Netscape Navigator Object Road Map and Compatibility Guide

he following pages contain the text of a handy pamphlet whose Adobe Acrobat (.pdf) file you'll find on the companion CD-ROM. The arrangement of the following material has been modified for printing in this appendix. The .pdf file on the CD-ROM, which you can print it out for quick reference, offers a more compact arrangement. With this compact guide, you can see at a glance the breadth of each object's properties, methods, and event handlers. You can also see which language's words are compatible with each scriptable browser through the level 4 browsers. For instructions on printing and assembling this pamphlet, see the howtoprt.txt readme file on the CD-ROM.



Netscape Navigator 4 Object Road Map

window closed^{N3,M4} onBlur=N3,M4 alert("msg") onDragDrop=N4,(S)back()N4 defaultStatus onFocus=N3,M4 blur()N3,M4 document captureEvents(type)N4 frames[i] onLoad= clearInterval(ID)N4,M4 onMove=N4 history innerHeight^{N4,(S)} clearTimeout(ID) onResize=N4,M4 innerWidthN4,(S) onUnload= close() location confirm("msg") locationbarN4,(S) disableExternalCapture()N4,(S) menubarN4,(S) enableExternalCapture()N4,(S) find(["str"][,case, bkwd])N4 name focus()N3,M4 onerrorN3,M4 openerN3,M3 forward()N4 $outer Height^{N4,(S)}\\$ handleEvent(event)N4 $outer \ \widetilde{Width}^{N4,(S)}$ home()N4 moveBy $(\Delta x, \Delta y)^{N4,(S)}$ pageXOffsetN4 pageYOffsetN4 $moveTo(x,y)^{N4,(S)}$ open(URL,"name","specs")(1),(S) parent personalbarN4,(S) print()N4, scrollbars^{N4,(S)} prompt("msg","reply") releaseEvents(type)N4 self resizeBy $(\Delta x, \Delta y)^{N4,(S)}$ status statusbarN4,(S) resizeTo(width,height)N4,(S) toolbarN4,(S) routeEvent(event)N4 $scroll(x,y)^{N3,M4}$ top scrollBy $(\Delta x, \Delta y)^{N4}$ window $scrollTo(x,y)^{N4}$ setInterval (func, msec [,args])N4,M4,(2) setTimeout(func, msec [,args])N4,M4,(3) stop()N4

(1)New window specs for all browsers: height, width, toolbar, location, directories, status, menubar, scrollbars, resizable, copyhistory, Additional specs for Navigator 4: alwaysLowered(S), alwaysRaised(S), dependent, hotkeys, innerHeight, innerWidth, outerHeight, outerWidth, screenX, screenY, titlebar(S), z-lock(S).

2)Optional args parameter added to N4; 3rd parameter in M4 is for scripting language. (3)Third parameter in N4 for args: in M4 for scripting language.

locationbarN4, menubarN4, personalbarN4, scrollbars^{N4}, statusbar^{N4}, toolbar^{N4}

visible	(None)	(None)	
	histor	у	
longth	hack()	(Nono)	

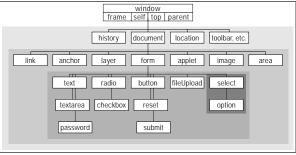
current(S),(1) next(S),(1) go(int | "URL") previous(S),(1) 1)Introduced in Navigator 3.0 for use with a trial security method no longer in use.

forward()

Available in Navigator 4 with signed scripts.

assign("URL") hash (None) reload([unconditional])N3,M4 host replace("URL")N3,M4 hostname href pathname port protocol

search



Netscape Navigator 4 Document Object Model Containment Hierarchy

	document
llinkColor Inchors[i] Inpplets[i]N3,M4 Inpplets[i]N3,M4 Inpplets[i]N3,M4 Inpplets[i]N3,M4 Inpplets[i]N3,M4 Inpplets[i]N3,M4 Inpplets[i]N4 InkColor Inks[i] Inpplets[i]N4 Inkcolor Inpplets[i]N4 Inkcolor Inpplets[i]N4 Inkcolor Inpplets[i]N4 Inkcolor Inpplets[i]N4 Inpplets[i]	ptureEvents(type)N4 (None ear() ose() ose() etselection()N4.(2) andleEvent(event)N4 oen("mimetype" [,replace])(3) leaseEvents(type)N4 uteEvent(event)N4 rite("string") riteln("string")

