



42 Data Structures + Algor...
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43 JS Tricky Parts
My Progress

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43.1 Problem Solving Pattern
In this last subunit before your Capstone, we will teach you about some of the older, miscellaneous parts of JavaScript that can come up in interviews.

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43.2 Whiteboarding

1)

7/7

43.3 JS Tricky Parts

1 JS Tricky Parts Handout

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In this handout, we'll give you a brief overview of
the tricky parts of JavaScript.

☒ Mark as complete

Save



5 - 10 Minutes

1 Points

2 JS Must Knows

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3 Closures and IIFEs

JS The Must-Know Parts

- Array / String / Object / Number methods

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5 - 10 Minutes

🟢 1 Points

Closures

- The ability for inner functions to remember variables defined in outer functions, long after the outer function has returned

✓ Mark as complete

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15 - 20 Minutes

🟢 3 Points

the parts of JavaScript
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that you absolutely

must know and not
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make any mistakes on,

like this
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In this video, Colt will
discussed **Closures**
and **Immediately
Invoked Function
Expressions**. He'll
teach you why and
when you might use
them.

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10 - 15 Minutes

2 Points

JS OO Under the Hood

- `new`
- prototypes
- constructor
- `Object.getPrototypeOf`
- prototypal inheritance

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Before ES2015,

JavaScript
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implemented OOPthrough more clunky
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avenues like**prototypes** and
constructors.

5 More About The New Keyword

Creates a Link?

Before we get there - let's review objects/functions in JS

- Every **function** has a property on it called prototype
- The prototype object has a property called constructor which points back to the function

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10 - 15 Minutes

You ever wonder about the nuts and bolts of how **new** works? Colt will teach you all about it here.



6 Methods on the Prototype

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```

4
5 function Dog(name, breed, age) {
6   this.name = name;
7   this.breed = breed;
8   this.age = age;
9   this.bark = function() {
10    return `${this.name} says WOOF WOOF!!!`;
11  }
12 }
13
14
15

```

Line 11, Column 6 ▶ ⌘+Enter

Console Rendering Animations

top Filter Default levels

```

< Dog {name: "Harry", breed: "sheepdog", age: 4, bark: f}
  name: "Harry"
  breed: "sheepdog"
  age: 4
  bark: f ()
  __proto__: Object
> harry.bark()
< "Harry says WOOF WOOF!!!"
>

```

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10 - 15 Minutes

🎯 2 Points

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You create instance
methods by placing
them in a special

object called the

prototype. ES2015 has

abstracted all of this

logic, so you no longer

have to do it manually.

7 Prototype Chain

The Purpose of the Prototype

- JavaScript uses this object to find methods and properties on everything in JS!
- If a property can not be found, JS works it's way up the "prototype chain", finding the prototype of every object

✓ Mark as complete

JavaScript searching
for methods internally
through the prototype
chain. You should
know how it works in
case it comes up in an
interview.

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My Progress

43.1 8 Inheritance Behind The Scenes

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3 Points

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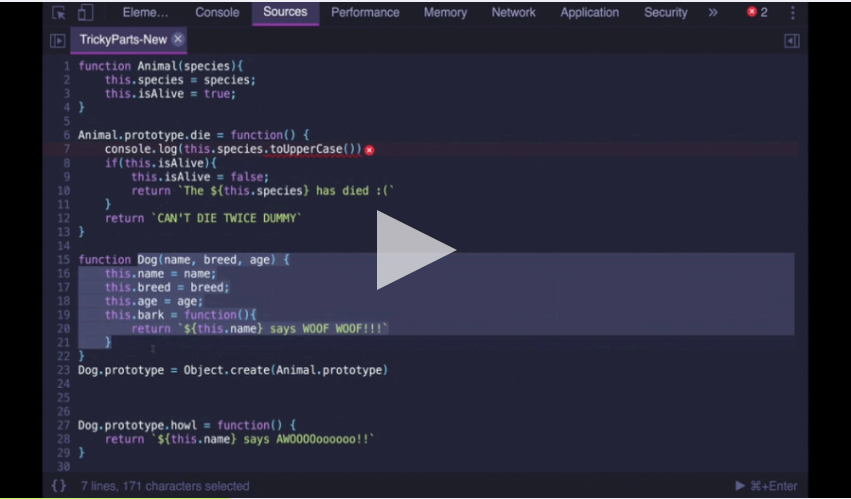
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```
1 function Animal(species){
2   this.species = species;
3   this.isAlive = true;
4 }
5
6 Animal.prototype.die = function(){
7   console.log(this.species.toUpperCase());
8   if(this.isAlive){
9     this.isAlive = false;
10    return `The ${this.species} has died :(`
11  }
12  return 'CAN'T DIE TWICE DUMMY'
13 }
14
15 function Dog(name, breed, age) {
16   this.name = name;
17   this.breed = breed;
18   this.age = age;
19   this.bark = function(){
20     return `${this.name} says WOOF WOOF!!!`
21   }
22 }
23 Dog.prototype = Object.create(Animal.prototype)
24
25
26 Dog.prototype.howl = function() {
27   return `${this.name} says AW000000000!!!`
28 }
29
30
```

✓ Mark as complete

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15 - 20 Minutes

3 Points

JavaScript automates how **inheritance** works, but we think you should have a good grasp of what is happening behind the scenes in your code.

9 Semicolon Insertion

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8
automatically inserts
semicolons if you

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forget them. This is
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Semicolons!

normally a great safety

precaution, but in

some edge cases this

can be like shooting

yourself in the foot.

Brush up on this,

interviewers love

grilling prospective

employees about

semicolons.

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10 JS Trivia

JS The Trivia Parts

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An interviewer might
lob you a curveball
question about some
JavaScript minutiae,
like a closure in a loop,
so Colt will help you
knock that question
out of the park.

Save






15 - 20 Minutes



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Get some hands on practice with all of this tricky stuff!

43.1 Problem Solving Patter...

Click here for the project file(s). (https://lessons.springboard.com/javascript-The-

Tricky-Parts-2b91275b16f0436487877531035582fb)

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43.2 Whiteboarding

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43.3 JS Tricky Parts

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