JAVASCRIPT CODING

for Beginners



HELLO WORLD

```
<!-- *.html -->
<script src="scripts/main.js"></script>

// *.js
var myHeading = document.querySelector("h1");
myHeading.textContent = "Hello world!";
```

COMMENTS

```
// diese Zeile wird nicht als
// ausführbarer Code interpretiert

/*
    diese Zeilen werden nicht als
    ausführbarer Code ninterpretiert
*/
```

VARIABLEN TYPEN

- Number
- String
- Boolean

Number

```
var a = 1;
```

String

```
var b = "Hallo World";
```

Boolean

```
var c = true;
```

Number

```
var pi = 3.14;
```

Ganzzahlen, Fließkommawert

String

```
var b = "Hallo World";
```

Zeichen, Wörter, Texte

Boolean

```
var c = true;
```

true oder false

VARIABLEN TYPEN

- Number
- String
- Boolean
- Array
- Object

ARRAY

Leer

Numbers

```
var a = [ "Apfel", "Birne" ];
```

Strings

Mixed

OBJECT

```
var a = {};
```

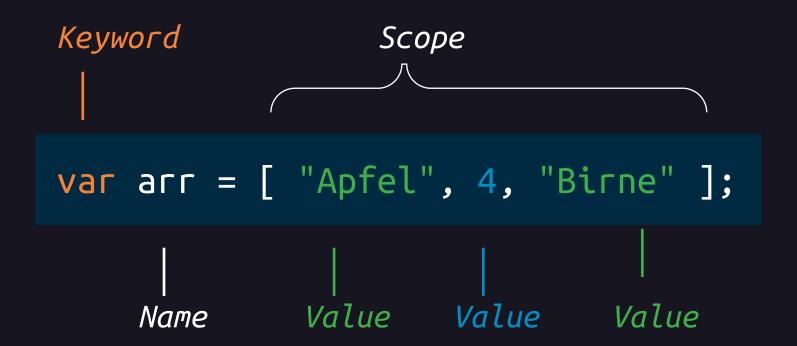
var a = { name : "Christian" };

var a = {
 vorname : "Christian",
 nachname : "Marienfeld"
 };

Leer

Key : Value

SYNTAX ARRAY



SYNTAX OBJECT

```
Keyword
|
| Scope
|
| Var obj = { name : "Christian" };
|
| Name | Key Value
```

BEISPIEL

```
var a = {
            version: 1,
            users: [
                  name: "Christian",
                  alter: 23
                  name: "Eva",
                  alter: 19
```

OBJECT/ARRAY NOTATION

```
var a = {
          version: 1,
          users: [
              name: "Christian",
              alter: 23
            },
              name: "Eva",
              alter: 19
```

```
console.log( a );
    // ganze Object
console.log( a.version );
   // 1
console.log( a.users );
    // Array
console.log( a.users[1].name );
    // ???
```

OPERATORS

```
var foo = 1;
var bar = "2";
console.log(foo + bar); // ???
```

OPERATORS

```
var foo = "hello";
var bar = "world";
console.log(foo + " " + bar);
```

OPERATORS

```
var num = 2 + 3;
var num = 3 - 2;
var num = 2 * 3;
var num = 2 / 3;
```

SCHLEIFE ARRAY

```
var arr = [ "Chris", "Eva", "Steff" ];
for ( key in arr ) {
  console.log( arr[ key ] );
}
```

```
function myFunc ( str ) {
    };
```

```
Keyword
|
| Scope
|
function myFunc ( str ) { };
```

```
function myFunc ( str ) {
  console.log( str );
};

myFunc("Hello World");
```

```
Keyword Functionsname
                         Function
var myFunc = function ( str ) {
  console.log( str );
};
myFunc("Hello World");
```

BEISPIEL

```
var _app = {
              version: 1,
              users: ["Christian", "Eva"],
              getUsers: function () {
                 return a.users;
              },
              setUsers: function (arr) {
                 if (arr) {
                     a.users = arr;
                     a.version++;
                     return true;
                 return false;
          };
```

BEISPIEL

```
var _app = {
            version: 1,
             users: ["Christian", "Eva"],
             getUsers: function () {
                 return a.users;
            },
             setUsers: function (arr) {
                 if (arr) {
                     a.users = arr;
                     a.version++;
                     return true;
                 return false;
         };
```

```
var users = _app.getUsers();
console.log( users );
// Christian, Eva
var arr = ["Max", "Sebbo", "Marla"];
_app.setUsers( arr );
console.log( _app.getUsers() );
// Max, Sebbo, Marla
```

ZUSAMMENFASSUNG

```
var num = 1; // Number Variable
var str = "Hallo Welt"; // String Variable
var obj = { userlist: [ "Chris", "Max", "Anne" ] }; // Object
var myFunc = function ( param ) { // Functiondeclaration
   console.log( param );
   return true;
};
if ( str ) { // Wenn-Dann
   myFunc( str );
```