Document Object Model (DOM)

The **Document Object Model (*DOM*)** connects web pages to scripts or programming languages. Usually that means JavaScript, but modelling HTML, SVG, or XML documents as objects is not part of the JavaScript language. The DOM model represents a document with a logical tree. Each branch of the tree ends in a node, and each node contains objects. DOM methods allow programmatic access to the tree; with them you can change the document's structure, style or content. Nodes can have event handlers attached to them. Once an event is triggered, the event handlers get executed.

An introduction to the DOM is available.

DOM interfaces

Attr	EventTarget
CharacterData	HTMLCollection
ChildNode ⚗	MutationObserver
Comment	MutationRecord
CustomEvent	Node
Document	NodeFilter
DocumentFragment	NodeIterator
DocumentType	NodeList
DOMError	ParentNode ⚗
DOMException	ProcessingInstruction
DOMImplementation	Range
DOMString	Text
DOMTimeStamp	TreeWalker
DOMSettableTokenList	URL
DOMStringList	Window
DOMTokenList	Worker
Element	XMLDocument ⚗
Event	

Obsolete DOM interfaces 🗑

The Document Object Model has been highly simplified. To achieve this, the following interfaces present in the different DOM level 3 or earlier specification have been removed. It is still not very clear whether some may be reintroduced or not, but for the time being they have to be considered as obsolete and should be avoided:

CDATASection	Entity
DOMConfiguration	EntityReference
DOMErrorHandler	NamedNodeMap
DOMImplementationList	NameList
DOMImplementationRegistry	Notation
DOMImplementationSource	TypeInfo
DOMLocator	UserDataHandler
DOMObject	
DOMUserData	

HTML interfaces

A document containing HTML is described using the HTMLDocument interface. Note that the HTML specification also extends the Document interface.

An HTMLDocument object also gives access to various features of browsers like the tab or the window, in which a page is drawn using the Window interface, the Style associated to it (usually CSS), the history of the browser relative to the context, History. Eventually, Selection is done on the document.

HTML element interfaces

HTMLAnchorElement	HTMLDataElement
HTMLAppletElement	HTMLDataListElement
HTMLAreaElement	HTMLDialogElement
HTMLAudioElement	HTMLDirectoryElement
HTMLBaseElement	HTMLDivElement
HTMLBodyElement	HTMLDListElement
HTMLBRElement	HTMLElement
HTMLButtonElement	HTMLEmbedElement
HTMLCanvasElement	HTMLFieldSetElement

