JavaScript I



TODAY'S SLIDES: http://bit.ly/DPLjs1

Comments

One line of comments

//Here is a single line of comments

Multiple lines of comments

/*If I want to leave multiple lines of comments

I surround them with an asterisk and forward slash*/

Variables

To declare a variable:

var x:

To initialize a variable:

x = 'I'm a variable';

To initialize and declare simultaneously:

var x = 'I'm a variable';

Naming Variables

- begin with letters, , or \$
- names are case-sensitive
- standard to use camelCase (aLongName vs. a_long_name)
 - can't use reserved words
 - choose for clarity and meaning
 - pick convention and stick with it

Data Types

The five "primitive" data types:

- Strings: a bunch of text.
- Numbers: can be whole or floating point
- Boolean: true or false
- **Undefined**: when a variable has been declared but hasn't been assigned a value
- Null: empty, but not unassigned

To find the data type of a variable

typeof varName

Expressions

An expression is any bit of code that evaluates to a single value. This lets you do math, combine text strings, and a lot more.

+	Addition	2 + 2 = 4
-	Subtraction	2 - 2 = 4
*	Multiplication	2 * 2 = 4
/	Division	2 / 2 = 1
%	Modulus (the remainder)	5 % 2 = 1
++	Increment (+1)	++2 = 3
	Decrement (-1)	2 = 1

Functions: reusable collections of statements

To declare a function:

Scope

- variables in JS are only visible inside the function they're declared in they have "local scope"
- variables declared outside any function have "global scope" they're visible to the rest of the script.

WHERE TO GET MORE HELP:

The CTC: come to the desk and ask for help, schedule a 1-on-1 tutoring lesson, come to more classes, or attend one of our open labs to answer your questions.

Mozilla Developer Network: exhaustive documentation on all things JavaScript, HTML, CSS, and more. developer.mozilla.org/en-US/docs/Web/JavaScript

Codecademy: free, online, and gamified courses in Javascript, HTML/CSS, PHP, Python, and Ruby. www.codecademy.com

Eloquent JavaScript: a great book on the basics of programming, using JavaScript, and the digital version is free: eloquentjavascript.net

Code Combat: learn to code in JavaScript by playing a game! codecombat.com

