.applets Java P<applet> .ondatasetcomplete defaults are not exposed. properties are public fields ondblclick (-N6 members are empty if not set ogColor |
 |
 body bgcolor> .overflowY ondeactivate .padding 意意 ondragstart background .paddingBottom onerrorupdate T aLink (color) backgroundAttachment paddingLeft onfocus (N6) .naddingRight background (image) .backgroundColor onfocusin .paddingTop backgroundImage gColor 🔚 onfocusout .pageBreakAfter Properties | backgroundPositionX onhelp ttomMargin III pageBreakBefore .backgroundPositionY onkeydown Margin 🖺 .nosBotton backgroundPosition onkeypress. (color) .posHeight .backgroundRepeat onkeyup rap 🗏 position * animation behavior .onmousedowr .posl.eft erprint .onmousemove (N6) .border reprint posRight .borderBottom onmouseout reunload .posTop .borderBottomColor .onmouseover borderBottomStyle .posWidth onmouseup borderBottomWidth .right .onmousewheel borderCollapse rubyAlign .onpropertychange borderColor onreadystatechange ars, yes or no) .rubyOverhang borderLeft .onrowenter earound color) rubyPosition borderLeftColor .onrowexit .scrollbar3dLightColor .borderLeftStyle onrowsdelete .scrollbarArrowColor borderLeftWidth nask) (+Op) onrowsinserted. .scrollbarBaseColor borderRight onselectionchange .scrollbarDarkShadowColor borderRightColor and close() .onselectstart .scrollbarFaceColor .borderRightStyle .onunload .scrollbarHighlightColor borderRightWidth store * .scrollbarShadowColor .borderStyle .open() prepare for .write()'s =val: .scrollbarTrackColor borderTop parentWindow outer frame .styleFloat borderTopColo .plugins .embeds node borderTooStyle .tableLayout .borderTopWidtl .previousSibling .textAlign .borderWidth protocol textAlignLast (TE5.5) bottom .readyState textAutospace clear referrer * inbound link textDecoration .clip **Document** releaseEvents(mask) (+0a) .textDecorationBlink color routeEvent(event) .textDecorationLineThrough .cssText .scripts[] [<script >] [] .textDecorationNone .cursor .text JavaScript source .textDecorationOverline .direction security 1 .textDecorationUnderline .display * "none"=vanishe selection .textIndent filter styleSheets[] [] < style> .textJustify .cssRules .textJustifyTrim fontFamily .item(index).cssText .textOverflow fontSize 🚓 .cssText fontStyle .textTransform 🗘 .deleteRule(index) fontVariant .textUnderlinePosition (TF5.5) .disabled .fontWeight href .height .imeMode .unicodeBidi .verticalAlign layoutFlow (IE5.5) sertRule(cssrule,index) visibility * transparent layoutGrid .whiteSpace layoutGridChar ningElemen layoutGridLine erNode .lavoutGridMode .wordBreak rRule layoutGridType .wordSpacing StyleSheet .wordWrap (TE5.5) JetterSpacing writingMode (TE5.5) JineBreak .zIndex .zoom ₩ window.open(u,n,o,h) pops up a new browser win-Information Technology Institute dow with a web page in it.

document.open() document.write(string)

document.close()

HTML content for an

rewrite from scratch new

existing browser window.

ody vlink>

string)

e.g. elem.style.top="200 px";

.overflow

.className | CSS class(es

onmousemove (-N4)

.onmousewheel (TE5.5)

* roll-

onmouseout)

onmouseover

.onmouseup

document.all()

