



n Number() = 42

PROPERTIES

- n**.POSITIVE_INFINITY +∞ equivalent
- n**.NEGATIVE_INFINITY -∞ equivalent
- n**.MAX_VALUE largest positive value
- n**.MIN_VALUE smallest positive value
- n**.EPSILON diff between 1 & smallest >1
- n**.NaN not-a-number value

METHODS

- s**.toExponential(**dec**) exp. notation
- s**.toFixed(**dec**) fixed-point notation
- s**.toPrecision(**p**) change precision
- b**.isFinite(**n**) check if number is finite
- b**.isInteger(**n**) check if number is int.
- b**.isNaN(**n**) check if number is NaN
- n**.parseInt(**s**, **radix**) string to integer
- n**.parseFloat(**s**, **radix**) string to float

r Regexp() = ./+/ig

PROPERTIES

- n**.lastIndex index to start global regexp
- s**.flags active flags of current regexp
- b**.global flag g (search all matches)
- b**.ignoreCase flag i (match lower/upper)
- b**.multiline flag m (match multiple lines)
- b**.sticky flag y (search from lastIndex)
- b**.unicode flag u (enable unicode feat.)
- s**.source current regexp (w/o slashes)

METHODS

- a**.exec(**str**) exec search for a match
- b**.test(**str**) check if regexp match w/str

CLASSES

- . any character \t tabulator
- \d digit [0-9] \r carriage return
- \D no digit [^0-9] \n line feed
- \w any alphanumeric char [A-Za-z0-9_]
- \W no alphanumeric char [^A-Za-z0-9_]
- \s any space char (space, tab, enter...)
- \S no space char (space, tab, enter...)
- \xN char with code N [b] backspace
- \uN char with unicode N \0 NUL char

d Date()

METHODS

- n**.UTC(**y**, **m**, **d**, **h**, **i**, **s**, **ms**) timestamp
- n**.now() timestamp of current time
- n**.parse(**str**) convert str to timestamp
- n**.setTime(**ts**) set UNIX timestamp
- n**.getTime() return UNIX timestamp

UNIT GETTERS / SETTERS (ALSO .getUTC*() / .setUTC*())

- n**.get / .setFullYear(**y**, **m**, **d**) (yyyy)
- n**.get / .setMonth(**m**, **d**) (0-11)
- n**.get / .setDate(**d**) (1-31)
- n**.get / .setHours(**h**, **m**, **s**, **ms**) (0-23)
- n**.get / .setMinutes(**m**, **s**, **ms**) (0-59)
- n**.get / .setSeconds(**s**, **ms**) (0-59)
- n**.get / .setMilliseconds(**ms**) (0-999)
- n**.getDay() return day of week (0-6)

LOCALE & TIMEZONE METHODS

- n**.getTimezoneOffset() offset in mins
- s**.toLocaleDateString(**locale**, **options**)
- s**.toLocaleTimeString(**locale**, **options**)
- s**.toLocaleString(**locale**, **options**)
- s**.toUTCString() return UTC date
- s**.toDateString() return American date
- s**.toTimeString() return American time
- s**.toISOString() return ISO8601 date
- s**.toJSON() return date ready for JSON

CHARACTER SETS OR ALTERNATION

- [**abc**] match any character set
- [^**abc**] match any char. set not enclosed
- a|b** match a or b

BOUNDARIES

- ^ begin of input \$ end of input
- \b zero-width word boundary
- \B zero-width non-word boundary

GROUPING

- (**x**) capture group (?**x**) no capture group
- \n reference to group **n** captured

QUANTIFIERS

- x*** preceding **x** 0 or more times {0,}
- x+** preceding **x** 1 or more times {1,}
- x?** preceding **x** 0 or 1 times {0,1}
- x{n}** **n** occurrences of **x**
- x{n,}** at least **n** occurrences of **x**
- x{n,m}** between **n** & **m** occurrences of **x**

ASSERTIONS

- x(=?y)** **x** (only if **x** is followed by **y**)
- x(?!y)** **x** (only if **x** is not followed by **y**)

s String() = 'text'

