





History		
	viated as JS, is a high-level, dy ased, and interpreted progran	
	SS, JavaScript is one of the th Vide Web content production	
It is used to make webp programs, including vic	pages interactive and provide deo games	online
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History Although there are strong outward similarities between JavaScript and Java, including language name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design Although it was developed under the name Mocha, the language was officially called LiveScript when it first shipped in beta releases of Netscape Navigator 2.0 in September 1995

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History It was renamed JavaScript when it was deployed in the Netscape Navigator 2.0 beta 3 in December The final choice of name caused confusion, giving the impression that the language was a spin-off of the Java programming language The choice has been characterized as a marketing ploy by Netscape to give JavaScript the cachet of what was then the hot new Web programming language

History - 1994: Mosaic Netscape o.g released - By 1995, Netscape commanded % of the browser market / became the main browser of the 1990s - Subsequently renamed Netscape Navigator (Mosaic became Netscape Communications)

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History - Soon realized that the Web should be more dynamic - 1995: NSC recruited Brendan Eich / wrote first version prototype in 10 days (May) - Microsoft got into the game with Jscript and included support for CSS and various extensions to HTML East Tennessee State University Exercise of Committee Committee

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History Ecma International is an industry association founded in 1961 and dedicated to the standardization of information and Communication Technology (ICT) and Consumer Electronics (ICE). History. The aims of Ecma are: • To develop, in co-operation with the appropriate National, European and International organizations Standards and Technical Reports in order to facilitate and standardize the use of Information Communication Technology (ICT) and Consumer Electronics (ICE) • To encourage the correct use of Standards by influencing the environment in which they are applied • To publish these Standards and Technical Reports in electronic and printed form; the publications can be freely copied by all interested parties without restrictions

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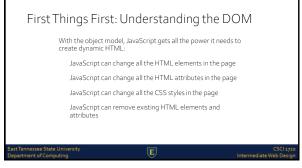
History - The standards process continued in cycles, with the release of ECMAScript 2 in June 1998 - The release of ECMAScript 3 followed in December 1999, which is the baseline for modern day JavaScript - At first, Microsoft seemed to participate and even implemented some of the proposals in their JScript .NET language - With all the haggling back and forth, the Open Source community became involved

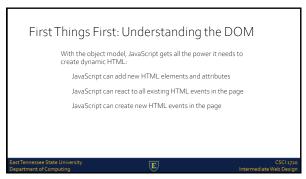
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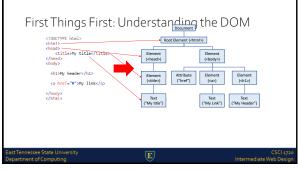
History - 2005: Open source libraries released supporting JavaScript (e.g., Prototype, jOuery, Dojo Toolkit, and others) - 2008 Oslo Meeting: agreement in early 2009 to standardize These are the high points...as you can imagine, a lot happened over 14 years, and beyond, to lead us to the JavaScript in use today East Tenessee State University CSCI 1970 Department of Computing

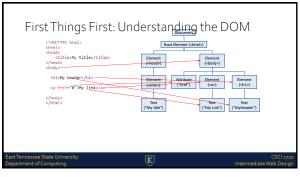








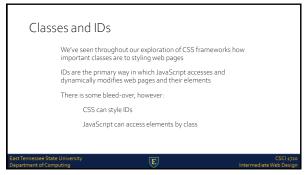


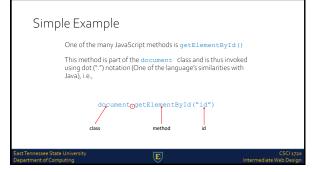


First Things First: Us clocype html> cheds cheds clocype title/file> cheds clocype dilaby title/file> cheds chedy cheds chedy dilaby header/his ca her[="g">My link*/a> c/hedy> c/hedy> chedy> cheds This is how the browser 'See By assigning ids to elements modify) them	Bonet (chimb) Beneat (chimb)	Bemert (653) Tot (7MyHeader*)
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First Things First: Un	Root Element (Abstral) Element	nt Dement (ch1) Test ("Mylesder")
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JavaScript - Including With HTML

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JS - Including With HTML

The <script> Element

In HTML, JavaScript code must be inserted between

<script> and </script> tags

dody>
dia2>JavaScript in Body</di>
document.getlementById("demo"), JanerHTML =

"Do not meddle in the affairs of Witards, for they are subtle and quick to anger."