viiuatasetunainteu

Object Model

Eman Fathi

```
.clientHeight
                                Loose association: members
.clientWidth
                                belong to at least 1 inputable.
                                                                 childNodes[7
.clientLeft @ .offsetLeft
                                                                 firstChild
                                (in add'n to Element members)
.clientTop @ .affsetTop
                                                                 lastChild
                                .accessKey shortcut
.contentEditable (IE5.5)
                                                                 .nextSibling
                                .align | (-N4)
.currentStyle
                                                                .previousSibling
                                .blur() focus elsewhere
                                                                 .parentNode 2.00
.dir 🖺
                                                                 .ownerDocument root (-IE5)
                                .checked [ (checkbox, radio)
disabled greyed-out (+Op)
                                .click() simulated mouse
 Input .disabled
                                                                 attributes element subnode:
                                .cols (textarea) (-N4)
                                                                 .cloneNode(descendentstod)
.document
                                dataFid
                                                                 hasChildNodes()
.filters
                                                                 insertBefore(nnew,nref)
                                .dataFormatAs
.getAttributeNode(name)
                                                                 .appendChild(nnew)
                                .dataSrc
.getAttribute(name)
                                                                .removeChild(nnref
                                .defaultChecked ) read-only
getElementsByTagName(n)
                                .defaultSelected > used at
                                .defaultValue ) reset time
      XHTML says to use in
                                                                .disabled grayed-out
                                                                Access: document.imgname
innerHTML what's between
                                .focus()
                                                                (in add'n to Element members)
  start & end tags $N6 body
                                .form @
                                Jength (of select's options)
                                                               .align
innerText subtags stripped
isContentEditable (TE5.5)
                                .maxLength [ (typable text)
                                                               .alt 🗏
isDisabled (IE5.5)
                                                                .border
                                .multiple (select) (-N4)
isMultiLine (TES.5)
                                                                .complete
.isTextEdit
                                                                .dynsrc
.lang
                                .onchange
                                                                 fileCreatedDate
                                .onclick
Janguage
                                .ondblclick (+N4)
                                                                 fileSize
.name 🖺 🖝 .id
                                onfocus
                                                                 fileUpdatedDate
.offsetWidth
                                .onfocusin
                                                                 height 🗎
.offsetHeight
                                onfocusout
                                                                 hspace
.offsetTop ) relative to
                                .onhelp
                                                                isMap
.offsetLeft
                                .onkeydown
                                                                .longDesc
.offsetParent
                                .onkevpress
                                .onkeyup
                                                                .loop II
onactivate (TE5.5)
                                .onselect (-N4)
                                                                Jowsrc |
.onafterupdate
                                                                .mimeType
onbeforeactivate (IE5.5)
                                .options[] (select)
onbeforecopy
                                                                .onabort()
                                .select() swipe visible text
onbeforecut
                                                                .onerror()
                                selected | <option>
                                                                .onload()
onbeforedeactivate (IE5.5)
                                .selectedIndex (select. 0...)
.onbeforeeditfocus
                                                                protocol
                                .size (visible text width)
onbeforepaste
                                                                .src III prefetch for rollovers
.onbeforeupdate
                                                                  (new Image).src="x.gif";
                                .readOnly
oncellchange
                                                                  then change on the fly
                                .recordNumber
.onclick
                                                                .start |
                                .remove()
.oncontextmenu
                                                                .useMap
oncontralselect (TE5.5)
                                .rows III (-N4) (textarea)
oncopy
                                                                .vspace
                                .tabIndex
.oncut
                                                                .width
.ondataavailable
                                .type |
                                                                x @ Element .offsetLeft
.ondatasetchanged
                                value E
                                                                y Element .offsetTop
.ondatasetcomplete
                                .wrap 🗏 (textarea)
ondblclick (+N4)
ondeactivate (TE5.5)
ondrag
.ondragend
.ondragenter
                                                                 form element
.ondragleave
                                                                the <form> Access via
.ondragover
                                                                document.forms[index] or
.ondragstart
                                                                document.formname
ondrop
                                                                (Element and Node members
.onerrorupdate
                                                                are form members also)
                               .onselectstart
onfilterchange
                                                                .action 🗏
onlayoutcomplete (TE5.5)
                               outerHTML
                                                                .elements[] � inputables
                               .outerText
onlosecapture
                               parentElement
                                                                .encoding | enctype
.onmousedowr
onmouseenter (IE5.5)
                               .parentTextEdit
                                                                .method [
onmouseleave (IE5.5)
                               .readyState
```

.removeAttribute(name)

runtimeStyle

.scopeName

scrollWidth

removeAttributeNode(attr)

