Cheatography

JavaScript Cheat Sheet

by andrea_25 via cheatography.com/195327/cs/40888/

Comments

```
// this is a single line comment

/* this is a multi-line comment */
```

This code will be ignored. Comments are generally a bad idea, your code should be explicit enough as it is.

More info

Variable creation

```
let variable = "some value";

let num = 4;

let isTrue = true;
```

More info

Variable operations

```
let x = 2;

let y = 3;

let z = x + y;


let city = " Rom e";

let country = " Ita ly";

let place = city + " " + country; // Rome Italy
```

Variable data types

```
let age = 92; // Number

let name = " Tom mas o"; // Stri
ng

let canCode = true; // Boolean
```

More info

Structure types

```
let students = ["Sa lva tor e", " Leo nar do", " Ant one lla "]
; // Array
```

let kate = { firstName: "Marianna", lastName: "Di Luna", age: 23, canCode: true, }; // Object

More info

Alert

```
alert( "this is an alert) ";

let name = " Jac k";

alert( name);
```

More info

Prompt

```
let firstName = prompt ("What's your first name?")
;

let lastName= prompt ("What's your last name?");

let fullName = firstName + " " + lastName;

alert( ful lName);
```

More info

If else statement

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


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

More info

Logical or

```
if (age < 18 || gender === " mal e")
 {
   alert( "You can't do that");
}
```

The code will be executed if one statement is true.

More info

Logical and

```
if (continent === " Eur ope " && language === " Por tug ues
 e") {
   alert( "You are from Portugal □□");
} else {
   alert( "You are not from Portug al");
}
```

The code will be executed if both statements are true.

More info

Comparison and logical operators

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

More info

Array

Initialization

```
let numbers = [5, 10, 15, 20];
```

Add

```
number s.p ush (25);
```

Set

```
numbers[2] = 30;
```

Delete

```
delete number s[1];
```

Unshift

```
number s.u nsh ift(1);
```

Check Existance

```
number s.i ncl ude (25);
```

Pop

```
let lastNumber = number s.p op();
```

Shift

```
let remove dNumber = number s.s hi
tem
```

Get Index

```
let index = number s.i nde xOf (15
```

Loop

```
for (let num of numbers) {
   consol e.l og( num);
}
```

Clear

```
numbers = [];
```

List

Get Date-Time info

```
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
```

More info

Declaration

```
let temper atures = new List():
```

Add

```
temperatures.add(22);
temperatures.add(25);
temperatures.add(27);
temperatures.add(20);
```

Set

```
temper atu res.set(2, 26);
```

Get Item At Index

```
let temp = temper atu res.ge t(1);
```

Check Existance

```
temper atu res.co nta ins (27);
```

Remove

```
temper atu res.re mov e(20);
```

Size

```
temera tur es.s ize();
```

Loop

```
for (let temp of temper atu res.to
)) {
     consol e.l og( temp);
}
```

Clear

```
temper atu res.cl ear();
```

HashSet

Declaration

```
let travel Des tin ations = new Ha
();
```

Add

```
travelDestinations.add("Paris");
travelDestinations.add("Tokyo");
travelDestinations.add("New York")
travelDestinations.add("Sydney");
```

Values

```
travel Des tin ati ons.va lues();
```

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HashSet (cont)

Delete

```
travel Des tin ati ons.de let e("S ydney");
```

Size

```
travel Des tin ati on.s ize();
```

Loop

```
for (let city of travel Des tin ati ons.va lues
()) {
     consol e.l og( `Travel to: ${city}`);
}
```

Clear

```
travel Des tin ati on.c le ar();
```

Queue

Declaration

```
let bankQueue = new Queue();
```

Enqueue

```
bankQueue.enqueue("John");
bankQueue.enqueue("Emma");
bankQueue.enqueue("Lucas");
bankQueue.enqueue("Sophia");
```

