

Javascript Cheatsheet (Beginners)

Comments

```
// This is a one-line comment

/*
This is a multi-line comment
This line too
*/
```

Variables

Variable Creation

```
let user = "John Doe";
let age = 42;
let isActive = true;
```

Variable Datatypes

```
let user = "John Doe"; // String
let age = 42; // Number
let isActive = true; // Boolean
```

Variable Operations

```
let x = 40;
let y = 10;
let sum = x + y;
let difference = x - y;
```

Debugging

```
let name = "John";  
console.log(name);  
console.log("Hello World");
```

Conditional Statements

if Statement

```
if (country === "India") {  
    console.log("Cool");  
}
```

if-else Statement

```
let age = 18;  
if (age >= 18) {  
    console.log("You are eligible");  
} else {  
    console.log("You are not eligible");  
}
```

Nested if-else Statement

```
let num = 50;  
if (num > 50) {  
    console.log("Number is greater than 50");  
} else {  
    if (num === 50) {  
        console.log("Number is equal to 50");  
    } else {  
        console.log("Number is greater than 50");  
    }  
}
```

Logical and Comparision Operators

Logical OR (||)

```
let age = 20;
if (age > 18 || age < 50) {
  console.log("You are selected");
}
```

Logical AND (&&)

```
let age = 10;
let gender = "male";
if (age > 18 && gender === "male") {
  console.log("You are eligible");
}
```

Comparision Operators

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

Strings

String Concatenation

```
let firstName = "John";
let lastName = "Doe";
let fullName = firstName + " " + lastName; // John Doe
```

String Transformation

Uppercase

```
let name = "john doe";  
name = name.toUpperCase(); // JOHN DOE
```

Lowercase

```
let name = "JOHN DOE";  
name = name.toLowerCase(); // "john doe"
```

Arrays

Array Declaration

```
let myList = [];  
let fruits = ["apples", "oranges", "bananas"];
```

Access an Array

```
fruits[0];  
fruits[3];
```

Update an Array Item

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

Loops

While Loop

```
let times = 0;  
while (times < 10) {
```

```
console.log(times);  
times = times + 1;  
}
```

forEach Loop

```
let fruits = ["apples", "oranges", "bananas"];  
fruits.forEach(function (fruit) {  
    alert("I have " + fruit + " in my bag");  
});
```

do While Loop

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

Dates

Get Current Date and Time

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

Get Data from Date

```
let now = new Date();  
now.getMinutes();  
now.getHours();  
now.getDate();  
now.getDay();  
now.getMonth();  
now.getFullYear();
```

Math Functions

Round

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

Floor

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

Ceil

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

Min

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

Max

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

Random

```
Math.random(); // 0.9182460305807105
```

Alerts & Prompts

Alert

```
alert("Hi")  
  
let name = "John"  
  
alert(name)
```

Prompt

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

Functions

Basic Function

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

sayName();
```

Function with 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");
```

Function with Return Value

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

```
let result = add(3, 4);  
let result2 = add(result, 0);  
console.log(result2);
```

Selectors

Get Element By ID

```
let li = document.getElementById("list-element");
```

Query Selector

```
let li = document.querySelector("li");  
let paragraph = document.querySelector("p");
```

Query Selector All

```
let list = document.querySelectorAll("li");
```

Events

Creating an Event Listener

```
function sayHi() {  
  alert("hi");  
}  
  
let element = document.querySelector("#city");  
element.addEventListener("click", sayHi);
```

Set Timeout

```
function sayHello() {  
  alert("Hello");  
}
```



```
}  
setTimeout(sayHello, 3000);
```

Set Interval

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