Book/CodeSamples: <https://github.com/getify/You-Dont-Know-JS>

Derek Banas tutorial: <https://www.youtube.com/watch?v=fju9ii8YsGs>

MDN javascript: <https://developer.mozilla.org/en-US/docs/Web/JavaScript/A_re-introduction_to_JavaScript>

<https://app.pluralsight.com/player?course=javascript-programming-basics&author=kyle-simpson&name=javascript-programming-basics-m1&clip=6&mode=live>

Question What is javascript

To Do <https://developer.mozilla.org/en-US/docs/Glossary/JavaScript>

To Do JavaScript is a high-level, dynamic, weakly typed, object-based, multi-paradigm, and interpreted programming language.

To Do JavaScript is a programming language that allows you to implement complex things on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, or interactive maps, or animated 2D/3D graphics, or scrolling video jukeboxes, etc. — you can bet that JavaScript is probably involved.

To Do It has nothing to do with the Java programming language

very different syntax, semantics, and uses

To Do One of the three core technologies of the world wide web, alongside HTML and CSS

To Do It is primarily a client-side language.

To Do Examples: Excel, Word, apps on your phone

To Do Server side would be web applications like, Amazon, or web services

To Do Although a portion of websites always run clientside

Question Is Javascript an interpreted language?

To Do interpreted vs compiled

To Do Compiled is .exe and .dll

To Do in compiled before the application is ever

To Do interpreted is line by line

To Do bash, etc

To Do If javascript was truly interpreted it would run line 1 then line 2 and error

To Do but javascript is a little of both

To Do what does that mean?

To Do var a = 2+2;

To Do 2();

To Do It looks at line one, then line two. then would try to execute the program

To Do So line 1 would never run

To Do It makes sure each line matches all the rules

To Do Like reading a paper looking for periods at the end of every sentence before reading the page for context

To Do Each javascript engine can choose how to operate on javascript, to compile first like Chromes V8

To Do  Evaluations

To Do expression vs statement

To Do a = b \* 2; is an assignment statement

To Do It is made up of multiple expressions

To Do (b)

To Do (2)

To Do ((b) \* (2))

To Do (a = ((b) \* (2)));

To Do b \* 2 is an arithmetic expression

a = [ [b \* 2] + [foo(c \* 3)] ]

statement is the whole thing

a= is the assignment

To Do a = b \* 2 + foo(c \* 3)

To Do what order does this get done in?

To Do left to right, except..

To Do multiplication is "more precident"

To Do multiplication before addition

To Do should probably add the parenthesis for readability, a = (b \* 2) + foo(c + 3); otherwise you depend on developers understanding all the rules of operator precidence

To Do What about a = b + 2 \* foo(c \* 3);

Question how do we override this precedent? or modify this order?

To Do consider this example: 2 \* 3 + 4

Question We have 2 options for the result of this statement...

10 or 14

which is correct?

To Do jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

To Do Lets get started by creating a page that will run some javascript.

To Do Create a html file that runs javascript

To Do Create an alert

To Do Add a button

To Do Call a javascript function from the button

To Do Alert or console.log from the function

To Do JS in same file

To Do External js file

To Do Document.getelementbyid example

To Do Assignment calculator.html

<https://coderwall.com/p/5tlhmw/converting-strings-to-number-in-javascript-pitfalls>