```
1
 2
          File: widgEdit.js
          Created by: Cameron Adams (http://www.themaninblue.com/)
 3
     * ×
 4
          Created on: 2005-01-16
 5
          Last modified: 2008-03-01
     -X-X
 6
     -X-X
 7
     -X-X
 8
 9
10
     **
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11
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12
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13
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26
     * ×
27
28
     <del>**</del> *
     * ×
29
     -X--X-
30
     **
31
          Purpose:
     -X-X-
32
33
     -X-X
     **
          Replaces all textareas (class="widgEditor") in a HTML document with
34
35
          enhanced editing windows to allow basic HTML formatting in a WYSIWYG
     ** *
36
          manner.
     -X-X
37
     **
38
39
40
     <del>* *</del>
41
     -X-X-
          Function list:
     **
42
     <del>**</del> **
43
     <del>**</del> **
44
          run()
45
     -X-X-
     ** *
46
          widgInit()
47
     -<del>X-X-</del>
48
         widgEditor(replacedTextareaID)
     **
49
         widtEditor.cleanPaste()
50
     **
          widgEditor.cleanSource()
51
          widgEditor.convertSPANs(theSwitch)
52
          widgEditor.detectPaste(e)
          widgEditor.initEdit()
     ** *
53
     ** *
54
          widgEditor.insertNewParagraph()
     -<del>X-X-</del>
55
          widgEditor.modifyFormSubmit()
     -<del>X-X-</del>
56
          widgEditor.paragraphise()
     -<del>X-X-</del>
57
          widgEditor.refreshDisplay()
     -<del>X-X-</del>
58
          widgEditor.switchMode()
     **
59
          widgEditor.updateWidgInput()
60
          widgEditor.writeDocument()
61
62
          widgToolbar()
     **
          widgToolbar.addButton(theID, theClass, theLabel, theAction)
63
         widgToolbar.addSelect(theID, theClass, theContentArray, theAction)
64
         widgToolbar.disable()
65
     -<del>X-X-</del>
         widgToolbar.enable()
66
     ** *
67
          widgToolbar.setState(theState, theStatus)
     **
68
         widgToolbarAction()
69
```

```
70
      * ×
 71
           widgToolbarCheckState(theWidgEditor, resubmit)
      * *
 72
      **
 73
           widgToolbarMouseover()
      * ×
 74
      **
 75
          acceptableChildren(theNode)
      -X-X-
 76
      **
 77
          changeNodeType(theNode, nodeType)
      **
 78
      <del>**</del> **
 79
          replaceNodeWithChildren()
 80
      -X-X-
 81
      **
           String.addClass(theClass)
      **
 82
          String.classExists(theClass)
          String.isAcceptedElementName()
 83
 84
          String.isInlineName()
 85
      **
          String.removeClass(theClass)
      **
 86
           String.reverse()
 87
          String.validTags()
 88
 89
 90
      function isNumeric(n) {
 91
            return !isNaN(parseFloat(n)) && isFinite(n);
 92
 93
 94
      95
      ** CONFIGURATION VARIABLES
 96
                  97
 98
 99
      /* Location of stylesheet file for editor content */
      var widgStylesheet = "widgContent.css";
100
101
102
      /* Items to appear in toolbar. */
103
      var widgToolbarItems = new Array();
104
105
      widgToolbarItems.push("bold");
106
      widgToolbarItems.push("italic");
107
      widgToolbarItems.push("underline");
108 widgToolbarItems.push("hyperlink");
109 widgToolbarItems.push("unorderedlist");
110 widgToolbarItems.push("orderedlist");
111 widgToolbarItems.push("image");
112 widgToolbarItems.push("htmlsource");
113
      widgToolbarItems.push("blockformat");
114
115
      /* Options on block format select element. Consists of string pairs (option value, option label) */
      var widgSelectBlockOptions = new Array();
116
117
118 widgSelectBlockOptions.push("", "Change block type");
widgSelectBlockOptions.push("", "Change block type"
widgSelectBlockOptions.push("<h1>", "Heading 1");
widgSelectBlockOptions.push("<h2>", "Heading 2");
widgSelectBlockOptions.push("<h3>", "Heading 3");
widgSelectBlockOptions.push("<h4>", "Heading 4");
widgSelectBlockOptions.push("<h5>", "Heading 5");
widgSelectBlockOptions.push("<h6>", "Heading 6");
widgSelectBlockOptions.push("", "Paragraph");
126
      /* If widgInsertParagraphs = true, when content is submitted paragraphs will be
127
      ** inserted around text without a parent element. Mozilla does not
128
129
      ** automatically do this, so if this is set to false you will end up with some
130
      ** plain text blocks. Uses a double <br /> as a pargraph marker.
131
132
      var widgInsertParagraphs = true;
