

Outline
 Designing a Lightbox Web Application
 Browser Object Model
 Window Objects
 History, Location, & Navigator Object
 Frames within Windows
@Decferrer Tree DeDecer

Document Object Model

Chapter 5: Creating a Web App Using Document Object Model BOM: Browser Object Model

Learning Objectives

- 1. Understand the principles of building a web app.
- 2. Create nodes and append them to a web document.
- 3. Add, delete, copy, & move Web document element nodes.
- 4. Implement set intervals for repeating a timed command block
- 5. Create system dialog boxes that receive user input.
- 6. Open and configure a browser popup window.
- 7. Create an overlay that lies on top of a web document.
- 8. Work with the objects within the Browser Object Model.

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Web Application Background

Lightbox

- Modeless Dialog Panel Image Viewer
- Sample Web Appication for Chapter 5

Web Application Components

- Strict Separation of:
- HTML + CSS + JavaScript + Data
- HTML Markup/ Container for App "Known Structure"
- CSS is Presentation/Appearance "CSS Applied to Structure"
- JavaScript Action Behavior (Operation) code-manages
- Data (Integrated in Web Page, SQL Data, Flat Data)

Various Systems (Multi-tier Server) and/or People Maintain Components

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Figure 5-1 Light Box H11 Example

- 1. Page 164 Get, Copy, rename _txt Files
- Goto your data folders/chapter05/chapter/js05 adn copy folder to your site root
- Open js05_txt.html adn js05_txt.js and save as js05.html adn js05.js
- In header, add links to local files lightbox.css, lightbox_data.js and js05.js, both JavaScript files are defer - we have been putting local js at end
- 5. Make sure all variables have been defined. Replace imageCount with imgFiles.length
- 6. Insert <div id="lightbox" ></div> before </article>
- 7. Analyze code, and Save

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// Title of the slideshow let lightboxTitle = "My Western Vacation"; // Names of the image files shown in the slideshow let imgFiles = ["photo01.jpg", "photo02.jpg", "photo03.jpg", "photo04.jpg", "photo05.jpg", "photo06.jpg", "photo07.jpg", "photo08.jpg", "photo09.jpg", "photo10.jpg", "photo11.jpg", "photo12.jpg"]

// Captions associated with each image let imgCaptions = new Array(12); imgCaptions[0]="Sky Pond (Rocky Mountain National Park)"; imgCaptions[1]="Buffalo on the Plains (South Dakota)"; imgCaptions[2]="Garden of the Gods (Colorado Springs)"; imgCaptions[3]="Elephant Head Wild Flower (Rocky Mountain National Park)"; imgCaptions[4]="Double Rainbow (Colorado National Monument)"; imgCaptions[5]="Moose in the Wild (Grand Lake, Colorado)"; imgCaptions[6]="Camas Wild Flower (Rocky Mountain National Park)"; imgCaptions[7]="Chasm Lake (Rocky Mountain National Park)"; imgCaptions[8]="Teton Crest Trail (Grand Teton National Park)"; imgCaptions[8]="The Notch Trail (Badlands National Park)"; imgCaptions[19]="The Notch Trail (Rocky Mountain National Park)"; imgCaptions[10]="Sprague Lake (Rocky Mountain National Park)"; imgCaptions[11]="Longs Peak Trail (Rocky Mountain National Park)"; imgCaptions[11]="Longs in the slideshow let imgCount = imgFiles.length;

DOM Document – Node Tree <html lang="en"> <head> <title>Slideshow</title> </head> html <body> <h1>Slide Images</h1> Views from my vacation head body </body> </html> title h1 p "Slideshow" "Views from my" "Slide Images "vacation" H1 Element node w Sibling "Slide Images" text Node end text nodes are siblings IDE Linearized DOM Tree CIMW 160 - JavaScript - Chapter 6 Professor Tom DeDonno