.onreset

.onsubmit

.target

z=attribute, s=text, ett

nodeName | id or name

nodeValue

Duodies true=4

.cancelBubble

.charCode

.clientY

.ctrlKey

.button mouse button agen-

erally: 0.1=left 2=right

.cancelable w/preventDefault

.clientX / click point within

browser window

```
e.which == 3)
.contentOverflow (TE5.5)
                                       alert("right-click");
.ctrlLeft (IE5.5)
.currentTarget handler (+Op
                                    else {
.data dropped URLs 6 (N4)
                                      alert("left-click"):
.dataFld
.dataTransfer
                                    return false:
 detail e.g. click count
                                    // false=browser ignore
 eventPhase
                                    // true=browser handle it
 .fromElement
                                  </script>
 getPreventDefault()
 height (N4 only)
                                  This script uses way 3 or 2:
 initEvent(type,c,c) (+0a)
                                  function mdown2(e) {
 initKeyEvent(type,c,c,...)
                                    if (e != null) {
 initMouseEvent(type,c,c,...)
                                      return mdown(e)
.initUIEvent(type,c,c,...)
isChar
                                     f (window.event != null) {
.kevCode
                                      return mdown(
                                         window.event)
.layerX ) local click point
        or dimensions
                                  document.frm.btn
 modifiers (N4 only)
                                    .onmousedown=mdown2:
.nextPage (TE5.5)
.offsetX
offsetY
.originalTarget
.pageX ? click point within
 pageY
 preventBubble()
.preventCapture()
 preventDefault() (+Op)
.propertyName
                                                   Netscape 4
 .rangeOffset
 .rangeParent
                                  | | < layer > and some others.
reason.
                                  M<div>M<span>M<a>
 recordset
                                  if style="position:relative
 relatedTarget (+00)
                                       or "position:absolute"
 repeat
                                  Access by name or number
.returnValue
                                   document.layers.name
screenX
           screen click point
                                   document.layers[index
.screenY
.shiftKey
                                 .background (e.g. "bg.gif")
shiftLeft (TE5.5)
.srcElement
                                 .bgColor [ (e.g. *#FFFFFF")
                                 .captureEvents(mask)
srcFilter
                                 .handleEvent(event)
srcling
.stopPropagation() (+Op)
                                            .left .top .right
.target generating element
 timeStamp
                                  .document & (HTML within)
 toElement
                                    .open() .write() .close() to
type e.g. "click" for onclick
                                    rewrite <laver> contents
 view (window)
                                  .hidden (true or false)
.wheelDelta (IE5.5)
                                 .layers[] contained layers
.which mouse button or gen
                                 .load(url, width)
  erally: 1=left 3=right
                                 .moveAbove(layerobj)
.width (N4 only)
                                 .moveBy(dx,dy)
    local click point
                                 .moveTo(x,y) (within layer)
                                  .moveToAbsolute(x,y) (page)
                                 .offset(dx,dy)
                                 .pageX
```

.pageY

.parentLayer

.releaseEvents(mask)

resizeRuldwdh)

<form id="frm" name="frm">

onmousedown=

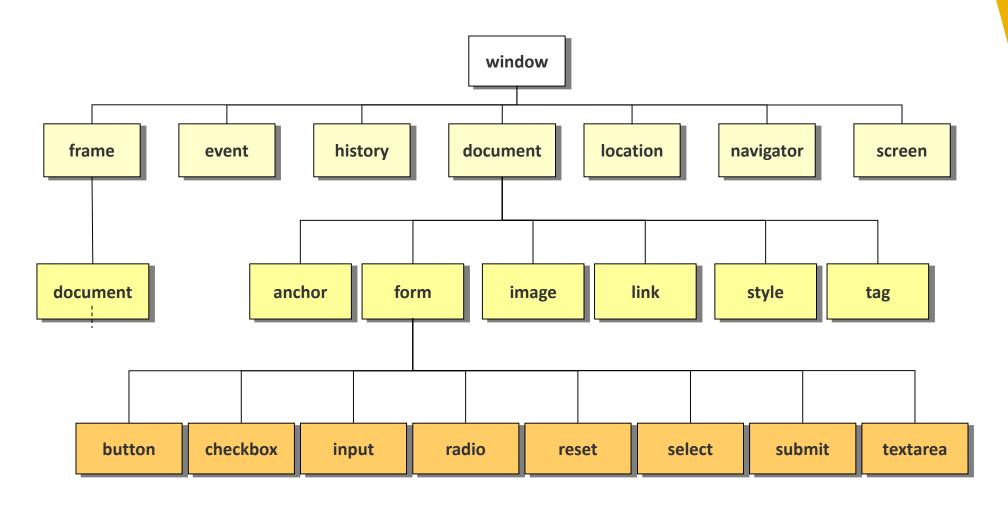
function mdown(e)

if (e.button == 2

cinput id="btn" name="btn"

