

# JavaScript Object Prototypes

[< Previous](#)[Next >](#)

All JavaScript objects inherit properties and methods from a prototype.

In the previous chapter we learned how to use an **object constructor**:

## Example

```
function Person(first, last, age, eyecolor) {  
  this.firstName = first;  
  this.lastName = last;  
  this.age = age;  
  this.eyeColor = eyecolor;  
}  
  
const myFather = new Person("John", "Doe", 50, "blue");  
const myMother = new Person("Sally", "Rally", 48, "green");
```

[Try it Yourself »](#)

We also learned that you can **not** add a new property to an existing object constructor:

## Example

```
Person.nationality = "English";
```

To add a new property to a constructor, you must add it to the constructor function:

## Example

```
function Person(first, last, age, eyecolor) {  
  this.firstName = first;  
  this.lastName = last;  
  this.age = age;  
  this.eyeColor = eyecolor;  
  this.nationality = "English";  
}
```

Try it Yourself »

---

## Prototype Inheritance

All JavaScript objects inherit properties and methods from a prototype:

- **Date** objects inherit from **Date.prototype**
- **Array** objects inherit from **Array.prototype**
- **Person** objects inherit from **Person.prototype**

The **Object.prototype** is on the top of the prototype inheritance chain:

# Adding Properties and Methods to Objects

Sometimes you want to add new properties (or methods) to all existing objects of a given type.

Sometimes you want to add new properties (or methods) to an object constructor.

## Using the **prototype** Property

The JavaScript **prototype** property allows you to add new properties to object constructors:

### Example

```
function Person(first, last, age, eyecolor) {  
  this.firstName = first;  
  this.lastName = last;  
  this.age = age;  
  this.eyeColor = eyecolor;  
}
```

```
Person.prototype.nationality = "English";
```

[Try it Yourself »](#)

The JavaScript **prototype** property also allows you to add new methods to objects constructors:

### Example

```
function Person(first, last, age, eyecolor) {  
  this.firstName = first;  
  this.lastName = last;  
  this.age = age;  
  this.eyeColor = eyecolor;  
}
```

[Try it Yourself »](#)

Only modify your **own** prototypes. Never modify the prototypes of standard JavaScript objects.

[◀ Previous](#)[Next ▶](#)

Track your progress - it's free!

[Sign Up](#)[Log in](#)

COLOR PICKER

[Tutorials ▼](#)[Exercises ▼](#)[Services ▼](#)[Sign Up](#)[Log in](#)[CSS](#)[JAVASCRIPT](#)[SQL](#)[PYTHON](#)[JAVA](#)[PHP](#)[HOW TO](#)[W3.CSS](#)[C](#)[PLUS](#)[SPACES](#)[GET CERTIFIED](#)[FOR TEACHERS](#)[FOR BUSINESS](#)[CONTACT US](#)

## Top Tutorials

- [HTML Tutorial](#)
- [CSS Tutorial](#)
- [JavaScript Tutorial](#)
- [How To Tutorial](#)
- [SQL Tutorial](#)
- [Python Tutorial](#)
- [W3.CSS Tutorial](#)
- [Bootstrap Tutorial](#)
- [PHP Tutorial](#)
- [Java Tutorial](#)
- [C++ Tutorial](#)
- [jQuery Tutorial](#)

## Top References

- [HTML Reference](#)
- [CSS Reference](#)
- [JavaScript Reference](#)
- [SQL Reference](#)
- [Python Reference](#)
- [W3.CSS Reference](#)
- [Bootstrap Reference](#)
- [PHP Reference](#)
- [HTML Colors](#)
- [Java Reference](#)

[Tutorials ▼](#)[Exercises ▼](#)[Services ▼](#)[Sign Up](#)[Log in](#)

CSS

JAVASCRIPT

SQL

PYTHON

JAVA

PHP

HOW TO

W3.CSS

C

CSS Examples

JavaScript Examples

How To Examples

SQL Examples

Python Examples

W3.CSS Examples

Bootstrap Examples

PHP Examples

Java Examples

XML Examples

jQuery Examples

CSS Certificate

JavaScript Certificate

Front End Certificate

SQL Certificate

Python Certificate

PHP Certificate

jQuery Certificate

Java Certificate

C++ Certificate

C# Certificate

XML Certificate



FORUM

ABOUT

ACADEMY

W3Schools is optimized for learning and training. Examples might be simplified to improve reading and learning.  
Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using W3Schools, you agree to have read and accepted our [terms of use](#), [cookie and privacy policy](#).

[Copyright 1999-2025](#) by Refsnes Data. All Rights Reserved. [W3Schools is Powered by W3.CSS](#).