133
134
      /* If widgAutoClean = true, when content is pasted into the WYSIWYG view, it
135
136
      ** will automatically be cleaned. If widgAutoClean = false, the user will be
      ** prompted as to whether they wish to clean the content.
137
138
```

```
139
140
     var widgAutoClean = false;
141
      ********************************
142
     ** END CONFIGURATION
143
                              144
145 /*
          O comando run() inicializava todos os Textareas
146
147
          Omitindo-o, quem passa a ditar o comportamento de widgEditor.js é widgInit
148
          Data: 09/05/2019
149
150
151
     //run();
152
153
154
155
156
     function run()
157
     {
158
          var oldOnload = window.onload;
159
          if (typeof(window.onload) != "function")
160
161
162
               window.onload = widgInit;
          }
163
164
          else
165
          {
166
               window.onload = function()
167
                {
168
                     oldOnload();
169
                     widgInit();
170
                }
171
          }
172
     }
173
174
175
          O comando widgInit() inicializava todos os Textareas
176
          Colocamos um parâmetro, na forma de Array, com os Ids dos Textareas que vão ser inicializados
177
          com o controle de edição.
178
          Data: 09/05/2019
179
180
181
182 function widgInit(elegiveis)
183
184
           /* Detects if designMode is available, and also if browser is IE or Mozilla (excludes Safari) */
          if (typeof(document.designMode) == "string" && (document.all || document.designMode == "off"))
185
186
                //var theTextareas = document.getElementsByTagName("textarea");
187
188
               var theTextareas = elegiveis;
189
               for (var i = 0; i < theTextareas.length; i++)</pre>
190
                {
191
                     var theTextarea = theTextareas[i];
192
193
                     if (theTextarea.className.classExists("widgEditor"))
194
                     {
                          if (theTextarea.id == "")
195
196
                          {
197
                               theTextarea.id = theTextarea.name;
198
                          }
199
200
201
                          setTimeout("new widgEditor(" + theTextarea.id + "')", 500 * (i));
                     }
202
               }
203
204
          }
205
          else
206
          {
207
                return false;
```

```
208
           }
209
210
           return true;
211
     }
212
213
214
215
216 function widgEditor(replacedTextareaID)
217
           var self = this;
218
219
220
           this.theTextarea = document.getElementById(replacedTextareaID);
221
           this.theContainer = document.createElement("div");
           this.theIframe = document.createElement("iframe");
222
223
           this.theInput = document.createElement("input");
224
           this.theExtraInput = document.createElement("input");
225
           this.IE = false;
226
           this.locked = true;
           this.pasteCache = "";
227
228
           this.wysiwyg = true;
229
230
           if (document.all)
231
           {
232
                this.IE = true;
233
           }
234
235
           if (this.theTextarea.id == null)
236
           {
237
                this.theTextarea.id = this.theTextarea.name;
           }
238
239
240
           this.theTextarea.style.visibility = "hidden";
241
242
           /* Modify DOM objects for editor */
243
           this.theContainer.id = this.theTextarea.id + "WidgContainer";
244
           this.theContainer.className = "widgContainer";
245
           this.theIframe.id = this.theTextarea.id + "WidgIframe";
246
247
           this.theIframe.className = "widgIframe";
248
249
           this.theInput.type = "hidden";
250
           this.theInput.id = this.theTextarea.id;
251
           this.theInput.name = this.theTextarea.name;
252
           this.theInput.value = this.theTextarea.value;
253
254
           this.theToolbar = new widgToolbar(this);
255
256
           /* An extra input to determine if the submitted data is from the normal textarea or from the widgEditor */
           this.theExtraInput.type = "hidden";
257
           this.theExtraInput.id = this.theTextarea.id + "WidgEditor";
258
259
           this.theExtraInput.name = this.theTextarea.name + "WidgEditor";
260
           this.theExtraInput.value = "true";
261
262
           this.theTextarea.id += "WidgTextarea";
           this.theTextarea.name += "WidgTextarea";
263
264
           this.theContainer.appendChild(this.theToolbar.theList);
265
266
           this.theContainer.appendChild(this.theIframe);
267
           this.theContainer.appendChild(this.theInput);
268
           this.theContainer.appendChild(this.theExtraInput);
269
           this.theContainer.style.visibility = "hidden";
270
271
           this.theInput.widgEditorObject = this;
272
273
           this.theTextarea.parentNode.replaceChild(this.theContainer, this.theTextarea);
274
275
           /* Fill editor with old textarea content */
276
           this.writeDocument(this.theInput.value);
```

```
277
278
           /* Make editor editable */
          this.initEdit();
279
280
           /* Attach onsubmit to parent form */
281
          this.modifyFormSubmit();
282
283
284
          return true;
285 }
286
287
288
289
     /* Clean pasted content */
290
291
     widgEditor.prototype.cleanPaste = function()
292
293
           if (widgAutoClean || confirm("Do you wish to clean the HTML source of the content you just pasted?"))
