

UNIT II – DOM

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Document Object

- Each HTML document loaded into a browser window becomes a Document object.
- The Document object provides access to all HTML elements in a page, from within a script.
- The Document object is also part of the Window object, and can be accessed through the window.document property.

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HTML DOM Objects

- Document
- Events
- Elements
- Anchor
- Area
- Base
- Body
- Button
- Form
- Frame
- Frameset

- Image
- Button
- Checkbox
- File
- Hidden
- Password
- Radio
- Reset
- Submit
- Text
- Link

- Meta
- Object
- Option
- Select
- Style
- Table
- Td / Th
- Tr
- Textarea

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DOM Tree Example

- The HTML DOM defines a standard way for accessing and manipulating HTML documents.
- The DOM presents an HTML document as a tree-structure.

Document

Root element:  
<html>

Element:  
<head>

Element:  
<body>

Element:  
<title>

Attribute:  
"href"

Element:  
<a>

Element:  
<h1>

Text:  
"My title"

Text:  
"My link"

Text:  
"My header"

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## Document Object Collections

- ❖ **anchors[]** → Returns an array of all the anchors in the document
- ❖ **forms[]** → Returns an array of all the forms in the document
- ❖ **images[]** → Returns an array of all the images in the document
- ❖ **links[]** → Returns an array of all the links in the document

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## Document Object Properties

- **cookie** → Returns all name/value pairs of cookies in the document
- **documentMode** → Returns the mode used by the browser to render the document
- **domain** → Returns the domain name of the server that loaded the document
- **lastModified** → Returns the date and time the document was last modified
- **readyState** → Returns the (loading) status of the document
- **referrer** → Returns the URL of the document that loaded the current document
- **title** → Sets or returns the title of the document
- **URL** → Returns the full URL of the document

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## Document Object Methods

- **close()** → Closes the output stream previously opened with document.open()
- **getElementById()** → Accesses the first element with the specified id
- **getElementsByName()** → Accesses all elements with a specified name
- **getElementsByTagName()** → Accesses all elements with a specified tagname
- **open()** → Opens an output stream to collect the output from document.write() or document.writeln()
- **write()** → Writes HTML expressions or JavaScript code to a document
- **writeln()** → Same as write(), but adds a newline character after each statement

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