Advanced JavaScript Part 2

jan.schulz@devugees.org

1. Agenda

- 1. Introduction to JQuery
- 2. The six core functions of JQuery
- 3. Benefits of JQuery
- 4. Introduction to NPM
- 5. \$() and jQuery()

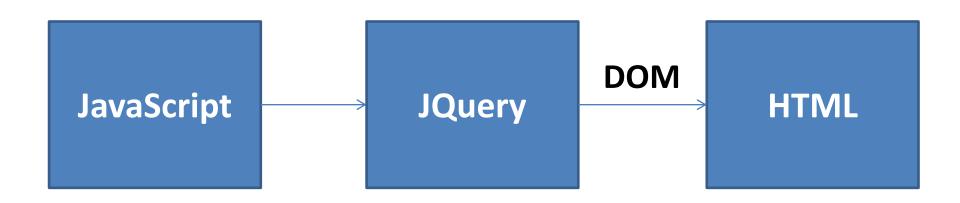
1. Introduction to JQuery

- Is a JavaScript library
 - Not a framework
- Automates a bunch of common VanillaJS tasks
 - "1 Line of Code"
- 10 years old
- Cross-Browser Functionality

1. Introduction to JQuery



1. Introduction to JQuery



1. Access DOM elements

\$('div')

-> access all DIV elements on the page

2. Modify the appearance of a page

```
$('div').addClass('highlight');
```

-> add class highlight to all divs

```
$('div').removeClass('highlight');
```

-> remove class highlight from all divs

3. Alter the content of a page

\$('div').append('<div>Hallo World</div>');

-> adds a div with Hallo World to all divs

4. Animate web page changes

```
$('div').fadeOut();
```

-> each div on the page fades out and disappears

```
$('div').slideUp();
```

-> each div on the page slides up and disappears

5. Retrieve data from the server

```
$('div').load('content.html');
```

-> loads the content of an HTML files into a div

6. Respond to user interaction

```
$('div').click( function() {
    alert('Hallo World');
});
```

-> when clicking on any div, alert Hallo World

3. Benefits of JQuery

1. Minimal Code

Jquery operates on sets of elements

2. Large Library

Wide variety of inventive and useful modules

3. Strong community

Stack Overflow = Your new best friend

4. Cross-Browser Support

Chrome, Firefox, IE, Safari

5. AJAX Support

Easier than in VanillaJS

3. Benefits of JQuery

Biggest benefit:

Everybody uses it.

4. Introduction to NPM

- NPM = Node Package Manager
 - Manages (Mainly Installs and Removes) packages for <u>NodeJS</u> applications
- NodeJS = Serverside JavaScript
 - More on that later …
- Let us install watch-http-server
 sudo npm install –g watch-http-server

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 - wraps jQuery functionality around it
 - returns it

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- It is not the native JavaScript Object for DOM