# Web Basics-JavaScript

Lesson 6: Working With Document Object

### **Lesson Objectives**

- To understand the following topics:
  - Document Object and its properties and methods
  - Cookies object





# Working With Document Object

- Container for all HTML HEAD and BODY objects associated within tags
- Provides access to page elements from your script
  - This includes form, link, anchor, as well as global Document properties such as background and foreground colors



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Document object is part of the Window object. It is used to access all elements in a page. It provides access to the elements in an HTML page from within the script. This includes the properties of every form, link and anchor (and, where applicable, any sub-elements), as well as global document properties such as background and foreground colors.

# Occument Object Properties

- alinkColor, vlinkColor, bgColor, fgColor, linkColor
- anchors[]
- applets[]
- •forms[]
- links[]
- title



Property	Description
alinkColor vlinkColor bgColor fgColor linkColor	Get and set the properties of document – activated link, visited link, background color, foreground color (text) and hyperlink color.
anchors[], forms[], links[]	These properties retrieve array of values respectively as present in the document object
title	Gets the title of the document which occurs between the TITLE tags.

# Occument Object Methods

- write(), writeln()
- getElementsByTagName()
- getElementById()
- getElementsByName()
- getElementsByClassName()



Property	Description
write("string1", ) writeIn("string1" ,)	Both of these methods send text to a document for display in its window. The only difference between the two methods is that <i>document.writeln()</i> appends a carriage return to the end of the string it sends to the document (you must still write a to insert a line break).
getElementByl d("#para1")	This method locates the element whose id has been passed. The text within this element can then be accessed using properties innerHTML or innerText
getElementsBy TagName("p")	This method locates all the elements which match the tagname passed. Each element of this type of tag can then be accessed in an array like manner
getElementsBy Name()	This method locates all the elements which match the name passed. Same name to many elements is usually given for radio buttons.
getElementsBy Class()	This method locates all the elements which match the class name passed.

# Link\_Anchor\_object.html Meta\_information.html locate\_element\_by\_id.html locate\_elements\_by\_tagname.html locate\_elements\_by\_name.html locate\_element\_by\_class\_name.html

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# 6.2: Working with Cookies Working with Cookies

- Text files that Web sites place in your computer to help your browsers remember specific information
- Used to store user preferences for content or personalized pages
- Following function sets cookie values (expiration date is optional):

```
function setCookie(name, value, expire) {
document.cookie = name + "=" + escape(value)
+((expire == null) ? "" : ("; expires=" + expire.toGMTString())) }
```



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### **Using Cookies**

Cookies are a mechanism for storing persistent data on the client in a file called cookies.txt. Because HyperText Transport Protocol (HTTP) is a stateless protocol, cookies provide a way to maintain information between client requests. This section discusses basic uses of cookies and illustrates with a simple example.

Each cookie is a small item of information with an optional expiration date and is added to the cookie file in the following format:

name=value;expires=expDate;

Name is the name of the datum being stored, and value is its value. If name and value contain any semicolon, comma, or blank (space) characters, you must use the escape and unescape functions to encode and decode them respectively.

expDate is the expiration date, in GMT date format:

Wdy, DD-Mon-YY HH:MM:SS GMT

Although it is slightly different from this format, the date string returned by the Date method toGMTString can be used to set cookie expiration dates.

The expiration date is an optional parameter indicating how long to maintain the cookie. If expDate is not specified, the cookie expires when the user exits the current browser session. Browser maintains and retrieves a cookie only if its expiration date has not yet passed.

### **Limitations**

Cookies have these limitations:

300 total cookies in the cookie file.

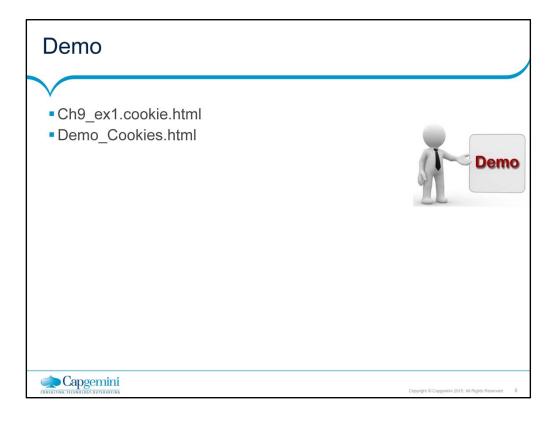
4 Kbytes per cookie, for the sum of both the cookie's name and value.

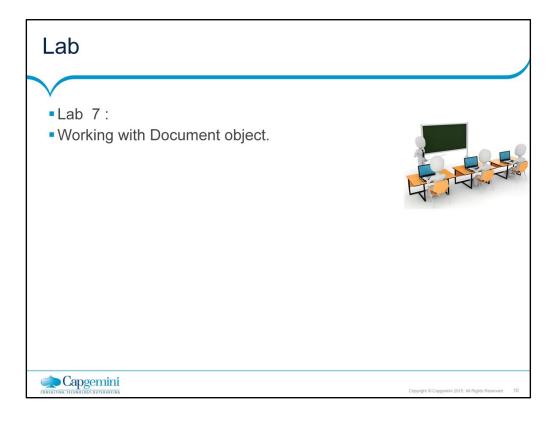
20 cookies per server or domain (completely specified hosts and domains are treated as separate entities and have a 20-cookie limitation for each, not combined).

Cookies can be associated with one or more directories. If your files are all in one directory, then you need not worry about this. If your files are in multiple directories, you may need to use an additional path parameter for each cookie. Using Cookies with JavaScript

The *document.cookie* property is a string that contains all names and values of Navigator cookies. Use this property to work with cookies in JavaScript.

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### Summary

- JavaScript Document Object contains HTML elements contained in the <head> and <body> sections of a web page
- All the anchors are contained in anchor array.
- All the links are contained in link array
- Cookies are small text files stored on the site visitor's computer by their browser





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Summary
In this chapter, you understood:
DOM structure
How to work with Document Object
How to work with cookies

### **Review Questions**

- Question 1: The \_\_\_\_\_ is the container for all HTML HEAD and BODY objects.
  - Option 1: Document
  - Option 2: Object
  - Option 3: Container

