SheCodes JavaScript Cheatsheet

Looking for the best JavaScript cheats and snippets? SheCodes Javascript Cheatsheet has you covered! We offer a wide range of JavaScript cheat sheets, including fundamentals and methods. Our cheat sheets are designed to help you quickly reference the most commonly used JS techniques for creating dynamic web pages. Whether you're new to JavaScript or an experienced developer, our cheat sheets and code examples are a valuable resource. Check them out today!

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General

Comments

```
// this is a comment
/* or this is a comment */
```

This code will be ignored. Comments are generally a bad idea, your code

More info

Variables

Variable creation

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

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Alerts & Prompts

Variable operations

Alert

Copy code

```
alert("Olá");

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

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JavaScript

Prompt

Copy code

```
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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JavaScript

If else

Structure structure types

if statement

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```
  alert("You are cool");
}

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

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if else statement

```
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

```
if (age < 18) {
  alert("you can't apply");
} else {
  if (age > 120) {
    alert("you can't apply");
  } else {
    alert("you can apply");
  }
}
```

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Logical Or

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

The code will be executed if one statement is true.

More info

Logical And

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

The code will be executed if both statements are true.

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Comparison and Logical Operators

Strings

Creating a string

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

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String concatenation

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

//or
let fullName = `${firstName} ${lastName}`;
```

Trim

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

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Replace

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

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JavaScript

toLowerCase

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

More info

toUpperCase

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

More info

```
3 >= 2 // true
2 === 5 // false
2 !== 3 // true
1 + 2 === 4 // false
```

More info

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

More info

Arrays

Dates

Array declaration

Get current time

Copy code

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

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Create a date

Copy code

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

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JavaScript

More info

Get date data

Copy code

```
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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while loop

Numbers

Round

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

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JavaScript

Floor

Copy code

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

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JavaScript

More info

Ceil

Copy code

Min

Copy code

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

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JavaScript

Max

Copy code

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

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JavaScript

Random

Copy code

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

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JavaScript

Objects

Creating a new object

```
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

```
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
```

for loop

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Functions

Copy code

JS Functions

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

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

sayFact();
```

Piece of code that does one or more actions

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JS Functions Parameters

```
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");
```

More info

JS Functions Return

Adding object properties

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

user.profession = "Singer";
```

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Object Arrays

```
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]);
  }
});
```

More info

Enumerating the properties of an object

```
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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Events

Creating an event listener

Copy code

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

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

```
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

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

  let name = "SheCodes";
  go(name);
}

hello();
```

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Debugging

JavaScript

Console.log

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

Outputs a message to the web console.

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Selectors

QuerySelector

```
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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More info

setTimeout

```
function sayHello() {
  alert('Hello')
}
setTimeout(sayHello, 3000);
```

It will only alert Hello after a 3 second delay

More info

setInterval

```
function sayHello() {
  alert('Hello')
}
setInterval(sayHello, 3000);
```

It will say Hello every 3 seconds

More info

Element manipulation

HTML classes

Copy code

```
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

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

Update the HTML content of the selected element.

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Forms

```
<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");
```

AJAX

JavaScript

AJAX with Fetch

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

fetch(root + '/' + path)
  .then(response => (
    response.json()
  ))
  .then(json => (
    console.log(json)
  ));
```

Note: We recommend axios instead

More info

AJAX with Axios

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

APIs

Geolocation API

```
function handlePosition(position) {
  console.log(position.coords.latitude);
  console.log(position.coords.longitude);
}

navigator.geolocation.getCurrentPosition(handlePosition)
```

The Geolocation API allows the user to provide their location to web applications if they so location information.

More info