





Welcome to Intro to JavaScript

(oh yeah!)



First off...

You may have heard “Java” before.

Java is **NOT** the same as JavaScript

Java is to JavaScript
as
Pain is to Painter



So, like.... what is dis?





What JavaScript is

- Programming Language
- A way to make webpages interactive
- Code that runs in a browser
- Based around HTML & CSS
- everywhere



What JavaScript isn't

- A hipster coffee
- A Michael Bay Movie
- Java
- easily mastered
- going anywhere anytime soon



Things you can make with JS

- Picture gallery
- Video chat
- Videogame
- Music player
- Visually stunning graphics
- annoying popups
- keynote like presentations
- product sliding carousels
- robots
- a whole operating system



Things you can't make with JS

- Tacos
- babies



JavaScript in the wild

The collage consists of five screenshots:

- Top Left:** An alert dialog box with the text "JavaScript is cool!" and an "OK" button.
- Top Middle:** A confirm dialog box with the text "JavaScript is cool?" and "Cancel" and "OK" buttons.
- Top Right:** A confirm dialog box with the text "is JavaScript is cool?". The input field contains "umm...". It has "Cancel" and "OK" buttons.
- Bottom Left:** A page leaving confirmation dialog box with the text "This page is asking you to confirm that you want to leave - data you have entered may not be saved." and "Stay on Page" and "Leave Page" buttons.
- Bottom Right:** A search bar with the text "javascr" and a dropdown menu showing search results for JavaScript libraries:
 - typeahead.js**
A fast and fully-featured autocomplete library
 - mustache.js**
Minimal templating with {{mustaches}} in JavaScr
 - twitter-text-js**
A JavaScript implementation of Twitter's text proc

hard to show movement in a static photo



JavaScript in the wild

<https://www.chromeexperiments.com/>



So, like.... what it look like?



```
// Here are some variable
```

```
var topping = "Cheese";
```

```
var meat = "burger";
```

```
var amount = 3;
```

```
// This is an alert box
```

```
alert("I will have a " + topping + meat + ", actually, make that  
" + amount);
```