JavaScript Properties	Description – element, text or comment
node.firstChild	The first child of node
node.lastChild	The last child of node
node.childNodes	A node list of all direct children of node
node.previousSibling	sibling before <i>node</i> on the same level in the node tree
node.nextSibling	sibling after <i>node</i> on the same level in the node tree
node.ownerDocument	The root node of the document
<i>node</i> .parentNode	The parent of node
These properties – Which can be HT	pick next node ML Element tag w Text or just Text



- pHC = document.getElementsByTagName("p");
 - Returns an HTMLCollection -
 - pHC[0] is a node
- p = document.querySelector("p");
 Returns node; p === pHC[0]
- Inspect Open node, or pause IDE will list properties/methods
- p.parentNode "parent" <article>
- p.parentNode.parentNode "GP" body
- p.nextSibling is text node
- p.nextElementSibling returns element



Navigation Element (Tag w Text)		
Expression	Description	
<i>n</i> .Children	A node list of all elements which are direct children of node	
n.firstElementChild	The first element within node	
n.lastElementChild	The last element within node	
n.previousElementSibling	The sibling element immediately prior to node in the node tree	
n.nextElementSibling	The sibling element immediately following <i>node</i> in the node tree	
<i>n</i> .parentElement	The parent element of node	
p.nextSibling is text node p.nextElementSibling returns element 		

Selecting Nodes

- Use Sizzle w jQuery or querySelector
- document.querySelector(sizzle);
- Returns first matching element node
- document.querySelectorAll("p.review");
 - Return nodelist of p tags of class review
- document.getElementsByTagName(
- "p").getElementsByClassName("review");
- Returns an HTML Collection
- HTML Collections contain only HTML element (tag+attr+text)
- NodeList can be element, tag, attribute or text

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dd Attributes to Element Node

 Add id="main" and class "lightbox" mainHeading.id = "main"; mainHeading. className = "lightbox";

- We now have at bottom
 <h1 id="main" className="lightbox">
 My Slideshow<h1>
- /* To move it to the top */
 b= document.getElementsByTagName("body")[0];
 b.insertBefore(mainHeading, b.firstElementChild);

Setting CSS Styles on Node

- HTMLElement.styles = "CSS Styles";
- element.styles.csspropertyname = "property value";
- <h1 id="main"> My SlideShow</h1>

mainHeading.style="font-size:1.5em;color:blue";

```
• Or create new element pointer
```

Let mainH1 = document.getElementById("main");

mainH1.style.fontSize = "1.5em";

mainH1.style.color = "blue";

Actual CSS property name is font-size,

```
    but dash is minus operator, so use camel casing
```









H11 Steps 12-15









appendChild to Move

/* move 1st element t end of image */ e["lbImages"].appendChild(e["lbImages].firstElement Child); ++currentImg; //update current image count

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For Previous go Backwards



Js05 Add showPrevious node.insertBefore(newChild, child) - Inserts newChild before child Can copy code for showNext, use insertBefore(lastElementChild, firstElementChild) and decrement currentImg function showPrevious() e['lbImages'].insertBefore(e['lbImages'].lastElementChild, e['lbImages'].firstElementChild); //decrement the count watch for $\ensuremath{\mathsf{0}}$ (currentImg>1?currentImg--: currentImg = imgFiles.length); e['lbCounter'].textContent = currentImg + " / " + imgFiles.length; Add listener for showPrevious CIMW 160 – JavaScript – Chapter 6 Professor Tom DeDonne

Knowledge Check

```
let aHead = document.createElement("h1");
let aHeadText=document.createTextNode("About Us");
aHead.appendChild(aHeadText);
let aboutDiv = document.getElementById("about");
aboutDiv.appendChild(aHead);
What do first three lines do?
We are creating h1 tag with text about us
<h1>About Us</h1>
What last 2 lines d?
Selecting an elemnt with id="about"
appending as child to aHead
<h1>About Us</h1><x id="about">...</x>
From code we can assume x is a div
```



IbPlay need a interval Timer





Modal Window Dialog Boxes

- Modal Dialog Box controls the underlying window
- Window.alert("message")
 - Popup window w message
- Confirmation Window
 - response = confirm("message");
 - Window is always present so its optional
 - Click Ok response=true; cancel false
- Prompt Window for User Input string
 - response = prompt(Message, default)
- <u>window.open(url,..)</u> with 5 second timer.