(1)Replaced by the URL property in Navigator 3.
(2)M4 has a document.selection property to retrieve the currently selected text.
(3) mimotime perspector pour in \$44 but only "tout/html" time comparted

location

layerN4 load("filename",y) onBlur= above background moveAbove(layerObj) onFocus= below moveBelow(layerObj) onLoad= bgColor moveBy(Δx , Δy) onMouseOut= clip.top moveTo(x, y)onMouseOver= clip.left moveToAbsolute(x, y) onMouseUp= clip.right resizeBy(Δx , Δy) clip.bottom resizeTo(width, height) clip.width clip.height document left name pageX pageY parentLayer siblingAbove siblingBelow src top visibility zIndex

How to Use This Map

The hierarchy diagram shows the relationships among various HTML-generated objects in Netscape Navigator 4. Follow the dark lines to create references to objects:

window.document.formName.textName.value

The three columns in the individual object listings show the properties, methods, and event handlers for the object.

Netscape Navigator 4 Object Road Map

link ()

	image ^{N3,(1),M4}	(1),M4		lir	link (<a href="</th">
border	(None)	onAbort=	<u>-</u> 	hash	(None)
complete		onError=	_	host	
height		onLoad=	_	hostname	
hspace			_	href	
lowsrc			_	pathname	
name			_	port	
src			_	protocol	
vspace				search	
width			_	target	
×N4			_	text ^{N4}	
v ^{N4}			_	×N4	
(1) Innational and MacIE 2 for Macintock but not Windows	9 for Maximtoch but	amepage 1	<u></u>	y _{N4}	
campiemented in Male	3 IOI INIGGIIIOSII, DOL	HOL WILLIAOWS.	7		
				"Not implemented for	(1)Not implemented for Macintosh Navigator 4.

Browser Compatibility Guide

This map is a Netscape-centric view of JavaScript. No items unique to Microsoft Internet Explorer (MSIE) are listed, but Netscape-only items are. Items that have no superscript notation are available to all JavaScriptenabled browsers, including Navigator 2 and MSIE 3. Superscript notations are keyed as follows:

N3-New in Netscape 3

 $\mathrm{M3}\!-\!\mathrm{New}$ in Netscape 3 and MSIE 3 $\mathrm{M4}\!-\!\mathrm{New}$ in MSIE 4 N4—New in Netscape Navigator 4

J2 — New in MSIE 3, JScript.dll Version 2

(S) — Requires Netscape Navigator 4 Signed Scripts

If an item shows N3 or N4 but not M3 or M4, it means that the feature is Netscape-only, and is not available in

//E=> /A	(None)
anchor ()	(None)
an	name ^{N4,M4} text ^{N4} x ^{N4} y ^{N4}

	form	
	111101	
action	handleEvent(evt) ^{N4}	onReset=N3,M4
elements[i]	reset()N3,M4	onSubmit=
encoding	submit()	
length		
method		
name		
target		

defaultValue blt form for mame ha typeN3.M4 sel value(1)	ue blur() onBlur= focus() onChange- focus() onChange- handleEvent(event) ^{M4} onCrouse- select() onKeyDown onKeyDown onKeyDown onKeyDown onKeyDown	1, hidden onBlur= onChange= onchous= onkeyDown=N4,M4 onkeyDress=N4,M4 onkeyUp=N4,M4 onkeyUp=N4,M4

handleEvent(evt)^{N4}

options[i].defaultSelected options[i].index options[i].selected options[i].value selectedIndex type^{N3,M4}

options[i] length name

blur()^{N3,M4} focus()^{N3,M4} select

onBlur= onChange= onFocus= onKeyDown=N4,M4 onKeyPress=N4,M4 onKeyUp=N4,M4 onSelect=	2.		onClick= onMouseDown= ^{N4,M4} onMouseUp= ^{N4,M4}
oerauitvaiue pluf() form focus() typeN3.M4 select() value ⁽¹⁾	(1)Password value returns empty string in Navigator 2.	checkbox	checked click() defaultChecked handleEvent(evt) ^{N4} or name typeN3.M4
onBlur= onChange= onFocus=			eDown=N4,M4

	area	area ^{N3,M4}
hash	(None)	onClick=N4
host		onMouseOut=
hostname		onMouseOver=
href		
pathname		
port		
protocol		
search		
target		

onMouseDown=^{N4,M4} onMouseOut=^{N3,M4} onDblClick=N4,(1),M4

onMouseOver= onMouseUp=^{N4,M4}

3,M3	(None)	
applet ^{N3,M3}	Java vars) (Java methods)	
	Java vars)	

