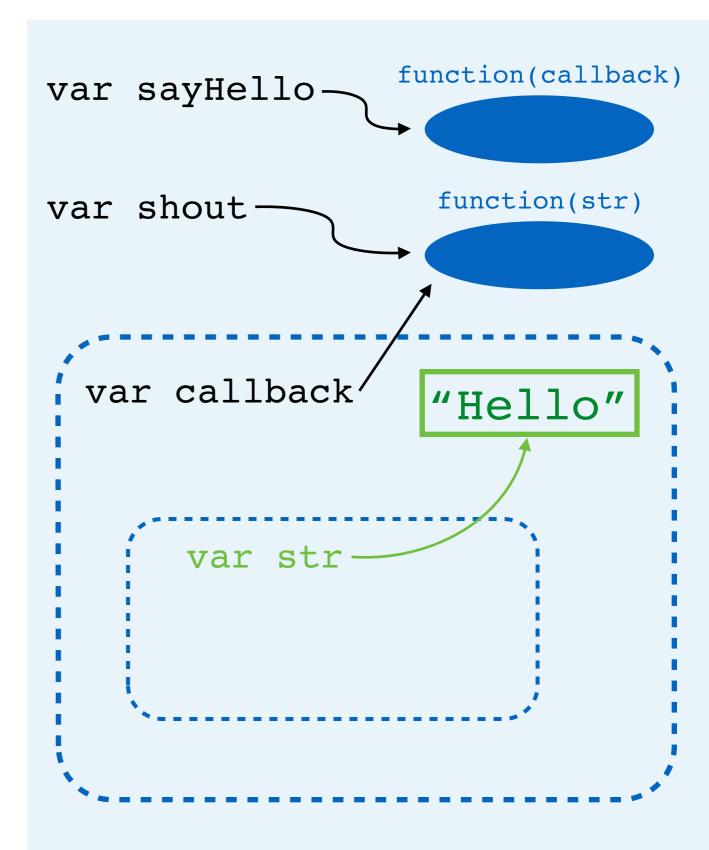
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation



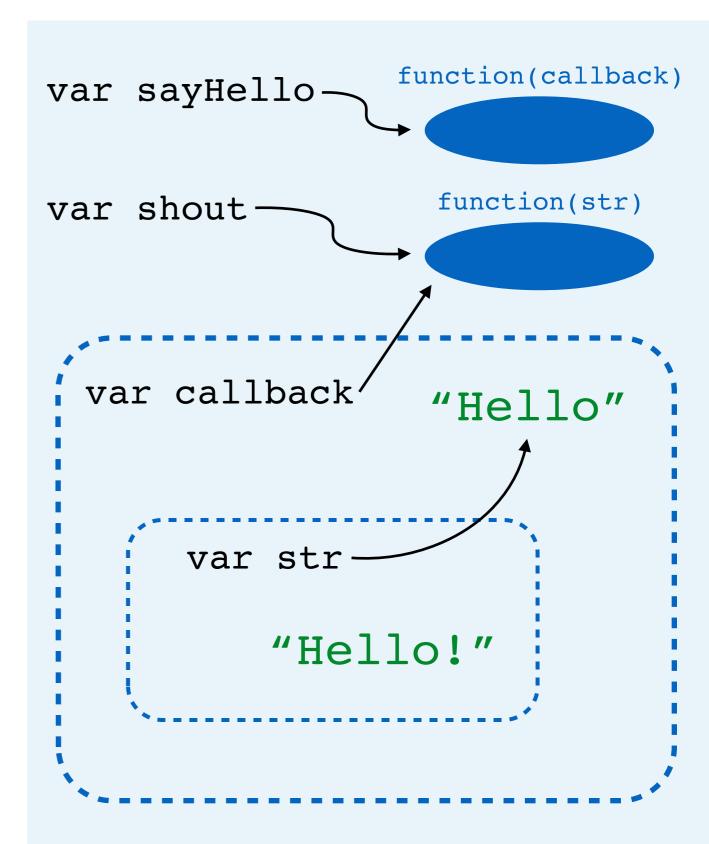
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str