PROPERTIES

- n**.length string size

METHODS

- s**.charAt(**index**) char at position [**i**]
- n**.charCodeAt(**index**) unicode at pos.
- n**.codePointAt(**index**) cp at position
- s**.fromCharCode(**n1**, **n2**...) code to char
- s**.fromCodePoint(**n1**, **n2**...) cp to char
- s**.concat(**str1**, **str2**...) combine text +
- b**.startsWith(**str**, **size**) check beginning
- b**.endsWith(**str**, **size**) check ending
- b**.includes(**str**, **from**) include substring?
- n**.indexOf(**str**, **from**) find substr index
- n**.lastIndexOf(**str**, **from**) find from end
- n**.search(**regex**) search & return index
- n**.localeCompare(**str**, **locale**, **options**)
- a**.match(**regex**) matches against string
- a**.matchAll(**regex**) return iterator w/all
- s**.normalize(**form**) unicode normalize
- s**.padEnd(**len**, **pad**) add end padding
- s**.padStart(**len**, **pad**) add start padding
- s**.repeat(**n**) repeat string n times
- s**.replace(**str**|**regex**, **newstr**|**func**)
- s**.slice(**ini**, **end**) str between ini/end
- s**.substr(**ini**, **len**) substr of len length
- s**.substring(**ini**, **end**) substr fragment
- a**.split(**sep**|**regex**, **limit**) divide string
- s**.toLowerCase() string to lowercase
- s**.toUpperCase() string to uppercase
- s**.trim() remove space from begin/end
- s**.trimEnd() remove space from end
- s**.trimStart() remove space from begin
- s**.raw`` template strings with \${vars}

f Function() = function(a, b) { ... }

PROPERTIES

- n**.length return number of arguments
- s**.name return name of function
- o**.prototype prototype object

METHODS

- o**.call(**newthis**, **arg1**, **arg2**...) change **this**
- o**.apply(**newthis**, **arg1**) with args array
- o**.bind(**newthis**, **arg1**, **arg2**...) bound func

LEGEND

- n** number
- f** function
- s** string
- b** boolean (true/false)
- a** array
- d** date
- r** regular expression
- o** object
- u** undefined

available on ECMAScript 2015 or higher

n static (ex: Math.random())

n non-static (ex: new Date().getDate())

argument required

argument optional

a Array() = [1, 2, 3]

PROPERTIES

- n**.length number of elements

METHODS

- b**.isArray(**obj**) check if obj is array
- b**.includes(**obj**, **from**) include element?
- n**.indexOf(**obj**, **from**) find elem. index
- n**.lastIndexOf(**obj**, **from**) find from end
- s**.join(**sep**) join elements w/separator
- a**.slice(**ini**, **end**) return array portion
- a**.concat(**obj1**, **obj2**...) return joined array
- a**.flat(**depth**) return flat array at n depth

MODIFY SOURCE ARRAY METHODS

- a**.copyWithin(**pos**, **ini**, **end**) copy elems
- a**.fill(**obj**, **ini**, **end**) fill array with obj
- a**.reverse() reverse array & return it
- a**.sort(**cf(a,b)**) sort array (unicode sort)
- a**.splice(**ini**, **del**, **o1**, **o2**...) del&add elem

ITERATION METHODS

- a**.entries() iterate key/value pair array
- a**.keys() iterate only keys array
- a**.values() iterate only values array

CALLBACK FOR EACH METHODS

- b**.every(**cb(e,i,a)**, **arg**) test until false
- b**.some(**cb(e,i,a)**, **arg**) test until true
- a**.map(**cb(e,i,a)**, **arg**) make array
- a**.filter(**cb(e,i,a)**, **arg**) make array w/true
- o**.find(**cb(e,i,a)**, **arg**) return elem w/true
- n**.findIndex(**cb(e,i,a)**, **arg**) return index
- a**.flatMap(**cb(e,i,a)**, **arg**) map + flat(1)
- o**.forEach(**cb(e,i,a)**, **arg**) exec for each
- o**.reduce(**cb(p,e,i,a)**, **arg**) accumulative
- o**.reduceRight(**cb(p,e,i,a)**, **arg**) from end

ADD/REMOVE METHODS

- o**.pop() remove & return last element
- n**.push(**o1**, **o2**...) add elem & return length
- o**.shift() remove & return first element
- n**.unshift(**o1**, **o2**...) add elem & return len

