Classes and Inheritance 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

11 May 2021

Learning Objectives

Learning Objectives

▶ Classes

Learning Objectives

▶ Classes
▶ Inheritance **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 1.45.0 (code editor)**

System Specifications

This tutorial is recorded using:

- **Ubuntu Linux OS version 18.04**
- **Visual Studio Code version 1.45.0 (code editor)**
- **Firefox Web Browser**

Prerequisites

Prerequisites

- **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

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

▶ **Please download and extract the files**

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

Classes

Classes

- Classes **are** templates **for creating** objects

Classes

▶ Classes **are** templates **for creating** objects

▶ Class declarations **are not** hoisted

Classes

▶ Classes **are** templates **for creating** objects

▶ Class declarations **are not** hoisted

▶ Classes **have** 'this' context

Classes

▶ Classes **are** templates **for creating** objects

▶ Class declarations **are not** hoisted

▶ Classes **have** 'this' context

▶ constructor, variables **and** methods **can be declared inside the** class

Inheritance

▶ `Inheritance` **is a concept of inheriting the parent** `class properties`

Inheritance

- Inheritance **is a concept of inheriting the parent** class properties
- **In** JS, **we do that using** extends keyword

Inheritance

▶ Inheritance **is a concept of inheriting the parent** class properties

▶ **In** JS**, we do that using** extends keyword

▶ **When using** extends **to invoke the** parent class constructor**, we need to use** super keyword

Summary

In this tutorial, we have learnt:

- ▶ `Classes`
- ▶ `Inheritance` **in** `JS`

Assignment

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

▶ **Clear the existing code**

▶ **Create a** `class Car`

▶ **Create the** `methods` `engine` **and** `wheels` **in the** `class Car`

Assignment

▶ **Create a** `class` **called** `ElectricCar` **and inherit the** `properties` **of** `Car class`

▶ **Create a** `method battery` **in the** `class ElectricCar`

▶ `Log` **the** `method` **name in all the three** `methods`

Assignment

▶ **Create an** `object ec1` **using** `ElectricCar` **and then execute** `Car methods` **using** `ec1`

▶ **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

- ▶ **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