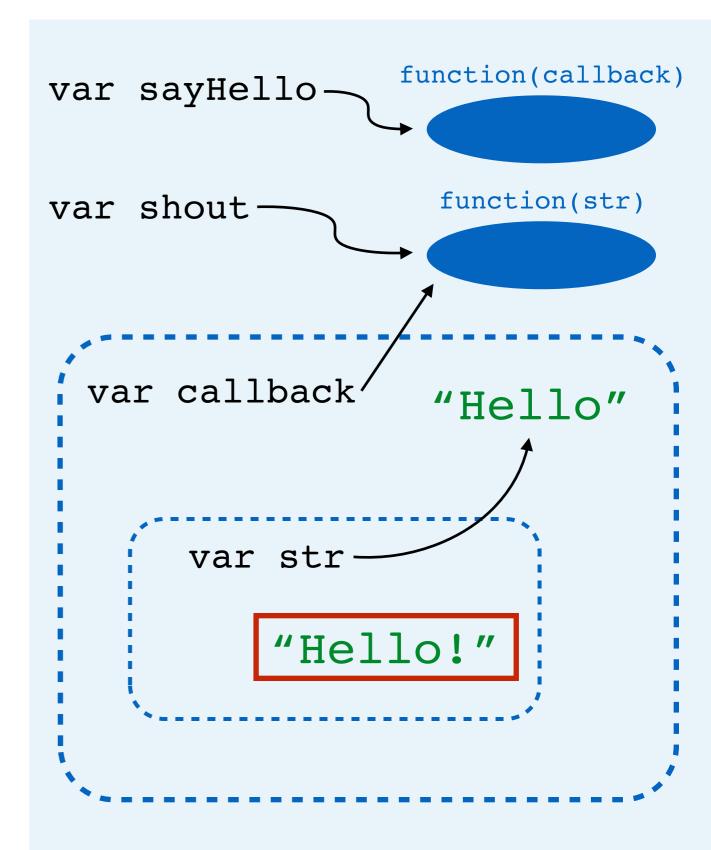
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str
 - b. Create value



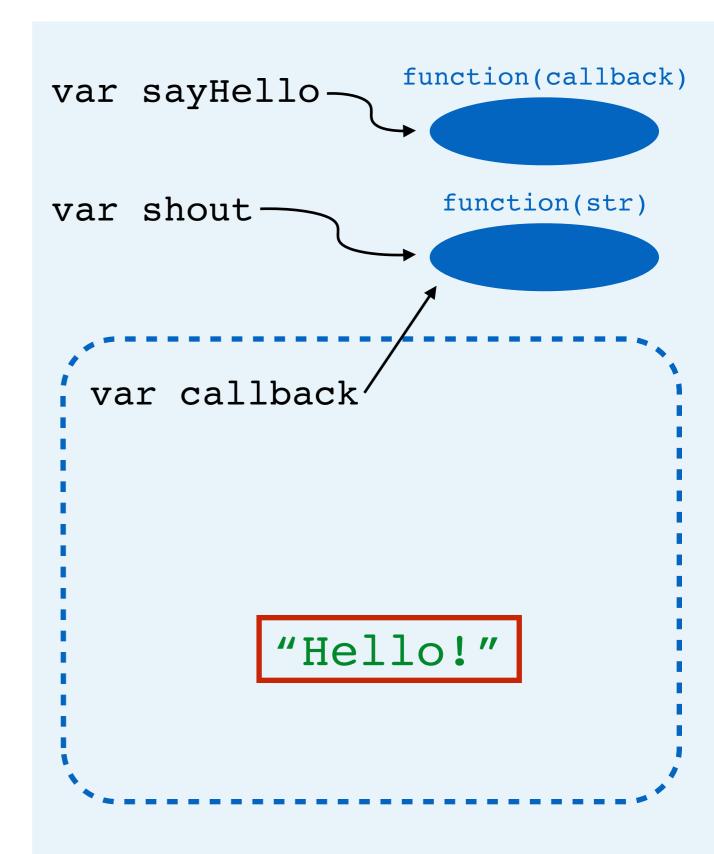
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str
 - b. Create value
 - b. Mark as return value



