

Workshop 12: JavaScript och jQuery

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Objectives

Introduction to JavaScript, DOM API, DOM events and JQuery.

Resources

Slides and code samples from lecture 12.

[Language reference at MDN](#)

[JavaScript guide at MDN](#)

[Tutorial at w3schools](#)

JavaScript [style guides](#)

JavaScript Core

Download **l12.zip** from lectures page. Run code samples using Node, hs and Chrome Developer Tools. You should collect at least 2 “hard to understand” code passages per person. At examination discuss the points with the TA(‘s).

JavaScript DOM API

The task is to dynamically create an HTML-table using plain JS and the standard DOM API. Easiest is to use the hs-server but you may use anything.

1. Download **js_jq.zip**
2. Unzip and step into /table, start hs in same directory.
3. Visit <http://localhost:8080/>
4. Open you favorite editor and finish the function createTable (see TODO marks, where to start).
5. Preferably use an external CSS, but also ok to set style directly in JS code.

The	Document	Object	Model	(DOM)
is	a	programming	interface	forHTML,
XML	and	SVG	documents.	It
provides	a	structured	representation	of
the	document	as	a	tree.
The	DOM	defines	methods	that
allow	access	to	the	tree,
so	that	they	can	change
the	document	structure,	style	and
content.	undefined	undefined	undefined	undefined

JS Design and JQuery

Now we'll create a "module" for a table and a control layer to handle interaction between the page and the module (i.e. objects created from module). This in combination with jQuery DOM API and event handling will result in the editable table shown below.

This page uses a table module and jQuery for eventhandling

☒

Edit

Value

The	Document	Object
Model	XXXX	is
a	programming	interface
forHTML,	XML	and
SVG	documents.	It

Clicking button create will create a new table (replacing any existing) and clicking edit will edit specified table cell (row, col).

Some links are [Pseudo-classical pattern](#) and [jQuery](#)

1. Go to /module in js_jq and start hs.
2. Visit <http://localhost:8080/>
3. See TODO comments in files what to do.

Optional

To edit the table it's nicer to just click on some table cell. When clicked, the cell shows an editable text input. When pressing enter in edit cell the update and redisplay happens. Try it!

Examination

Contact teaching assistant for a demo.