294
                var matchedHead = "";
295
296
                var matchedTail = "";
297
                var newContent =
     this.theIframe.contentWindow.document.getElementsByTagName("body")[0].innerHTML;
298
                var newContentStart = 0;
299
                var newContentFinish = 0;
                var newSnippet = "";
300
301
                var tempNode = document.createElement("div");
302
303
                /* Find start of both strings that matches */
304
                for (newContentStart = 0; newContent.charAt(newContentStart) ==
     this.pasteCache.charAt(newContentStart); newContentStart++)
305
306
                      matchedHead += this.pasteCache.charAt(newContentStart);
307
                }
308
                /* If newContentStart is inside a HTML tag, move to opening brace of tag */
309
310
                for (var i = newContentStart; i >= 0; i--)
311
                {
312
                     if (this.pasteCache.charAt(i) == "<")</pre>
313
                      {
314
                           newContentStart = i;
315
                           matchedHead = this.pasteCache.substring(0, newContentStart);
316
317
                           break;
318
                     }
319
                     else if(this.pasteCache.charAt(i) == ">")
320
                     {
321
                           break;
322
                     }
323
                }
324
325
                newContent = newContent.reverse();
326
                this.pasteCache = this.pasteCache.reverse();
327
328
                /* Find end of both strings that matches */
329
                for (newContentFinish = 0; newContent.charAt(newContentFinish) ==
     this.pasteCache.charAt(newContentFinish); newContentFinish++)
330
                {
331
                      matchedTail += this.pasteCache.charAt(newContentFinish);
332
                }
333
                /* If newContentFinish is inside a HTML tag, move to closing brace of tag */
334
335
                for (var i = newContentFinish; i >= 0; i--)
336
                     if (this.pasteCache.charAt(i) == ">")
337
338
                      {
339
                           newContentFinish = i;
340
                           matchedTail = this.pasteCache.substring(0, newContentFinish);
341
342
                           break;
```

```
343
344
                      else if(this.pasteCache.charAt(i) == "<")</pre>
345
                      {
346
                            break;
347
                 }
348
349
                 matchedTail = matchedTail.reverse();
350
351
                 /* If there's no difference in pasted content */
352
                 if (newContentStart == newContent.length - newContentFinish)
353
354
                 {
355
                      return false;
                 }
356
357
358
                newContent = newContent.reverse();
359
                 newSnippet = newContent.substring(newContentStart, newContent.length - newContentFinish);
360
                 newSnippet = newSnippet.validTags();
361
362
                 /* Replace opening bold tags with strong */
363
                 newSnippet = newSnippet.replace(/<b(\s+|>)/g, "<strong$1");</pre>
364
                 /* Replace closing bold tags with closing strong */
                newSnippet = newSnippet.replace(/\langle /b(\rangle +|>)/g_r "</strong$1");
365
366
                 /* Replace italic tags with em */
367
368
                 newSnippet = newSnippet.replace(/<i(\s+|>)/g, "<em$1");</pre>
369
                 /* Replace closing italic tags with closing em */
370
                newSnippet = newSnippet.replace(/<//i(\s+|>)/g_r"</em$1");
371
372
                 /* Strip out unaccepted attributes */
373
                newSnippet = newSnippet.replace(/<[^>]*>/g, function(match)
374
                      {
375
                            match = match.replace(/ ([^=]+)="[^"]*"/g, function(match2, attributeName)
376
                                  ₹
                                       if (attributeName == "alt" || attributeName == "href" || attributeName ==
377
      "src" || attributeName == "title")
378
379
                                             return match2;
380
                                       }
381
382
                                       return "";
383
                                  });
384
385
                            return match;
386
                      }
387
                      );
388
                tempNode.innerHTML = newSnippet;
389
390
                acceptableChildren(tempNode);
391
392
393
                this.theInput.value = matchedHead + tempNode.innerHTML + matchedTail;
394
395
                 /* Final cleanout for MS Word cruft */
396
                 this.theInput.value = this.theInput.value.replace(/<\?xml[^>]*>/g, "");
397
                 this.theInput.value = this.theInput.value.replace(/<[^ >]+:[^>]*>/g,
398
                 this.theInput.value = this.theInput.value.replace(/<\/[^ >]+:[^>]*>/g, "");
399
400
                 this.refreshDisplay();
401
402
                 /* Convert semantics to spans in Mozilla */
403
                if (!this.IE)
404
                 {
405
                      this.convertSPANs();
406
                 }
407
           }
408
409
           return true;
410 }
```

```
411
412
413
414
415
     /* Clean the HTML code of the content area */
     widgEditor.prototype.cleanSource = function()
416
417
418
           var theHTML = "";
419
420
           if (this.wysiwyg)
421
           {
422
                theHTML = this.theIframe.contentWindow.document.getElementsByTagName("body")[0].innerHTML;
423
           }
424
           else
425
           {
426
                theHTML = this.theTextarea.value;
427
           }
428
429
           theHTML = theHTML.validTags();
430
431
           /* Remove leading and trailing whitespace */
           theHTML = theHTML.replace(/^\s+/, "");
theHTML = theHTML.replace(/\s+$/, "");
