

Events and Event Listeners in JS

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<https://sakshat.ac.in>

Jayesh Katta Ramalingaiah
Full Stack Developer

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Learning Objectives

In this tutorial, we will learn about:



Learning Objectives

In this tutorial, we will learn about:

▶ **Events**



Learning Objectives

In this tutorial, we will learn about:

- ▶ Events
- ▶ **Adding** Event Listeners



Learning Objectives

In this tutorial, we will learn about:

- ▶ Events
- ▶ **Adding** Event Listeners
- ▶ **Removing** Event Listeners 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



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- ▶ 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



Events

- ▶ **Events are actions or occurrences that happen in the browser window**



Events

- ▶ Events are actions or occurrences that happen in the browser window
- ▶ On any such occurrence, we can handle that event and perform a desired action



Events

- ▶ DOM events are sent to notify code that have taken place



Events

- ▶ DOM events **are sent to notify** code **that have taken place**
- ▶ **Each** event **is represented by an object**



Events

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



Adding & Removing Event Listeners

- ▶ **Every HTML element can be added with an Event Listener**



Adding & Removing Event Listeners

- ▶ To add an event listener, **programmatically** we use the `addEventListener` method



Adding & Removing Event Listeners

- ▶ To add an event listener, **programmatically we use the `addEventListener` method**
- ▶ To remove an event listener, **programmatically we use the `removeEventListener` method**



Summary

In this tutorial, we have learnt:

- ▶ Events
- ▶ **Adding** Event Listeners
- ▶ **Removing** Event Listeners in JS



Assignment

- ▶ **Open the file** `MyPage.html`
- ▶ **Clear the existing code**
- ▶ **Add a button named** `Click` **with id as** `click`



Assignment

- ▶ **Open the file** `assignment.js`
- ▶ **Clear the existing code**
- ▶ **Access the button element using id**
- ▶ **Add a event listener**
- ▶ **On even button clicks, log - Foo**
- ▶ **On odd button clicks, log - Bar**



Assignment

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



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

Jayesh Katta Ramalingaiah
Full Stack Developer

<https://www.linkedin.com/in/jayeshkattar>