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Js05 Page 191 Remove Modal

- In createOverlay() add close button after alt let closeBox = document.createElement("div"); closeBox.id = "lbOverlayClose"; closeBox.innerHTML = "×";
- Next remove overlay when X is clicked closeBox.onclick = function() { document.body.removeChild(overlay); };
- Append close button to overlay overlay.appendChild(closeBox);

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Browser Object Model

AKA Client-side Object Model

Policy Guideline for Describing a Browser Mode – JavaScript Specifications Mechanism Meets the Model Contains Objects For All Aspects of Browser window object aka Global Object:

- Top level or Root Object
- Represents Browsers Window Frame
- Created Automatically By Web Browser
- Contains document (Browser Body), history, frames[], etc.

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Forms.htm Simple Adding Machine

- Form Element 'data' Text Field
- Buttons enter, clear and sum
- Read Only <textarea name='out' ..>
- Enter button Append to textarea
- Clear clear textarea
- Sum Eval textarea (add + in append)

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Window Object Class Definition Window Properties Effect Browser Window Can Create New Browser Windows Self Property Refers Current Window -self.alert() == window.alert() == alert() -windowMethods.htm Alert, prompt returns string, confirm return true or false Properties, Methods, and Events

Window Properties

parent Returns the parent frame that contains the current frame self Returns a self-reference to the Window object; identical to the window property status Specifies temporary text that is written to the status bar top Returns the topmost Window object that contains the current frame window Returns a self-reference to the Window object; identical to the self	Property	Description
self Returns a self-reference to the Window object; identical to the window property status Specifies temporary text that is written to the status bar top Returns the topmost Window object that contains the current frame window Returns a self-reference to the Window object; identical to the self	parent	Returns the parent frame that contains the current frame
status Specifies temporary text that is written to the status bar top Returns the topmost Window object that contains the current frame window Returns a self-reference to the Window object; identical to the self	self	Returns a self-reference to the Window object; identical to the window property
top Returns the topmost Window object that contains the current frame window Returns a self-reference to the Window object; identical to the self	status	Specifies temporary text that is written to the status bar
window Returns a self-reference to the Window object; identical to the self	top	Returns the topmost Window object that contains the current frame
property	window	Returns a self-reference to the Window object; identical to the self property

 Table 4-1
 Window object properties (continued)

Win dow Properties.htm

- Create a 2nd Window & Display Properties
- Not Working in IE8 devPHP use IE(new Project)

)) Pn

Property	Description
closed	Returns a Boolean value that indicates whether a window has been closed
defaultStatus	Sets the default text that is written to the status bar
document	Returns a reference to the Document object
frames[]	Returns an array listing the Frame objects in a window
history	Returns a reference to the History object
location	Returns a reference to the Location object
name	Returns the name of the window
navigator	Returns a reference to the Navigator object
opener	Refers to the window that opened the current window

Method Description alert() Displays a simple message dialog box with an blur() Removes focus from a window clearInterval() Cancels an interval that was set with setInt clearInterval() Cancels a timeout that was set with setInt close() Closes a Web browser window confirm() Displays a confirmation dialog box with OK a focus() Makes a Window object the active window moveBy() Moves the window relative to the current pos moveTo() Moves the window to an absolute position open() Opens a new Web browser window print() Prints the document displayed in the window prompt() Displays a dialog box prompting a user to ent resizeBy() Resizes a window to a specified amount resizeTo() Resizes a window to a specified amount scrollstp() Scrolls the window to a specified amount scrollstp() Scrolls the window to a specified amount	ods
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scrollTo() Scrolls the window to a specified position setInterval() Repeatedly executes a function after a specifie	
setInterval() Repeatedly executes a function after a specific	
have elapsed	ed number of milliseconds
setTimeout() Executes a function once after a specified num elapsed	nber of milliseconds have



Frameset.htm	topFile.htm 80- Pixels (navBar)	
<pre><html> <head> <title>A Page With Frames</title> < <frameset rows="80,*"> <frameset rows="80,*"> <frame bottom.htm"="" name="<NOFRAMES" src="topFile.htm"/> Now A Days All Browser </frameset> </frameset></head></html></pre>	Bottom.htm /HEAD> itopFrame"> "mainFrame"> Support Frames	
Lots of <u>People Argue</u> You Should Not Us Linking Someone else Work, Whic	e Frames h Page, etc.	