432
433
434
435
           /* Remove style attribute inside any tag */
           theHTML = theHTML.replace(/ style="[^"]*"/g, "");
436
437
438
           /* Replace improper BRs */
439
           theHTML = theHTML.replace(/<br>/g, "<br/>");
440
441
           /* Remove BRs right before the end of blocks */
442
           theHTML = theHTML.replace(/<br/>\/>\s*<\/(h1|h2|h3|h4|h5|h6|li|p)/g, "</$1");
443
444
           /* Replace improper IMGs */
           theHTML = theHTML.replace(/(\langle img [^>]+[^\/]) > /g_r "$1 />");
445
446
           /* Remove empty tags */
447
448
           theHTML = theHTML.replace(/(<[^\/]>|<[^\/][^>]*[^\/]>)\s*<\/[^>]*>/g, "");
449
450
           if (this.wysiwyg)
451
           {
452
                this.theIframe.contentWindow.document.getElementsByTagName("body")[0].innerHTML = theHTML;
453
           }
454
           else
455
           {
456
                this.theTextarea.value = theHTML;
           }
457
458
459
           this.theInput.value = theHTML;
460
461
           return true;
462 }
463
464
465
466
467
     widgEditor.prototype.convertSPANs = function(theSwitch)
468
     {
469
           if (theSwitch)
470
           {
471
                 /* Replace styled spans with their semantic equivalent */
472
                 var theSPANs = this.theIframe.contentWindow.document.getElementsByTagName("span");
473
474
                while(theSPANs.length > 0)
475
476
                      var theChildren = new Array();
477
                      var theReplacementElement = null;
478
                      var theParentElement = null;
479
```

```
480
                     for (var j = 0; j < theSPANs[0].childNodes.length; j++)</pre>
481
                      {
482
                           theChildren.push(theSPANs[0].childNodes[j].cloneNode(true));
483
                      }
484
                      /* Detect type of span style */
485
486
                     switch (theSPANs[0].getAttribute("style"))
487
488
                           case "font-weight: bold;":
489
                                theReplacementElement =
     this.theIframe.contentWindow.document.createElement("strong");
490
                                theParentElement = theReplacementElement;
491
492
                                break;
493
                           case "font-style: italic;":
494
495
                                theReplacementElement =
     this.theIframe.contentWindow.document.createElement("em");
496
                                theParentElement = theReplacementElement;
497
498
                                break;
499
                           case "font-weight: bold; font-style: italic;":
500
501
                                theParentElement = this.theIframe.contentWindow.document.createElement("em");
502
                                theReplacementElement =
     this.theIframe.contentWindow.document.createElement("strong");
503
                                theReplacementElement.appendChild(theParentElement);
504
505
                                break;
506
507
                           case "font-style: italic; font-weight: bold;":
508
                                theParentElement =
     this.theIframe.contentWindow.document.createElement("strong");
509
                                theReplacementElement =
     this.theIframe.contentWindow.document.createElement("em");
510
                                theReplacementElement.appendChild(theParentElement);
511
512
                                break;
513
                           default:
514
515
                                replaceNodeWithChildren(theSPANs[0]);
516
517
                                break;
                     }
518
519
520
                     if (theReplacementElement != null)
521
                      {
                           for (var j = 0; j < theChildren.length; <math>j++)
522
523
                           {
524
                                theParentElement.appendChild(theChildren[j]);
525
                           }
526
527
                           theSPANs[0].parentNode.replaceChild(theReplacementElement, theSPANs[0]);
                     }
528
529
                     theSPANs = this.theIframe.contentWindow.document.getElementsByTagName("span");
530
531
                }
532
          }
533
           else
534
           {
535
                /* Replace em and strong tags with styled spans */
536
                var theEMs = this.theIframe.contentWindow.document.getElementsByTagName("em");
537
                while(theEMs.length > 0)
538
539
540
                      var theChildren = new Array();
541
                     var theSpan = this.theIframe.contentWindow.document.createElement("span");
542
543
                     theSpan.setAttribute("style", "font-style: italic;");
```

```
544
545
                     for (var j = 0; j < theEMs[0].childNodes.length; j++)</pre>
546
                     {
547
                           theChildren.push(theEMs[0].childNodes[j].cloneNode(true));
                     }
548
549
550
                     for (var j = 0; j < theChildren.length; j++)</pre>
551
552
                           theSpan.appendChild(theChildren[j]);
553
                     }
554
555
                     theEMs[0].parentNode.replaceChild(theSpan, theEMs[0]);
556
                     theEMs = this.theIframe.contentWindow.document.getElementsByTagName("em");
                }
557
558
559
                var theSTRONGs = this.theIframe.contentWindow.document.getElementsByTagName("strong");
560
                while(theSTRONGs.length > 0)
561
562
                {
563
                      var theChildren = new Array();
564
                     var theSpan = this.theIframe.contentWindow.document.createElement("span");
565
                     theSpan.setAttribute("style", "font-weight: bold;");
566
567
                     for (var j = 0; j < theSTRONGs[0].childNodes.length; j++)</pre>