UNSHIFT ← [1,2,3] → PUSH
SHIFT ← [1,2,3] → POP

LEGEND

- n** number
- f** function
- s** string
- b** boolean (true/false)
- a** array
- d** date
- r** regular expression
- o** object
- u** undefined

available on ECMAScript 2015 or higher

n static (ex: Math.random())

n non-static (ex: new Date().getDate())

argument required

argument optional

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Math

PROPERTIES

- n**.E Euler's constant
- n**.LN2 natural logarithm of 2
- n**.LN10 natural logarithm of 10
- n**.LOG2E base 2 logarithm of E
- n**.LOG10E base 10 logarithm of E
- n**.PI ratio circumference/diameter
- n**.SQRT1_2 square root of 1/2
- n**.SQRT2 square root of 2

METHODS

- n**.abs(x) absolute value
- n**.cbrt(x) cube root
- n**.clz32(x) return leading zero bits (32)
- n**.exp(x) return e^x
- n**.expm1(x) return e^x-1
- n**.hypot(x1, x2...) length of hypotenuse
- n**.imul(a, b) signed multiply
- n**.log(x) natural logarithm (base e)
- n**.log1p(x) natural logarithm (1+x)
- n**.log10(x) base 10 logarithm
- n**.log2(x) base 2 logarithm
- n**.max(x1, x2...) return max number
- n**.min(x1, x2...) return min number
- n**.pow(base, exp) return base^{exp} **
- n**.random() float random number [0,1)
- n**.sign(x) return sign of number
- n**.sqrt(x) square root of number

ROUND METHODS

- n**.ceil(x) superior round (smallest)
- n**.floor(x) inferior round (largest)
- n**.fround(x) nearest single precision
- n**.round(x) round (nearest integer)
- n**.trunc(x) remove fractional digits

TRIGONOMETRIC METHODS	HYPERBOLIC METHODS
n .acos(x) arccosine	n .acosh(x)
n .asin(x) arcsine	n .asinh(x)
n .atan(x) arctangent	n .atanh(x)
n .cos(x) cosine	n .cosh(x)
n .sin(x) sine	n .sinh(x)
n .tan(x) tangent	n .tanh(x)

n.atan2(x, y) arctangent of quotient x/y

BigInt() = 9007199254740992n

ES Modules modules

METHODS

```
import {m1, m2 as name} from "./file.js"
import obj from "./file.js" default import
export {m1, m2} export objs as modules
import("./file.js") dynamic import
```

JSON

json file manipulation

METHODS

- n**.parse(str, tf(k,v)) parse string to object
- n**.stringify(obj, repf|wl, sp) convert to str

Error()

PROPERTIES

- s**.name return name of error
- s**.message return description of error

EvalError(), InternalError(), RangeError(), URIError(), ReferenceError(), SyntaxError(), TypeError()

Object()

= {key: value, key2: value2}

PROPERTIES

- o**.constructor return ref. to object func.

METHODS

- o**.assign(dst, src1, src2...) copy values
- o**.create(proto, prop) create obj w/prop
- o**.defineProperties(obj, prop)
- o**.defineProperty(obj, prop, desc)
- o**.freeze(obj) avoid properties changes
- o**.getOwnPropertyDescriptor(obj, prop)
- a**.getOwnPropertyNames(obj)
- a**.getOwnPropertySymbols(obj)
- o**.getPrototypeOf(obj) return prototype
- b**.is(val1, val2) check if are same value
- b**.isExtensible(obj) check if can add prop
- b**.isFrozen(obj) check if obj is frozen
- b**.isSealed(obj) check if obj is sealed
- a**.keys(obj) return only keys of object
- o**.preventExtensions(obj) avoid extend
- o**.seal(obj) prop are non-configurable
- o**.setPrototypeOf(obj, prot) change prot

INSTANCE METHODS

- b**.hasOwnProperty(prop) check if exist
- b**.isPrototypeOf(obj) test in another obj
- b**.propertyIsEnumerable(prop)
- s**.toString() return equivalent string
- s**.toLocaleString() return locale version
- o**.valueOf() return primitive value

Promise()

async / await async functions

METHODS

- p**.all(obj) return promise
- p**.catch(onRejected(s)) = .then(undef,s)
- p**.finally(onFinish()) exec callback always
- p**.then(onFulfilled(v), onRejected(s))
- p**.race(obj) return greedy promise (res/rej)
- p**.resolve(obj) return resolved promise
- p**.reject(reason) return rejected promise
- p**.allSettled(obj) return all fulfill/reject

