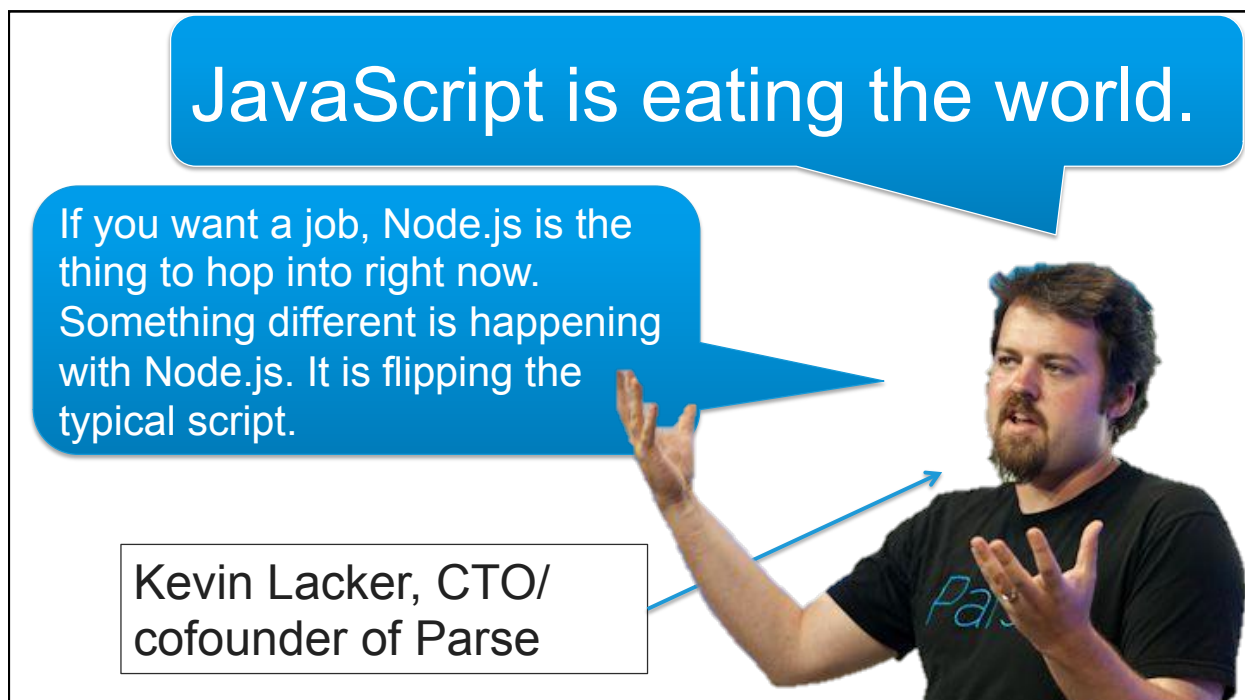
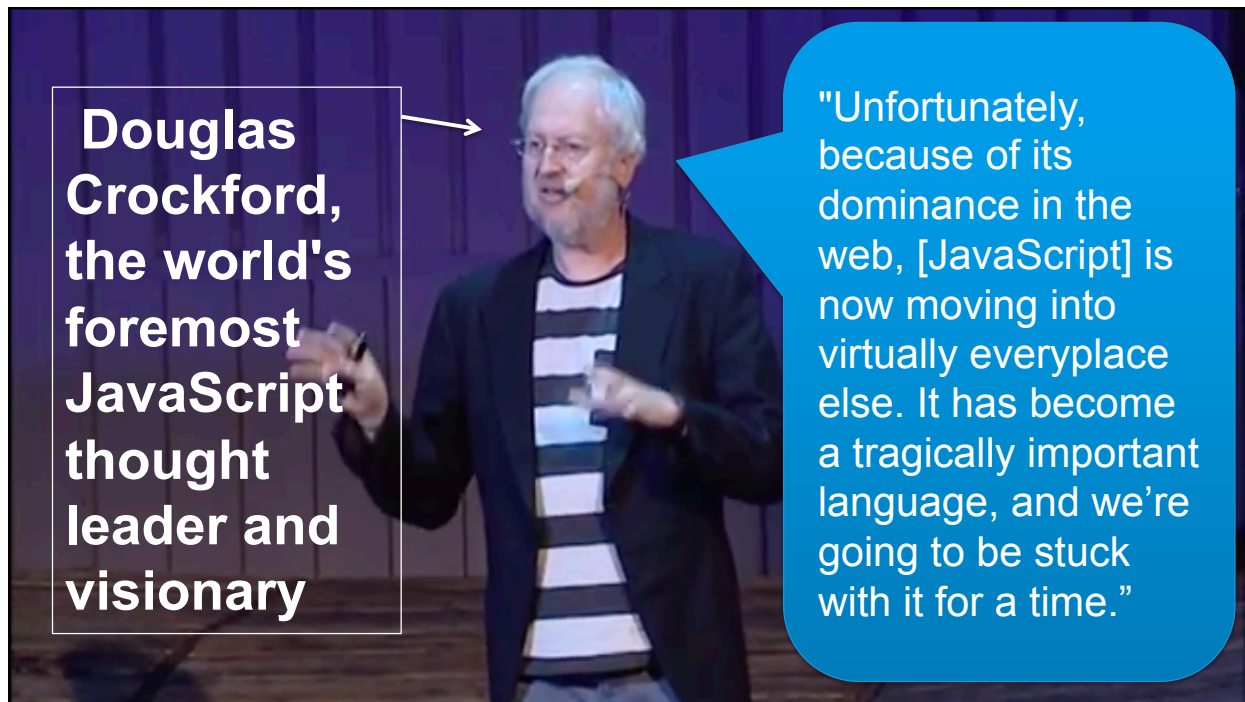


