

Web Technologies and Programming Lecture 19

Summary of Previous Lecture

- Dialog boxes in JavaScript
 - Alert box
 - Prompt box
 - Confirm box
- What is DOM?
- HTML DOM
- Retrieving HTML elements
- getElementById()
- innerHTML
- getAttribute()
- setAttribute()

Summary of Previous Lecture

- HTML DOM Elements
- Finding HTML Elements
 - Find an element by element
 - Find elements by tag
 - Find elements by class name

Today's Lecture Outline

- Controlling the background dynamically
- Working with images
- Date Object

1. Controlling the background

- The body tag has the following attributes
 - Bgcolor
 - It is Background Color
 - Background
 - It deals with the Background Image
 - Text
 - It is the text user sees in the browser

1.1 Setting the bgcolor

- We can access the bgcolor by following methods:
 - document.body.bgColor
 - document.getElementById("id of the body tag").bgColor

1.1 Setting the bgcolor...



1.1 Setting the bgcolor...

→ X ▲ [] file:///C:/Users/Ahmad%20Kakakhail/Desktop/bgcolor.html

Hello Dear!	This page says:	×
	Enter bgcolor	
	Yellow	
	OK Cancel]
BGcolor Setting × ■	User Inputs bgcolor in Prompt Box	
Hello Dear!		
	After Applying bgcolor	

1.2 Setting the text color

- Set a background color for a document:
- We can access the body text by following methods:
 - document.body.style.color
 - document.getElementById("id of the body tag").style.color

1.2 Setting the text color

- Example
- Set a background color of a specific <div> element:
- document.getElementById("myDiv").style.bac kgroundColor = "lightblue";

1.2 Setting the text color

- Example
- Return the background color of a specific <div> element:
- alert(document.getElementById("myDiv").styl e.backgroundColor);
- Example
- Return the background color of a document:
- alert(document.body.style.backgroundColor);

1.2 Setting the text color...



1.2 Setting the text color

٦ BGcolor setting × file:///C:/Users/Ahmad%20Kakakhail/ C A P \rightarrow Click the Text to Make All the text Blue Click the Text to Make All the text Red **Before Clicking on Text** Click the Text to Make All the text Orange BGcolor setting P٩ × file:///C:/Users/Ahmad%20Kakakhail/ C 👘 \rightarrow Click the Text to Make All the text Blue After Clicking on Text Click the Text to Make All the text Red for Red Color Click the Text to Make All the text Orange

- The background property sets or returns up to eight separate background properties, in a shorthand form.
- With this property, you can set/return one or more of the following (in any order):
- background-color
- background-image
- background-repeat
- background-attachment
- background-position
- background-size
- background-origin
- background-clip

- Example
- Set a background color for a document:
- document.body.style.backgroundColor = "red";
- Example
- Set a background image for a document:
- document.body.style.backgroundImage
 = "url('img_tree.png')";

- Example
- Set a background-image to no-repeat:
- document.body.style.backgroundRepeat
 = "repeat-y";
- Example
- Set the background-image to be fixed (will not scroll):
- document.body.style.backgroundAttachment
 = "fixed";

- Example
- Change the position of a background-image:
- document.body.style.backgroundPosition = "top right";

- We can access the background by following methods:
 - document.body.background
 - document.getElementById("id of the body tag").background

1.3 Setting background...



1.3 Setting background...

Background Setting ×

← → C f [] file:///C:/Users/Ahmad%20Kakakhail/Desktop/BackgroundImage.html



Before Clicking on Image



After Clicking on Image

2. Working with images

- JavaScript has a built-in object called Image
- The Image object allows you to create objects that represent images created using the element
- Properties: name, border, height, width, hspace, vspace, src

2. Working with images...

• An image object can be created as

- var objname= new image()

- The most important property of an image object is src
 - This designates the actual image file you will use as a source for your Image object
 - objname.src= "abc.jpg"
 - This property can be used to dynamically change an image on the webpage

2. Working with images....

- The primary use for an Image object is to download an image into the cache before it is actually needed for display
 - -Instance of image object is created
 - Src property is set to the name of the image to be downloaded

2. Working with images....

- Image Object
- The Image object represents an HTML element.
- Access an Image Object
- You can access an element by using getElementById():

2.1 Image MouseMove and MouseOut Function



2.1 Image MouseMove and MouseOut Function...



2.2 Image Preview



2.2 Image Preview...



Main Image Src Changed

2.2 Image Preview...

×V

Image Preview

← → C file:///C:/Users/Ahmad%20Kakakhail/Desktop/ImagePreview.html

Image Preview



On Page Load

2.2 Image Preview...

×

🕒 Image Preview

← → C ff [] file:///C:/Users/Ahmad%20Kakakhail/Desktop/ImagePreview.html

Image Preview

After Changing Source



2.3 Slide Show

- Array of images
- Main image
- Next and previous image buttons
- Next image and previous image functions

<head>









2.4 Slide Show (with Self Changing Images)

- Array of images
- Main image
- Next image function

2.4 Slide Show (with Self Changing Images)...



2.4 Slide Show (with Self Changing Images)...

2.4 Slide Show (with Self Changing Images)...



3. Working with date object

- The Date Object is used to work with dates and times
- It can be used to find the Current Time and Date
- Many time based tasks can be performed
- Date objects are created as

- var today=new Date()

3. Working with date object...

- Date object methods:
 - getDate():
 - Returns the day of the month (from 1-31)
 - getDay():
 - Returns the day of the week (from 0-6)
 - getFullYear():
 - Returns the year (four digits)
 - getMonth():
 - Returns the month (from 0-11)

3. Working with date object...

- getHours():
 - Returns the hour (from 0-23)
- getMilliseconds():
 - Returns the milliseconds (from 0-999)
- getMinutes():
 - Returns the minutes (from 0-59)
- getSeconds():
 - Returns the seconds (from 0-59)

3.1 Digital clock



3. Working with date object...



3. Working with date object...



Summary of Today's Lecture

• Controlling the background dynamically

- Bgcolor

- SET For a document
- SET For a specific <div>
- SET the Text Color
- Return background color of a specific <div> element
- Return background color of a document:

- Background

- background color for a document
- background image for a document
- Set a background-image to no-repeat
- Set the background-image to be fixed
- Change the position of a background-image

Summary of Today's Lecture

- Working with images
 - Access an Image Object
 - On MouseOut
 - On MouseOver
 - Image Rollover
 - Image Preview
 - Image Slide Show
- Date object
 - Digital Clock

THANK YOU