

# MOBILE DEVELOPMENT

## JavaScript Basics

# 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

```
var a = [];
```

*Leer*

```
var a = [ 1, 2, 3 ];
```

*Numbers*

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

*Strings*

```
var a = [ "Apfel", 4, "Birne" ];
```

*Mixed*

# OBJECT

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

*Leer*

```
var a = { name : "Christian" };
```

*Key : Value*

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

# SYNTAX ARRAY

*Keyword*

*Scope*

```
var arr = [ "Apfel", 4, "Birne" ];
```

*Name*

*Value*

*Value*

*Value*



# 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 );  
    // ???
```

# SCHLEIFE ARRAY

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

# SYNTAX FUNCTION

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

# SYNTAX FUNCTION

*Keyword*

|

*Scope*

⎵

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

|

*Name*

|

*Parameter*

# SYNTAX FUNCTION

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

```
myFunc("Hello World");
```

# SYNTAX FUNCTION

*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 );  
}
```