



JavaScript Cheatsheet



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JavaScript Basics

Set of JavaScript basic syntax to add, execute and write basic programming paradigms in Javascript

On Page Script

Adding internal JavaScript to HTML

```
<script type="text/javascript"> //JS code goes here </script>
```

Copy

External JS File

Adding external JavaScript to HTML

```
<script src="filename.js"></script>
```

Functions

JavaScript Function syntax

```
function nameOfFunction() {  
    // function body  
}
```

DOM Element

Changing content of a DOM Element

```
document.getElementById("elementID").innerHTML = "Hello World"
```

Output

This will print the value of a in JavaScript console

```
console.log(a);
```

Conditional Statements

Conditional statements are used to perform operations based on some conditions.

If Statement

The block of code to be executed, when the condition specified is true.

```
if (condition) {  
    // block of code to be executed if the condition is true  
}
```

If-else Statement

If the condition for the if block is false, then the else block will be executed.

```
if (condition) {  
    // block of code to be executed if the condition is true  
} else {  
    // block of code to be executed if the condition is false  
}
```

Else-if Statement

A basic if-else ladder

```
if (condition1) {  
    // block of code to be executed if condition1 is true  
} else if (condition2) {
```

```
        // block of code to be executed if the condition1 is false
    } else {
        // block of code to be executed if the condition1 is false
    }
}
```

Switch Statement

Switch case statement in JavaScript

```
switch (expression) {
    case x:
        // code block
        break;
    case y:
        // code block
        break;
    default:
        // code block
}
```

Iterative Statements (Loops)

Iterative statement facilitates programmer to execute any block of code lines repeatedly and can be controlled as per conditions added by the programmer.

For Loop

For loop syntax in javascript

```
for (initialization; condition; incrementation;) {
    // code block to be executed
}
```

Example:

```
for (let i = 0; i < 5; i++) {
    text += "Iteration number: " + i + "<br>";
}
```

While Loop

Runs the code till the specified condition is true

```
while (condition) {  
    // code block to be executed  
}
```

Do While Loop

A do while loop is executed at least once despite the condition being true or false

```
do {  
    // run this code in block  
    i++;  
} while (condition);
```

Strings

The string is a sequence of characters that is used for storing and managing text data.

charAt method

Returns the character from the specified index.

```
str.charAt(3)
```

concat method

Joins two or more strings together.

```
str1.concat(str2)
```

indexOf method

Returns the index of the first occurrence of the specified character from the string else -1 if not found.

```
str.indexOf('substr')
```

match method

Searches a string for a match against a regular expression.

```
str.match(/(chapter \d+(\.\d+)*)/i;)
```

replace method

Searches a string for a match against a specified string or char and returns a new string by replacing the specified values.

```
str1.replace(str2)
```

search method

Searches a string against a specified value.

```
str.search('term')
```

split method

Splits a string into an array consisting of substrings.

```
str.split('\n')
```

substring method

Returns a substring of a string containing characters from the specified indices.

```
str.substring(0,5)
```

Arrays

The array is a collection of data items of the same type. In simple terms, it is a variable that contains multiple values.

variable

Containers for storing data.

```
var fruit = ["element1", "element2", "element3"];
```

concat method

Joins two or more arrays together.

```
concat()
```

indexOf method

Returns the index of the specified item from the array.

```
indexOf()
```

join method

Converts the array elements to a string.

```
join()
```

pop method

Deletes the last element of the array.

```
pop()
```

reverse method

This method reverses the order of the array elements.

```
reverse()
```

sort method

Sorts the array elements in a specified manner.

```
sort()
```

toString method

Converts the array elements to a string.

`toString()`

valueOf method

returns the relevant Number Object holding the value of the argument passed

`valueOf()`

Number Methods

JS math and number objects provide several constant and methods to perform mathematical operations.

toExponential method

Converts a number to its exponential form.

`toExponential()`

toPrecision method

Formats a number into a specified length.

`toPrecision()`

toString method

Converts an object to a string

`toString()`

valueOf method

Returns the primitive value of a number.

