JavaScript Bible 4th Edition

Danny Goodman

Appendix A

JavaScript and Browser Objects

Quick Reference

JSB4

JavaScript and Browser Objects Quick Reference

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How to Use This Quick Reference

This guide contains quick reference info for the core JavaScript language, the original document object model (2 pp), the IE4+DHTML object model (4 pp), and the W3C DOM object model(4 pp) as implemented in IE5+ and NN6. All-uppercase object names refer to HTML elements (IE4+ and W3C DOMs). The three columns in each box list the object's properties, methods, and event handlers in that order. Read the compatibility guides for each section.

Numbers in the upper right corners of object squares are chapter numbers in which the object is covered in detail.

Basic browser and operating system notation codes are as follows:
N — Netscape Navigator   IE — MS Internet Explorer
W — Win32 OS   M — Macintosh OS

See the accompanying file for printing and collating instructions in booklet or broadside configurations.

Operators 40

Comparison
==	Equals
=== N4, IE4	Strictly equals
!=	Does not equal
!== N4, IE4	Strictly 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
%	Modulo
++	Increment
--	Decrement
-val	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
|=	Bitwise OR by value
^=	Bitwise XOR by value

Boolean
&&	AND
||	OR
!	NOT

Bitwise
&	Bitwise AND
		Bitwise OR
^	Bitwise XOR
~	Bitwise NOT
<<	Left shift
>>	Right shift
>>>	Zero fill right shift

Miscellaneous
,	Series delimiter
delete N4, IE4	Property destroyer
in N6, IE5.5	Item in object
instanceof N6,W5	Instance of
new	Object creator
this	Object self-reference
typeof N3, IE3	Value type
void N3, IE3	Return no value

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style IE4,N6 30

Text & Fonts
color IE4, N6
font IE4, N6
fontFamily IE4, N6
fontSize IE4, N6
fontSizeAdjust M5, N6
fontStretch M5, N6
fontStyle IE4, N6
fontVariant IE4, N6
fontWeight IE4, N6
letterSpacing IE4, N6
lineBreak IE5
lineHeight IE4, N6
quotes M5, N6
rubyAlign IE5
rubyOverhang IE5
rubyPosition IE5
textAlign IE4, N6
textAlignLast IE5.5
textAutospace W5
textDecoration IE4, N6
textDecorationBlink IE-Only
textDecorationLineThrough IE-Only
textDecorationNone IE-Only
textDecorationOverline IE-Only
textDecorationUnderline IE-Only
textIndent IE4, N6
textJustify IE5
textJustifyTrim IE5
textKashidaSpace IE5.5
textShadow M5, N6
textTransform IE4, N6
textUnderlinePosition IE5.5
unicodeBidi IE5, N6
whiteSpace IE4, N6
wordBreak W5
wordSpacing IE4, N6
wordWrap IE5.5
writingMode IE5.5

Positioning
bottom IE5, N6
height IE4, N6
left IE4, N6
right IE5, N6
top IE4, N6
width IE4, N6
pixelBottom IEW-Only
pixelHeight IE-Only
pixelLeft IE-Only
pixelRight IEW-Only
pixelTop IE-Only
pixelWidth IE-Only
posBottom IEW-Only
posHeight IE-Only
posLeft IE-Only
posRight IEW-Only
posTop IE-Only
posWidth IE-Only
position IE4, N6
zIndex IE4, N6

Borders & Edges
border IE4, N6
borderBottom IE4, N6
borderLeft IE4, N6
borderRight IE4, N6
borderTop IE4, N6
borderBottomColor IE4, N6
borderLeftColor IE4, N6
borderRightColor IE4, N6
borderTopColor IE4, N6
borderBottomStyle IE4, N6
borderLeftStyle IE4, N6
borderRightStyle IE4, N6
borderTopStyle IE4, N6
borderBottomWidth IE4, N6
borderLeftWidth IE4, N6
borderRightWidth IE4, N6
borderTopWidth IE4, N6
borderColor IE4, N6
borderStyle IE4, N6
borderWidth IE4, N6
margin IE4, N6
marginBottom IE4, N6
marginLeft IE4, N6
marginRight IE4, N6
marginTop IE4, N6
outline M5, N6
outlineColor M5, N6
outlineStyle M5, N6
outlineWidth M5, N6
padding IE4, N6
paddingBottom IE4, N6
paddingLeft IE4, N6
paddingRight IE4, N6
paddingTop IE4, N6

