Javascript Basic Cheat Sheet

by oren01 via cheatography.com/66287/cs/16539/

Console

Print to console	`consol e.l og(...)`

Comments

One line	`// single line comment`

Multi lines	`/*`
	`A multi line comment`
	`*/`

Data Types

`number`	3, 3.1, -3.1, 3e5, 3e-5
`string`	"abc", 'abc', "", ''
`boolean`	true, false
`undefined`	No value
`null`	Value of nothing
`NaN`	Not a number

Numbers

`var x = 3.1415;`	Declare a number
`x.toFi xed(2)`	To string, fixed decimals
`parseI nt( " 2")`	Convert a string to int
`parseF loa t("1.23 ")`	Convert a string to float

Strings

`var s = " Hel lo"`	Declare and assign a string
`s.length`	Length of string
`s.char At(0)`	Access a character at index
`s.inde xOf ("el ")`	Index of a substring
`s.slice(2, 4)`	Part of string (start, end)

Arithmetic Operators

`+, -, *, /`	Add, subtract, multiply, divide
`%`	Modulus (reminder)
`=`	Assignment
`++, --`	Increment, decrement
`+=, -=, *=, /=, %=`	Operation and assignment
`?`	`a = (x > y)? b: c;`

Comparisons

`==, !=`	Equal to, not equal
`===, !==`	with type
`>, <, >=, <=`	Greater/Less or equal
`&&, ||, !`	And, Or, Not

Functions

Declare a function

```
function myFunc(p1, p2) {
    statements;
    return p1 + p2;
}
```

Use a function

```
x = myFunc(1, 5);
```

Function variable

```
var f = functi on(p1, p2) {
    statements;
    return p1 + p2;
};
```

Use function varialbe

```
x = f(1, 5);
```

Conditionals

if

```
if (x > y) {
    statements;
}
```

if..else

```
if (x > y) {
    statements;
} else {
    sta tem ents;
}
```

if..else if

```
if (x > y) {
    statements;
} else if (x > z) {
    statements;
} else {
    sta tem ents;
}
```

Conditionals (cont)

switch..case

```
switch(x) {
    case 1:
        statements;
        break;
    case 2:
        statements;
        break;
    default:
        statements;
}
```

Loops

while

```
var x = 0;
while (x < y) {
    statements;
     ++x;
}
```

for

```
for (var x = 0; x < y; ++x) {
    statements;
 }
```

continue — Stop current iteration, continue with next one

break — Stop loop immediately

for/in

```
var x = [ " abc ", " efg ", " hij " ];
for (i in x) {
    statements; // i = 0,1,2...
 }
```

for/of

```
var x = [ " abc ", " efg ", " hij " ];
for (i of x) {
    statements; // i = "abc","efg",..
 }
```

Arrays

`var a = [8, " hi", 6 ]`	Declare and assign
`var a = []`	Declare empty array
`a[0]`	Extract the first element
`a[0] = " xx"`	Set the first element
`a.length`	Length of array
`a.push(17)`	Add element to array
`a.pop()`	Remove the last element
`a.splice( s, r, e1, e2..)`	From index `s`, remove `r` elements, then add `e1, e2...`
`a.forE ach(f)`	Run function f(e) for each element in array

Objects

Literal object

```
var x = {
  name: "cool",
  size: 10,
  sayHi = function() {
    console.log(this.name);
  }
}
```

Constructor

```
function MyObj(nm) {
  this.name = nm;
  this.size = 10;
  this.sayHi = function() {
    console.log(this.name);
  }
}
```

Create new object

```
var x = new MyObj( " coo l");
```

Use object

```
console.log(x.size);
x.sayHi();
```