JavaScript has gone through three versions. The following browsers support features from the corresponding JavaScrint Java JavaScript Levels

corresponding Javascript lever:	JavaScript Level	vigator 2.0x 1.0	MS Internet Explorer 3.0x 1.0	vigator 3.0x 1.1	vigator 4.0x 1.2	MS Internet Explorer 4.0x 1.2
r gimpirod sa	Browser	Netscape Navigator 2.0x	MS Internet	Netscape Navigator 3.0x	Netscape Navigator 4.0x	MS Internet

vaScript.	
support Ja	
browsers	
mainstream	
No other	

	lagio	
checked	click()	onClick=
defaultChecked	defaultChecked handleEvent(evt)N4	onMouseDown=N4,M4
length		onMouseUp=N4,M4
name		
type ^{N3,M4}		
value		

fileUpload ^{N3,M4,(1)}	e blur() onBlur=	e focus() onFocus=	handleEvent(evt) ^{N4} onSelect=	select()
	name	/alue		

ا م ا	l
(tile4 does not use Netscape's "fileUpload" terminology, but both objects refer to the same kind of <input type="file"/> tag.	
both	
but	
terminology,	
"fileUpload" ="file"> tag.	
(1) IE4 does not use Netscape's "fileUp the same kind of <input type="file"/>	
ot us	
t does no ame kino	
(1) [E2	

	button, reset, submit	submit	checke
name	click()	onClick=	name
:ypeN3,M4	handleEvent(evt) ^{N4}	onMouseDown=N4,M4	type ^{N3,}
/alue		onMouseUp=N4,M4	value

options[i].text

Netscape Navigator 4 Global Objects

	Math
E	abs(val)
LN2	acos(val)
LN10	asin(val)
LOG2E	atan(<i>val</i>)
LOG10E	atan2(<i>val1</i> , <i>val2</i>)
PI	ceil(val)
SQRT1_2	cos(val)
SQRT2	exp(<i>val</i>)
	floor(val)
	log(val)
	max(val1, val2)
	min(val1, val2)
	pow(val1, power)
	random()
	round(val)
	sin(val)
	sqrt(val)
	tan(val)

prototypeN3	get/set[UTC]Date()
	get/set[UTC]Day()
	get/set[UTC]Hours()
	get/set[UTC]Minutes()
	get/set[UTC]Month()
	get/set[UTC]Seconds()
	get/set[UTC]Time()
	get/set[Full]Year()
	getTimezoneOffset()
	parse("dateString")
	toGMTString()
	toLocaleString()
	toString()
	UTC(date vals)

so	reen ^{N4,M4,(1)}
availHeight availLeft ⁽²⁾ availTop ⁽²⁾ availWidth colorDepth height width pixelDepth ⁽²⁾	(None)
(1)Contained by wind (2)Not in M4	dow object in M4

	String
length	anchor("anchorName")
prototypeN3	big()
	blink()
	bold()
	charAt(index)
	charCodeAt([/])N4,M4
	concat(string2)N4,M4
	fixed()
	fontcolor(#rrggbb)
	fontsize(1to7)
	fromCharCode(n1)N4,M4
	indexOf("str" [,i])
	italics()
	lastIndexOf("str" [,i])
	link(URL)
	match(regexp)N4,M4
	replace(regexp,str)N4,M4
	search(regexp)N4,M4
	slice(i,j)N4,J2
	small()
	split(char)N3,(1),M4
	strike()
	sub()
	substr(start,length)N4,M4
	substring(intA, intB)
	sup()
	toLowerCase()
	toUpperCase()
parameter; second	in N4 includes: ability to accept a regexp parameter (limit integer) to limit the

(1)Added behavior in N4 includes: ability to accept a regexp parameter; second parameter (limit integer) to limit the	
number of splits to be included; a space string parameter signifying any white space character.	

	Array ^{N3,J2}
length ¹² prototype ^{N3,J2}	concat(array2)N4,M4 join("char") ¹² push()N4 pop()N4 reverse() ¹² shift()N4 slice([[J])N4,M4 sort(compareFunc) ¹² unshift()N4

