

JavaScript Treeview

Beispiel: ohne großes Framework

☰ Programmiersprachen

HTML:

[treeview.htm \(/code/treeview.htm?mode=download\)](#) HTML (796 bytes) 06.12.2013 22:06

```
<html>
<head>
<script type="text/javascript" src="jsTreeview.js"></script>
<link rel="stylesheet" type="text/css" href="treeview.css" /></head>
<body>
<ul class="tree">
<li>Programmiersprachen
<ul>
<li>Maschinensprachen
<ul>
<li>Assembler
</li>
</ul>
</li>
<li>Hochsprachen
<ul>
<li>C
</li>
<li>Java
</li>
<li>Pascal
</li>
</ul>
</li>
<li>Scriptsprachen
<ul>
<li>PHP
</li>
<li>Javascript
</li>
<li>Perl
</li>
<li>VB-Script
</li>
</ul>
</li>
</ul>
</li>
</ul>
</body>
</html>
```

JavaScript:

[jsTreeview.js \(/code/jsTreeview.js?mode=download\)](#) JavaScript (2,88 kByte) 06.12.2013 22:10

```
function getElementsByClassName(searchClass, tagName, domNode) {
if (domNode == null) domNode = document;
if (tagName == null) tagName = '*';
var el = new Array();
var tags = domNode.getElementsByTagName(tagName);
var tcl = ""+searchClass+"";
for(var i=0,j=0; i<tags.length; i++) {
var test = "" + tags[i].className + "";
if (test.indexOf(tcl) != -1) {
el[j++] = tags[i];
}
};
return el;
}

function getChildNodes(parentElement, tagName) {
var childs = parentElement.childNodes;
var children = [];
for (var i=0; i<childs.length; i++) {
if (((childs[i].nodeType == 1) ? childs[i].tagName.toLowerCase() : "") == tagName) {
children.push(childs[i]);
}
};
return children;
}
```

```

}

function jsTree(){
  this.branches = 0;
}

jsTree.prototype = {
  toggle: function(id) {
    var el = document.getElementById(id);
    if (el.className=='nextPlus') el.className = 'nextMinus';
    else if (el.className=='nextMinus') el.className = 'nextPlus';
    else if (el.className=='lastPlus') el.className = 'lastMinus';
    else if (el.className=='lastMinus') el.className = 'lastPlus';
    var branch = el.parentNode.getElementsByTagName("ul")[0];
    branch.className = (branch.className=="") ? 'visible' : "";
  },
  init: function(tree, ebenen) {
    var self = this;
    if (!ebenen) ebenen = [];
    var liNodes = getChildNodes(tree, "li");
    for (var i=0; i<liNodes.length; i++) {
      if (liNodes[i].getElementsByTagName("ul").length>0) {
        var el = document.createElement("a");
        el.className = (i==liNodes.length-1) ? "lastPlus" : "nextPlus";
        ++this.branches;
        el.id = "branch" + this.branches;
        el.onclick = function(ev) {
          self.toggle(this.id);
          if ((ev) && (ev.stopPropagation)) {
            ev.stopPropagation();
          };
        };
        ebenen.push((i==liNodes.length-1) ? 'blank' : 'cont');
        this.init(liNodes[i].getElementsByTagName("ul")[0], ebenen);
        ebenen.pop();
      } else {
        var el = document.createElement("span");
        el.className = (i==liNodes.length-1) ? "last" : "next";
      };
      liNodes[i].insertBefore(el, liNodes[i].firstChild);
      for (var a=ebenen.length-1; a>=0; a--) {
        var el = document.createElement("span");
        el.className = ebenen[a];
        liNodes[i].insertBefore(el, liNodes[i].firstChild);
      }
    }
  }
}

function initTrees() {
  var treeList = getElementsByClassName("tree", "ul");
  for (var i=0; i<treeList.length; i++) {
    var tree = new jsTree();
    tree.init(treeList[i]);
  };
}

if (window.addEventListener) {
  window.addEventListener('load', function(event) {initTrees();});
} else if (window.attachEvent) {
  window.attachEvent('onload', function(event) {initTrees();});
} else {
  window['onload'] = function(event) {initTrees();};
}

```

Stylesheet:

 [treeview.css \(/code/treeview.css?mode=download\)](/code/treeview.css?mode=download) StyleSheet (1,09 kByte) 12.03.2016 16:13

```

ul.tree, ul.tree ul {
  list-style: none;
  list-style-image: none;
  margin: 0;
  padding: 0;
  font-family: Arial, Helvetica, sans-serif;
  font-size: 13px;
}
ul.tree li {
  padding: 0;
  margin: 0;
  line-height: 18px;
}
ul.tree ul {

```

```
display: none;
}
ul.tree ul.visible {
display: block;
}
ul.tree a.nextPlus, ul.tree a.lastPlus, ul.tree a.nextMinus, ul.tree a.lastMinus,
ul.tree span.cont, ul.tree span.next, ul.tree span.blank, ul.tree span.last {
float: left;
display: block;
width: 18px;
height: 18px;
background: transparent url(/styles/images/branch.png) no-repeat 0 0;
margin: 0 2px 0 0;
padding: 0
}
ul.tree span.blank {
background-position: 0 0;
}
ul.tree span.cont {
background-position: -18px 0;
}
ul.tree span.next {
background-position: -36px 0;
}
ul.tree span.last {
background-position: -54px 0;
}
ul.tree a.nextPlus {
background-position: -72px 0;
}
ul.tree a.lastPlus {
background-position: -90px 0;
}
ul.tree a.nextMinus {
background-position: -108px 0;
}
ul.tree a.lastMinus {
background-position: -126px 0;
}
}
```

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