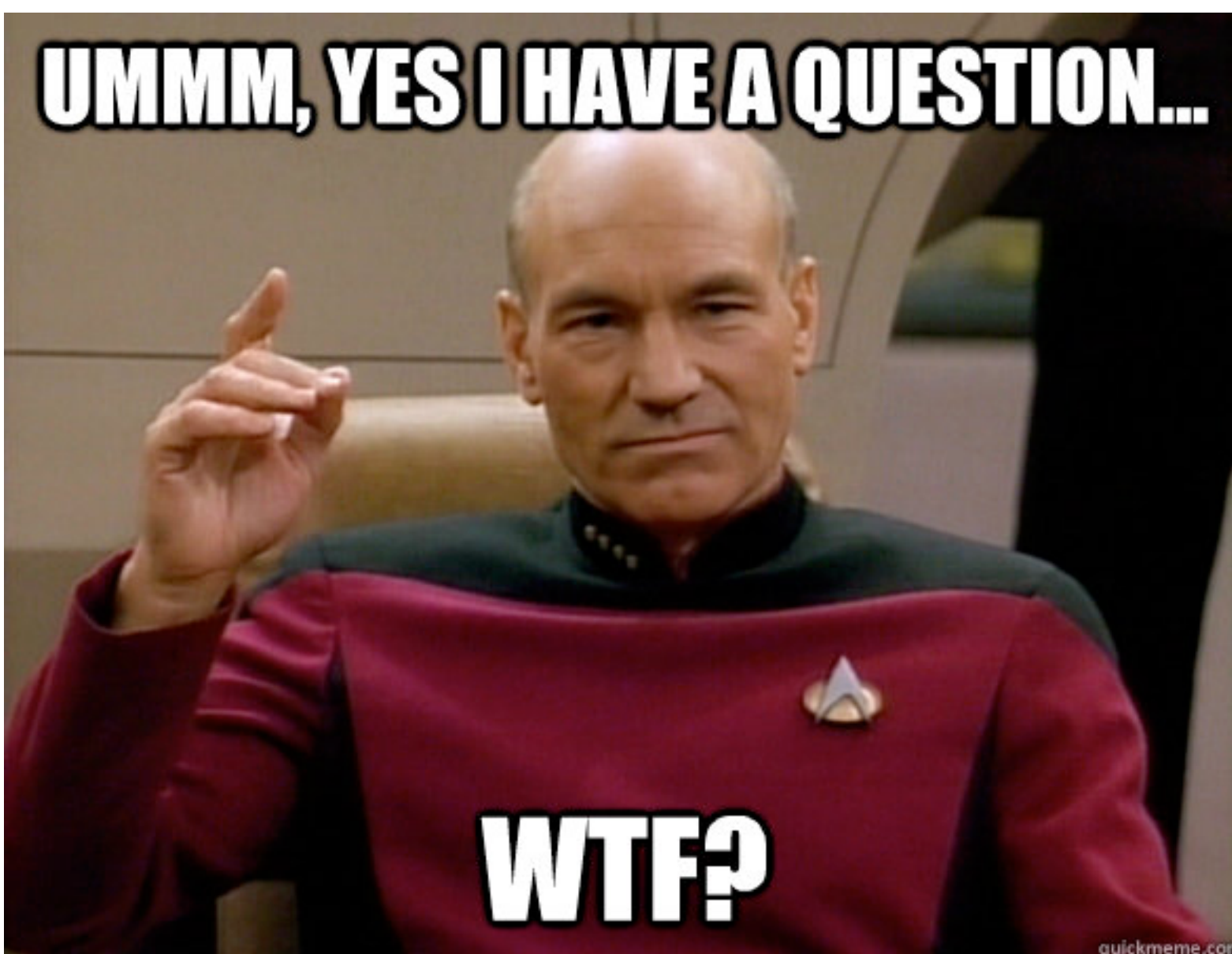
```
var foodBox = document.getElementById("food");
```

```
function updateFoodBox(box) { // define a function
```

```
    box.style.border = "1px solid black";
```

```
}
```

```
updateFoodBox(foodBox); // run a function
```





Let's start with the basics

```
// Strings
```

```
"Hello, People"
```

```
"taco"
```

```
"OMG! Look at all the things I can do... 234523$%@$%"
```

```
"1-21-1982"
```

```
"702-555-1212"
```

```
"@hipsterhackers"
```

```
"no-reply@hipsterhackers.com"
```

```
"82yr old"
```

```
"98 degrees"
```

```
"You can't do that on television"
```



Let's start with the basics

```
// Numbers
```

```
1
```

```
-45
```

```
386745
```

```
0.01
```

```
3.1415926
```



Let's start with the basics

// Variables. A way to store a value for later use

```
var x = 1;
```

```
var person = "Jeremy";
```

```
var email = "something@something.co";
```

```
var birthday = "7-4-1775";
```

```
var ssn = "123-45-6789";
```

```
var phone = "(702) 123-1234";
```

← End the line with ;

Variable value

Assignment operator

Variable name

keyword to define a variable



Let's start with the basics

```
// Document object
// using the follow HTML <div id="box"></div>
    document references the webpage you're on

var box = document.getElementById("box");
box.style.backgroundColor = "red";
box.style.color = "white";
box.style.fontSize = "72px";
box.style.textAlign = "center";
```

document function



Let's start with the basics

```
// Other “built-in” JavaScript objects
document // reference the webpage
window   // reference the browser window
navigator // reference computer info
screen    // reference the monitor's screen size
console   // javascript console
history   // browser history
```



Let's start with the basics

```
// Functions. A name for a group of operations
function addNumbers(a, b) {
  return a + b;
}
function showMessage(something) {
  alert(something);
}
function findAllDivsWithClassCheese() {
  return document.querySelectorAll("div.cheese");
}
```