568
569
                      {
570
                           theChildren.push(theSTRONGs[0].childNodes[j].cloneNode(true));
                     }
571
572
573
                     for (var j = 0; j < theChildren.length; <math>j++)
574
575
                           theSpan.appendChild(theChildren[j]);
576
                     }
577
                     theSTRONGs[0].parentNode.replaceChild(theSpan, theSTRONGs[0]);
578
579
                     theSTRONGs = this.theIframe.contentWindow.document.getElementsByTagName("strong");
580
                }
581
           }
582
583
          return true;
584
     }
585
586
587
588
589
     /* Check for pasted content */
590
     widgEditor.prototype.detectPaste = function(e)
591
           var keyPressed = null;
592
593
          var theEvent = null;
594
595
          if (e)
596
           {
597
                theEvent = e;
598
           }
599
          else
600
           {
601
                theEvent = event;
602
603
          if (theEvent.ctrlKey && theEvent.keyCode == 86 && this.wysiwyg)
604
605
           {
606
                var self = this;
607
608
                this.pasteCache =
     this.theIframe.contentWindow.document.getElementsByTagName("body")[0].innerHTML;
609
610
                /* Because Mozilla can't access the clipboard directly, must rely on timeout to check pasted differences in
     main content */
```

```
611
                setTimeout(function(){self.cleanPaste(); return true;}, 100);
612
           }
613
614
           return true;
615
     }
616
617
618
619
620
     /* Turn on document editing */
     widgEditor.prototype.initEdit = function()
621
622
623
           var self = this;
624
625
           try
626
           {
627
                this.theIframe.contentWindow.document.designMode = "on";
628
           }
629
           catch (e)
630
           {
                 /* setTimeout needed to counteract Mozilla bug whereby you can't immediately change designMode on
631
     newly created iframes */
                setTimeout(function(){self_initEdit()}, 250);
632
633
634
                return false;
635
           }
636
           if (!this.IE)
637
638
           {
639
                this.convertSPANs(false);
640
           }
641
           this.theContainer.style.visibility = "visible";
642
643
           this.theTextarea.style.visibility = "visible";
644
           /* Mozilla event capturing */
645
646
           if (typeof document.addEventListener == "function")
647
648
                this.theIframe.contentWindow.document.addEventListener("mouseup",
     function(){widgToolbarCheckState(self); return true;}, false);
649
                this.theIframe.contentWindow.document.addEventListener("keyup",
     function(){widgToolbarCheckState(self); return true;}, false);
650
                this.theIframe.contentWindow.document.addEventListener("keydown",
     function(e){self.detectPaste(e); return true;}, false);
651
           /* IE event capturing */
652
653
           else
654
                this.theIframe.contentWindow.document.attachEvent("onmouseup",
655
     function(){widgToolbarCheckState(self); return true;});
656
                this.theIframe.contentWindow.document.attachEvent("onkeyup",
     function(){widgToolbarCheckState(self); return true;});
                this.theIframe.contentWindow.document.attachEvent("onkeydown",
657
     function(e){self.detectPaste(e); return true;}, false);
658
659
660
           this.locked = false;
661
           return true;
662
663
     }
664
665
666
667
     /* Add elements to a paragraph and inserts the paragraph before a given element in the body */
668
     widgEditor.prototype.insertNewParagraph = function(elementArray, succeedingElement)
669
670
671
           var theBody = this.theIframe.contentWindow.document.getElementsByTagName("body")[0];
672
           var theParagraph = this.theIframe.contentWindow.document.createElement("p");
```

```
673
674
          for (var i = 0; i < elementArray.length; i++)</pre>
675
           {
676
                theParagraph.appendChild(elementArray[i]);
677
           }
678
679
          if (typeof(succeedingElement) != "undefined")
680
           {
681
                theBody.insertBefore(theParagraph, succeedingElement);
682
           }
683
          else
684
           {
685
                theBody.appendChild(theParagraph);
           }
686
687
688
          return true;
689
     }
690
691
692
693
     /* Add submit listener to parent form */
694
695
     widgEditor.prototype.modifyFormSubmit = function()
696
697
           return true;
698
           }
699
700
701
702
703
     /* Format the HTML with paragraphs. Any parentless text is enclosed in a paragraph, double breaks are paragraph
     markers */
704
     widgEditor.prototype.paragraphise = function()
705
     {
706
          if (widgInsertParagraphs && this.wysiwyg)
707
708
                var theBody = this.theIframe.contentWindow.document.getElementsByTagName("body")[0];
709
                /* Remove all text nodes containing just whitespace */
710
711
                for (var i = 0; i < theBody.childNodes.length; i++)</pre>
712
                {
713
                      if (theBody.childNodes[i].nodeName.toLowerCase() == "#text" &&
714
                           theBody.childNodes[i].data.search(/^s*$/) != -1)
715
                      {
716
                           theBody.removeChild(theBody.childNodes[i]);
717
                           i--;
718
719
                      }
720
                }
721
722
                var removedElements = new Array();
723
724
                for (var i = 0; i < theBody.childNodes.length; i++)</pre>
725
                {
726
                      if (theBody.childNodes[i].nodeName.isInlineName())
727
                      {
728
                           removedElements.push(theBody.childNodes[i].cloneNode(true));
729
730
