

#### WHAT IS DHTML?

- DHTML stands for Dynamic HTML.
- DHTML is NOT a scripting language.
- DHTML is a browser feature-that gives you the ability to make dynamic Web pages.
- DHTML uses a combination of:
  - 1. Scripting language
  - 2. DOM
  - 3. CSS

To create HTML that can change even after a page has been loaded into a browser.

#### **HOW TO APPLY?**

- Dynamic Styles
- Positioning Page Elements
- Dynamic Content

## **DYNAMIC STYLES**

- 1. Font Styles
- 2. Text Styles
- 3. Text and Background Colors
- 4. Borders, Padding, and Margins
- 5. Background Images

# 1. FONT STYLES

CSS and DOM Reference	Values
font-family:name object.style.fontFamily="name"	Font <i>name</i> can be any system font;
font-size:size object.style.fontSize="size"	Font <i>size</i> is specified as in a unit of measurement, normally point size (12pt).
font-style:style object.style.fontStyle="style"	Font <i>style</i> specified as - normal - italic
font-weight:weight object.style.fontWeight="weight"	Font <i>weight</i> specified as - normal - bold
font-variant:variant object.style.fontVariant="variant"	Font <i>variant</i> specified as - normal - small-caps

# 2. TEXT STYLES

CSS and DOM Reference	Values	
text-align:alignment object.style.textAlign="alignment"	Sets the horizontal <i>alignment</i> of text within an element left - center - right - justify	
line-height:height object.style.lineHeight="height"	Sets the <i>height</i> of lines of text in an element measurement (px, pt, n%, em, en) normal	
letter-spacing:spacing object.style.letterSpacing="spacing"	Sets the <i>spacing</i> between letters in an element measurement (px, pt, n%, em, en) normal	
text-transform:case object.style.textTransform="case"	Sets the <i>case</i> of words in a text block - capitalize - lowercase - uppercase - none	
text-decoration:style object.style.textDecoration="style"	Sets a <i>style</i> using: - underline - overline - line-through - none	

## 3. TEXT & BACKGROUND COLORS

CSS and DOM Reference	Values
color:color object.style.color="color"	Foreground color specified as a color name, hexadecimal value, or RGB value: color:red color:#FF0000 color:rgb(255,0,0)
background-color:color object.style.backgroundColor="color"	Background color specified as a color name, hexadecimal value, or RGB value: background-color:red background-color:#FF0000 background-color:rgb(255,0,0)

CSS and DOM Reference.	Values
<b>border-style</b> : style object.style. <b>borderStyle</b>	Sets the <i>style</i> of a border surrounding a page element.
	The style can be applied to all borders
border-top-style:style	(border-style, borderStyle) or to selected
object.style. <b>borderTopStyle</b>	borders. Style types can be
border-right-style:style	- dashed
object.style. <b>borderRightStyle</b>	- dotted
<b>3</b>	- double
border-bottom-style:style	- groove
object.style.borderBottomStyle	- inset
	- none
border-left-style:style	- outset
object.style. <b>borderLeftStyle</b>	- ridge
	- solid

CSS and DOM Reference.	Values
border-width:width object.style.borderWidth="width"	Sets the <i>width</i> of a border surrounding a page element.
border-top-width:width object.style.borderTopWidth="width"	The width can be applied to all borders (border-width,
border-right-width:width object.style.borderRightWidth="width"	borderWidth) or to selected borders. Widths can be
border-bottom-width:width object.style.borderBottomWidth="width"	- thin - medium - thick
border-left-width:width object.style.borderLeftWidth="width"	- <i>п</i> рх

CSS and DOM Reference.	Values
border-color:color border-top-color:color borderTopColor border-right-color:color	Sets the <i>color</i> of a border surrounding a page element.  The <i>color</i> can be applied all borders (border-color, borderColor) or to selected borders.
borderRightColor	The <i>color</i> is specified as a color name, hexadecimal value, or RGB value.
border-bottom-color:color borderBottomColor	color:red color:#FF0000
border-left-color:color borderLeftColor	color:rgb(255,0,0)

CSS and DOM Reference.	Values
<b>border</b> :style width color object.style. <b>border</b> ="style width color"	Border styles, widths, and colors can be set with the single border specification by coding these values separated by a blank space:  border:solid 1px red border="solid 1px red"

## 5. BACKGROUND IMAGES

CSS and DOM Reference	Values
background-image:url(url) object.backgroundImage="url"	Sets the URL of a background image; <i>url</i> can be set to none to prevent an image from loading.
background-position:/ocation object.backgroundPosition="location"	Sets the <i>location</i> of the left and top edges of the background image with a pair of values separated by a space. Values are left center right paired with top center bottom
background-repeat: axes object.backgroundRepeat="axes"	Sets whether a background image should repeat along the horizontal and/or vertical axes. Axes values are: - no-repeat - repeat - repeat-x - repeat-y
background-attachment:value object.backgroundAttachment="value"	Describes whether a background image remain fixed in place or scrolls with the document. <i>Values</i> are: - fixed - scroll