"return mdown(event);" />

DOM TREE





- The document object represents the entire HTML document and can be used to access all elements in a page.
- A page is what appears within the browser window.
- So, every window is associated with a document object.
- Document Object has its own set of Properties, Collections,
 Methods & Event handlers.

Find something Do something



Properties		
Name	Description	Syntax
bgColor	A string that specifies the background color.	document.bgColor="red";
fgColor	A string that specifies the text color.	document.fgColor="blue";
linkColor	The color of text for a link that the user has not yet visited (read/write).	document.linkColor="blue";
vlinkColor	The color of text for a link that the user has already visited (read/write).	document.vlinkColor="blue";
alinkColor	The color of text for active Link.	document.alinkColor="blue"

	Methods	
Name	Description	Syntax
Write	Writes one or more HTML expressions to a document in the specified window.	document.write("hello");
writeln	Writes one or more HTML expressions to a document in the specified window and follows them with a new line character.	document.writeln("hello");



Methods(for accessing document objects)	
Name	Description
getElementById("id Attribute")	For accessing any element on the page via its ID attribute
getElementsByName("Name Attribute")	Returns a collection of objects with the specified name
getElementsByTagName("Tag Name")	Returns a collection of objects with the specified tagname
querySelector("css selector") & querySelectorAll("css selector")	



Collections		
Name	Description	Syntax
forms	An array containing an entry for each form in the document	document.formname document.forms[index] document.forms["formNAME"] document.forms["formID"]
images	An array containing an entry for each image in the document	document.imgName document.images[index] document.images["imgName"] document.images["imgId"]
anchors	An array containing an entry for each anchor in the document.	document.anchors[index] document.anchors["ancName"]



Event Handeler	
Name	Description
onClick	Processes when user click on the document body
onDblClick	Processes when user double click on the document body
onKeyPress	Processes when user click any key on the keyboard
onKeyUp	Processes when user release the key on the keyboard after pressing on it
onMouseDown	Processes when user click on mouse button
onMouseUp	Processes when user release the mouse button

IMAGE



- The Image object is an image on an HTML form, created by using the HTML 'IMG' tag.
- Any images created in a document are then stored in an array in the document.images property.
- Image Object has its own set of Properties, Collections, Methods
 & Event handlers.

IMAGE

CONT.



• Object Model Reference:

```
[window.]document.imageName
[window.]document.imageID
[window.]document.images[i]
```

```
<html>
<body>
.....
<img name="img1" src="img1.jpg">
<img name="img2" src="img2.jpg">
...
</body>
</html>
```

IMAGE



Properties				
Name	Id	src	height	width

Event Handeler	
Name	Description
onabort	Code is executed when user aborts the downloading of the image.
onload	Code is executed when loading of the image
onerror	Code is executed when an error occurs with the loading of the image



FORM



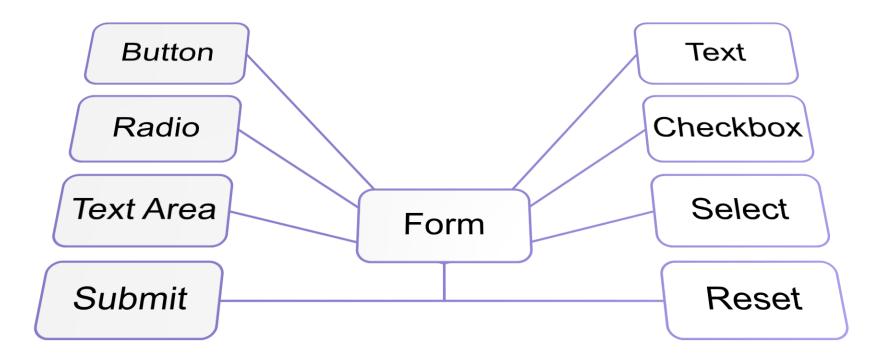
- By using the form you have at your disposal information about the elements in a form and their values.
- A separate instance of the form object is created for each form in a document.
- Objects within a form can be referred to by a numeric index or be referred to by name.
- Object Model Reference:

```
[window.]document.formname
[window.]document.forms[i]
[window.]document.forms["formNAME"]
[window.]document.forms["formID"]
```

