

Window and DOM Manipulations in JS

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<https://sakshat.ac.in>

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Learning Objectives

In this tutorial, we will learn about:



Learning Objectives

In this tutorial, we will learn about:

▶ `Window Object`



Learning Objectives

In this tutorial, we will learn about:

- ▶ Window Object
- ▶ Document **and** DOM **Manipulations in JS**



System Specifications

This tutorial is recorded using:



System Specifications

This tutorial is recorded using:

▶ **Ubuntu Linux OS version 18.04**



System Specifications

This tutorial is recorded using:

- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **Visual Studio Code version 1.51.1**
(code editor)



System Specifications

This tutorial is recorded using:

- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **Visual Studio Code version 1.51.1**
(code editor)
- ▶ **Firefox Web Browser**



Prerequisites



Prerequisites

- ▶ You should be familiar with writing and executing JS files



Prerequisites

- ▶ You should be familiar with writing and executing JS files
- ▶ If not, please go through the prerequisite tutorials on <https://spoken-tutorial.org>



Code Files

- ▶ The files used in this tutorial are available in the [Code files link](#) on this tutorial page



Code Files

- ▶ The files used in this tutorial are available in the `Code files` link on this tutorial page
- ▶ Please download and extract the files



Code Files

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- ▶ Please download and extract the files
- ▶ Make a copy and then use them for practicing



DOM

► DOM - Document Object Model



DOM

- ▶ DOM - Document Object Model
- ▶ **Each and every tab in a browser is a document**



DOM

- ▶ DOM - Document Object Model
- ▶ **Each and every tab in a browser is a document**
- ▶ **A document is an object**



DOM

- ▶ **All the HTML elements declared inside an HTML page is a part of the document object**



DOM

- ▶ **All the HTML elements declared inside an HTML page is a part of the document object**
- ▶ **The DOM represents the document with a logical tree**



DOM

- ▶ `getElementById` is a function in the document object



DOM

- ▶ `getElementById` **is a function in the** document object
- ▶ **The function takes the** HTML element ID **as a parameter**



DOM

- ▶ `getElementById` **is a function in the** document object
- ▶ **The function takes the** HTML element ID **as a parameter**
- ▶ **Returns the element with the ID in** the document



DOM

- ▶ `innerText` **and** `innerHTML` **are** properties **for** **the** element **in** **the** DOM



DOM

- ▶ `innerText` **and** `innerHTML` **are** properties **for** **the** element **in** **the** DOM
- ▶ `innerText` **returns the text value for the** element



DOM

- ▶ `innerText` **and** `innerHTML` **are** properties **for** **the** element **in** the DOM
- ▶ `innerText` **returns** the text value for the element
- ▶ `innerHTML` **returns** the HTML element value **for** the element



DOM



DOM

- ▶ <https://developer.mozilla.org/en-US/docs/Web/API/Document>



Summary

In this tutorial, we have learnt about:

- ▶ Window Object
- ▶ Document **and** DOM Manipulations **in** JS



Assignment

- ▶ **Open the file** `MyPage.html`
- ▶ **Clear the existing code**
- ▶ **Add a `h1` tag with id as `heading1` for the text**
`HTML is loaded!`



Assignment

- ▶ **Open the file `assignment.js`**
- ▶ **Clear the existing code**
- ▶ **Access the `h1` element using `id`**
- ▶ **Modify the text as**

Both HTML and JS are Loaded!



Assignment

- ▶ **Open the file `MyPage.html` in a web browser**
- ▶ **Observe the output in the browser**



About Spoken Tutorial project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Answers for THIS Spoken Tutorial

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer
- ▶ You will have to register to ask questions



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Thank you

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