SheCodes JavaScript Cheatsheet

A reference list of JavaScript variables, strings, and other attributes.

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SheCodes

About this website and SheCodes

This website was built using technologies taught in SheCodes Coding Workshops including HTML, CSS, JavaScript, React, GitHub, Bootstrap and APIs. SheCodes teaches coding skills to busy women 👩‍💻

Dark Theme

Snippets categories: All | Variables | Alerts & Prompts | If Else | Strings | Arrays | Numbers | Dates | Objects | Functions | Debugging | Selectors | Events | AJAX | Element Manipulation

Variables

Variable creation

Copy

```
let school = "SheCodes";
let fullPackage = "SheCodes Pro";
let projects = 4;
let awesome = true;
```

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Variable operations

Copy

```
let x = 2;
let y = 3;
let z = x + y; // 5

let city = "Lisbon";
let country = "Portugal"
let place = city + " " + country; //Lisbon Portugal
```

JavaScript

Variable data Types

Copy

```
let age = 23; // Number
let name = "Julie"; // String
let canCode = true; // Boolean, could also be false
```

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Structure structure types

Copy

```
let students = ["Kate", "Julie", "Mariana"]; // Array

let kate = {
  firstName: "Kate",
  lastName: "Johnson",
  age: 23,
  canCode: true,
}; // Object
```

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Strings

Creating a string

Copy

```
let name = "SheCodes"; // "SheCodes"
```

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Alerts & Prompts

Alert

Copy

```
alert("Olá");

let name = "Angela";
alert(name);
```

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Prompt

Copy

```
let firstName = prompt("What is your first name");
let lastName = prompt("What is your last name");
let fullName = firstName + " " + lastName;
alert(fullName);
```

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If else

if statement

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```
let country = prompt("What country are you from?");

if (country === "Portugal") {
  alert("You are cool");
}

if (country !== "Portugal") {
  alert("Too bad for you");
}
```

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if else statement

Copy

```
let age = prompt("How old are you?");

if (age < 18) {
  alert("You cannot apply");
} else {
  alert("You can apply");
}
```

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Nested if else statements

Copy

```
if (age < 18) {
  alert("you can't apply");
} else {
```

```
let firstName = "Julie";
let lastName = "Johnson";
let fullName = firstName + " " + lastName; // "Julie Johnson
```

JavaScript

Trim

Copy

```
let city = "  Montreal  "
city.trim() // "Montreal"
```

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Replace

Copy

```
let city = "Montreal";
city = city.replace("e", "é"); // "Montréal"
```

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toLowerCase

Copy

```
let city = "Montreal";
city = city.toLowerCase(); // "montreal"
```

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toUpperCase

Copy

```
let city = "Montreal";
city = city.toUpperCase(); // "MONTREAL"
```

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Template literals

Copy

```
let city = "Denver";
let sentence = `Kate is from ${city}`; // Kate is from Denve
```

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Numbers

Round

Copy

```
Math.round(4.7) // 5
```

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Floor

Copy

```
Math.floor(4.7) // 4
```

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Ceil

Copy

```
Math.ceil(4.7) // 5
```

```
  }
}
```

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Logical Or

Copy

```
if (age < 18 || gender === "male") {
  alert("You can't join SheCodes 🙅‍♂️");
}
```

The code will be executed if one statement is true.

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Logical And

Copy

```
if (continent === "Europe" && language === "Portuguese") {
  alert("You are from Portugal 🇵🇹");
} else {
  alert("You are not from Portugal");
}
```

The code will be executed if both statements are true.

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Arrays

Array declaration

Copy

```
let myList = [];
let fruits = ["apples", "oranges", "bananas"];
myList = ['banana', 3, go, ['John', 'Doe'], {'firstName': 'J
```

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Access an Array

Copy

```
fruits
fruits[0]
fruits[1]
fruits[2]
fruits[3]
```

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Update an Array item

Copy

```
fruits[1] = "Mango";
fruits[1] = 3;
```

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While loop

Copy

```
let times = 0;
while (times < 10) {
  console.log(times);
  times = times + 1;
}
```

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Min

Copy

```
Math.min(2, 5, 1) // 1
```

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Max

Copy

```
Math.max(2, 5, 1); // 5
```

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Random

Copy

```
Math.random(); // 0.47231881595639025
```

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Dates

Get current time

Copy

```
let now = new Date();
```

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Create a date

Copy

```
let date = Date.parse("01 Jan 2025 00:00:00 GMT");
```

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Get date data

Copy

```
let now = new Date();
now.getMinutes(); // 0,1,2, 12
now.getHours(); //1, 2, 3, 4
now.getDate(); //1, 2, 3, 4
now.getDay(); // 0, 1, 2
now.getMonth(); // 0, 1, 2
now.getFullYear(); // 2021
```

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Functions

JS Functions

Copy

