How to use Javascript in HTML

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:

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- ▶ **The different approaches to use** Javascript (JS) **with** HTML

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In this tutorial, we will learn about:

- **The different approaches to use** `Javascript (JS)` **with** `HTML`
- **When to use each approach**

System Specifications

This tutorial is recorded using:

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▶ **Ubuntu Linux OS version 18.04**

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- ▶ **Visual Studio Code version 1.51.1 (code editor)**

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- ▶ **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 have some basic knowledge on** HTML

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- **You should have some basic knowledge on** HTML
- **Basic understanding of concepts of any programming language**

Prerequisites

▶ **If not then please go through the** HTML **and any programming language series on https://spoken-tutorial.org**

Prerequisites

▶ **You should have an internet connection to install the necessary packages**

Code Files

► **The files used in this tutorial are available in the** `Code files` **link on this tutorial page**

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▶ **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**

Approaches to use JS with HTML

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▶ **First approach is embedding** JS **in** HTML

Approaches to use JS with HTML

▶ **First approach is embedding** JS **in** HTML

▶ **Second approach is importing an external** JS **file**

Embedding JS in HTML

▶ **We need to write** JS **code in between** `script tags` **in the** HTML **file**

Embedding JS in HTML

▶ **We need to write** JS **code in between** `script tags` **in the** HTML **file**

▶ **The** `script tag` **should be written after the last** HTML **element in the** `body tag`

Embedding JS in HTML

▶ **Adding** `script tag` **after the last** `element` **in the** `body tag` **is a preferred way but not the only way**

Embedding JS in HTML

▶ **Adding** `script tag` **after the last** `element` **in the** `body tag` **is a preferred way but not the only way**

▶ **This depends on when we want the** `JS` **to load**

IDE - Extension

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► **We would be using an extension called** `Live Server` **in** `VS Code`

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▶ **This would help us in** `hot reload`

IDE - Extension

▶ **This means that any code change is automatically reflected on the browser when we save the file**

Importing External JS File

Importing External JS File

- **We will create a new** JS **file, and write** JS **code in the file**

Importing External JS File

▶ **We will create a new** JS **file, and write** JS **code in the file**

▶ **Then link the created** JS **file with** HTML **using** `script src tag`

Embedded approach

Embedded approach

▶ **We have written** JS **code in an** HTML **file using** script tag

Embedded approach

- **We have written** `JS` **code in an** `HTML` **file using** `script tag`
- **This code is only used for that particular** `HTML` **file and cannot be reused in any other** `HTML` **file**

Importing External JS File

Importing External JS File

► **We have written** JS **code by creating an external file and linking it to the** HTML **file**

Importing External JS File

▶ **We have written** JS **code by creating an external file and linking it to the** HTML **file**

▶ **Using this approach, we can use the same** JS **code in different** HTML **files by just linking it**

Importing External JS File

- **This solves the problem of writing the same code in different files so we can reuse the same**

Summary

In this tutorial, we have learnt:

- **Different approaches to use** JS **with** HTML
- **Their implications in coding**

Assignment

▶ **Create a file named** `assignment.js`

▶ **Log** `A` **and** `B` **characters**

▶ **Create a file named** `MyPage.html`

▶ **Link the** `assignment.js` **file to it**

▶ **Observe the output in the browser's** `console`

About the 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**

Forum for Specific Questions

▶ **Do you have questions in THIS Spoken Tutorial?**

▶ **Please 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**

Forum for Specific Questions

▶ **The Spoken Tutorial forum is for specific questions on this tutorial**

▶ **Please do not post unrelated and general questions on them**

▶ **This will help reduce the clutter**

▶ **With less clutter, we can use these discussion as instructional material**

Acknowledgements

▶ **Spoken Tutorial project is funded by Ministry of Education (MoE), Govt. of India**

Thank you

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