Cheat Sheet: Introduction to Web Development with HTML, CSS, JavaScript

Estimated reading time: 20 minutes

HTML			
Element	Description	Example	
	This tag denotes a comment in HTML, which is not displayed by a browser but can be useful to hide and document code.	This is a comment	
html	All HTML documents must start with this declaration. It tells the browser what document type to expect. Note that this element has no ending tag.	html <html> <head> <!-- Metadata Here--> </head> <body> <!-- Document Body Here--> </body> </html>	
link name	This tag, called an "anchor tag" creates hyperlinks using the href attribute. In place of path enter the URL or path name to the page you want to link to.	IBM</a 	
<body></body>	Contains the contents of the HTML document. It should contain all other tags besides the <head> element to display the body of the document.</head>	html <html> <head> <!-- Metadata Here--> </head> <body> <!-- Document Body Here--> </body> </html>	
<div></div>	Often used to separate sections in the body of a document in order to style that content with CSS.	<div> This element has no particular semantic meaning but is often used in conjunction wit </div>	
<h1></h1>	Adds a level 1 heading to the HTML document.	<h1>Thomas J. Watson</h1>	
<head></head>	Contains metadata and should be placed after the <a <br="" href="https://www.ncbe.ncbe.ncbe.ncbe.ncbe.ncbe.ncbe.ncbe</td><td><!DOCTYPE html> <html> <head> <! Metadata Here> </head> <body> <! Document Body Here> </body> </html></td></tr><tr><td><html></td><td>The root element of an HTML document. All other tags in the document should be contained in this tag.</td><td><!DOCTYPE html> <html> <head> <! Metadata Here> </head> <body> <! Document Body Here> </body> </html></td></tr><tr><td>height="dim2">	This tag is used to place an img. In place of path insert a URL or a relative file path to the image location. Other optional attributes include width and height of the image in pixels.	<pre><img pre="" src="https://upload.wikimedia.org/wikipedia/commons/7/7e/Thomas_J_Watson_Sr.jpg" wid<=""/></pre>
i>	Element that creates bulleted line items in an ordered or unordered list. Should be used in conjunction with the or tags.	Sullet point 1	
k>	Used to link an external document, such as a CSS file, to an HTML document.	<pre><head> k rel="stylesheet" href="styles.css"> </head></pre>	
<meta/>	Used to provide metadata about the HTML document.	<pre><head> <meta content="Christopher Moore" name="author"/> </head></pre>	
<0 >	Element that creates an ordered list using numbers. Should be used in conjunction with the tag.	<pre> Numbered bullet point 1Numbered bullet point 2</pre>	
	This tag is used to identify a paragraph. It places a line break after the text it is enclosed in.	This is a paragraph of text. It can be as short or as long as needed.	
<script></td><td>Used to embed JavaScript in an HTML document.</td><td><script> alert("Hello World"); </script>			

about:blank 1/7

/25, 4:04 PM about:blank		
HTML		
	This tag is used to denote a table. Should be used with	
>	Denotes a cell within a row, within a table.	Cell Content
>	Denotes the header cells within a row within a table.	 Header cell 1
<title></td><td>Defines the title of the HTML document displayed in the browser's title bar and tabs. It is required in all HTML documents. It should be contained in the <head> tag.</td><td><!DOCTYPE html> <html> <head> <title>Document Title</title> <body> <!-- Document Body Here--> </body>		
	Denotes a row within a table.	Header cell 1 Header cell 2 First row first cell First row second cell First row second cell ftr> ftr> ftr> ftr> ftr> ftr> ftr ftr
	Element that creates an unordered list using bullets. Should be used in conjunction with thetag.	<pre> >Bullet point 1Sullet point 2 </pre>
CSS		
Element	Description	Example
OCTYPE html>	All HTML documents must start with this declaration. It tells the browser what document type to expect. Note that this element has no ending tag.	html <html> <head> <title>Document Title</title> </head> <body> Document body here </body> </html>
	This tag, called an "anchor tag" creates hyperlinks using the href attribute. In place of path enter the URL or path name to the page you want to link to.	IBM</a
	Identifies a self-contained	