Numb	er ^{N3,J2}	
MAX_VALUE	toString()	
MIN_VALUE	-	
NaN		
NEGATIVE_INFINITY		
POSITIVE_INFINITY		
prototype		

	navigat	tor ⁽¹⁾	
appCodeName	javaEnal	oled()N3,M4	
appName		ice(name[,val]) ^h	14,(S),(2)
appVersion	taintEna	bled()N3,M4	
language ^{N4}			
mimeTypes[i]N3			
platform ^{N4}			
plugins[i] ^{N3} userAgent			
⁽¹⁾ Contained by window			
(2)Preference names: ge			
javascript.enabled; brow network.cookie.cookieBe			
HELWOIK.COOKIE.COOKIEDE	enavior; networ	K.COOKIE.WalliADOUIC	Jookies
	- 1		
plugin ^{N3}		mimeTy	/pe ^{N3}
	sh()	l —	/pe ^{N3}
plugin ^{N3} description refresfilename	sh()	mimeTy description enabledPlugi	(None)
description refre	sh()	description	(None)
description refre	sh()	description enabledPlugi	(None)
description refre- filename length	sh()	description enabledPlugi type	(None)
description refre- filename length name	nction ^{N3} ,	description enabledPlugi type suffixes	(None)
description refree filename length name	nction ^{N3,}	description enabledPlugi type suffixes	(None)
description refre- filename length name		description enabledPlugi type suffixes	(None)
description refree filename length name ful arguments[]	nction ^{N3,}	description enabledPlugi type suffixes	(Non

RegExp ^{N4,M4}		
input	(None)	
multiline		
lastMatch		
lastParen		
leftContext		
rightContext		
\$1\$9		

prototype

global	compile(regexp)
ignoreCase	exec("string")(1)
lastIndex	test("string")
source	str.match(regexp)(1)
	str.replace(regexp,str)(1)
	str.search(regexp)
	str.split(regexp[,limit]

Event ^l	N4	
ALT_MASK	(None)	
CONTROL_MASK	, ,	
SHIFT_MASK		
META_MASK		
MOUSEDOWN		
MOUSEUP		
MOUSEOVER		
MOUSEOUT		
MOUSEMOVE		
MOUSEDRAG		
CLICK		
DBLCLICK		
KEYDOWN		
KEYUP		
KEYPRESS DRAGDROP		
FOCUS		
BLUR		
SELECT		
CHANGE		
RESET		
SUBMIT		
SCROLL		
LOAD		
UNLOAD		
XFER DONE		
ABORT		
ERROR		
LOCATE		
MOVE		
RESIZE		
FORWARD		
HELP		
BACK		
		_

	event ^{N4}
data ⁽¹⁾ layerX layerY modifiers ⁽²⁾ pageX pageY screenX screenY target type which ⁽³⁾	(None)

(1)URL of dragdrop event (2)Event.ALT_MASK, Event.CONTROL_MASK, Event.SHIFT_MASK, Event.META_MASK (3)Mouse button (1=left; 3=right); Key char code

Operators			
Comparison ==	Equals		
= = !=	Does not equal		
>	Is greater than		
>=	Is greater than or equal to		
<	Is less than		
<=	Is less than or equal to		
	•		
Arithmetic			
+	Plus (and string concat.)		
- *	Minus		
	Multiply		
/ %	Divide Module		
70	Modulo Increment		
	Decrement		
-val	Negation		
, va,	Negation		
Assignment			
=	Equals		
+=	Add by value		
-=	Subtract by value		
*=	Multiply by value		
/=	Divide by value		
%=	Modulo by value		
<<=	Left shift by value		
>=	Right shift by value		
>>= &=	Zero fill by value Bitwise AND by value		
α= =	Bitwise OR by value		
\^=	Bitwise XOR by value		
	Similar New 29 value		
Boolean			
&&	AND		
	OR		
!	NOT		
Bitwise			
&	Bitwise AND		
lī	Bitwise OR		
^	Bitwise XOR		
~	Bitwise NOT		
<<	Left shift		
>>	Right shift		
>>>	Zero fill right shift		
Miscellaneous			
delete ^{N4,M4}	Property destroyer		
new	Object creator		
this	Object self-reference		
typeof ^{N3,M3}	Value type		
void ^{N3,M3}	Return no value		

Functions of All Objects watch(id, handler)^{N4} toString() unwatch(id)^{N4}

```
Control Statements
if (condition) {
    statementslfTrue
if (condition) {
     statementsIfTrue
     statementsIfFalse
result = condition ? expression1 : expression2
for ([init expr]; [condition]; [update expr]) {
    statements
for (var in object) {
     statements
while (condition) {
     statements
with (object) {
     statements
do {
     statements
} while (condition)N4,M4
switch (expression) {
     case label1:
          statements
          [break]
     case label2:
          statements
          [break]
     [default :
         statements]
}N4,M4
label: N4,M4
continue [label] N4,M4
break [label] N4,M4
```

```
| Global Functions

| escape("str" [,1]) | eval(expression) |
| unescape("str") | isNaN(expression) |
| Boolean(value)<sup>N4</sup> | parseFloat("string") |
| Number("str")<sup>N4</sup> | parseInt("string") |
| String(value)<sup>N4</sup> |
```