"cyscript>
"chrothey are subtle and quick to anger.";

(script>

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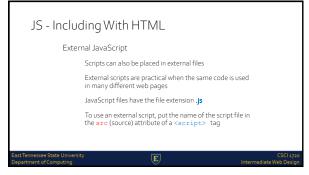
















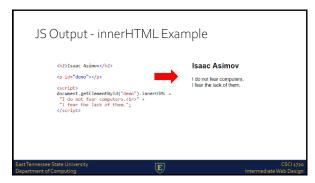












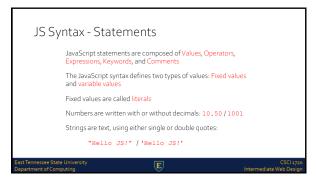




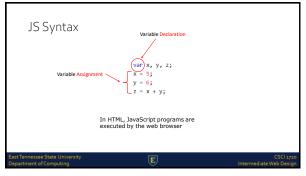


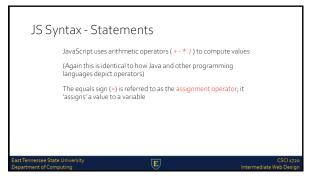


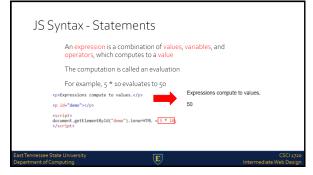




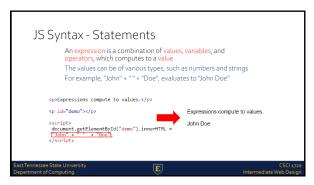










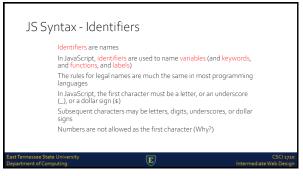


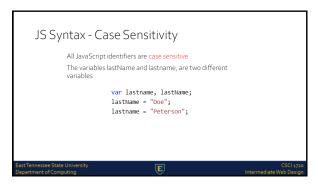
JS Syntax - Keywords	S	
JavaScript keywords are us performed The var keyword tells the l	,	
\[\forall \text{Var x, y;} \\ \times 5 + 6; \\ \text{y = x * 10;} \]	You can't use a keyword as a variable name	
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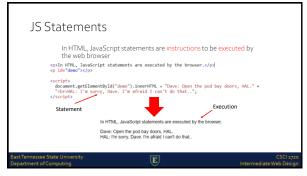












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JS Programs		
Most JavaScript progr	rams contain many Java	Script statements
The statements are ex they are written	kecuted, one by one, in t	he same order as
(Note: function calls)		
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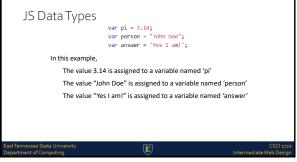
JS Variables			
JavaScript varial In this example,		iners for storing data values variables	
var	y = 6;	x stores the value 5 y stores the value 6 z stores the value 11	
Much like Algeb	ra		
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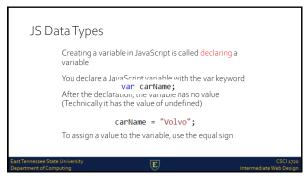
var price1 = 5; var price2 = 6; var total = price1 + price2; In programming, just like in algebra, we use variables (like price2) to hold values In programming, just like in algebra, we use variables in expressions (total = price1 + price2) From the example above, you can calculate the total to be 11 East Tennessee State University Department of Computing (CSC) 13720 Department of Computing Intermediate Web Design

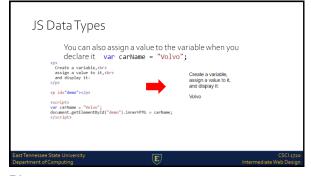


JS Assignment Operator
In JavaScript, the equal sign (=) is an "assignment" operator, not an "equal to" operator
This is different from algebra. The following does not make sense in algebra
X = X + 5
In JavaScript, however, it makes perfect sense: it assigns the value of $x + 5 \text{to} x$
(It calculates the value of $x+5$ and puts the result into x . The value of x is incremented by 5.)
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JS Data Types JavaScript variables can hold numbers like 100 and text values like "John Doe" In programming, text values are called text strings JavaScript can handle many types of data, but for now, just think of numbers and strings Strings are written inside double or single quotes. Numbers are written without quotes If you put a number in quotes, it will be treated as a text string









JS Data Types		
In computer p without a valu	rograms, variables are often e	n declared
	be something that has to b that will be provided later, li	
A variable dec undefined	lared without a value will ha	ave the value
If you re-decla value	are a JavaScript variable, it v	vill not lose its
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