

JavaScript > Guide

★ English (US)

JavaScript Guide

The JavaScript Guide shows you how to use JavaScript and gives an overview of the language. If you need exhaustive information about a language feature, have a look at the JavaScript reference.

This Guide is divided into the following chapters.

Introduction

Overview: Introduction

- · About this guide
- About JavaScript
- JavaScript and Java
- ECMAScript
- Tools
- · What's next

Grammar and types

Overview: Grammar and types

- · Basic syntax & comments
- Declarations
- Variable scope
- Variable hoisting
- Data structures and types
- Literals

Control flow and error handling

Overview: Control flow and error handling

- if...else
- switch
- try/catch/throw
- · Error objects

Loops and iteration

Overview: Loops and iteration

- for
- while
- do...while
- continue
- break
- for...in
- for...of

Functions

Overview: Functions

- · Defining functions
- Calling functions
- Function scopes and closures
- · Arguments & parameters
- · Arrow functions

Expressions and operators

Overview: Expressions and operators

- Assignment & Comparisons
- · Arithmetic operators
- Bitwise & logical operators
- · Conditional (ternary) operator

Numbers and strings

Overview: Numbers and strings

- Numbers
- Number object
- Math object
- Strings
- String object
- Template literals

Representing dates & times

Overview: Representing dates & times

• Date object

Regular expressions

Overview: Regular expressions

- · Creating a regular expression
- Writing a regular expression pattern
 - Assertions
 - Character classes
 - Groups and backreferences
 - Quantifiers

Indexed collections

Overview: Indexed collections

Keyed collections

Overview: Keyed collections

- Map
- WeakMap
- Set
- WeakSet

Working with objects

Overview: Working with objects

- · Objects and properties
- · Creating objects
- · Defining methods
- · Getter and setter

Using classes

Overview: Using classes

- Declaring a class
- · Various class features
- · Extends and inheritance
- · Why classes?

Promises

Overview: Promises

- Guarantees
- Chaining
- Error handling

- Composition
- Timing

Typed arrays

Overview: Typed arrays

Iterators and generators

Overview: Iterators and generators

- Iterators
- Iterables
- Generators

Internationalization

Overview: Internationalization

- · Date and time formatting
- · Number formatting
- Collation

JavaScript modules

Overview: JavaScript modules

- Exporting
- Importing
- · Default exports
- · Renaming features
- Aggregating modules
- Dynamic module loading

Advanced topics

After you have learned all fundamental features of JavaScript, you can explore some more niche features, or dive deeper into the language's mechanisms and concepts.

- Language overview
- Data structures
- Enumerability and ownership of properties
- Inheritance and the prototype chain
- · Equality comparisons and sameness
- Closures
- · Meta programming

Memory management

Next →

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