Proxy()

Reflect same methods (not func)

METHODS

- o**.apply(obj, arg, arglist) trap function call
- o**.construct(obj, arglist) trap new oper
- o**.defineProperty(obj, prop, desc)
- o**.deleteProperty(obj, prop) trap delete
- o**.enumerate(obj) trap for...in
- o**.get(obj, prop, rec) trap get property
- o**.getOwnPropertyDescriptor(obj, prop)
- o**.getPrototypeOf(obj)
- o**.has(obj, prop) trap in operator
- o**.ownKeys(obj)
- o**.preventExtensions(obj)
- o**.set(obj, prop, value) trap set property
- o**.setPrototypeOf(obj, proto)

Symbol()

PROPERTIES

- s**.iterator specifies default iterator
- s**.match specifies match of regexp
- s**.species specifies constructor function

METHODS

- s**.for(key) search existing symbols
- s**.keyFor(sym) return key from global reg

Set()

WeakSet only obj as items

PROPERTIES

- n**.size return number of items

METHODS

- s**.add(item) add item to set **ws**
- b**.has(item) check if item exists **ws**
- b**.delete(item) del item & return if del **ws**
- o**.clear() remove all items from set

ITERATION METHODS

- si**.entries() iterate items
- si**.values() iterate only value of items

CALLBACK FOR EACH METHODS

- o**.forEach(cb(e,i,a), arg) exec for each

Map()

WeakMap only obj as keys

PROPERTIES

- n**.size return number of elements

METHODS

- m**.set(key, value) add pair key=value **wm**
- o**.get(key) return value of key **wm**
- b**.has(key) check if key exist **wm**
- b**.delete(key) del elem. & return if ok **wm**
- o**.clear() remove all elements from map

ITERATION METHODS

- m**.entries() iterate elements
- m**.keys() iterate only keys
- m**.values() iterate only values

CALLBACK FOR EACH METHODS

- o**.forEach(cb(e,i,a), arg) exec for each

Generator()

= function* () { ... }

METHODS

- o**.next(value) return obj w/{value,done}
- o**.return(value) return value & true done
- o**.throw(except) throw an error

globals

includes isFinite, isNaN, parseInt & parseFloat

METHODS

- o**eval(str) evaluate javascript code
- s**encodeURIComponent(URI) = to %3D
- s**decodeURIComponent(URI) %3D to =

Others

VARIABLE / CONSTANT DECLARATIONS

```
var deprecated variable
let block scope
const declare constant (read-only)
```

OPERATORS

- ?? nullish coalescing operator
- ? optional chaining

FAST TIPS

- func(a=1) default parameter value
- func(...a) rest argument (spread operator)
- (a) => { ... } function fat arrow (w/o this)
- `string \${a}` template with variables
- 0bn binary (2) number n to decimal
- 0on octal (8) number n to decimal
- 0xn hexadecimal (16) number n to decimal
- for (i in array) { ... } iterate array, i = index
- for (e of array) { ... } iterate array, e = value
- class B extends A () {} class sugar syntax

window = Browser global object

PROPERTIES

- b**.closed check if window is closed
- n**.devicePixelRatio ratio vertical size pix
- b**.fullScreen check if window is fullscreen
- n**.innerWidth width size (incl. scrollbar)
- n**.innerHeight height size (incl. scrollbar)
- n**.outerWidth width size (incl. browser)
- n**.outerHeight height size (incl. browser)
- n**.length number of frames
- s**.name inner name of window
- s**.status bottom statusbar text

API/OBJECTS PROPERTIES

- o**.applicationCache offline resources API
- o**.console console browser API
- o**.crypto cryptographic API
- o**.history session page history API
- o**.location information about URL API
- o**.localStorage storage for site domain
- o**.sessionStorage storage until closed
- o**.navigator information about browser
- o**.performance data about performance

SCREEN PROPERTIES

- o**.screen information about screen
- n**.screenX horizontal pos browser/screen
- n**.screenY vertical pos browser/screen
- n**.pageXOffset horizontal pixels scrolled
- n**.pageYOffset vertical pixels scrolled