                           theBody.removeChild(theBody.childNodes[i]);
731
732
733
                      }
734
                      else if (theBody.childNodes[i].nodeName.toLowerCase() == "br")
735
736
                           if (i + 1 < theBody.childNodes.length)</pre>
737
                           {
738
                                 /* If the current break tag is followed by another break tag */
739
                                 if (theBody.childNodes[i + 1].nodeName.toLowerCase() == "br")
740
```

```
741
                                      /* Remove consecutive break tags */
742
                                     while (i < theBody.childNodes.length &&
     theBody.childNodes[i].nodeName.toLowerCase() == "br")
743
                                     {
744
                                           theBody.removeChild(theBody.childNodes[i]);
745
                                     }
746
747
                                     if (removedElements.length > 0)
748
                                     {
                                           this.insertNewParagraph(removedElements, theBody.childNodes[i]);
749
750
751
                                           removedElements = new Array();
752
753
                                }
                                /* If the break tag appears before a block element */
754
755
                                else if (!theBody.childNodes[i + 1].nodeName.isInlineName())
756
                                {
757
                                     theBody.removeChild(theBody.childNodes[i]);
758
                                }
759
                                else if (removedElements.length > 0)
760
                                {
                                     removedElements.push(theBody.childNodes[i].cloneNode(true));
761
762
763
                                     theBody.removeChild(theBody.childNodes[i]);
764
                                }
765
                                else
766
                                {
767
                                     theBody.removeChild(theBody.childNodes[i]);
768
                                }
769
770
771
                           }
772
                           else
773
                           {
774
                                theBody.removeChild(theBody.childNodes[i]);
775
                           }
776
                     }
777
                     else if (removedElements.length > 0)
778
779
                           this.insertNewParagraph(removedElements, theBody.childNodes[i]);
780
781
                           removedElements = new Array();
782
                     }
783
                }
784
785
                if (removedElements.length > 0)
786
787
                     this.insertNewParagraph(removedElements);
788
                }
789
          }
790
791
          return true;
792
     }
793
794
795
796
797
     /* Update hidden input to reflect editor contents, for submission */
798
     widgEditor.prototype.refreshDisplay = function()
799
     {
800
          if (this.wysiwyg)
801
           {
802
                this.theIframe.contentWindow.document.getElementsByTagName("body")[0].innerHTML =
     this.theInput.value;
803
          }
804
          else
805
           {
806
                this.theTextarea.value = this.theInput.value;
807
          }
```

```
808
809
           return true;
810 }
811
812
813
814
     /* Switch between WYSIWYG and HTML source */
815
816
     widgEditor.prototype.switchMode = function()
817
818
           if (!this.locked)
819
           {
820
                this.locked = true;
821
                 /* Switch to HTML source */
822
                if (this.wysiwyg)
823
824
                      this.updateWidgInput();
825
826
                      this.theTextarea.value = this.theInput.value;
                      this.theContainer.replaceChild(this.theTextarea, this.theIframe);
827
                      this.theToolbar.disable();
828
829
                      this.wysiwyg = false;
830
                      this.locked = false;
831
                 /* Switch to WYSIWYG */
832
833
                else
834
                 {
835
                      this.updateWidgInput();
836
                      this.theContainer.replaceChild(this.theIframe, this.theTextarea);
837
                      this.writeDocument(this.theInput.value);
838
                      this.theToolbar.enable();
                      this.initEdit();
839
840
                      this.wysiwyg = true;
841
                 }
842
           }
843
844
           return true;
845
     }
846
847
848
849
850
     /* Update hidden input to reflect editor contents, for submission */
851
     widgEditor.prototype.updateWidgInput = function()
852
     {
853
           if (this.wysiwyg)
854
855
                 /* Convert spans to semantics in Mozilla */
856
                if (!this.IE)
857
                 {
858
                      this.convertSPANs(true);
                 }
859
860
861
                this.paragraphise();
862
                this.cleanSource();
           }
863
864
           else
865
           {
866
                this.theInput.value = this.theTextarea.value;
           }
867
868
869
           return true;
870
     }
871
872
873
874
875
     /* Write initial content to editor */
     widgEditor.prototype.writeDocument = function(documentContent)
876
```

```
877
878
           /* HTML template into which the HTML Editor content is inserted */
879
           var documentTemplate = '\
880
                 <html>\
881
                      <head>\
                            INSERT:STYLESHEET:END\
882
883
                      </head>\
                      <body id="iframeBody">\
884
885
                            INSERT: CONTENT: END\
886
                      </body>\
887
                 </html>\
888
           ';
889
           /* Insert dynamic variables/content into document */
890