Examples	
 <u>file.htm</u> opens The File Up in the… blank open in New Tab _ window.open(URL) open in New Window 	
 Frameset.htm need to add form example Default, _self is the current Frame _blank Opens in a New Browser Tab _top (Window that Created Frames) _parent Parent Window 	
HTML iframe, HTML5 canvas	58

Mouse Events

- mouseover: Mouse passes Over Element
- mouseout: Mouse moves off an element
- mousedown: on element click mouse btn
- mouseup event: you release mouse button

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mous<u>eEvents.ht</u>m

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Browser Object Model Quiz

• Four Targets For Opening A New Web Page?

Object is the 1st Browser Model Object?

- With HTML < form> tag use _____ or forms[index].
- Input Elements use the Field _____ to represent data?
- The _____ object represents the entire Web Browser Window. The _____ object corresponds to the DOM model & is a child of the top level _____ object.

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Window

open & close methods

Window.open & Close

- Used to Open New Browser Window
 - Creates a New Browser Window Object
- automatically opens
 - New self window
- Can Use Browsers

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- File \rightarrow new Window
- File → new Tab (in Real Browsers)

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Window.open method

- Strict DTD You must use open() method
- window.open(url, WindowName [,features] [,replace]);
- URL is the address replace if True replace current page in browsers history
- WindowName is Window Object Identifier
- Window.open("cim.saddleback.edu", "", "height=200,width=300");
 Open Up a Window with no status, navigation,etc of size 300x200
- · Features "toolbar=1,status=0"
- Window Has Toolbar and But No Status Bar
- focus() makes the window Active Object

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Window.open Arguments

Table 4-3 Arguments of the Window object's open() method

Argument	Description
URL	Represents the Web address or filename to be opened
name	Assigns a value to the name property of the new Window object
options	Represents a string that allows you to customize the new Web browser window's appearance
replace	A Boolean value that determines whether the URL should create a new entry in the Web browser's history list or replace the entry

Window.open features

 Table 4-4
 Common options of the Window object's open() method

Description
Includes directory buttons
Sets the window's height
Includes the URL Location text box
Includes the menu bar

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Menubar = $\{1 \mid 0\}$ display Menu Bar Default is Yes location enter URL in the browser edit bar

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Window.open features		
Table 4-4 Com	mon options of the Window object's open() method (continued)	
Name	Description	
resizable	Determines if the new window can be resized	
scrollbars	Includes scroll bars	
status	Includes the status bar	
toolbar	Includes the Standard toolbar	
width	Sets the window's width	
Detailed List of Features-Foption		

javascripter.net/faq/openinga.htm

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windowOpen.htm

- Open(URL, Identifer, Option String, Boolean fReplace)
- myHome = open("<u>http://saddleback.edu</u>")
- myHome.close();
- Options are Comma separated
 - Attribute Name Value
 - Height=200; //200 Pixel Height
 - Toolbar= 0; //No Toolbar

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<u>countDown.ht</u>m

```
<script type="text/javascript">
var timeLength = 5;
var myAssignment; //assignment window
function winClose( ) { myAssignment.close( ); }
function myOpen( str )
{
    alert( "Do not forgot " + timeLength +" Seconds Only " );
    myAssignment = open( str, "Assignment", "toolbar = 0, width=400, height=500"
    );
    //why is function in quotes?
    self.setTimeout( "winClose();", timeLength*1000 );
}
```







History Object

List of Pages Visited In Current Session

Each Window Has Own History

- Tabs Back Button Correspond to Active Window
- Top Address Drop Down List All Sites