Let's start with the basics

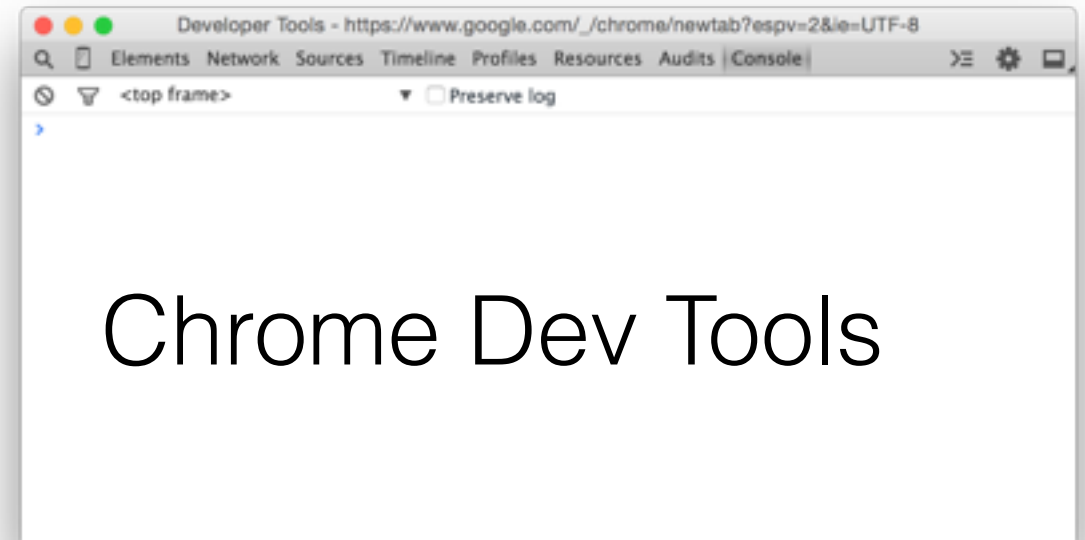
```
// “built-in” JavaScript functions  
window.alert(“hungry”);  
window.prompt(“Are you hungry?”);  
window.confirm(“You’re hungry?”);  
window.print();  
window.open(“http://google.com”);  
console.log(“print to the console”);  
document.getElementById(“wrap”);  
document.querySelectorAll(“ul > li.item”);  
document.write(“on the page now”);
```



