JAVASCRIPT | DAY 5 | CLASSWORK

Basic Exercises

Objects

Exercise 1

Create an object called sportsCar with the following properties:

modelId → 7

brand → "SpyMotors"

model → "Spectre"

colors → ["Silver", "Black", "White"]

Print out the sportsCar object to the console.

Update the modelId property of the sportsCar object to be 8.

Add "Midnight Blue" to the array of colors available for sportsCar.

Print out the sportsCar object to the console again.

Exercise 2

Create 3 different objects for 3 different themes: car, animal and person. The end result should be 9 objects in total. These objects should have some properties like name, brand, model, type, color, weight, age... of course inherent to its type because, for instance, an animal has no brand...

Each object should have at least one method that shows some properties about each theme. Feel free to expand on that.

The message from the methods must be printed on the browser too, either by manipulating a paragraph for example or with console.log, document.write, ...

Classes

Exercise 1

Extend from the last example and create 3 different classes to create objects from: car, animal and person. These classes should have some properties like name, brand, model, type, color, weight, age... of course inherent to its type because, for instance, an animal has no brand...

Each class should have at least one method that shows some properties about each theme. Feel free to expand on that.

Create, using the classes, 3 different objects for each class.

The results from the methods must be printed on the browser too like the previous example.

Intermediate Exercises

Exercise 1

Now you will extend the classes from the previous exercise.

Car: Extend with a child class called Motorbike, that will inherit the property and methods from the parent Class, as well as create new properties and methods that are unique to this class. Example: number of wheels.

Animal: Extend with a child class called Fish, that will inherit the property and methods from the parent Class, as well as create new properties and methods that are unique to this class. Example: type of water it inhabits.

Person: Extend with a child class called Profession, that will inherit the property and methods from the parent Class, as well as create new properties and methods that are unique to this class. Example: job position.

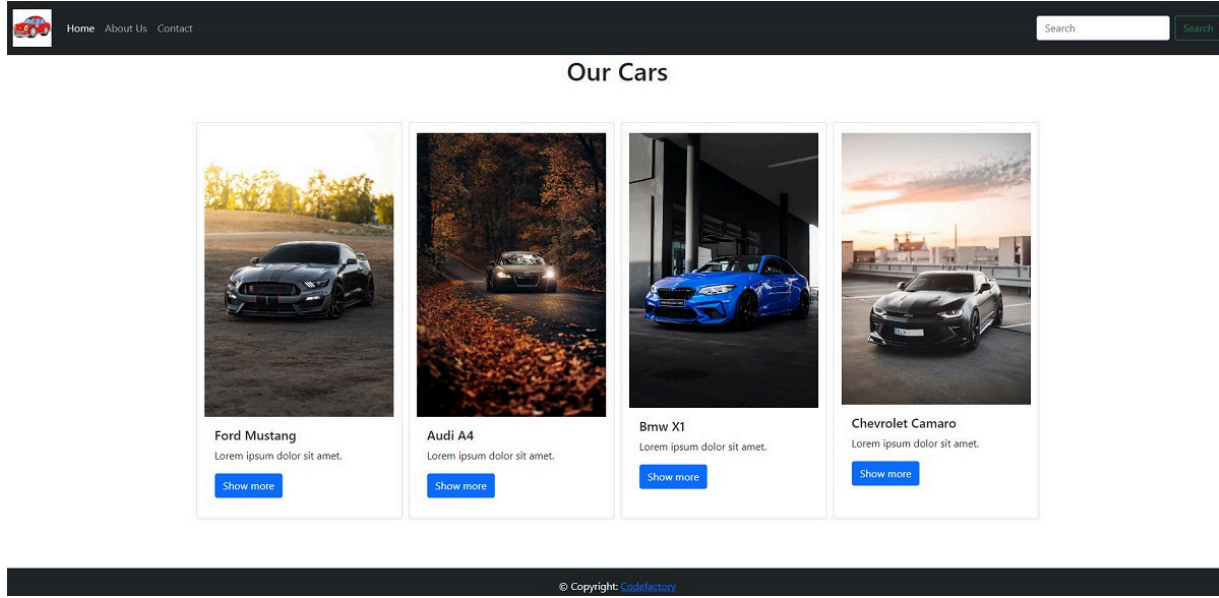Create, using the Child classes, 3 different objects for each class.

The results from the methods must be printed on the browser too.

Challenge

In this exercise, we are going to create a website for the car shop. You are free to expand on design and the structure, but you should follow some basic requirements of this small project:

- Create an array of objects with data about cars, e.g. car name, car production year, car image (image link URL), car price, etc.
- Display this data from this array in the index.html page using JavaScript loop and according to the provided design

When the user clicks on the car name you should display the div with the big photo and all details about the car, like on the image below (you should also provide the feature to hide the big div)

Show more

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Dodge Challenger

Producer: Stellantis   Price: € 120000

Year production: 2022

Hide Info