           /* IE needs stylesheet to be written inline */
891
           if (typeof document.all != "undefined")
892
893
                 documentTemplate = documentTemplate.replace(/INSERT:STYLESHEET:END/, 'ink rel="stylesheet"
894
     type="text/css" href="' + widgStylesheet + '"></link>');
895
           /* Firefox can't have stylesheet written inline */
896
897
           else
898
           {
899
                 documentTemplate = documentTemplate.replace(/INSERT:STYLESHEET:END/, "");
           }
900
901
902
           documentTemplate = documentTemplate.replace(/INSERT:CONTENT:END/, documentContent);
903
904
           this.theIframe.contentWindow.document.open();
905
           this.theIframe.contentWindow.document.write(documentTemplate);
906
           this.theIframe.contentWindow.document.close();
907
908
           /* In Firefox stylesheet needs to be loaded separate to other HTML, because if it's loaded inline it causes Firefox
     to have problems with an empty document */
909
           if (typeof document.all == "undefined")
910
911
                 var stylesheet = this.theIframe.contentWindow.document.createElement("link");
                 stylesheet.setAttribute("rel", "stylesheet");
stylesheet.setAttribute("type", "text/css");
912
913
                 stylesheet.setAttribute("href", widgStylesheet);
914
915
     this.theIframe.contentWindow.document.getElementsByTagName("head")[0].appendChild(stylesheet);
916
           }
917
918
           return true;
919
     }
920
921
922
923
924
     /* Toolbar items */
925 function widgToolbar(theEditor)
926 {
927
           var self = this;
928
929
           this.widgEditorObject = theEditor;
930
931
           /* Create toolbar ul element */
932
           this.theList = document.createElement("ul");
           this.theList.id = this.widgEditorObject.theInput.id + "WidgToolbar";
933
934
           this.theList.className = "widgToolbar";
935
           this.theList.widgToolbarObject = this;
936
937
           /* Create toolbar items */
938
           for (var i = 0; i < widgToolbarItems.length; i++)</pre>
939
940
                 switch (widgToolbarItems[i])
941
                 {
942
                      case "bold":
```

```
943
                            this.addButton(this.theList.id + "ButtonBold", "widgButtonBold", "Bold", "bold");
 944
 945
                            break:
 946
                       case "italic":
 947
                            this.addButton(this.theList.id + "ButtonItalic", "widgButtonItalic", "Italic", "italic");
 948
 949
 950
                            break;
 951
                       case "underline":
 952
 953
                            this.addButton(this.theList.id + "ButtonUnderline", "widgButtonUnderline", "Underline",
       "underline");
 954
 955
                            break;
 956
                       case "hyperlink":
 957
 958
                            this.addButton(this.theList.id + "ButtonLink", "widgButtonLink", "Hyperlink", "link");
 959
 960
                            break;
 961
 962
                       case "unorderedlist":
                             this.addButton(this.theList.id + "ButtonUnordered", "widgButtonUnordered", "Unordered
 963
      List", "insertunorderedlist");
 964
 965
                            break;
 966
                       case "orderedlist":
 967
 968
                            this.addButton(this.theList.id + "ButtonOrdered", "widgButtonOrdered", "Ordered List",
       "insertorderedlist");
 969
 970
                            break;
 971
 972
                       case "image":
 973
                            this.addButton(this.theList.id + "ButtonImage", "widgButtonImage", "Insert Image",
       "image");
 974
                            break;
 975
 976
 977
                       case "htmlsource":
                            this.addButton(this.theList.id + "ButtonHTML", "widgButtonHTML", "HTML Source",
 978
       "html");
 979
 980
                            break;
 981
 982
                       case "blockformat":
 983
                            this.addSelect(this.theList.id + "SelectBlock", "widgSelectBlock",
       widgSelectBlockOptions, "formatblock");
 984
 985
                            break;
 986
                  }
 987
            }
 988
 989
            return true;
 990
      }
 991
 992
 993
 994
 995
 996 /* Add button to toolbar */
 997 widgToolbar.prototype.addButton = function(theID, theClass, theLabel, theAction)
 998 {
 999
            var menuItem = document.createElement("li");
1000
            var theLink = document.createElement("a");
1001
            var theText = document.createTextNode(theLabel);
1002
1003
            menuItem.id = theID;
            menuItem.className = "widgEditButton";
1004
1005
```

```
1006
                       theLink.href = "#";
1007
                       theLink.title = theLabel;
1008
                       theLink.className = theClass;
1009
                       theLink.action = theAction;
1010
                       theLink.onclick = widgToolbarAction;
                       theLink.onmouseover = widgToolbarMouseover;
1011
1012
1013
                       theLink.appendChild(theText);
1014
                       menuItem.appendChild(theLink);
1015
                       this.theList.appendChild(menuItem);
1016
1017
                       return true;
1018
            }
1019
1020
1021
1022
            /* Add select box to toolbar. the Content Array is an array of string pairs (option value, option label) */
1023
1024
            widgToolbar.prototype.addSelect = function(theID, theClass, theContentArray, theAction)
1025
             {
1026
                        var menuItem = document.createElement("li");
1027
                       var theSelect = document.createElement("select");
1028
                       menuItem.className = "widgEditSelect";
1029
1030
1031
                       theSelect.id = theID;