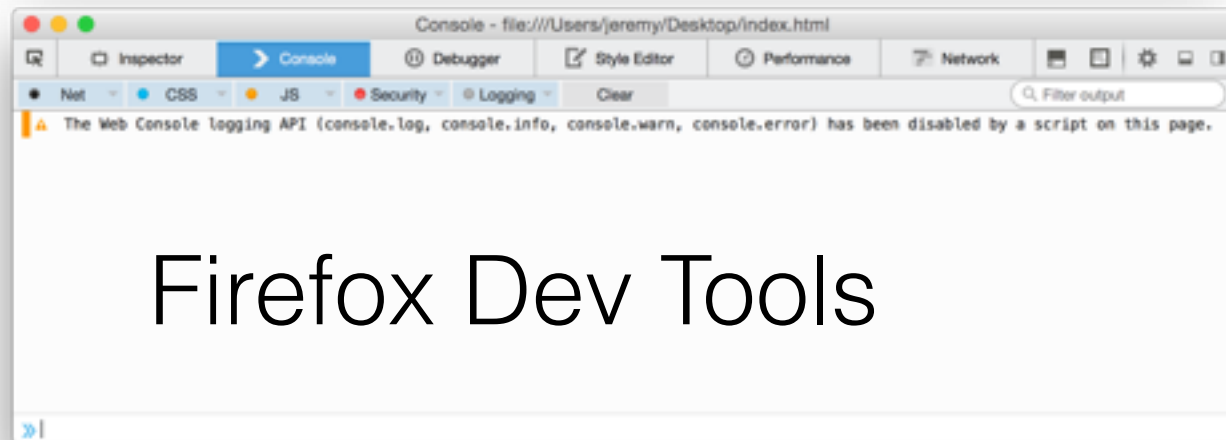
Dev Tools



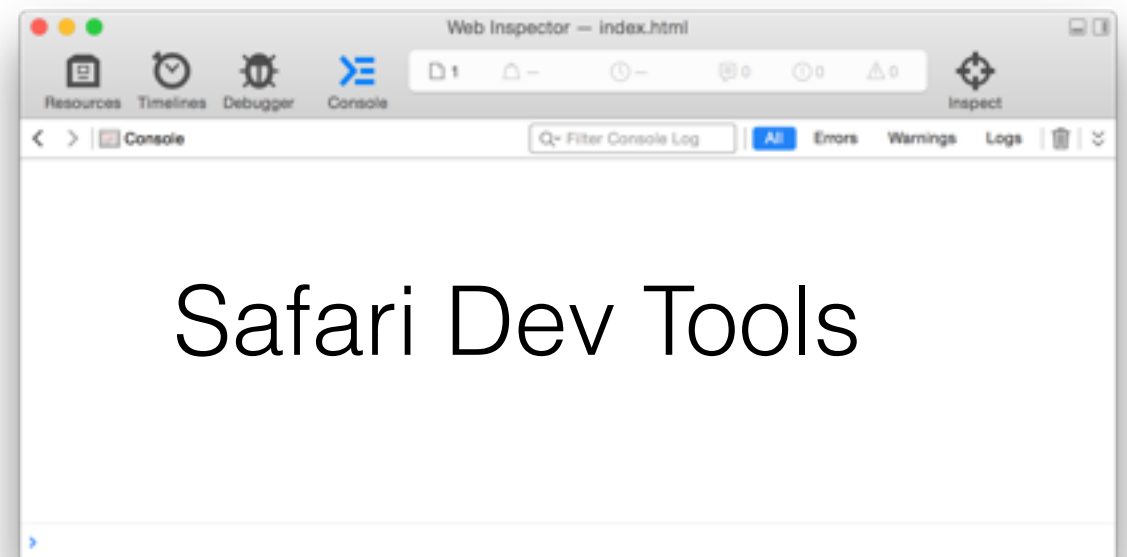
Firebug for Firefox



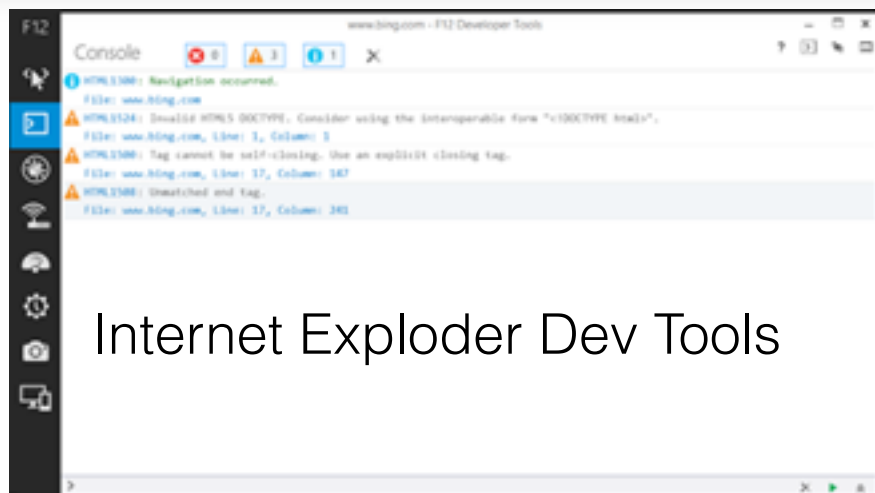
Chrome Dev Tools



Firefox Dev Tools



Safari Dev Tools



Internet Explorer Dev Tools



Dev Tools

- Debug JavaScript errors
- Inspect HTML
- Alter CSS on the fly
- Monitor webpage load speeds
- lots of other cool stuff



Questions?

! ? ?