FORM CONT.

Text:		
Password:		
Select:	Please Choose	\$
Select 2:	Please Choose (with onchange eve	ent)
Radio:	YesNoMaybe So	
Radio 2:	○Yes ○No ○Ma	aybe So
Checkbox:		
Checkbox:		

FORM CONT.



FORM



Properties		
Name	Description	Syntax
elements[]	An array containing all of the elements of the form. Use it to loop through form easily.	form.elements[index];
length	The number of elements in the form.	form.length;
name	The name of the form.	form.name;
id	The id of the form.	form.id;
target	The name of the target frame is to be submitted to.	form.target;

FORM



Methods	
Name	Description
rosot/\	Resets the form.
reset()	Clicking the reset button clears all contents that the user has made
submit()	Submits a form.
	Clicking the submit button submits the content of the form to the server

Event Handlers	
Name	Description
onReset	Code is executed when the form is reset
	(by clicking on "reset" button)
onSubmit	Code is executed when form is submitted

A. TEXT

```
<input type="text"
id="id"
value="string"
maxlength="n"
size="x"
/>
```

A. TEXT



Methods	
Name	Description
blur()	Removes focus from the field.
focus()	Assigns focus to the field; places the cursor in the control.
select()	Selects, or highlights, the content of the control.

A. TEXT



Events		
Event	Event Handler	Description
focus	onfocus	The field gains focus when the user tabs into or clicks inside the control
blur	onblur	The field loses focus when the user tabs from or clicks outside the control
change	onchange	The field loses focus after the contents of the control have changed

B. DROP-DOWN LISTS

```
<select id="id" multiple size="n" >
   <option value="str1" selected> label</option>
   <option value="str2" selected> label</option>
...
</select>
```

B. DROP-DOWN LISTS



Properties		
Name	Description	
Length	The number of options in the list	
selectedIndex	The index number, beginning with 0, of the selected option	
options[]	An array of the options in the list. Used to reference properties associated with the options; e.g., options[1].value or options[2].text.	
Selected	A true or false value indicating whether an option is choosen.	
Value	The value associated with an option. In the absence of a coded value attribute, the text label associated with the option.	
Text	The text label associated with an option.	

B. DROP-DOWN LISTS



Events		
Event Handler	Description	
onfocus	The control gains focus.	
onblur	The control loses focus.	
onchange	A different option from the one currently displayed is chosen.	

C. RADIO BUTTON

```
<input type="radio"
id="id"
name="name"
value="string"
checked
/>
```

C. RADIO BUTTON



Properties		
Name	Description	
length	The number of radio buttons with the same name	
checked	A true or false value indicating whether a button is checked	
value	The value attribute coded for a button. A checked button with no assigned value is given a value of "on"	

C. RADIO BUTTON



Events		
Event Handler	Description	
onfocus	The control gains focus.	
onblur	The control loses focus.	
onclick	The button is clicked.	

D. CHECKBOX

```
<input type="checkbox"
id="id"
name="name"
value="string"
checked
/>
```

E. BUTTON

```
<input type="button"
id="id"
value="string"
/>
```

E. BUTTON

Events		
Event Handler	Description	
onclick	The mouse is clicked and released with the cursor positioned over the button.	
ondblclick	The mouse is double-clicked with the cursor positioned over the button.	
onmousedown	The mouse is pressed down with the cursor positioned over the button.	
onmouseout	The mouse cursor is moved off the button.	
onmouseover	The mouse cursor is moved on top of the button.	
onmouseup	The mouse button is released with the cursor positioned over the button.	