HTMLFontElement

HTMLFormElement

HTMLFrameElement

HTMLFrameSetElement

HTMLHeadElement

HTMLHeadingElement

HTMLHtmlElement

HTMLHRElement

HTMLIFrameElement

HTMLImageElement

HTMLInputElement

HTMLKeygenElement

HTMLLabelElement

HTMLLegendElement

HTMLLIElement

HTMLLinkElement

HTMLMapElement

HTMLMediaElement

HTMLMenuElement

HTMLMetaElement

HTMLMeterElement

HTMLModElement

HTMLObjectElement

HTMLOListElement

HTMLOptGroupElement

HTMLOptionElement

HTMLOutputElement

HTMLParagraphElement

HTMLParamElement

HTMLPreElement

HTMLProgressElement

HTMLQuoteElement

HTMLScriptElement

HTMLSelectElement

HTMLSourceElement

HTMLSpanElement

HTMLStyleElement

HTMLTableElement

HTMLTableCaptionElement

HTMLTableCellElement

HTMLTableDataCellElement

HTMLTableHeaderCellElement

HTMLTableColElement

HTMLTableRowElement

HTMLTableSectionElement

HTMLTextAreaElement

HTMLTimeElement

HTMLTitleElement

HTMLTrackElement

HTMLUListElement

HTMLUnknownElement

HTMLVideoElement

Other interfaces

CanvasRenderingContext2D

CanvasGradient

CanvasPattern

TextMetrics

ImageData

CanvasPixelArray

NotifyAudioAvailableEvent

HTMLAllCollection

HTMLFormControlsCollection

HTMLOptionsCollection

HTMLPropertiesCollection   MediaError

DOMStringMap

RadioNodeList

Obsolete HTML interfaces 🗑

HTMLBaseFontElement

HTMLIsIndexElement

SVG interfaces

SVG element interfaces

SVGAElement   SVGFEDiffuseLightingElement

SVGAltGlyphElement 👎   SVGFEDisplacementMapElement

SVGAltGlyphDefElement 👎   SVGFEDistantLightElement

SVGAltGlyphItemElement 👎   SVGFEDropShadowElement

SVGAnimationElement   SVGFEFloodElement

SVGAnimateElement   SVGFEFuncAElement

SVGAnimateColorElement 👎   SVGFEFuncBElement

SVGAnimateMotionElement   SVGFEFuncGElement

SVGAnimateTransformElement   SVGFEFuncRElement

SVGCircleElement   SVGFEGaussianBlurElement

SVGClipPathElement   SVGFEImageElement

SVGColorProfileElement 👎   SVGFEMergeElement

SVGComponentTransferFunctionElement   SVGFEMergeNodeElement

SVGCursorElement   SVGFEMorphologyElement

SVGDefsElement   SVGFEOffsetElement

SVGDescElement   SVGFEPointLightElement

SVGElement   SVGFESpecularLightingElement

SVGEllipseElement   SVGFESpotLightElement

SVGFEBlendElement   SVGFETileElement

SVGFEColorMatrixElement   SVGFETurbulenceElement

SVGFEComponentTransferElement   SVGFilterElement

SVGFECompositeElement   SVGFilterPrimitiveStandardAttributes

SVGFEConvolveMatrixElement   SVGFontElement 👎

SVGFontFaceElement 🗨

SVGFontFaceFormatElement 👎

SVGFontFaceNameElement 🗨

SVGFontFaceSrcElement 🗨

SVGFontFaceUriElement 🗨

SVGForeignObjectElement

SVGGElement

SVGGeometryElement

SVGGlyphElement 🗨

SVGGlyphRefElement 🗨

SVGGradientElement

SVGGraphicsElement

SVGHatchElement ⚗

SVGHatchpathElement ⚗

SVGHKernElement 🗨

SVGImageElement

SVGLinearGradientElement

SVGLineElement

SVGMarkerElement ⚗

SVGMaskElement

SVGMeshElement ⚗

SVGMeshGradientElement ⚗

SVGMeshpatchElement ⚗

SVGMeshrowElement ⚗

SVGMetadataElement

SVGMissingGlyphElement 🗨

SVGMPathElement

SVGPathElement

SVGPatternElement

SVGPolylineElement

SVGPolygonElement

SVGRadialGradientElement

SVGRectElement

SVGScriptElement

SVGSetElement

SVGSolidcolorElement ⚗

SVGStopElement

SVGStyleElement

SVGSVGElement

SVGSwitchElement

SVGSymbolElement

SVGTextContentElement

SVGTextElement

SVGTextPathElement

SVGTextPositioningElement

SVGTitleElement

SVGTRefElement 🗨

SVGTSpanElement

SVGUseElement

SVGUnknownElement ⚗

SVGViewElement

SVGVKernElement 🗨

SVG data type interfaces

Here are the DOM API for data types used in the definitions of SVG properties and attributes.

> 🗐 **Note:** Starting in Gecko 5.0, the following SVG-related DOM interfaces representing lists of objects are now indexable and can be accessed ; in addition, they have a length

> property indicating the number of items in the lists: SVGLengthList,
> SVGNumberList, SVGPathSegList, and SVGPointList.

Static type

SVGAngle

SVGColor 🗨

SVGICCColor 🗨

SVGElementInstance

SVGElementInstanceList

SVGLength

SVGLengthList

SVGMatrix 🗨

SVGNameList

SVGNumber

SVGNumberList

SVGPaint

SVGPathSeg 🗨

SVGPathSegClosePath 🗨

SVGPathSegMovetoAbs 🗨

SVGPathSegMovetoRel 🗨

SVGPathSegLinetoAbs 🗨

SVGPathSegLinetoRel 🗨

SVGPathSegCurvetoCubicAbs 🗨

SVGPathSegCurvetoCubicRel 🗨

SVGPathSegCurvetoQuadraticAbs 🗨

SVGPathSegCurvetoQuadraticRel 🗨

SVGPathSegArcAbs 🗨

SVGPathSegArcRel 🗨

SVGPathSegLinetoHorizontalAbs 🗨

SVGPathSegLinetoHorizontalRel 🗨

SVGPathSegLinetoVerticalAbs 🗨

SVGPathSegLinetoVerticalRel 🗨

SVGPathSegCurvetoCubicSmoothAbs 🗨

SVGPathSegCurvetoCubicSmoothRel 🗨

SVGPathSegCurvetoQuadraticSmoothAbs 🗨

SVGPathSegCurvetoQuadraticSmoothRel 🗨

SVGPathSegList 🗨

SVGPoint 🗨

SVGPointList 🗨

SVGPreserveAspectRatio

SVGRect 🗨

SVGStringList

SVGTransform

SVGTransformList

Animated type

SVGAnimatedAngle

SVGAnimatedBoolean

SVGAnimatedEnumeration

SVGAnimatedInteger

SVGAnimatedLength

SVGAnimatedLengthList

SVGAnimatedNumber

SVGAnimatedNumberList

SVGAnimatedPathData 🗨

SVGAnimatedPoints

SVGAnimatedPreserveAspectRatio

SVGAnimatedRect

SVGAnimatedString

SVGAnimatedTransformList

SMIL related interfaces

ElementTimeControl

TimeEvent

Other SVG interfaces

GetSVGDocument

ShadowAnimation

SVGColorProfileRule

SVGCSSRule

SVGDocument

SVGException

SVGExternalResourcesRequired

SVGFitToViewBox

SVGLangSpace

SVGLocatable

SVGRenderingIntent

SVGStylable

SVGTests

SVGTransformable

SVGUnitTypes

SVGUseElementShadowRoot

SVGURIReference

SVGViewSpec

SVGZoomAndPan

SVGZoomEvent

See also

- DOM Examples