# Object and Array Destructuring

**Spoken Tutorial Project**
**https://spoken-tutorial.org**
**National Mission on Education through ICT**
**https://sakshat.ac.in**

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# Learning Objectives

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# System Specifications

**This tutorial is recorded using:**

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► **Ubuntu Linux OS version 18.04**

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- ▶ **Ubuntu Linux OS version 18.04**
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- ▶ **Firefox Web Browser**

# Prerequisites

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

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▶ **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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▶ **Make a copy and then use them for practicing**

# Destructuring

▶ Destructuring **is an** assignment syntax **in** JavaScript

# Destructuring

- Destructuring **is an** `assignment syntax` **in** `JavaScript`
- **It makes it possible to unpack values defined in** `Object` **or** `Array`

# Object Destructing

▶ **We have 2 properties**

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▶ **We have passed 2** `variable` **names in both of our** `array` **and** `object` **examples**

# Object Destructing

- ▶ **We have 2 properties**
- ▶ **We have passed 2** `variable` **names in both of our** `array` **and** `object` **examples**
- ▶ **Now, let's think of a scenario where we have 3** `properties`

# Object Destructing

▶ **We need to assign the** `first property` **to the** `name variable`

# Object Destructing

▶ **We need to assign the** `first` `property` **to the** `name` `variable`

▶ **And the rest of the** `properties` **to the** `details` `variable`

# Object Destructing

▶ **We need to assign the** `first property` **to the** `name variable`

▶ **And the rest of the** `properties` **to the** `details variable`

▶ **To achieve this, we have a concept called the** `spread operator`

# Object Destructing

▶ **For** `Objects`**, the** `variable` **name should be the same as the** `object` `property` **name**

# Object Destructing

- **For** `Objects`, **the** `variable` **name should be the same as the** `object` `property` **name**

- **Otherwise, the** `variable` **name will be assigned to** `undefined`

# Spread operator

# Spread operator

▶ ...[variable name]

# Template Literals

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► Template literals **are written using open and closed** backticks

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▶ ` some string `

# Template Literals

▶ Template literals **are written using open and closed** `backticks`

▶ `` ` some string ` ``

▶ `Variables` **values can be displayed using** $\${\}$ **(the dollar symbol and curly braces) in a** `string`

# Summary

- ▶ **Spread Operator**
- ▶ **Template Literals**
- ▶ **Object**
- ▶ **Array Destructuring**

# Assignment

▶ **Open the file** `assignment.js` **which you have created earlier**

▶ **Clear the existing code**

▶ **Declare variable marks**

# Assignment

▶ **Assign an** `array` **to** `variable marks` **containing** `88, 90` **and** `92`

▶ `Destruct` **the** `array` **and assign the values to** `m1, m2` **and** `m3` **respectively**

▶ **And** `log` **the values of** `m1, m2` **and** `m3`

# 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**

# Acknowledgements

# Thank you

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