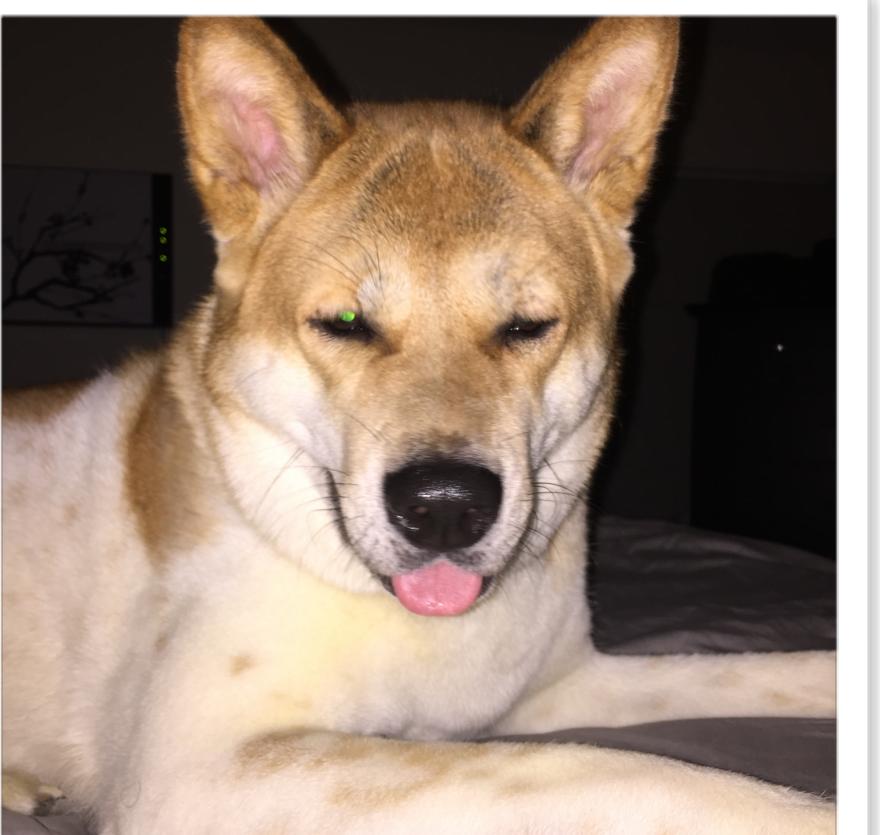


Arrays & Modules



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Class Overview

Logic / Flow Control

Arrays API

Debugging & Error Handling

Modules & npm

homework solution



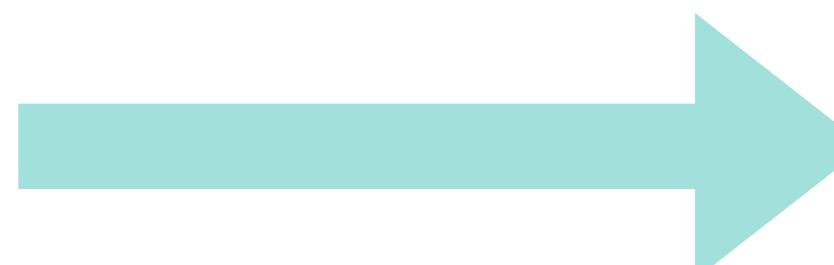
Logic



Flow Control

If / Else If / Else

```
if (x === 2) {  
    x = 3;
```



- Expects truthy value in parentheses
- Code block **only** runs if true

```
} else if (x > 5) {  
    x = 1;
```



- Only runs if above if is “false” and boolean expression is “true”

```
} else {  
    x++;  
}
```



- Runs if all the above statements are false

Weird JavaScript
Alert!!!!



Truthy

true

‘salamander’

345

{ prop: ‘value’ }

Falsey

false

“ ”

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
```

shift()

Adds an element to
the front of the array.

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

unshift()

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

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

Go To Package Documentation Site

`npm home <package-name>`

Install a Package Globally

`npm install -g <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 () { ... }
```

```
module.exports = myFunc;
```

```
// index.js
```

```
var thatFunc = require('./myModule.js');
```

```
thatFunc();
```