

JavaScript

Shawn Wildermuth
Wilder Minds LLC
<http://wilder minds.com>



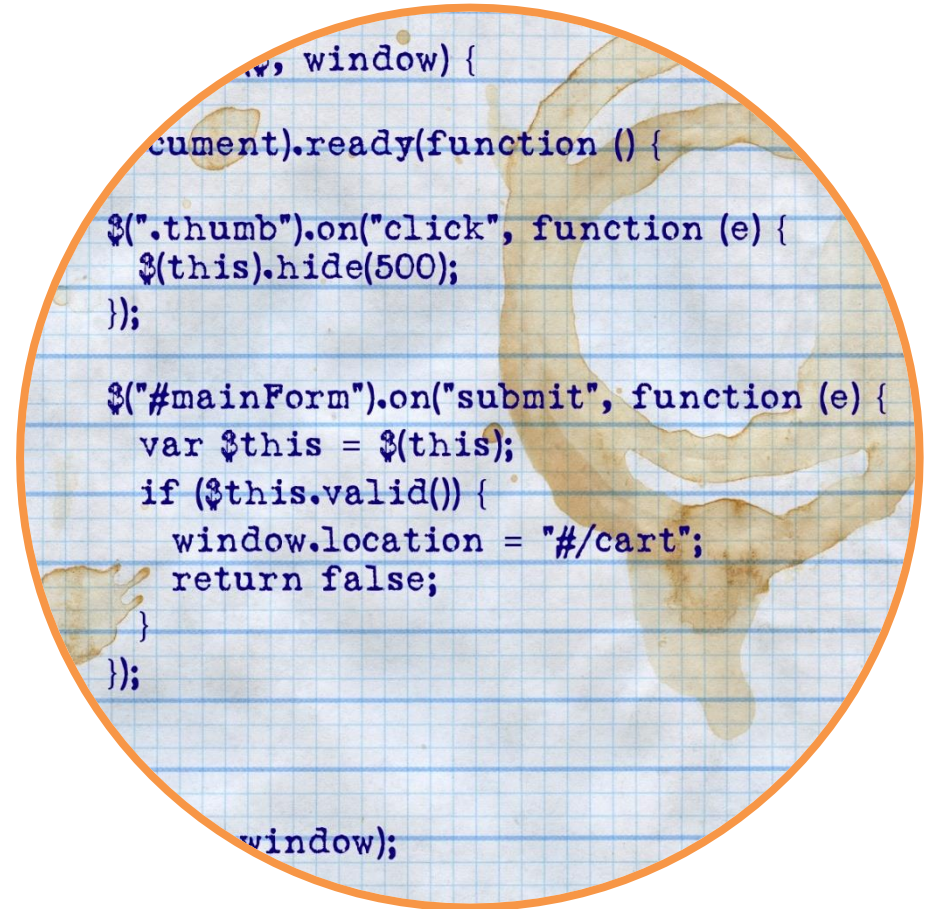
Agenda

- **JavaScript**

- What is JavaScript
- Including JavaScript
- Basics of JavaScript
- Variables and Types
- Conditionals
- Functions
- Scopes
- Closures
- Objects and Arrays
- Looping

WHAT IS JAVASCRIPT

An object-oriented, dynamic language that has become the lingua franca of websites, but isn't limited to use on web pages.





JAVASCRIPT HAS A BAD REPUTATION
BECAUSE OF IT'S HUMBLE
BEGINNINGS.

THE TRICK IS TO LEARN IT'S PATTERNS
INSTEAD OF TRYING TO SHOEHORN IT
INTO LANGUAGES YOU ALREADY
KNOW.

JAVASCRIPT

OBJECT ORIENTED

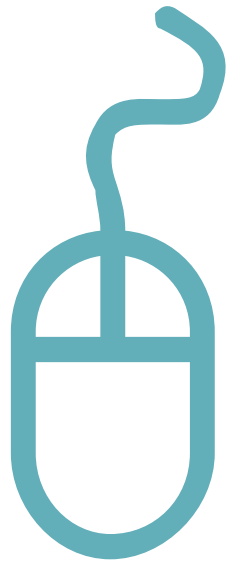
Prototypical inheritance instead of class-based

DYNAMIC

Often considered type-less, but instead is dynamically typed.
Can opt-into type-checking too.

COMPILED?

Considered an interpreted language, but in many cases the code is 'just-in-time' compiled like other high performing languages like C# and Java





demonstration

HELLO JAVASCRIPT



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INCLUDING JAVASCRIPT



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VARIABLES AND TYPES



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CONDITIONALS



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FUNCTIONS



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SCOPES

Closures

- **Allows access to outer variables within inner scopes**
 - Regardless of Lifetime

```
// JavaScript
var x = 1;

function someFunction() {
  // Works as it wraps 'x' with a closure
  var y = x;
}

// Much Later
someFunction();
```



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CLOSURES



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OBJECTS AND ARRAYS



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LOOPING

Summary

■ JavaScript

- You're not slumming it by writing JavaScript in the Browser. Treat it like a real language...it is.
- Using JavaScript on web pages is fairly straightforward using script tags.
- Like most languages, JavaScript includes variables, loops, and conditionals.
- Objects and Arrays in JavaScript are first-class citizens of the language and should be treated so.
- Functions are key to the language, so is understanding of scopes and closures.