Arrays & Modules



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Class Overview

Logic / Flow Control

Arrays API

Debugging & Error Handling

Modules & npm

homework solution

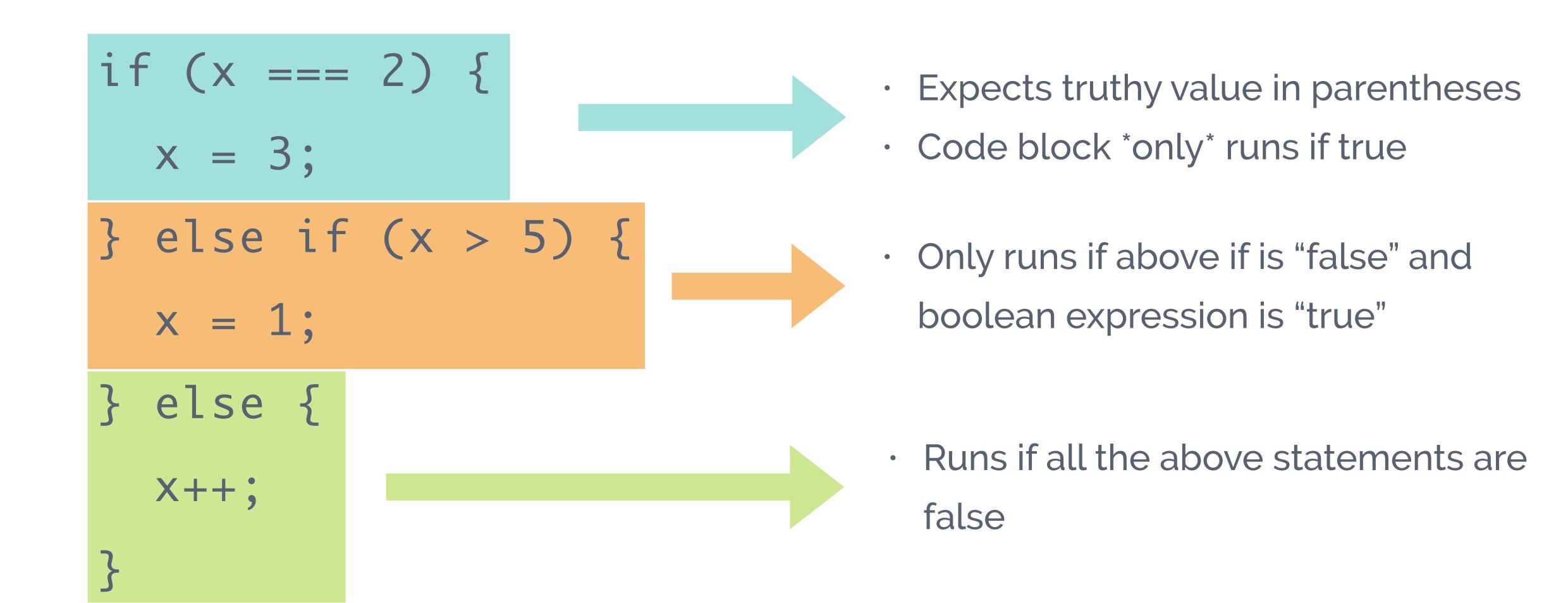




Logic

Flow Control

If / Else If / Else



Weird JavaScript
Alerti!!!!



Truthy

```
'salamander'
345
```

{ prop: 'value' }

Falsey

```
false
    6 )
    0
  null
   NaN
undefined
```

Switch

switch (x) {

case 2:

x = 3;

break;

case 5:

$$x -= 1;$$

break;

Argument to evaluate

Possible values. If a match is found, the code below begins executing.

Ends execution of the switch block

}

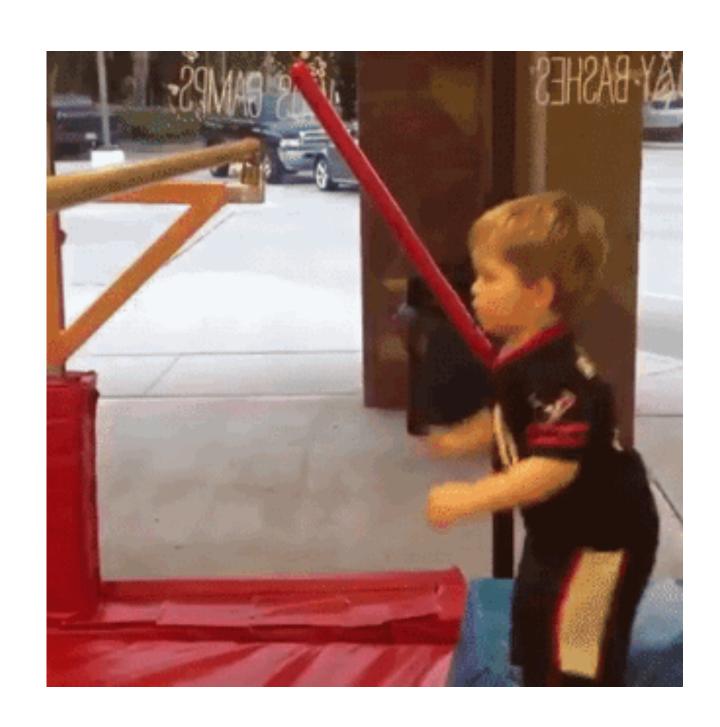
Array Gymnastics

Accessing Array Elements

```
var arr = [1, 2, 3];
var y = arr[1];
// y = 2
```

Length of Array

```
var arr = [1, 2, 3];
var y = arr.length;
// y = 3
```



push()

Adds an element to the end of the array.

```
var arr = [1, 2, 3];
arr.push(4);
// arr = [1, 2, 3, 4]
```

pop()

Returns the last element in an array and removes it from the array.

```
var arr = [1, 2, 3];
var y = arr.pop();
// arr = [1, 2]
// y = 3
```

unshift()

Adds an element to the front of the array.

```
var arr = [1, 2, 3];
arr.unshift(4);
// arr = [4, 1, 2, 3]
```

shift()

Returns the first element in an array and removes it from the array.

```
var arr = [1, 2, 3];
var y = arr.shift();
// arr = [2, 3]
// y = 1
```



Hunting JavaScript Bugs



nine point mulligan npm packaged modules nuclear pizza machine noodle printing machine nerdiest precious modules no! prime mutation! noisy pillaging monster north pittsburgh meatpackers

Install a Package

npm install <package-name>

-- save -- save-dev

-- save-exact

Install a Package Globally

npm install -g <package-name>

Go To Package Documentation Site

npm home <package-name>

View Package Info & Versions

npm info <package-name>





package.json Example

```
"name": "best-app",
"version": "1.0.0",
"description": "The best app you've ever seen, duh...",
"main": "index.js",
"scripts": {
  "test": "echo \"The code is perfect\" && exit 1"
"author": "Ryan Lewis",
"license": "ISC",
"devDependencies": {
  "grunt": "^1.0.1"
"dependencies": {
  "jquery": "^2.2.3"
```

```
// first install: npm install async
var async = require('async');
async.map(...);
async.parallel(...);
```



```
// myModule.js
function myFunc (myString) { ... }
module.exports = myFunc;
// index.js
var thatFunc = require('./myModule.js');
thatFunc('that string');
```