#### POSITIONING PAGE ELEMENTS

- 1. Positioning Styles
- 2. z-index
- 3. Dynamic sizing
- 4. Visibility
- 5. display
- 6. clip

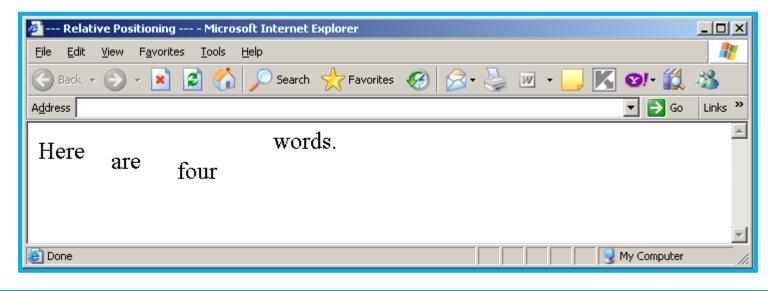
#### 1. POSITIONING STYLES

- Elements can be positioned as:
  - 1. position:relative
    - → How to position an element relative to its normal position.
  - 2. position:absolute
    - → How to position an element using an absolute value.

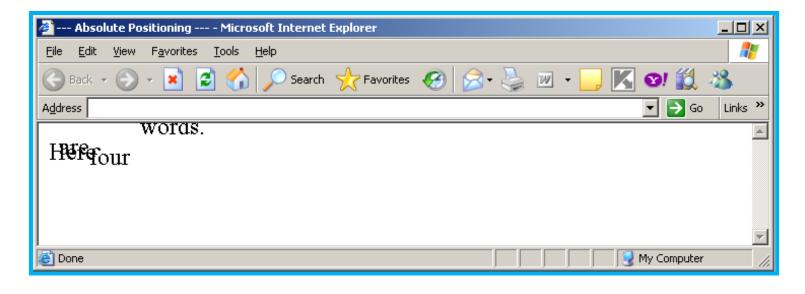
## 1. POSITIONING STYLES

CSS and DOM Reference	Effects
left:n object.style.left="n"	Sets the left edge of the element relative to its container element; <i>n</i> is a <i>string</i> measurement unit, e.g., 100px.
top:n object.style.top="n"	Sets the top edge of the element relative to its container element; <i>n</i> is a <i>string</i> measurement unit, e.g., 100px
object. <b>style.pixelLeft</b> =n	Sets the left edge of the element relative to its container element; <i>n</i> is <i>numeric</i> for use in calculations, e.g., 100.
object. <b>style.pixelTop</b> =n	Sets the top edge of the element relative to its container element; <i>n</i> is <i>numeric</i> for use in calculations, e.g., 100.

#### **POSITION: RELATIVE**



#### **POSITION: ABSOLUTE**



#### 2. Z-INDEX

- The z-index property is used to place an element "behind" another element.
- Default z-index is 0.
- The higher number the higher priority. z-index: -1 has lower priority.
- The general format is:

```
z-index:n
```

OR

object.style.zIndex=n

## 3. DYNAMIC SIZING

CSS and DOM Reference	Effects
width:value object.style.width="n"	Sets the width of the element; <i>n</i> is a string measurement, either in pixels or percentages.
height:n object.style.height="n"	Sets the height of the element; <i>n</i> is a string measurement, either in pixels or percentages.
object.style.pixelWidth=n	Sets the width of the element; <i>n</i> is numeric for use in calculations.
object.style.pixelHeight=n	Sets the height of the element; <i>n</i> is numeric for use in calculations.

#### 4. VISIBILITY

The visibility property determines if an element is visible or not.

• The general format is:

visibility:hidden|visible

OR

object.style.visibility="hidden|visible"

#### 5. DISPLAY

- Some possible values for display:
  - 1. none
  - 2. block
  - 3. inline
- The general format is:

display:block|inline|none

OR

object.style.display="block|inline|none"

#### 6. CLIP

- Specifies how an element is clipped for display.
- The general format is:
   clip:rect(top,right,bottom,left)
   OR
   object.style.clip="rect(top,right,bottom,left)"

#### DYNAMIC CONTENT

- All HTML containers paragraphs, spans, divisions,... have innerText and innerHTML properties representing the content that appears inside their tags.
- These properties can be changed through scripting.

DOM Reference	Values
object.innerText = "text"	Sets the text content of the container object, replacing any existing text.
object. <b>innerHTML</b> = "text + HTML"	Sets the text and XHTML content of a container object, replacing any existing text and XHTML tags. The XHTML is rendered when assigned to this property.

# Thank You