`valueOf()`

Maths Methods

ceil method

Rounds a number upwards to the nearest integer, and returns the result

`ceil(x)`

exp method

Returns the value of E^x .

`exp(x)`

log method

Returns the logarithmic value of x.

`log(x)`

pow method

Returns the value of x to the power y.

`pow(x,y)`

random method

Returns a random number between 0 and 1.

`random()`

sqrt method

Returns the square root of a number x

`sqrt(x)`

Dates

Date object is used to get the year, month and day. It has methods to get and set day, month, year, hour, minute, and seconds.

Pulling Date from the Date object

Returns the date from the date object

`getDate()`

Pulling Day from the Date object

Returns the day from the date object

`getDay()`

Pulling Hours from the Date object

Returns the hours from the date object

`getHours()`

Pulling Minutes from the Date object

Returns the minutes from the date object

`getMinutes()`

Pulling Seconds from the Date object

Returns the seconds from the date object

`getSeconds()`

Pulling Time from the Date object

Returns the time from the date object

```
getTime()
```

Mouse Events

Any change in the state of an object is referred to as an Event. With the help of JS, you can handle events, i.e., how any specific HTML tag will work when the user does something.

click

Fired when an element is clicked

```
element.addEventListener('click', () => {  
    // Code to be executed when the event is fired  
});
```

oncontextmenu

Fired when an element is right-clicked

```
element.addEventListener('contextmenu', () => {  
    // Code to be executed when the event is fired  
});
```

dblclick

Fired when an element is double-clicked

```
element.addEventListener('dblclick', () => {  
    // Code to be executed when the event is fired  
});
```

mouseenter

Fired when an element is entered by the mouse arrow

```
element.addEventListener('mouseenter', () => {  
    // Code to be executed when the event is fired  
});
```

```
});
```

mouseleave

Fired when an element is exited by the mouse arrow

```
element.addEventListener('mouseleave', () => {  
    // Code to be executed when the event is fired  
});
```

mousemove

Fired when the mouse is moved inside the element

```
element.addEventListener('mousemove', () => {  
    // Code to be executed when the event is fired  
});
```

Keyboard Events

keydown

Fired when the user is pressing a key on the keyboard

```
element.addEventListener('keydown', () => {  
    // Code to be executed when the event is fired  
});
```

keypress

Fired when the user presses the key on the keyboard

```
element.addEventListener('keypress', () => {  
    // Code to be executed when the event is fired  
});
```

keyup

Fired when the user releases a key on the keyboard

```
element.addEventListener('keyup', () => {  
    // Code to be executed when the event is fired  
});
```

Errors

Errors are thrown by the compiler or interpreter whenever they find any fault in the code, and it can be of any type like syntax error, run-time error, logical error, etc. JS provides some functions to handle the errors.

try and catch

Try the code block and execute catch when err is thrown

```
try {  
    Block of code to try  
}  
catch (err) {  
    Block of code to handle errors  
}
```

Window Methods

Methods that are available from the window object

alert method

Used to alert something on the screen

```
alert()
```

blur method

The blur() method removes focus from the current window.

```
blur()
```

setInterval

Keeps executing code at a certain interval

```
setInterval(() => {  
    // Code to be executed  
}, 1000);
```

setTimeout

Executes the code after a certain interval of time

```
setTimeout(() => {  
    // Code to be executed  
}, 1000);
```

close

The Window.close() method closes the current window

```
window.close()
```

confirm

The window.confirm() instructs the browser to display a dialog with an optional message, and to wait until the user either confirms or cancels

```
window.confirm('Are you sure?')
```

open

Opens a new window

```
window.open("https://www.codewithharry.com");
```

prompt

Prompts the user with a text and takes a value. Second parameter is the default value

```
var name = prompt("What is your name?", "Harry");
```

scrollBy

```
window.scrollBy(100, 0); // Scroll 100px to the right
```

scrollTo

Scrolls the document to the specified coordinates.

```
window.scrollTo(500, 0); // Scroll to horizontal position 500
```



clearInterval

Clears the setInterval. var is the value returned by setInterval call

```
clearInterval(var)
```

clearTimeout

Clears the setTimeout. var is the value returned by setTimeout call

```
clearTimeout(var)
```

stop

Stops the further resource loading

```
stop()
```

Query/Get Elements

The browser creates a DOM (Document Object Model) whenever a web page is loaded, and with the help of HTML DOM, one can access and modify all the elements of the HTML document.