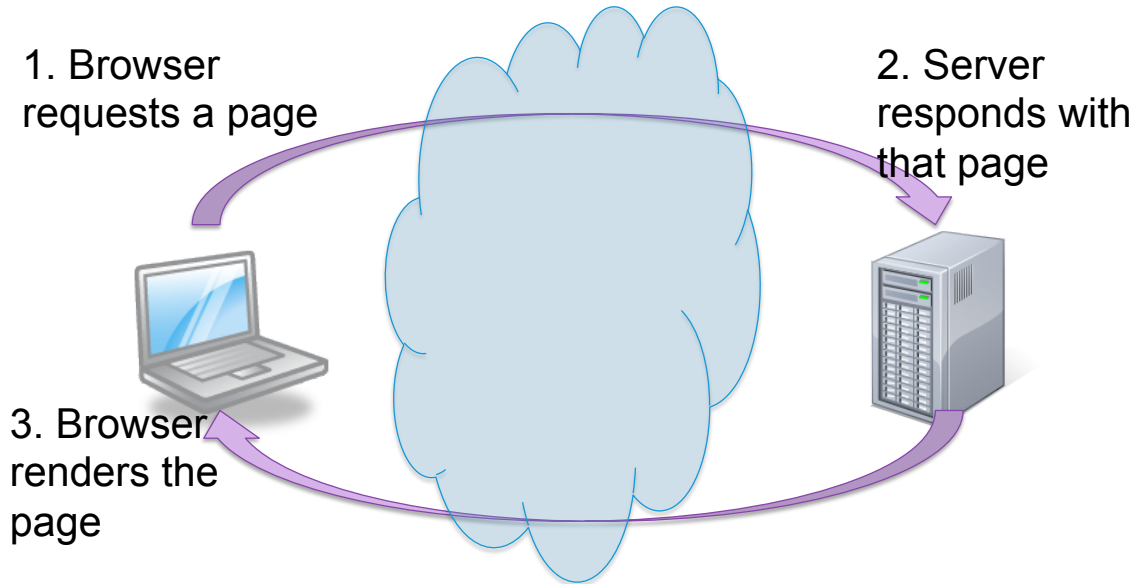
Intro to JavaScript

tl;dr

- JavaScript is a computer language that is interpreted, whether in a browser or in Node and is taking over the world.
- It looks like Java syntax but is not. It supports
 - Variables with let
 - Comments
 - Condition testing with if, else if, and switch statements
 - Looping with while and for