```
function sayFact() {
  let name = prompt("What's your name?");

  if (name === "Sofia") {
    alert("Your name comes from the Greek -> Sophia");
  }
}

sayFact();
```

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```
  alert("I have " + fruit + " in my shopping bag");
});
```

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do while loop

Copy

```
let times = 0;
do {
  console.log(times);
  times = times + 1;
} while(times < 10)
```

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for loop

Copy

```
for (let i = 0; i < 10; i++) {
  console.log("i is " + i);
}

for (let i = 0; i < myList.length; i++) {
  alert("I have " + myList[i] + " in my shopping bag");
}
```

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Objects

Creating a new object

Copy

```
let fruit = new Object(); // "object constructor" syntax

let user = {}; // "object literal" syntax

let student = {
  firsName: "Julie",
  lastName: "Johnson",
};

let anotherStudent = {
  firstName: "Kate",
  lastName: "Robinson",
  female: true,
  greet: function () {
    alert("Hey");
  },
};
```

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Reading an object properties

Copy

```
let user = {
  firstName: "Lady",
  lastName: "Gaga",
  gender: "female",
};

alert(user.firstName); // Lady
alert(user.lastName); // Gaga

// or
alert(user["firstName"]); // Lady
alert(user["lastName"]); // Gaga
```

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Adding object properties

Copy

```
let user = {
  firstName: "Lady",
```

```
function fullName(firstName, lastName) {
  alert(firstName + " " + lastName);
}

let firstName = prompt("What's your first name?");
let lastName = prompt("What's your last name?");
fullName(firstName, lastName);
fullName("Kate", "Robinson");
```

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JS Functions Return

Copy

```
function add(x, y) {
  return x + y;
}

let result = add(3, 4);
let result2 = add(result, 0);


function getFullName(firstName, lastName) {
  let fullName = firstName + " " + lastName;
  return fullName;
}

let userFullName = getFullName("Kate", "Robinson");
alert(userFullName); // Kate Robinson
alert(getFullName("Julie", "Smith")); // Julie Smith
```

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Closures

Copy

```
function hello() {
  function go() {
    alert go(name);
  }

  let name = "Matt";
  go();
}
```

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Selectors

QuerySelector

Copy

```
let li = document.querySelector("li");
let day = document.querySelector(".day");
let paragraph = document.querySelector("ul#list p");
```

Returns the first element (if any) on the page matching the selector.

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QuerySelectorAll

Copy

```
let lis = document.querySelectorAll("li");
let paragraphs = document.querySelectorAll("li#special p");
```

Returns all elements (if any) on the page matching the selector.

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AJAX

AJAX with Fetch

Copy

```
let root = 'https://jsonplaceholder.typicode.com'
let path = 'users/1'
```

```
user.profession = "Singer";
```

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Object Arrays

Copy

```
let users = [
  {
    firstName: "Bradley",
    lastName: "Cooper",
  },
  {
    firstName: "Lady",
    lastName: "Gaga",
  },
];

users.forEach(function (user, index) {
  for (let prop in user) {
    alert(prop + " is " + user[prop]);
  }
});
```

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Enumerating the properties of an object

Copy

```
let user = {
  firstName: 'Lady',
  lastName: 'Gaga',
  gender: 'female'
}


for(let prop in user) {
  alert(prop); // firstName, lastName, gender
  alert(user[prop]); // 'Lady', 'Gaga', 'female'
}
```

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Debugging

Console.log

Copy

```
console.log(name);
console.log("Let's code!");
```

Outputs a message to the web console.

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Events

Creating an event listener

Copy

```
function sayHi() {
  alert("hi");
}

let element = document.querySelector("#city");
element.addEventListener("click", sayHi);
```

The sayHi function will be executed each time the city element is clicked. Click is the most common event type but you can also use click | mouseenter | mouseleave | mousedown | mouseup | mousemove | keydown | keyup.

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Element manipulation

```
  ))
  .then(json => (
    console.log(json)
  ));
```

Note: We recommend axios instead

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AJAX with Axios

Copy

```
<!DOCTYPE html>
<html>
  <body>
    <script src="https://unpkg.com/axios/dist/axios.min.js">
    <script>
      function showUser(response) {
        alert(`The user name is ${response.data.name}`);
      }

      let url = "https://jsonplaceholder.typicode.com/users/
      axios.get(url).then(showUser);
    </script>
  </body>
</html>
```

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```
let li = document.querySelector("li#special");
li.classList.remove("liked");
li.classList.add("something");
```

Update the element class names.

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HTML content

Copy

```
let li = document.querySelector("li")
li.innerHTML = "Hello World";
```

Update the HTML content of the selected element.

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Forms

Copy

```
<form>
  <input type="text" id="email" />
</form>
<script>

function signUp(event) {
  event.preventDefault();
  let input = document.querySelector("#email");
  console.log(input.value);
}
let form = document.querySelector("form");
form.addEventListener("submit", signUp);
</script>
```

JavaScript

Enter your email here

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