Introcution to JavaScript

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Overview

- 12 Sessions
- every Wednesday, 13:00 14:30
- Room: APB/00X

Questions after the lesson?

- · Matrix: ...
- GitHub

Verbal Language?

Is there someone that only speaks English fluently?

Goals

- Learn the basics of JavaScript
- · Learn to manipulate the Browser
- · Complete a small project of your choice

Who am I?

- Nils Twelker
- mail@nitwel.de
- · Hobbys: Cycling, Programming, Gaming
- Favorite Game: Minecraft
- I also contribute a lot to Open Source Software

Who are you?

- · Name?
- Hobbys?
- · Favorite Game?
- Do you know JavaScript?
- Prior experience with programming?

What can you build with JavaScript?

- An interactive website
- A game
- An app of mobile devices
- A desktop app

And much more!

Getting started

You need the following

- VS Code for writing code
- Node.js for running JavaScript outside a browser
- Git for Version Control

Running your first JavaScript code

- Open VS Code
- Create a new file
- Write console.log("Hello World")
- Save the file as index.js
- · Open a terminal
- Run node index.js

Variables

```
let myAge = 16
const myName = "Ben"
```

- Store Data
- let can be changed
- const can not be changed

Data Types

```
let myAge = 16
let myName = "Ben"
let isAdult = true
```

- number for numbers
- string for text
- boolean for true or false

Special Data Types

```
let yourAge = null
let yourName
```

- null for empty values
- undefined for variables that are not yet defined

Basic Operators

Tipp: Remainder is the rest of a division

Comments

```
// This is a single line
comment
/*
This is a
multi line
comment
*/
```

Tipp: Comments can help explain the code and ignored by the computer