Element	Description	Example
OCTYPE html>	All HTML documents must start with this declaration. It tells the browser what document type to expect. Note that this element has no ending tag.	html <html> <head> <title>Document Title</title> </head> <body> Document body here </body> </html>
	This tag, called an "anchor tag" creates hyperlinks using the href attribute. In place of path enter the URL or path name to the page you want to link to.	IBM</a
<article></article>	Identifies a self-contained piece of content that could be distributed to other websites and platforms as a stand- alone unit. Similar to <div> tag in that it does not render as anything special in the browser unless it is styled with CSS.</div>	<pre><article class="CSS-Style-Reference"> <h2>HTML</h2> HTML stands for Hypertext Markup Language. It is a standardized system for tagging text files to display specific font, color, graphics, and hyperlinks on World Wide Web pages. </article></pre>
<aside></aside>	Defines some content aside from the content it is placed in. Similar to <div> tag in that it does not render as anything special in the browser unless it is styled with CSS.</div>	<pre><aside> Use the aside tag to represent a section of a page that consists of content tangentially related to the content. </aside></pre>
<body></body>	Contains the contents of the HTML document. It should contain all other tags besides the <head> element</head>	html <html> <head> <title>Document Title</title> </head> <body></body></html>

2/7 about:blank

HTML		
	to display the body of the document.	Document body here
<div></div>	Often used to separate sections in the body of a document in order to style that content with CSS.	<div> This element has no particular semantic meaning but is often used in conjunction wit </div>
<fieldset></fieldset>	Groups related elements in a form and puts a box around them.	<pre><form action="/script.php"> <fieldset> <legend>User:</legend> <label for="fname">First name:</label> <input id="fname" name="fname" type="text"/> <label for="lname">Last name:</label> <input id="lname" name="lname" type="text"/> <input id="lname" name="lname" type="text"/> <input type="submit" value="Submit"/> </fieldset> </form></pre>
<figcaption></figcaption>	Used in conjunction with the <figure> tag to mark up an image.</figure>	<figure> <figcaption>Fig.1 - Durham, NC</figcaption> </figure>
<figure></figure>	Used to mark up an image in conjunction with the <figcaption> tag.</figcaption>	<figure> <figcaption>Fig.1 - Durham, NC</figcaption> </figure>
<footer></footer>	Contains a footer of a document and often contains information such as authoring, copyright info, contact info, sitemap, and related documents.	<footer> Author: Christopher Moore </footer> <form action="/script.php"></form>
<form></form>	Creates an HTML form for user input.	<pre><form action="/script.php"> <fieldset> <legend>User:</legend> <label for="fname">First name:</label> <input id="fname" name="fname" type="text"/> <</fieldset></form></pre>
<h1></h1>	Adds a level 1 heading to the HTML document.	<h1>Thomas J. Watson</h1>
<head></head>	Contains metadata and should be placed after the httml tag and before the <body> tag.</body>	html <html> <head> <title>Document Title</title> </head> <body> Document body here </body> </html>
<header></header>	A container for introductory content such as heading elements, logo, or authoring information.	<pre><header> <h1>Header tag example</h1> It works as a container for introductory content such as heading elements, logo, Author: Christopher Moore </header></pre>
<html></html>	The root element of an HTML document. All other tags in the document should be contained in this tag.	html <html> <head> <title>Document Title</title> </head> <body> Document body here </body> </html>
<img <br="" src="path" width="dim1"/> height="dim2">	This tag is used to place an img. In place of path insert a URL or a relative file path to the image location. Other optional attributes include width and height of the image in pixels.	<pre></pre>
<input type="?"/>	Specifies an input field on a form with the type attribute. Common input types include: "color," "date," "datetime-local," "email," "number," "range," "search," "url," "tel," "datalist," "select," "text," "option," and "placeholder."	<pre><form action="/script.php"> <fieldset> <legend>User:</legend> <label for="fname">First name:</label> <input id="fname" name="fname" type="text"/> >br> <label for="lname">Last name:</label> <input id="lname" name="lname" type="text"/>\subsection \subsection input type="text" id="lname" name="lname">\subsection \subsection input type="submit" value="Submit"> </fieldset> </form></pre>
 	Element that creates bulleted line items in an ordered or unordered list. Should be used in conjunction with the tags. 	 Bullet point 1 <l> <l> <l> <l> <l> <l> <l> <l> <l> <l> <l> <l> <l> <l><ul< td=""></ul<></l></l></l></l></l></l></l></l></l></l></l></l></l></l>