Tables
borderCollapse M5, N6
borderSpacing M5, N6
captionSide M5, N6
emptyCells M5, N6
tableLayout IE5, N6

Lists
listStyle IE4, N6
listStyleImage IE4, N6
listStylePosition IE4, N6
listStyleType IE4, N6

Background
background IE4, N6
backgroundAttachment IE4, N6
backgroundColor IE4, N6
backgroundImage IE4, N6
gackgroundPosition IE4, N6
backgroundPositionX IE-Only
backgroundPositionY IE-Only
backgroundRepeat IE4, N6

Inline Display & Layout
clear IE4, N6
clip IE4, N6
clipBottom W5
clipLeft W5
clipRight W5
clipTop W5
content M5, N6
counterIncrement M5, N6
counterReset M5, N6
cssFloat M5, N6
cursor IE4, N6
direction IE5, N6
display IE4, N6
filter W4
floatStyle M4
layoutGrid W5
layoutGridChar W5
layoutGridLine W5
layoutGridMode W5
layoutGridType W5
markerOffset M5, N6
marks M5, N6
maxHeight M5, N6
maxWidth M5, N6
minHeight M5, N6
minWidth M5, N6
overflow IE4, N6
overflowX W5
overflowY W5
styleFloat IE-Only
verticalAlign IE4, N6
visibility IE4, N6
width IE4, N6
zoom IE5.5

Printing
orphans M5, N6
widows M5, N6
page M5, N6
pageBreakAfter IE4, N6
pageBreakBefore IE4, N6
pageBreakInside M5, N6
size N6

Miscellaneous
accelerator W5
behavior W5
cssText IE4, N6
imeMode W5

Scrollbars
scrollbar3dLightColor IE5.5
scrollbarArrowColor IE5.5
scrollbarBaseColor IE5.5
scrollbarDarkShadowColor IE5.5
scrollbarFaceColor IE5.5
scrollbarHighlightColor IE5.5
scrollbarShadowColor IE5.5
scrollbarTrackColor IE5.5

Core JavaScript/JScript/ECMAScript (NN2+, IE3+) Quick Reference

Array [N3,J2] — 37

constructor [N4, IE4]	concat(array2) [N4, IE4]
length	join(" char ")
prototype	push() [N4, IE5.5]
	pop() [N4, IE5.5]
	reverse()
	shift() [N4, IE5.5]
	slice(i[,j]) [N4, IE4]
	sort(compareFunc)
	splice(i,j[, items]) [N4, IE5.5]
	toLocaleString() [N6, IE5.5]
	toString() [N4, IE5.5]
	unshift() [N4, IE5.5]

Date — 36

constructor [N4, IE4]	getFullYear() [N4, J2]
prototype [N3, IE4]	getYear()
	getMonth()
	getDate()
	getDay()
	getHours()
	getMinutes()
	getSeconds()
	getTime()
	getMilliseconds() [N4, J2]
	getUTCFullYear() [N4, J2]
	getUTCMonth() [N4, J2]
	getUTCDate() [N4, J2]
	getUTCDay() [N4, J2]
	getUTCHours() [N4, J2]
	getUTCMinutes() [N4, J2]
	getUTCSeconds() [N4, J2]
	getUTCMilliseconds() [N4, J2]
	setYear(val)
	setFullYear(val) [N4, J2]
	setMonth(val)
	setDate(val)
	setDay(val)
	setHours(val)
	setMinutes(val)
	setSeconds(val)
	setMilliseconds(val) [N4, J2]
	setTime(val)
	setUTCFullYear(val) [N4, J2]
	setUTCMonth(val) [N4, J2]
	setUTCDate(val) [N4, J2]
	setUTCDay(val) [N4, J2]
	setUTCHours(val) [N4, J2]
	setUTCMinutes(val) [N4, J2]
	setUTCSeconds(val) [N4, J2]
	setUTCMilliseconds(val) [N4, J2]
	getTimezoneOffset()
	toDateString() [IE5.5]
	toGMTString()
	toLocaleDateString() [IE5.5, N6]
	toLocaleString()
	toLocaleTimeString() [IE5.5, N6]
	toString()
	toTimeString() [IE5.5]
	toUTCString() [N4, J2]
	Date.parse(" dateString ")
	Date.UTC(date values)