The web uses a thin-client architecture

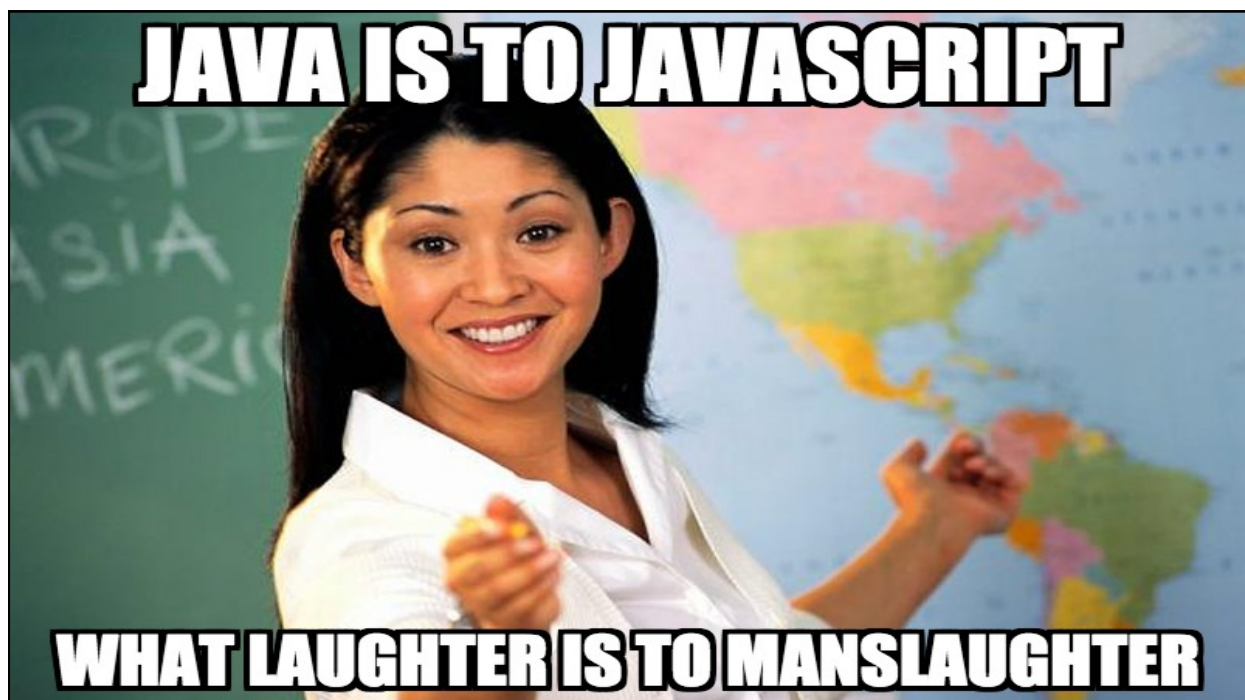


JavaScript is a programming language running in the browser ...



... and/or the server





You add JavaScript to web pages

- Put it inside `<script>` tags ...

```
<script>  
function sayHi() {  
    alert("Hello, world.");  
}  
sayHi();  
</script>
```