about:blank 3/7

HTML		
HIME		
k>	Used to link a CSS document to an HTML document.	<head> k rel="stylesheet" href="styles.css"> </head>
<meta/>	Used to provide metadata about the HTML document.	<pre><head> <meta content="Christopher Moore" name="author"/> </head></pre>
<nav></nav>	Used to define a set of navigational elements.	<pre><nav> Home Page 1 Page 2 </nav></pre>
	Element that creates an ordered list using numbers. Should be used in conjunction with the < i>tag.	<pre> Numbered bullet point 1 Numbered bullet point 2 </pre>
	This tag is used to identify a paragraph. It places a line break after the text it is enclosed in.	Thomas J. Watson, Sr. is the American industrialist, who built the International Business Machines Corporation (IBM) into the largest manufacturer of electric typewriters and data processing equipment in the world.
<script></td><td>Used to embed Javascript in an HTML document.</td><td><script> alert("Hello World"); </script>		
<section></section>	Defines an important section of a document. Can be used within headers and footers as well.	<pre><section> <h2>Introduction</h2> This document provides some examples of how to use a variety of HTML elements </section></pre>
<style></td><td>Used to apply simple CSS to an HTML document.</td><td><pre><head> <style> p {color:red} </style> <body> This paragraph will be red because I've styled the paragraph tag with CSS. </body>		
	This tag is used to denote a table. Should be used with	Header cell 1 Header cell 2 Header cell 2 Cto First row first cell First row second cell Ctr> Ctr> <th< td=""></th<>
<	Denotes a cell within a row, within a table.	
>	Denotes the header cells within a row within a table.	Header cell 1 Header cell 2 Header cell 2 In a color of the color of the cell of the
<title></td><td>Defines the title of the HTML document displayed in the browser's title bar and tabs. It is required in all HTML documents. It should be contained in the <head> tag.</td><td><!DOCTYPE html> <html> <head> <title>Document Title</title> <body> Document body here </body>		
	Denotes a row within a table.	Header cell 1 Header cell 2 Header cell 2 <tt> First row first cell First row second cell First row second cell Compared to the compared to the cell of the cel</tt>

1/25, 4.04 PW		about.blank
HTML		
	Element that creates an unordered list using bullets. Should be used in conjunction with the < i>tag.	<pre> >Bullet point 1 >Bullet point 2 </pre>
JAVASCRIPT		
Element	Description	Example
Child()	An HTML DOM method that after creating an element, you can use this function to place the element in the appropriate location within the document. The element to append is the only parameter.	<pre>//Creates the element and text "Hello World". Appends Hello World to the HT </pre> <pre></pre>
Аптауs	Created by declaring the array elements in []. An array can be assigned to a variable, usually using the keyword const or var. Arrays use zero based indexing to access their elements.	<pre>const Beatles = ["Ringo", "Paul", "George", "John"]; //Here Beatles[0] is "Ringo".</pre>
Date()	Constructor is new Date([optional parameters]). If the constructor is declared with no parameters, it returns current local date and time. New dates can be created by passing parameters to new Date function.	<pre>//create a new date from a string var newDate = new Date("2021-1-17 13:15:30"); //create a new date instance representing 17 Jan 2021 00:00:00 //note that the month number is zero-based var newDate = new Date(2021, 0, 17);</pre>
document.createElement()	Takes one tag name parameter and creates an element with that name. Can place the element elsewhere on the page using functions like insertBefore(), appendChild(), replaceChild().	<pre>//Creates the element and text "Hello World". Appends Hello World to the HT</pre>
document.createTextNode()	Takes a string as input text and returns a text node with the input text.	<pre>//Creates the element and text "Hello World". Appends Hello World to the HT</pre>
document.getElementByID()	A method of the DOM that takes an ID value parameter and returns an element that matches the id.	<pre>//Changes the content of the div to "Hello World!"</pre>
document.getElementsByTagName()	A method of the DOM that takes a tag name parameter and returns an array called "NodeList" that contains elements with the specified tag name.	<pre>//Gets an array of all elements in a document with the tag. var tagNameArray = document.getElementsByTagName("p");</pre>
document.write()	Writes HTML or JavaScript to a document. Note that it overwrites any other text in the document so is mostly used for testing purposes only.	//Writes "Hello World" to the output stream. document.write("Hello World");
element.getAttribute()	Returns the value of the specified attribute. Takes one parameter: the attribute name whose value is to be returned.	<pre>//Removes the CSS style color blue <div id="div1" style="color: blue"></div> <script> var div1 = document.getelementById("div1").getAttribute("style"); </script></pre>