String — 34

constructor [N4, IE4]	anchor(" anchorName ")
length	big()
prototype [N4, J2]	blink()
	bold()
	charAt(index)
	charCodeAt([i,j]) [N4, IE4]
	concat(string2) [N4, IE4]
	fixed()
	fontcolor(# rrggbb)
	fontsize (1to7)
	fromCharCode(n1...y)[1),N4, IE4]
	indexOf(" str " [,j])
	italics()
	lastIndexOf(" str " [,j])
	link(URL)
	localeCompare() [N6, IE5.5]
	match(regexp) [N4, IE4]
	replace(regexp,str) [N4, IE4]
	search(regexp) [N4, IE4]
	slice(i,j) [N4, IE4]
	small()
	split(char) [N3, (2), IE4]
	strike()
	sub()
	substr(start,length) [N4, IE4]
	substring(intA, intB)
	sup()
	toLocaleLowerCase() [N6, IE5.5]
	toLocaleUpperCase() [N6, IE5.5]
	toLowerCase()
	toString() [N4, IE4]
	toUpperCase()
	valueOf() [N4, IE4]

Math [(1)] — 35

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

(1) All properties & methods are of the static Math object.

Number [N3,J2] — 35

constructor [N4, IE4]	toExponential(n) [N6, IE5.5]
MAX_VALUE	toFixed(n) [N6, IE5.5]
MIN_VALUE	toLocaleString() [N6, IE5.5]
NaN	toString([radix]) [N4, IE4]
NEGATIVE_INFINITY	toPrecision(n) [N6, IE5.5]
POSITIVE_INFINITY	valueOf() [N4, IE4]
prototype	

Function [N3,J2] — 41

arguments	apply(this , argsArray) [N6, IE5.5]
arity [N4]	call(this [, arg1[,....argN]]) [N6, IE5.5]
caller [(1)]	toString()
constructor [N4, IE4]	valueOf()
length	
prototype	

(1) Discontinued for N6.

Globals — 42

Functions

decodeURI(" encodedURI ") [N6, IE5.5]
decodeURIComponent(" encComp ") [N6, IE5.5]
encodeURI(" URIString ") [N6, IE5.5]
encodeURIComponent(" compString ") [N6, IE5.5]
escape(" string " [,1])
eval(" string ")
isFinite(number) [N4, IE4]
isNaN(expression)
Number(string) [N4, IE4]
parseFloat(" string ")
parseInt(" string " [, radix])
toString([radix])
unescape(" string ") [N6]
unwatch(prop) [N4]
watch(prop, handler) [N4]

Statements

// /* ...*/
const [N6]
var

Regular Expressions [N4,IE4] — 38

global	compile(regexp)
ignoreCase	exec(" string ") [(2)]
input [(1), IE5.5]	test(" string ")
lastIndex	str.match(regexp)
multiline [(1), IE5.5]	str.replace(regexp,str)
lastMatch [(1), IE5.5]	str.search(regexp)
lastParen [(1), IE5.5]	str.split(regexp[,limit])
leftContext [(1), IE5.5]	
prototype	
rightContext [(1)]	
source	
$1...$9	

(1) Property of the static RegExp object.
(2) Returns an array with properties: index, input, [0], [1]...[n].

(1) Method of the static String object.
(2) 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 while space character.

Boolean [N3,J2] — 35

constructor [N4, IE4]	toString() [N4, IE4]
prototype	valueOf() [N4, IE4]

Control Statements — 39

```
if (condition ) {
    statementsIfTrue
}

if (condition ) {
    statementsIfTrue
} else {
    statementsIfFalse
}

result = condition ? expr1 : expr2

for ([init expr]; [condition]; [update expr]) {
    statements
}

for (var in object ) {      with (object) {
    statements                  statements
}                           }

while (condition ) {      do {
    statements                statements
}                         } while (condition ) [N4, IE4]

switch (expression ) {
    case labelN :
        statements
        [break]
    ...
    [default :
        statements ]
} [N4, IE4]

label : [N4, IE4]
continue [ label ] [N4, IE4]
break [ label ] [N4, IE4]

try {
    statements to test
}
[catch (errorInfo) {
    statements if exception occurs in try block
}]
[finally {
    statements to run, exception or not
}] [N6, W5]

throw value [N6, W5]
```

Error [N6,W5] — 39

prototype	toString()
constructor [W5]	
description [W5]	
fileName [N6]	
lineNumber [N6]	
message [N6, IE5.5]	
name [N6, IE5.5]	
number [W5]	