Security

- Cannot Display URL History
- But you Can Navigate
 - Methods: back(), forward(), go(delta#)
- Browser has Details
 - So Engine Could Allow Security Leak

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History Navigation Table 4-5 Methods of the History object Method Description back() Produces the same result as clicking a Web browser's Back button forward() Produces the same result as clicking a Web browser's Forward button go() Opens a specific document in the history list history.go(-2) Go Back 2 In History history.go(location); Example history.htm

Location Object

- Object Describing Current Location Full URL
 Protocol://hostname:port/pathname#anchor

Anchor name
Hostname and Port String
Server Name – domain name
Entire URL
URLs Path
Port Number 80 for http
http for the Web
URL query portion after ?

Table 4-7 N	Nethods of the Location object	
Method	Description	
assign()	Loads a new Web page	
reload()	Causes the page that currently appears in the Web browser to open again	
replace()	Replaces the currently loaded URL with a different one	
,		
ting loc	ation.href Property Will Move You loads the location.href Property	





Navigator Properties

Properties	Description
appCodeName	The Web browser code name
appName	The Web browser name
appVersion	The Web browser version
platform	The operating system in use on the client computer
userAgent	The string stored in the HTTP user-agent request header, which contains information about the browser, the platform name, and compatibility

na<u>vigator.h</u>tm (Similar to Code on Page 198)





Referring to Frames & Windows

target, parent, top

FrameSet2.html Review

- Create a Three Frame Web Page
- leftFrame is navBar.htm
 - -User can...
 - Set Specific Targets Locations
 - Select Links & Button to Open Pages
 - Print out Frame Information, Need to use parent Object

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Frameset2.html	120px Width leftFrame	topFile.htm 80- Px Height mainFrame				
Three Frame System	navBar.htm	bottomFile.htm				
DW Insert Panel Layout Last Icon Frames						
Left with Nested Top/Bottom Frames						
frameset cols="120,*" frameborder="Yes" >						
frame src="navBar.htm" name="leftFrame" >						
frameset rows="80,*" >						
<pre><frame name="topFrame" src="topFile.htm"/></pre>						
<frame name="mainFrame" src="bottomFile.htm"/>						
/frameset>						
/frameset>						
©Professor Tom DeDonno						

Target Property	
 Determines Where Document Should Open 	
• 	
 Will Find FrameName in Other Tabs 	
 Will not Open if FrameName not Present 	
Default Target is Self	
 Other Targets=[_blank,_top,_parent,_self] 	
How do set Default Target for All Links on a Page	
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HTML base tag

 <base target="topFrame"> –Sets default target topFrame

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- - -But System A all Data on System B

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navBar.htm Select Targets

- leftFrame of Frameset2.html
- Drop Down List Box To Select Targets

function newTarget(t)

alert("inside onChange eventHandler: " + t); baseTarget = t;

//Set all links to new baseTarget
var link, I = 0;
while (link = document.links[I++]) link.target = baseTarget;

(document.getElementById("baseTarget")).value = baseTarget;

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Document Methods

- getElementsByTagName(tag)
 - -Returns Array of All Tag Elements
 - (document.getElementsByTagName("base"))[0].name
 Return name of first <base> tag in the Document
- getElementByID(idName)
 - -Return pointer to Element with id
 - (document.getElementById("baseTarget")).value = baseTarget;
 - Set element <tag id="baseTarget" to Value of Variable baseTarget

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Summary BOM Objects

- Window: Browser Window Top Level
 - Methods: open, close, setInterval; Properties: status
 - Pop-up Windows: alert, confirm, prompt
- Document: document Body Follows DOM
 - Write, writeln
 - Forms: HTML Form Input
 Elements: <input or <textarea
- Location: Current Web Page Locations
- History: URL history List
- Navigator: Web Browser Properties

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Window Has Frames (Panes)

Target =_self or Default Current Frame on default handler Open _self Window _target: blank (New Browser Window) _parent: Parent of Frames or Window _top: Top Window or Frameset F<u>ile.ht</u>m illustrates Targets, no framesets

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