WINDOW PROPERTIES

- o**.opener window that opened this window
- o**.parent parent of current window/frame
- o**.self this window (equal to .window)
- o**.top top window of current win/frame

METHODS

- s**.btoa(str) encode string to base64
- s**.atob(str) decode base64 string to text
- z**.focus() request send window to front
- z**.blur() remove focus from window
- o**.getSelection(id) return Selection object
- z**.postMessage(msg, dst, transf) send
- o**.open(url, name, options) open popup
- z**.stop() stop window loading
- b**.find(str, case, back, wrap, word, fr, d)
- z**.print() open print document window

ANIMATION METHODS

- n**.requestAnimationFrame(cb(n))
- z**.cancelAnimationFrame(reqID)

TIMER METHODS

- n**.setTimeout(f(a...), ms, a...) delay&run
- z**.clearTimeout(id) remove timeout
- n**.setInterval(f(a...), ms, a...) run every
- z**.clearInterval(id) remove interval

SCREEN METHODS

- z**.scrollBy(x, y) scroll x,y pixels (relative)
- z**.scrollTo(x, y) scroll x,y pixels (absolute)
- z**.moveBy(x, y) move window by x,y (rel)
- z**.moveTo(x, y) move window to x,y (abs)
- z**.resizeBy(x, y) resize win by x,y (rel)
- z**.resizeTo(w, h) resize win to WxH (abs)

STYLESHEET METHODS

- o**.getComputedStyle(elem, pseudoelem)
- a**.matchMedia(mediaq) match CSSMQ

screen = info about screen / resolution

PROPERTIES

- n**.availTop top-from space available
- n**.availLeft left-from space available
- n**.availWidth width space available
- n**.availHeight height space available
- n**.width screen width resolution
- n**.height screen height resolution
- n**.colorDepth screen color depth (bits)
- n**.pixelDepth screen pixel depth (bits)

METHODS

- b**.lockOrientation(mode|modearray)
- b**.unlockOrientation() remove locks

console = unofficial console browser API

METHODS

- z**.assert(cond, str1|obj1...) set a assert
- z**.count(str) count (show number times)
- z**.dir(obj) show object (expanded debug)
- z**.group() open new message group
- z**.groupCollapsed() open new group coll.
- z**.groupEnd() close previous group
- z**.table(array|obj, colnames) show table
- z**.trace() show code trace
- z**.timeStamp(str) put time on timeline

PERFORMANCE METHODS

- z**.profile(name) start performance profile
- z**.profileEnd(name) stop perf. profile
- z**.time(name) start performance timer
- z**.timeEnd(name) stop perf. timer

LOG LEVEL METHODS

- z**.log(str1|obj1...) output message
- z**.info(str1|obj1...) output information
- z**.warn(str1|obj1...) output warning
- z**.error(str1|obj1...) output error

window = global interaction func.

METHODS

USER INTERACTION METHODS

- z**.alert(str) show message (ok button)
- s**.prompt(str, def) ask answer to user
- b**.confirm(str) show message (ok, cancel)

history = page history on tab

PROPERTIES

- n**.length number of pages in historytab
- n**.state return state top history stack

METHODS

- z**.back() go prev page (same as .go(-1))
- z**.forward() go next page (same as .go(1))
- z**.go(n) go n page (positive or negative)
- z**.pushState(obj, title, url) insert state
- z**.replaceState(obj, title, url) repl. state

storage localStorage / sessionStorage

PROPERTIES

- n**.length number of items in storage

METHODS

- s**.key(n) return key name on position n
- s**.getItem(key) return value of item key
- z**.setItem(key, value) set or update key
- z**.removeItem(key) delete item with key
- z**.clear() delete all items for current site

performance = info about performance

PROPERTIES

- o**.navigation info about redir/type nav.
- o**.timing info about latency-load perf.