about:blank 5/7

HTML		
		//Changes the content of the div to "Hello
element.innerHTML()	A property of the Element class that returns or alters contents of an HTML element as a text string.	<pre>World!" <div id="div1"> Hello Hello </div> <script> document.getElementById("div1").innerHTML = "Hello World!"; </script></pre>
element.removeAttribute()	A property of the Element class that removes all previously set inline CSS styles for a particular element. Takes one parameter: the attribute name that is being removed.	<pre>//Removes the CSS style color blue <div id="div1" style="color: blue"></div> <script> var div1 = document.getelementById("div1").getAttribute("style"); </script></pre>
element.setAttribute()	A property of the Element class that overwrites all previously set inline CSS styles for a particular element. Takes two parameters: the attribute name that is being set and the attribute value the attribute is set to.	<pre>//In all elements named "theImage" sets the name of all src attributes to "another. document.getElementById("theImage").setAttribute("src", "another.gif");</pre>
element.style()	A property of the Element class that returns or alters inline CSS. Syntax is element.style.propertyName = value	<pre>//Changes the CSS style color from blue to red <div id="div1" style="color: blue"></div> <script> var div1 = document.getelementById("div1"); div1.style.color = "red"; </script></pre>
Error Objects	Instance creates two properties about the error: message that contains description of the error and the name property identifies the type of error. Generic error plus 6 other core errors: TypeError, RangeError, URIError, EvalError, ReferenceError, SyntaxError. Error object can be extended to create custom error messages using the throw keyword.	<pre>//Catch statement defines a block of code to be executed if an error occurs in the catch (err) { document.getElementById("myfile").innerHTML = err.name; } //Creates custom error message throw new Error("Only values 1-10 are permitted");</pre>
History Objects	The history object is part of the window object and contains the URLs visited by the user within a browser window. It exposes useful methods and properties that let you navigate back and forth through the user's history and manipulate the contents of the history stack.	<pre>//Go back two pages if the history exists in the history list. history.go(-2);</pre>
insertBefore()	An HTML DOM method that, after creating an element, places a child element in the appropriate location before an existing child. The method takes two parameters, the node object to be inserted and the existing node to insert before.	<pre>//Creates a new element and places it in the elementList before the first chil let newLI = document.createElement("li"); newLI.innerText = "new Element"; let elementList = document.getElementById("thisList"); elementList.insertBefore(newLI, elementList.childNodes[0]);</pre>
Location Objects	The location object is part of the window object and contains information about the current URL.	<pre>//Returns the hostname property let myhost = location.hostname; newLI.innerText = "new Element";</pre>
Navigator Objects	The navigator object is part of the window object class in the DOM that represents the client Internet browser, also called the user agent. There is no standard for this object so what it returns differs from browser to browser.	<pre>//Retrieves the name of the browser var browsername = navigator.appName;</pre>
onload()	A DOM event that starts a method when a page is loaded.	<pre>//Executes myFunction after MyHTMLPage has been loaded document.getElementById("MyHTMLPage").onload = function () {myFunction};</pre>
replaceChild()	After creating an element, this function replaces a child node with a new node.	<pre>//Creates a new node and replaces the second element in "thisList" with the word "b let secondBullet = document.createTextNode("blue"); var myList = document.getElementById("thisList").childNodes[1]; myList.replaceChild(secondBullet, myList.childNodes[1]);</pre>

about:blank 6/7

21/25, 4:04 PM	25, 4:04 PM about:blank		
HTML			
Screen Objects	The screen object is part of the window object class in the DOM that can be used to return properties about the user's screen.	<pre>//Returns the height and width of the user's screen var height=screen.height; var width=screen.width;</pre>	
Window Objects	The DOM window object is at the top of the DOM hierarchy and serves as the global object. Everything in the DOM takes place in a window. The window object controls the environment that contains the document.	//Opens a new browser window with the specified URL window.open("http://www.w3schools.com");	
window.open()	Opens a new window. The first parameter is a path, a URL, or an empty string, and optional parameters include the window name, features such as the placement of the window or the dimensions, and a Boolean replace value. The feature parameter is a comma separated string of name-value pairs and the replace parameter is an optional Boolean. This parameter has been deprecated so modern browsers may not support it. This method returns a reference to the new window object.	//Opens a new window that opens the IBM home page and has a width of 600 and a heigh let thisWindow = window.open("http://www.ibm.com", "myWindow", "width"=600, "height"=800);	
window.scrollTo()	Scrolls to a particular place in a window. Parameters include the x-coordinate which is the left-most pixel and the y-coordinate which is the upper-most pixel.	//Scrolls the window to the pixel located at the coordinate (20, 200) window.scrollTo(20, 200);	
Wrapper Objects	Primitive types can be converted to objects using wrapper objects. They are the same name as the primitive except they start with uppercase letter. The typeof keyword returns a string indicating the data type of the operand.	<pre>//Enables the use of properties and methods of the String class such as the property let n = new String ("abc"); //Returns string typeof "abc"; //Returns object typeof new String("abc");</pre>	



about:blank 7/7