Dequeue

```
bankQu eue.de que ue();
```

Front

```
bankQu eue.fr ont(); // Get the front of the que
ue
```

Check Existance

```
bankQu eue.co nta ins ("Em ma");
```

Size

```
bankQu eue.si ze();
```

LinkedList

Dictionary

Declaration

```
let bookAu thors = new Dictio nary();
```

Add

```
bookAu tho rs.a dd ("Harry Potter ", " J.K. Rowli
ng");
bookAuthors.add("The Hobbit ", " J.R.R. Tolkien
");
bookAuthors.add("Dune", " Frank Herbert");
```

Check Existance Key

```
bookAu tho rs.h as Key ("Du ne");
```

Check Existance Value

```
bookAu tho rs.h as Val ue( "J.K. Rowling");
```

Remove Pair

```
bookAu tho rs.r em ove ("The Hobbit ");
```

Keys

```
bookAu tho rs.k eys();
```

Values

```
bookAu tho rs.v al ues();
```

Entries

```
bookAu tho rs.e nt ries();
```

Size

```
bookAu tho rs.s ize();
```

Clear

```
bookAu tho rs.c le ar();
```

SortedList

SortedSet

Initialization with a custom comparator

```
const byScore = (a, b) => a - b;
let examScores = new Sorted Set (b
```

Add

```
examScores.add(92);
examScores.add(85);
examScores.add(78);
examScores.add(92);
```

Check Existance

```
examSc ore s.h as(85);
```

Delete

```
examSc ore s.d ele te(78);
```

Min

```
examSc ore s.m in();
```

Max

```
examSc ore s.m ax();
```

Size

```
examSc ore s.s ize();
```

Loop

```
for (let score of examSc ore s.t o
{
     consol e.l og( `Exam score: $
;
}
```

Clear

```
examSc ore s.c lear();
```

Stack

Declaration

```
let browsi ngH istory = new Stack(
```

Push

```
browsingHistory.push("https://www.
browsingHistory.push("https://www.
browsingHistory.push("https://www.
```

Peek

```
let first = browsi ngH ist ory.pe
```

Pop

```
let item = browsi ngH ist ory.pop(
```

Size

```
browsi ngH ist ory.si ze();
```

Declaration

```
let train = new Linked List();
```

Append

```
train.a pp end ("Engine Car");
train.append("Passenger Car 1");
train.append("Dining Car");
train.append("Passenger Car 2");
train.append("Cargo Car");
```

Head

```
let car = train.g et Head();
```

Get At Index

```
let car = train.g et At(2);
```

Add At Index

```
train.a dd At(3, " Luxury Car");
```

Prepend

```
train.p re pen d("Pilot Car"); // Add to the fr
ont
```

Remove

```
train.r em ove ("Dining Car");
```

Remove At Index

```
train.r em ove At(2);
```

Contains

```
train.c on tai ns( " Dining Car");
```

Loop

```
for (let car of train) {
     consol e.l og( `In spe cting car: ${car}`)
;
}
```

Initialization with custom comparator

```
const byPage Count = (a, b) => a.pages - b.pages;
let bookshelf = new Sorted Lis t(b yPa geC ount);
```

Add

```
let book1 = { title: " Short Storie s", pages: 150 };
let book2 = { title: " Nov el", pages: 320 };
let book3 = { title: " Poe ms", pages: 80 };
let book4 = { title: "Long Novel", pages: 480 };
bookshelf.add(book1);
bookshelf.add(book2);
bookshelf.add(book3);
```

Get At Index

```
let select edBook = booksh elf.ge t(0);
```

Contains

```
booksh elf.co nta ins (bo ok3);
```

Remove

```
booksh elf.re mov e(b ook3);
```

Min

```
let smalle stBook = booksh elf.min();
```

Max

```
let larges tBook = booksh elf.max();
```

Size

```
booksh elf.si ze();
```

Loop

```
for (let book of booksh elf.to Arr ay()) {
     consol e.l og( `${ boo k.t itle} (${boo k.p ages} page
s)`);
}
```

Clear

```
booksh elf.cl ear();
```

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