

Overview of JavaScript

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:



Learning Objectives

In this tutorial, we will learn:

- ▶ **Why** JavaScript?



Learning Objectives

In this tutorial, we will learn:

- ▶ **Why** JavaScript?
- ▶ **About** JavaScript



Learning Objectives

In this tutorial, we will learn:

- ▶ **Why** JavaScript?
- ▶ **About** JavaScript
- ▶ **The content available in various tutorials in this series**



Prerequisites for using JavaScript

To work with JavaScript (JS), we need:



Prerequisites for using JavaScript

To work with JavaScript (JS), we need:

- ▶ **A text editor, in which to write and understand the JavaScript code**



Prerequisites for using JavaScript

To work with JavaScript (JS), we need:

- ▶ **A text editor, in which to write and understand the JavaScript code**
- ▶ **A web browser**



For the recording of the JavaScript series



For the recording of the JavaScript series

► **Ubuntu Linux OS version 18.04**



For the recording of the JavaScript series

- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **Visual Studio Code version 1.45.0**
(code editor)



For the recording of the JavaScript series

- ▶ **Ubuntu Linux OS version 18.04**
- ▶ **Visual Studio Code version 1.45.0**
(code editor)
- ▶ **Firefox web browser**



JavaScript

- ▶ **JavaScript is a living language, which is constantly evolving with new features**



JavaScript

- ▶ **Today, JavaScript is very popular because we can develop**



JavaScript

- ▶ **Today, JavaScript is very popular because we can develop**
 - ▶ **Web applications**



JavaScript

- ▶ **Today, JavaScript is very popular because we can develop**
 - ▶ **Web applications**
 - ▶ **Mobile applications** (Windows, Android and IOS)



JavaScript

- ▶ **Today, JavaScript is very popular because we can develop**
 - ▶ **Web applications**
 - ▶ **Mobile applications** (Windows, Android and IOS)
 - ▶ **Desktop applications**



JavaScript

- ▶ **Today, JavaScript is very popular because we can develop**
 - ▶ **Web applications**
 - ▶ **Mobile applications** (Windows, Android and IOS)
 - ▶ **Desktop applications**
 - ▶ **Virtual Reality applications**



JavaScript

- ▶ **Today, JavaScript is very popular because we can develop**
 - ▶ **Web applications**
 - ▶ **Mobile applications (Windows, Android and IOS)**
 - ▶ **Desktop applications**
 - ▶ **Virtual Reality applications**
 - ▶ **Do a lot more with this language**



Why JavaScript?

- ▶ Let's go back 25 years and understand how this language evolved



Why JavaScript?

- ▶ Let's go back 25 years and understand how this language evolved
- ▶ **Apart from** Internet Explorer, Netscape Navigator **was the only available browser in the early 1990s**



Why JavaScript?

- **Browsers were supporting only static content with HTML and CSS**



Why JavaScript?

- ▶ **Browsers were supporting only static content with HTML and CSS**
- ▶ **Everyone was using the web to just read information like how we read newspapers**



Why JavaScript?

- ▶ **There was no support for actions in the browser**



Why JavaScript?

- ▶ **There was no support for actions in the browser**
- ▶ **So to make the web and browser better, JavaScript was introduced**



Why JavaScript?

- ▶ There was no support for actions in the browser
- ▶ So to make the web and browser better, JavaScript was introduced
- ▶ Using JavaScript, users were able to interact more on the web



ECMA Script

- ▶ ECMAScript is a standard for scripting languages such as JavaScript, JScript, etc.



ECMA Script

- ▶ ECMAScript is a standard for scripting languages such as JavaScript, JScript, etc.
- ▶ It is a trademark scripting language specification



ECMA Script

- ▶ **ECMAScript is a standard for scripting languages such as JavaScript, JScript, etc.**
- ▶ **It is a trademark scripting language specification**
- ▶ **ECMAScript ensures the interoperability of web pages across different web browsers**



ECMA Script

- ▶ **Until 2015, there were no proper JS new feature release cycles**



ECMA Script

- ▶ Until 2015, there were no proper JS new feature release cycles
- ▶ In 2015, massive features were introduced, which were released as ECMAScript 6 - ES6



ECMA Script

- ▶ Until 2015, there were no proper JS new feature release cycles
- ▶ In 2015, massive features were introduced, which were released as ECMAScript 6 - ES6
- ▶ From then, every year new features were added and released every year as ES7, ES8, ES9... and so on



ECMA Script

- ▶ In this tutorial series, we would be covering ES6 and above language standards



Summary

In this tutorial, we have learnt about:

- ▶ **Why** JavaScript
- ▶ ECMAScript
- ▶ **The content available in various tutorials in this series**



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**



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Thank you

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