



VSR://edu/2016/evs/

05 – jQuery

//// Design of Distributed Systems

////////////////////////////////////

Dipl.-Inf. André Langer

VSR.Informatik.TU-Chemnitz.de

1 Repetition

What you should already know:

CSS

ECMAScript (JavaScript)

DOM

XHR

Are there any Questions
concerning

Assignemtn 4 ?

Guestbook

Heribert: Hallo [\(X\)](#)

Heribert2: Hallo Welt [\(X\)](#)

Bernd Wiesacher: Hallo ihr alle [\(X\)](#)

Bernd Wiesacher: Ich konnte wegen Verspätung der Straßenbahn einen wichtigen Termin nicht



JavaScript helpers

Motivation

Instead of writing

```
document.getElementById("id").innerHTML
```

you could state something like

```
$("#id").html()
```

Motivation

Instead of writing

```
document.getElementById("id").style.fontFamily = "Arial"
```

you could state something like

```
$("#id").css("font-family", "Arial")
```

Motivation

Instead of writing

```
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200)
        document.getElementById("id").innerHTML
            = this.responseText;
};
xhttp.open("GET", "data.xml", true);
xhttp.send();
```

you could state something like

```
$.get("data.xml", data => $("#id").html(data))
```


Motivation

Instead of writing

```
if (document.addEventListener) {  
    // For all major browsers, except IE 8 and earlier  
    document.getElementById("id").addEventListener("click", myFunction);  
} else if (document.attachEvent) {  
    // For IE 8 and earlier versions  
    document.getElementById("id").attachEvent("onclick", myFunction);  
}
```

you could state something like

```
$("#id").on("click", myFunction)
```

Motivation

And do stuff like

```
$("#id").animate({ opacity: 0.5, height: "50%" }
```

```
$("#myform").validate(options);
```

```
$("#div").on("swipe", function(){  
    // do something  
});
```

A lot of JavaScript libraries and frameworks exist

*jQuery*

AngularJS

ReactJS

KnockoutJS

...

In order to build a website, you need knowledge in...

Marketing

Design

Client-Side Code

Browser

Server-Side Code

Web Server

Databases

OS

Management

SEO SEM Support
UI/UX Design Responsive Photoshop
HTML5 CSS JavaScript XML
Bootstrap jQuery DOM AngularJS Cordova
IE, Chrome, Firefox AJAX MobileDev
Webservices Architecture OOP
PHP ASP.NET Java Python nodeJS
Sockets Load Balancing Caching
Apache IIS Security Protocols
MySQL MS SQL Oracle NoSQL
Linux Windows Server Storage
Routing DNS Devices
Git / SVN Tooling Documentation



jQuery

jQuery is

- (still) the most often used JavaScript library; MIT license
- jQuery Core offers a large set of helper methods for DOM navigation and manipulation
- Lots of plugins and extensions

jQuery

- Exists in 3 different versions, which are only loosely cross-compatible
 - V1.12.4
 - V2.2.4
 - V3.1.1
- Separate projects such as
 - jQuery UI
 - jQuery Mobile

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Lets code...



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Thank You!

Andre.Langer@informatik.tu-chemnitz.de

VSR.Informatik.TU-Chemnitz.de