METHODS

- n**.now() high precision timestamp

navigator = info about browser

PROPERTIES

- b**.cookieEnabled browser cookies on?
- n**.doNotTrack DNT privacy enabled?
- o**.geolocation user-info geolocation
- s**.language language in browser
- n**.maxTouchPoints max on device
- b**.onLine browser work in online mode?
- s**.userAgent identify browser of user

METHODS

- n**.vibrate(n|pattern) use device vibration

location = info about current URL

PROPERTIES

- s**.href full document url
- s**.protocol <https://www.emezeta.com/>
- s**.username <https://user:pass@www>
- s**.password <https://user:pass@www>
- s**.host <https://emezeta.com:81/>
- s**.hostname <https://emezeta.com:81/>
- s**.port <https://emezeta.com:81/>
- s**.pathname <http://emezeta.com/42/>
- s**.hash <http://emezeta.com/#contacto>
- s**.search <http://google.com/?q=emezeta>
- o**.searchParams search params object
- s**.origin source origin of document url

onClick="..." (HTML) .onclick = (JS func) 'click' (Listener)

e events (only popular events)

MOUSE EVENTS

- e**.onClick
- e**.onMouseDown
- e**.onMouseEnter
- e**.onMouseMove
- e**.onMouseOut
- e**.onDbIcClick
- e**.onMouseUp
- e**.onMouseLeave
- e**.onMouseOver
- e**.onWheel

KEYBOARD EVENTS

- e**.onKeyDown
- e**.onKeyPress
- e**.onKeyUp

LOAD/OBJECT EVENTS

- e**.onDOMContentLoaded
- e**.onLoad
- e**.onAbort
- e**.onError
- e**.onResize
- e**.onScroll
- e**.onBeforeUnload
- e**.onUnload

FORM/FIELDS EVENTS

- e**.onBlur
- e**.onChange
- e**.onInvalid
- e**.onReset
- e**.onFocus
- e**.onInput
- e**.onSelect
- e**.onSubmit

ANIMATION/TRANSITION EVENTS

- e**.onDragEnter
- e**.onDragStart
- e**.onDragOver
- e**.onDragLeave
- e**.onDragEnd
- e**.onDrag e.onDrop

ANIMATION/TRANSITION EVENTS

- e**.onAnimationStart
- e**.onAnimationEnd
- e**.onAnimationIteration
- e**.transitionEnd

d document = Document object

PROPERTIES

- s** .characterSet document charset
- s** .compatMode quirks or standard mode
- s** .cookie return all cookies doc string
- s** .designMode return design mode status
- s** .dir return direction text: "rtl" or "ltr"
- s** .doctype return document type (DTD)
- s** .domain return document domain
- s** .documentURI return document URL
- s** .lastModified return date/time modific.
- s** .origin return document's origin
- s** .readyState return current load status
- s** .referrer return previous page (referrer)
- s** .title return document title
- s** .URL return HTML document URL
- o** .location information about URL

ELEMENTS PROPERTIES

- o** .activeElement focused element
- o** .body return body element
- o** .currentScript return active script
- o** .defaultView return window element
- o** .documentElement first element (root)
- o** .head return head element
- o** .scrollingElement first scrollable elem.

DOCUMENT ARRAY PROPERTIES

- a** .anchors array of images elements
- a** .applets array of applets elements
- a** .embeds array of embeds elements
- a** .forms array of forms elements
- a** .images array of images elements
- a** .links array of links elements
- a** .plugins array of plugins elements
- a** .scripts array of scripts elements

STYLESHEET PROPERTIES

- a** .styleSheets array of style files elem
- o** .preferredStyleSheetSet preferred css
- o** .selectedStyleSheetSet selected css

METHODS

- o** .adoptNode(**node**) adopt from ext doc
- o** .createAttribute(**name**) create Attr obj
- o** .createDocumentFragment()
- o** .createElement(**tag**) create Element obj
- o** .createEvent(**type**) create Event object
- o** .createRange() create Range object
- o** .createTextNode(**text**) create TextNode
- o** .enableStyleSheetsForSet(**name**)
- o** .importNode(**node**, **desc**) import copy
- o** .getElementById(**id**) find elem with id
- a** .getElementsByName(**name**) w/ name
- o** .getSelection(**id**) return Selection object

r ClientRect() = Coords of element

PROPERTIES

- n** .top top coord of surrounding rect
- n** .right right coord of surrounding rect
- n** .bottom bottom coord of surrounding r.
- n** .left left coord of surrounding rect
- n** .width width coord of surrounding rect
- n** .height height coord of surrounding r.

e Element() = Element object

PROPERTIES

- s** .accessKey if exist, shortcut key
- o** .attributes array of Attr objects
- o** .classList DOMTokenList of classes
- s** .className classes list to string
- s** .id id string of element
- s** .name name string of element
- s** .tagName HTML tag of element

