

### Regular Expressions Syntax

^	Start of string
\$	End of string
.	Any single character
(a b)	a or b
(...)	Group section
[abc]	In range (a, b or c)
[^abc]	Not in range
\s	White space
a?	Zero or one of a
a*	Zero or more of a
a*?	Zero or more, ungreedy
a+	One or more of a
a+?	One or more, ungreedy
a{3}	Exactly 3 of a
a{3,}	3 or more of a
a{,6}	Up to 6 of a
a{3,6}	3 to 6 of a
a{3,6}?	3 to 6 of a, ungreedy
\	Escape character
[punct:]	Any punctuation symbol
[space:]	Any space character
[blank:]	Space or tab

There's an excellent regular expression tester at: <http://regexpal.com/>

### Pattern Modifiers

g	Global match
i *	Case-insensitive
m *	Multiple lines
s *	Treat string as single line
x *	Allow comments and whitespace in pattern
e *	Evaluate replacement
U *	Ungreedy pattern
*	PCRE modifier

### JavaScript Event Handlers

onAbort	onMouseDown
onBlur	onMouseMove
onChange	onMouseOut
onClick	onMouseOver
onDbClick	onMouseUp
onDragDrop	onMove
onError	onReset
onFocus	onResize
onKeyDown	onSelect
onKeyPress	onSubmit
onKeyUp	onUnload
onLoad	

### JavaScript RegExp Object

compile()	lastParen
exec()	leftContext
global	multiline
ignoreCase	rightContext
input	source
lastIndex	test()
lastMatch	

### JavaScript Numbers and Maths

abs()	min()
acos()	NEGATIVE_INFINITY
asin()	PI
atan()	POSITIVE_INFINITY
atan2()	pow()
ceil()	random()
cos()	round()
E	sin()
exp()	sqrt()
floor()	SQRT1_2
LN10	SQRT2
LN2	tan()

### JavaScript Numbers and Maths (cont)

log()	toSource()
LOG10E	toExponential()
LOG2E	toFixed()
max()	toPrecision()
MAX_VALUE	toString()
MIN_VALUE	valueOf()
NaN	

### JavaScript Functions

decodeURI()	isNaN()
decodeURIComponent()	Number()
encodeURI()	parseFloat()
encodeURIComponent()	parseInt()
escape()	String()
eval()	unescape()
isFinite()	

### JavaScript Strings

charAt()	slice()
charCodeAt()	split() x
concat()	substr()
fromCharCode()	substring()
indexOf()	toLowerCase()
lastIndexOf()	toUpperCase()
length	toLocaleLowerCase()
localeCompare()	toLocaleUpperCase()
match() x	toSource()
replace() x	valueOf()
search() x	

String object methods with an x support regular expressions.



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### JavaScript Arrays

concat()	slice()
join()	sort()
length	splice()
pop()	toSource()
push()	toString()
reverse()	unshift()
shift()	valueOf()

### JavaScript Dates

Date()	setMonth()
getDate()	setFullYear()
getDay()	setHours()
getMonth	setMinutes()
getFullYear	setSeconds()
getYear	setMilliseconds()
getHours	setTime()
getMinutes	setUTCDate()
getSeconds	setUTCDay()
getMilliseconds	setUTCMonth()
getTime	setUTCFullYear()
getTimezoneOffset()	setUTCHours()
getUTCDate()	setUTCMinutes()
getUTCDay()	setUTCSeconds()
getUTCMonth()	setUTCMilliseconds()
getUTCFullYear()	toSource()
getUTCHours()	toString()
getUTCMinutes()	toGMTString()
getUTCSeconds()	toUTCString()
getUTCMilliseconds()	toLocaleString()
parse()	UTC()
setDate()	valueOf()

### JavaScript Booleans

toSource()	valueOf()
toString()	

### Event Handlers

onabort	The user aborted loading the page
onblur	The user left the object
onchange	The user changed the object
onclick	The user clicked an object
onerror	The script encountered an error
onfocus	The user made an object active
onload	The object finished loading
onmouseover	The cursor moved over an object
onmouseout	The cursor moved off an object
onselect	The user selected the contents of an object
onsubmit	The user submitted a form
onunload	The user left the page
onmove	The window is moved
onmousedown	A mouse button is pressed down
onmouseup	A mouse button is released
onmousemove	The mouse moves
ondblclick	A double click of a mouse button
onclick	A single click (down and then up) of a mouse button
onreset	A reset button is clicked on a form
onkeydown	Triggered when a key is pressed down

### Event Handlers (cont)

onkeyup	Triggered when a key is released
onkeypress	Triggered when a key is pressed and then released

### Value Types

Number	Any numeric value
String	Characters inside quote marks
Boolean	True or False
Null	Empty and meaningless
Object	Any value associated with the object
Function	Value returned by a function

### Operators

x + y (numeric)	Adds x and y together
x + y (string)	Concatinates x and y together
x - y	Subtracts y from x
x * y	Multiplies x and y together
x / y	Divides x by y
x % y	Modulus: The remainder when x is divided by y
x++, ++x	Adds one to x
x--, --x	Subtracts one from x
-x	Reverses the sign on x

### Assignments

x = y	Sets x to the value of y
x += y	Same as x = x + y
x -= y	Same as x = x - y
x *= y	Same as x = x * y
x /= y	Same as x = x / y
x %= y	Same as x = x % y



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### Comparisons

<code>x == y</code>	Returns true if x and y are equal
<code>x === y</code>	Returns true if x and y are identical
<code>x != y</code>	Returns true if x and y are not equal
<code>x !== y</code>	Returns true if x and y are not identical
<code>x &gt; y</code>	Returns true if x is greater than y
<code>x &gt;= y</code>	Returns true if x is greater than or equal to y
<code>x &lt; y</code>	Returns true if x is less than y
<code>x &lt;= y</code>	Returns true if x is less than or equal to y
<code>x &amp;&amp; y</code>	Returns true if both x and y are true
<code>x    y</code>	Returns true if either x or y are true
<code>!x</code>	Returns true if x is false

### Adding to an array

<code>.length</code> property	Adds one value to the end of an array
<code>push()</code>	Adds one or more items to the end of an array
<code>unshift()</code>	Adds one or more items to the beginning of an array.

### Remove item from an array

<code>pop()</code>	Removes the last item from the array
<code>shift()</code>	Removes the first item from the array

### Misc

<code>parseInt()</code>	Takes a value and tries to convert it to an integer
<code>isNaN()</code>	Returns true if something is not a number.
<code>setTimeout()</code>	Specify that an action should occur on a particular schedule
<code>Math.floor</code>	Rounds a number down
<code>Math.random</code>	Generates a random number between 0 and 1
<code>getElementsByName()</code>	
<code>getElementById()</code>	
<code>getElementsByClassName()</code>	
<code>element.innerHTML</code>	returns all the HTML between the opening and closing tags
<code>element.nodeType</code>	property, returns the number of the node type
<code>element.childNodes</code>	A node list of child nodes that are indexed numerically, and appear in source order.
<code>element.childNodes.length</code>	Returns the number of child nodes of the element



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