querySelector

Selector to select first matching element

```
document.querySelector('css-selectors')
```

querySelectorAll

A selector to select all matching elements

```
document.querySelectorAll('css-selectors', ...)
```

getElementsByTagName

Select elements by tag name

```
document.getElementsByTagName('element-name')
```

getElementsByClassName

Select elements by class name

```
document.getElementsByClassName('class-name')
```

Get Element by Id

Select an element by its id

```
document.getElementById('id')
```

Creating Elements

Create new elements in the DOM

createElement

Create a new element

```
document.createElement('div')
```

createTextNode

Create a new text node

```
document.createTextNode('some text here')
```

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Thanx br0...I am doing your web development course.....that is very informative and easy to understand....I am a first year student....I learned most of things to you...I watch your c++ course... amazing 🏆

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saicharan8999_gm 2024-06-01

Hi, whats the difference between join() method and toString() ? they both coverts into a strings

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Thank you bhai

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Please create a cheat-sheet for React, Node & Express and also for advance JavaScript

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Thank u bhaiya

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window.confirm("I want to pay thanks sir.....");

[REPLY](#)**simrangrewal82457_gm** 2024-02-20

This is so helpful in learning as well as practicing. Thank you sir

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sanskarjaiswal2904_gm 2024-02-12

the amount of hardwork harry puts in the video, some paid courses will not even do that

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Thank u bhai

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This is ver helpful.Thanks Haris Ali Khan

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roy779414_gm 2024-01-25

Thank You dada!

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tanu.sinha94300_gm 2024-01-25

alert("thanks to harry..");

REPLY



raushanimam4x7v86_gm 2024-01-13

thanx harry bhai for all the notes and cheat sheets its really helps a lot for a very quick revision & saves a lot more times of ours just with the help of your notes THANKS ONCE AGAIN FOR PROVIDING ALL THE LECTURES VIDEOS ALONG WITH THE NOTES COMPLETELY FREE HUGE HATSOFF TO YOU HARRY BHAI

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such a nice effort..

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**khizerahmedashfaq162007_gm** 2023-12-26

Wah yar

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**dp952956_gm** 2023-12-20

```
document.getElementById("raj_pawar").innerHTML = "Thank You Very Much.....";
```

REPLY

**chinmayjain096_gm** 2023-12-13

What a fabulous website you have made Harry Bhaiya . Over the past weeks, I am learning to react. Website ki designing boht mast he. Once again thank you bhaiya for making this much valuable content for us and that is also free. God bless you, Bhaiya.

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Love the way he shares. 🥰

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gajab bhai

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umaralamlhr 2023-09-26

Haris Bhai you have always been delivering such amazing and exceptional courses . Have been providing us with amazing content and sharing such helpful content with us you are my best teacher ever. May Allah bless you with the best both in here and Hereafter . Alot of thanksgiving to you .

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Thanks Haris Bhai

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Thank you so much sir

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good learning resources

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sanjaykushwah932002_gm 2023-09-23

Excellent 🙌

REPLY



vaibhavsh150 2023-09-13

You are my Idol 🙏🙏🙏🙏

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Thank you so much sir

REPLY



muhammadumairu335_gm 2023-07-31

harry the best out there

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aarushsrivastava542_gm 2023-07-19

HI SIR GREAT GREETINGS FOR YOU FIRSTLY I'D LIKE TO THANKS YOU
FEEDBACK- ADD LENGTH PROPERTY IN JAVASCRIPT STRING METHODS

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rohit.msl85 2023-06-11

awesome harry Bhai thank you we can't buy these by paying any
amount

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I am feeling proud that harry is my student

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ejaz80901_gm 2023-04-10

Amazing

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