POSITION, SIZE AND SCROLL PROPERTIES

- n** .clientTop top border width element
- n** .clientLeft left border width element
- n** .clientWidth inner width element
- n** .clientHeight inner height element
- n** .scrollTop top-position in document
- n** .scrollLeft left-position in document
- n** .scrollWidth width of element
- n** .scrollHeight height of element

GET/SET HTML CODE PROPERTIES

- s** .innerHTML get/set HTML inside elem
- s** .outerHTML get/set HTML (incl. elem)

METHODS

- o** .closest(**selec**) closest ancestor
- a** .getElementsByClassName(**class**)
- a** .getElementsByTagName(**tag**)
- o** .querySelector(**selec**) return first elem
- a** .querySelectorAll(**selec**) return elems
- b** .matches(**selec**) match with this elem?
- .insertAdjacentHTML(**posstr**, **html**)

ATTRIBUTE METHODS

- b** .hasAttributes() exists attributes?
- b** .hasAttribute(**name**) exist attribute?
- s** .getAttribute(**name**) return value
- .removeAttribute(**name**) del attribute
- .setAttribute(**name**, **value**) set attrib.

CLIENTRECT (POSITION AND SIZES) METHODS

- o** .getBoundingClientRect() return pos.
- a** .getClientRects() return pos/size array

e Event() = Event on action

PROPERTIES

- b** .bubbles true=bubble, false=captures
- b** .cancelable event is cancelable?
- o** .currentTarget current element
- b** .defaultPrevented preventDefault() call
- n** .detail additional event info
- n** .eventPhase current stage (0-3)
- b** .isTrusted user action or dispatched
- o** .target reference to dispatched object
- n** .timeStamp time when was created
- s** .type type of event

METHODS

- .preventDefault() cancel event
- .stopImmediatePropagation()
- .stopPropagation() prevent being called

t EventTarget (use over elements)

METHODS

- .addEventListener(**ev**, **cb(ev)**, **capt**)
- .removeEventListener(**ev**, **cb(ev)**, **capt**)
- b** .dispatchEvent(**ev**)

a Attr() = Attribute object

PROPERTIES

- s** .name name of element attribute
- s** .value value of element attribute

t DOMTokenList() = List of classes

PROPERTIES

- n** .length number of items

METHODS

- b** .contains(**item**) check if item exists
- .add(**item**) add item to list
- s** .item(**n**) return item number **n**
- .remove(**item**) del item from list
- b** .toggle(**item**) del item if exist, add else

n Node() = Minor element (elem. or text)

PROPERTIES

- s** .baseURI absolute base URL of node
- s** .namespaceURI namespace of node
- s** .nodeName name of node
- s** .nodeType 1=element, 2=text, 9=doc
- s** .nodeValue value of node
- s** .prefix namespace prefix of node
- s** .textContent text of node and children

NAVIGATION PROPERTIES

- o** .childNodes children nodes collection
- o** .firstChild first children (include text)
- o** .lastChild last children (include text)
- o** .nextSibling immediate next node
- o** .previousSibling immediate prev node
- o** .parentElement immediate parent elem
- o** .parentNode immediate parent node
- o** .ownerDocument return document

METHODS

- o** .appendChild(**node**) add node to end
- o** .cloneNode(**child**) duplicate node
- o** .compareDocumentPosition(**node**)
- b** .contains(**node**) node is descendant?
- b** .hasChildNodes() node has childs?
- o** .insertBefore(**newnode**, **node**)
- b** .isDefaultNamespace(**nsURI**)
- b** .isEqualNode(**node**) check if are equal
- s** .lookupNamespaceURI() ret namesp.
- s** .lookupPrefix() return prefix for a ns
- .normalize() normalize-form children
- o** .removeChild(**node**) del node & return
- o** .replaceChild(**newnode**, **oldnode**)

c ChildNode()

METHODS

- o** .remove() remove specified node

p ParentNode()

PROPERTIES

- n** .childElementCount number of children
- o** .children children elements
- o** .firstElementChild first children elem.
- o** .lastElementChild last children elem.

n NonDocumentTypeChildNode()

PROPERTIES

- o** .nextElementSibling next element
- o** .previousElementSibling prev element