

{.js}

JAVASCRIPT CHEATSHEET



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Hey Everyone,

Javascript is everywhere. Millions of webpages are built on JS.



This Post includes a JavaScript cheat sheet to make it easy for our followers to work with JavaScript.

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BASICS

On Page Script

Include
external JS file

Functions

Comments

Border Width



```
<script type="text/javascript">  
...  
</script>
```



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



```
function addNumbers (a, b) {  
    return a + b;  
}
```



```
/* Multi line  
comment */  
// One line
```



```
console.log(a);  
document.write(a);  
alert(a);  
confirm("Really?");  
prompt("Your age?", "0");
```



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Data Types



```
var age = 18; // number
var name = "Jane"; // string
var name = {first: "Jane", last: "Doe"}; // object
var truth = false; // boolean
var sheets = ["HTML", "CSS", "JS"]; // array
var a; typeof a; // undefined
var a = null; // value null
```

If – Else Statement



```
if ((age >= 14) && (age < 19)) { // logical condition
    status = "Eligible."; // executed if condition is true
} else { // else block is optional
    status = "Not eligible."; // executed if condition is false
}
```



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JavaScript Loops

For Loop



```
for (var i = 0; i < 10; i++) {  
  document.write(i + "<br />");  
}
```

While Loop



```
var i = 1;  
while (i < 100) {  
  i *= 2;  
  document.write(i + ", ");  
}
```

Do-While Loop



```
var i = 1;  
do {  
  i *= 2;  
  document.write(i + ", ");  
} while (i < 100)
```



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JavaScript Strings



```
var abc = "abcdefghijklmnopqrstuvwxyz";  
  
var esc= 'I don\'t \n know';           // \n new line  
  
var len = abc.length;                  // string length  
  
abc.indexOf("lmno");                    // find substring  
  
abc.lastIndexOf("lmno");                // last occurrence  
  
abc.slice(3, 6);                        // cuts out "def",  
  
abc.replace("abc", "123");              // find and replace  
  
abc.toUpperCase();                      // convert to upper case  
  
abc.toLowerCase();                      // convert to lower case  
  
abc.concat(" ", str2);                  // abc +* + str2  
  
abc.charAt(2);                          // character at index: "c"  
  
abc[2];                                // unsafe, abc [2] = "C" doesn't work  
  
abc.charCodeAt(2);                      // character code at index: "c" -> 99  
  
abc.split(",");                         // splitting a string on commas  
  
abc.split("");                          // splitting on characters  
  
toString(16);                           // number to hex(16), octal or binary
```



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JavaScript Math

```
var pi = Math.PI;           // 3.141592653589793
Math.round(4.4);            // = 4 - rounded
Math.round(4.5);            // = 5
Math.pow(2,8);              // = 256-2 to the power of 8
Math.sqrt(49);              // = 7 - square root
Math.abs(-3.14);            // = 3.14 - absolute, positive value
Math.ceil(3.14);            // = 4 - rounded up
Math.floor(3.99) ;          // = 3 - rounded down
Math.sin(0);                // = 0-sine
Math.cos(Math.PI);          // OTHERS: tan, atan, asin, acos,
Math.min(0, 3, -2, 2);      // = -2- the lowest value
Math.max(0, 3, -2, 2);      // = 3 - the highest value
Math.log(1);                // = 0 natural logarithm
Math.exp(1);                // 2.7182pow(E,x)
Math.random();              // random number between 0 and 1
Math.floor(Math.random() * 5) + 1;
// random integer, from 1 to 5
```



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JavaScript Numbers



```
var pi = 3.141;

pi.toFixed(0);           // returns 3

pi.toFixed(2);           // returns 3.14

pi.toPrecision (2)       // returns 3.1

pi.valueOf();            // returns number

Number(true);            // converts to number

Number(new Date())       // number of milliseconds since 1970

parseInt("3 months");    // returns the first number: 3

parseFloat("3.5 days");  // returns 3.5

Number.MAX_VALUE         // largest possible JS number

Number.MIN_VALUE         // smallest possible JS number

Number.NEGATIVE_INFINITY // -Infinity

Number.POSITIVE_INFINITY // Infinity
```



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