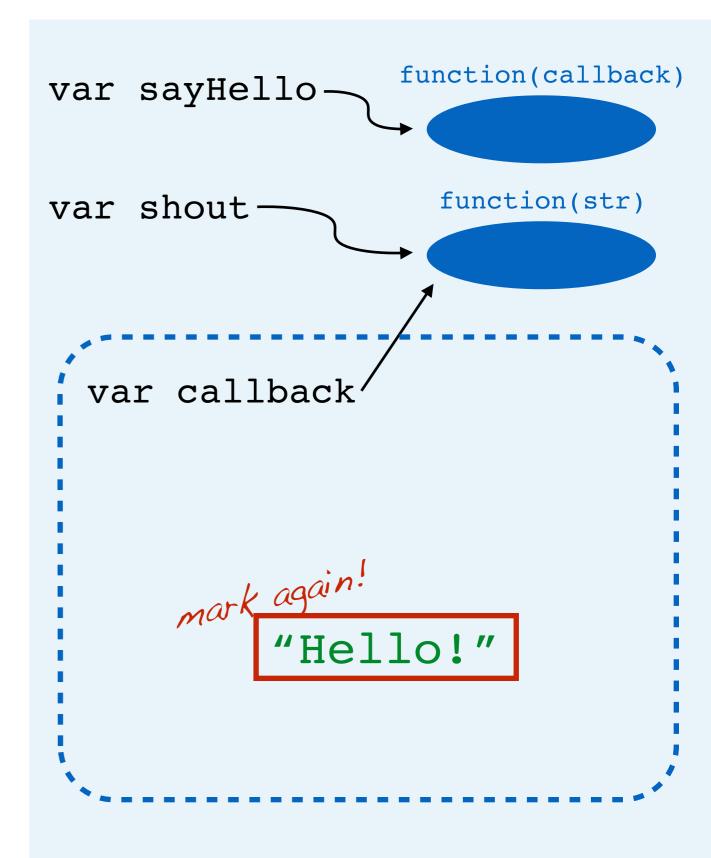
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str
 - b. Create value
 - b. Mark as return value
 - c. Garbage collect scope



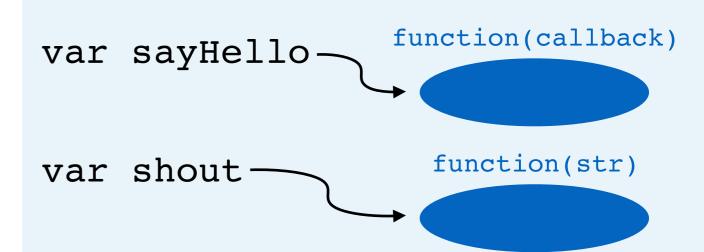
```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str
 - b. Create value
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Mark as return value



```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str
 - b. Create value
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Mark as return value
 - d. Garbage collect scope



"Hello!"

```
var sayHello = function (callback) {
  return callback("Hello")
}
var shout = function (str) {
  return str + "!"
}
var result = sayHello(shout)
```

- a. Assignment
 - a. Evaluate right side
 - b. Look up value of sayHello
 - c. Look up value of shout (resolve argument)
 - d. Call function
 - a. Create scope
 - b. Create parameters
 - c. Return statement
 - a. Look up value of modifier
 - b. Create value (resolve argument)
 - c. Call function
 - a. Create scope & parameters
 - b. Return statement
 - a. Binary Operation
 - a. Look up value of str
 - b. Create value
 - b. Mark as return value
 - c. Garbage collect scope
 - d. Mark as return value
 - d. Garbage collect scope
 - e. Create var result, point to value

