

# Array Methods

**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



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## ► Different Array Methods



# Learning Objectives

- ▶ **Different** Array Methods
- ▶ **Advanced** Array Loops **in** JS



# System Specifications

**This tutorial is recorded using:**



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**This tutorial is recorded using:**

► **Ubuntu Linux OS version 18.04**



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**This tutorial is recorded using:**

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



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- ▶ **Ubuntu Linux OS version 18.04**
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(code editor)
- ▶ **Firefox Web Browser**





# Prerequisites



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



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- ▶ 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



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- ▶ Please download and extract the files



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



# Array Methods



# Array Methods

- ▶ `length` - **Returns the length of the Array**





# Array Methods

- ▶ `length` - **Returns the length of the Array**
- ▶ `push` - **Adds a value at the end of the Array**



# Array Methods

- ▶ `length` - **Returns the length of the Array**
- ▶ `push` - **Adds a value at the end of the Array**
- ▶ `pop` - **Removes a value from the end of the Array**



# Array Methods



# Array Methods

- ▶ `indexOf` - **Returns the index of the value in the array**



# Array Methods

- ▶ `indexOf` - **Returns the index of the value in the array**
- ▶ `shift` - **Removes a value from the beginning of the array**



# Array Methods

- ▶ `indexOf` - **Returns the index of the value in the array**
- ▶ `shift` - **Removes a value from the beginning of the array**
- ▶ `unShift` - **Adds a value to the beginning of the array**



# Array Methods



# Array Methods

▶ `forEach` - **Loops over the array**





# Array Methods

- ▶ `forEach` - **Loops over the** array
- ▶ `map` - **Loops over the array and returns the modified array**



# Array Methods

- ▶ `forEach` - **Loops over the array**
- ▶ `map` - **Loops over the array and returns the modified array**
- ▶ `filter` - **Loops over the array with a condition and returns the filtered array**



# Map Method



# Map Method

- ▶ **It accepts a callback function**



# Map Method

- ▶ **It accepts a** `callback function`
- ▶ **Loops over each and every value in the array**



# Map Method

- ▶ **It accepts a callback function**
- ▶ **Loops over each and every value in the array**
- ▶ **Modifies it, and then returns the modified array**



# Summary

**In this tutorial, we have learnt:**

- ▶ **Different Array Methods**
- ▶ **Advanced Array Loops in JS**



# More Array Methods

[https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Array](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array)





# Assignment

- ▶ **Open the file `assignment.js` which you have created earlier**
- ▶ **Clear the existing code**
- ▶ **Declare a variable - `marks`**
- ▶ **Assign an array **to** `marks`**



# Assignment

- ▶ **The array should contain - 10 random numbers**
- ▶ **Filter the marks array and display the marks divisible by 2 and 3**
- ▶ **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](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](mailto: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



# Acknowledgements

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



# Thank you

**Jayesh Katta Ramalingaiah**  
**Full Stack Developer**

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

