MDN web docs
moz://a

Q   **Sign in**

English ▾

Document Object Model (DOM)

The **Document Object Model** (**DOM**) connects web pages to scripts or programming languages by representing the structure of a document—such as the HTML representing a web page—in memory. Usually, that means JavaScript, although modeling HTML, SVG, or XML documents as objects are not part of the core JavaScript language, as such.

The DOM 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 also have event handlers attached to them. Once an event is triggered, the event handlers get executed.

> **To learn more** about what the DOM is and how it represents documents, see our article Introduction to the DOM.

DOM interfaces

Attr	DocumentType
CDATASection	DOMError
CharacterData	DOMException
ChildNode	DOMImplementation
Comment	DOMString
CustomEvent	DOMTimeStamp
Document	DOMStringList
DocumentFragment	DOMTokenList

Element   ProcessingInstruction

Event   Selection

EventTarget   Range

HTMLCollection   Text

MutationObserver   TextDecoder

MutationRecord   TextEncoder

NamedNodeMap   TimeRanges

Node   TreeWalker

NodeFilter   URL

NodeIterator   Window

NodeList   Worker

NonDocumentTypeChildNode   XMLDocument

ParentNode

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 specifications have been removed. It is uncertain whether some may be reintroduced in the future or not, but for the time being they should be considered obsolete and should be avoided:

DocumentTouch   DOMUserData

DOMConfiguration   ElementTraversal

DOMErrorHandler   Entity

DOMImplementationList   EntityReference

DOMImplementationRegistry   NameList

DOMImplementationSource   Notation

DOMLocator   TypeInfo

DOMObject   UserDataHandler

DOMSettableTokenList

HTML DOM

A document containing HTML is described using the `Document` interface, which is extended by the HTML specification to include various HTML-specific features. In particular, the `Element` interface is enhanced to become `HTMLElement` and various subclasses, each representing one of (or a family of closely related) elements.

The HTML DOM API provides access to various browser features such as tabs and windows, CSS styles and stylesheets, browser history, and so forth. These interfaces are discussed further in the HTML DOM API documentation.

SVG interfaces

SVG element interfaces

SVGAElement

SVGAltGlyphElement

SVGAltGlyphDefElement

SVGAltGlyphItemElement

SVGAnimationElement

SVGAnimateElement

SVGAnimateColorElement

SVGAnimateMotionElement

SVGAnimateTransformElement

SVGCircleElement

SVGClipPathElement

SVGColorProfileElement

SVGComponentTransferFunctionElement

SVGCursorElement

SVGDefsElement

SVGDescElement

SVGElement

SVGEllipseElement

SVGFEBlendElement

SVGFEColorMatrixElement

SVGFEComponentTransferElement

SVGFECompositeElement

SVGFEConvolveMatrixElement

SVGFEDiffuseLightingElement

SVGFEDisplacementMapElement

SVGFEDistantLightElement

SVGFEDropShadowElement

SVGFEFloodElement

SVGFEFuncAElement

SVGFEFuncBElement

SVGFEFuncGElement

SVGFEFuncRElement

SVGFEGaussianBlurElement

SVGFEImageElement

SVGFEMergeElement

SVGFEMergeNodeElement

SVGFEMorphologyElement

SVGFEOffsetElement

SVGFEPointLightElement

SVGFESpecularLightingElement

SVGFESpotLightElement

SVGFETileElement

SVGFETurbulenceElement

SVGFilterElement

SVGFilterPrimitiveStandardAttributes

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   SVGViewElement

SVGTSpanElement   SVGVKernElement

SVGUseElement

SVGUnknownElement

SVG data type interfaces

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

Static type

SVGAngle   SVGPathSegCurvetoQuadraticRel

SVGColor   SVGPathSegArcAbs

SVGICCColor   SVGPathSegArcRel

SVGElementInstance   SVGPathSegLinetoHorizontalAbs

SVGElementInstanceList   SVGPathSegLinetoHorizontalRel

SVGLength   SVGPathSegLinetoVerticalAbs

SVGLengthList   SVGPathSegLinetoVerticalRel

SVGMatrix   SVGPathSegCurvetoCubicSmoothAbs

SVGNameList   SVGPathSegCurvetoCubicSmoothRel

SVGNumber   SVGPathSegCurvetoQuadraticSmoothAbs

SVGNumberList   SVGPathSegCurvetoQuadraticSmoothRel

SVGPaint   SVGPathSegList

SVGPathSeg   SVGPoint

SVGPathSegClosePath   SVGPointList

SVGPathSegMovetoAbs   SVGPreserveAspectRatio

SVGPathSegMovetoRel   SVGRect

SVGPathSegLinetoAbs   SVGStringList

SVGPathSegLinetoRel   SVGTransform

SVGPathSegCurvetoCubicAbs   SVGTransformList

SVGPathSegCurvetoCubicRel

SVGPathSegCurvetoQuadraticAbs

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

Specifications

Specification	Status	Comment
DOM	LS Living Standard	

See also

- DOM Examples
- CSS Object Model (CSSOM)

Last modified: Jun 24, 2020, by MDN contributors

Related Topics

Document Object Model

▼ Guides

Introduction to the DOM

Using the W3C DOM Level 1 Core

Traversing an HTML table with JavaScript and DOM Interfaces

Locating DOM elements using selectors

How to create a DOM tree

Events and the DOM

How whitespace is handled by HTML, CSS, and in the DOM

Examples of web and XML development using the DOM

▼ Interfaces

AbortController

AbortSignal

AbstractRange

Attr

ByteString

CDATASection

CharacterData

ChildNode

CSSPrimitiveValue

CSSValue

CSSValueList

Comment

CustomEvent

Document

DocumentFragment

DocumentType

DOMConfiguration

DOMError

DOMErrorHandler

DOMException

DOMImplementation

DOMImplementationList

DOMImplementationRegistry

DOMImplementationSource

DOMLocator

DOMObject

DOMParser

DOMPoint

DOMPointInit

DOMPointReadOnly

DOMRect

DOMString

DOMTimeStamp

DOMTokenList

DOMUserData

Element

ElementTraversal

Entity

EntityReference

Event

EventTarget

HTMLCollection

MutationObserver

Node

NodeFilter

NodeIterator

NodeList

NonDocumentTypeChildNode

ProcessingInstruction

PromiseResolver

Range

StaticRange

Text

TextDecoder

TextEncoder

TimeRanges

TreeWalker

TypeInfo

UserDataHandler

USVString

XMLDocument

X

Learn the best of web development

Get the latest and greatest from MDN delivered straight to your inbox.

you@example.com

Sign up now