- ... or add as a separate file

```
<script src="navigation.js"></script>
```

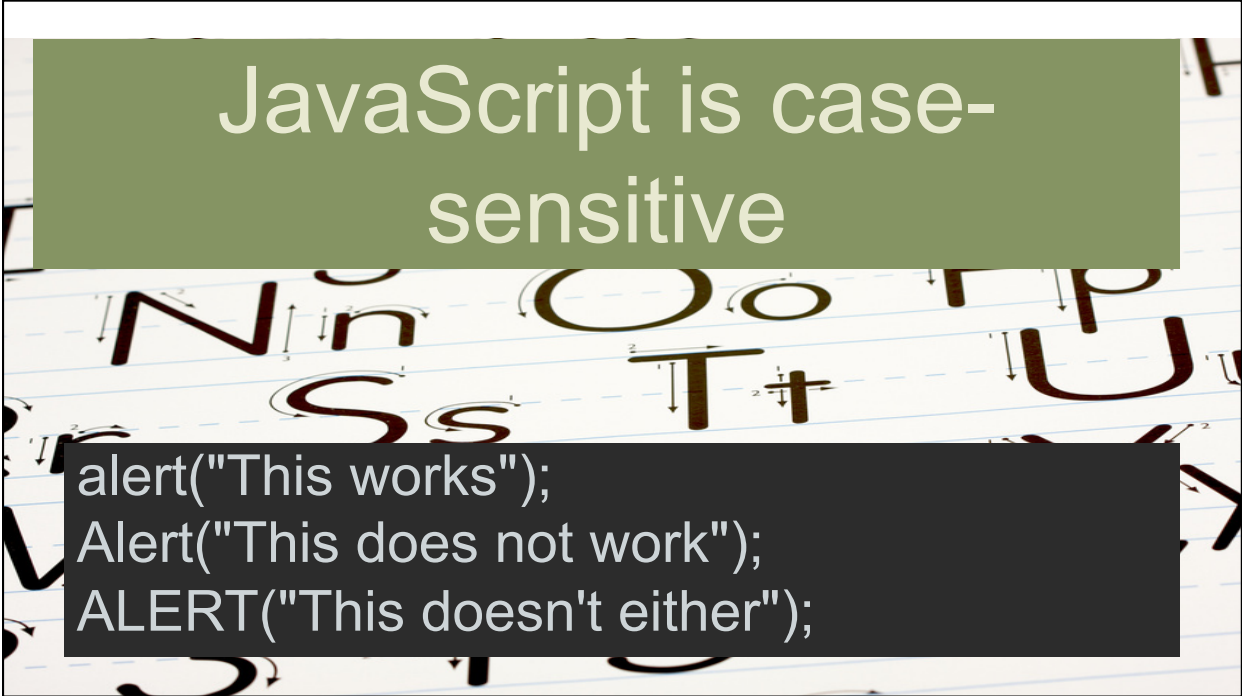
Basic Syntax

Just a couple of things you need to know so we can get hands-on immediately

- To make a variable,

```
let x = "foo";
```

```
let y = 10;
```



JavaScript is case-sensitive

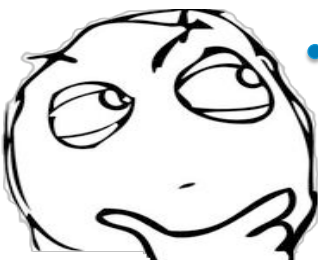
```
alert("This works");  
Alert("This does not work");  
ALERT("This doesn't either");
```

```
var x; // Everything to the right of slashes  
/*  
Anything between slash-splat and  
splat-slash are comments.  
*/
```

You can comment your code

Logic is the stuff that makes software software

Conditional statements
&
Looping



Conditional statements

if statements

```
if ( perryIsHere ) {  
    say("Oh, there you are, Perry.");  
}  
else {  
    say("Where's Perry?");  
}
```


JavaScript has no elseif or elsif or elif

```
if ( boolean ) {  
    doStuff();  
}  
else if (anotherBoolean) {  
    doOtherStuff();  
}  
else {  
    doSomeOtherStuff();  
}
```

Switch
statements
are more
abstract
ways of
doing
multiple
else/ifs

```
switch (catchPhrase) {  
    case "Whatcha doin?":  
        buildTodaysProject();  
        break;  
    case "Aren't you too young?":  
        alert("Yes. Yes I am.");  
        break;  
    case "Curse you Perry!":  
        evilPlotFail();  
        break;  
    default:  
        tellMom();  
}
```

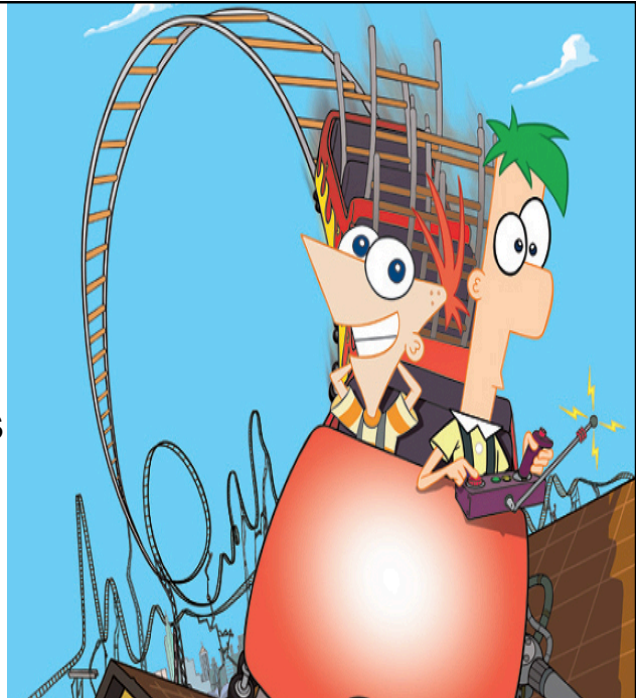
```
switch (studentGrade) {  
    case 'A':  
    case 'B':  
        addToHonorRoll(student);  
    case 'C':  
        reimburseFees(student);  
    case 'D':  
        pass(student);  
        break;  
    case 'F':  
        fail(student);  
        break;  
    default:  
        throw `${studentGrade} isn't valid`  
}
```

Switches fall through
without *break*



Loops

- There are two kinds of loops ...
1. Continuous loops
 - Done with *while* loops
 2. Discrete loops
 - Done with *for* loops



while loops

```
while (somethingTrueOrFalse) {  
    doStuff();  
}
```

for loops are just like in Java, C, C++, C#, perl, etc. etc.

```
for (initializer; continue criteria; incrementer) {  
    doStuff();  
}
```

- For example

```
for (var i = 1 ; i < 10 ; i++) {  
    document.write("<p>" + i + "</p>");  
}
```

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