1032
                       theSelect.name = theID;
1033
                       theSelect.className = theClass;
1034
                       theSelect.action = theAction;
1035
                       theSelect.onchange = widgToolbarAction;
1036
1037
                                   Modificado em: 10/05/2019
1038
                                  Finalidade.....: Alterar a exibição dos Headers de HTML na cortina de SELECT
1039
1040
                       for (var i = 0; i < theContentArray.length; i += 2){</pre>
1041
                                  var theOption = document.createElement("option");
1042
                                   var theText = document.createTextNode(theContentArray[i + 1]);
1043
                                  var tamFonte;
1044
                                  theOption.value = theContentArray[i];
1045
1046
                                  var lastChar =
             theText.textContent.substring(theText.textContent.length-1,theText.textContent.length);
1047
                                  if( isNumeric(lastChar) ){
1048
                                             tamFonte = (7 - parseInt(lastChar))*(7 - parseInt(lastChar))/5+(7 - parse
             parseInt(lastChar))*3+10;
1049
                                             tamFonte = parseInt(tamFonte);
1050
                                             tamFonte = tamFonte.toString()+"px";
1051
                                             theOption.style.fontSize = tamFonte;
1052
                                             } else {
                                             tamFonte = "";
1053
1054
1055
1056
                                  theOption.appendChild(theText);
                                  theSelect.appendChild(theOption);
1057
1058
                       }
1059
                       menuItem.appendChild(theSelect);
1060
1061
                       this.theList.appendChild(menuItem);
1062
1063
                       return true;
1064
            }
1065
1066
1067
1068
             /* Turn off toolbar items */
1069
1070
            widgToolbar.prototype.disable = function()
1071
             {
                        /* Change class to disable buttons using CSS */
1072
```

```
1073
            this.theList.className += " widgSource";
1074
1075
            /* Loop through lis */
1076
            for (var i = 0; i < this.theList.childNodes.length; i++)</pre>
1077
1078
                  var theChild = this.theList.childNodes[i];
1079
                  if (theChild.nodeName.toLowerCase() == "li" && theChild.className == "widgEditSelect")
1080
1081
                  {
1082
                        /* Loop through li children to find select */
1083
                       for (j = 0; j < theChild.childNodes.length; j++)</pre>
1084
1085
                             if (theChild.childNodes[j].nodeName.toLowerCase() == "select")
1086
                                  theChild.childNodes[j].disabled = "disabled";
1087
1088
1089
                                   break;
1090
                             }
1091
                       }
1092
                  }
1093
            }
1094
1095
            return true;
1096
      }
1097
1098
1099
1100
1101
       /* Turn on toolbar items */
1102
      widgToolbar.prototype.enable = function()
1103
1104
             /* Change class to enable buttons using CSS */
1105
            this.theList.className = this.theList.className.replace(/ widgSource/, "");
1106
1107
            /* Loop through lis */
            for (var i = 0; i < this.theList.childNodes.length; i++)</pre>
1108
1109
            {
1110
                  var theChild = this.theList.childNodes[i];
1111
                  if (theChild.nodeName.toLowerCase() == "li" && theChild.className == "widgEditSelect")
1112
1113
                  {
                        /* Loop through li children to find select */
1114
1115
                       for (j = 0; j < theChild.childNodes.length; j++)</pre>
1116
                             if (theChild.childNodes[j].nodeName.toLowerCase() == "select")
1117
1118
                                  theChild.childNodes[j].disabled = "";
1119
1120
1121
                                   break:
1122
                             }
1123
                       }
1124
                  }
1125
            }
1126
1127
            return true;
1128
1129
1130
1131
1132
      /* Change the status of the selected toolbar item */
1133
1134
      widgToolbar.prototype.setState = function(theState, theStatus)
1135
1136
            if (theState != "SelectBlock")
1137
1138
                  var theButton = document.getElementById(this.theList.id + "Button" + theState);
1139
1140
                  if (theButton != null)
1141
                  {
```

```
1142
                       if (theStatus == "on")
1143
                       {
1144
                            theButton.className = theButton.className.addClass("on");
1145
                       }
1146
                       else
1147
                       {
1148
                            theButton.className = theButton.className.removeClass("on");
1149
                       }
1150
                 }
1151
            }
            else
1152
1153
            {
1154
                 var theSelect = document.getElementById(this.theList.id + "SelectBlock");
1155
1156
                 if (theSelect != null)
1157
                 {
                       theSelect.value = "";
1158
                       theSelect.value = theStatus;
1159
1160
                 }
1161
            }
1162
1163
            return true;
1164
      }
1165
1166
1167
1168
1169
1170
      /* Action taken when toolbar item activated */
1171
      function widgToolbarAction()
1172
            var theToolbar = this.parentNode.parentNode.widgToolbarObject;
1173
1174
            var theWidgEditor = theToolbar.widgEditorObject;
1175
            var theIframe = theWidgEditor.theIframe;
1176
            var theSelection = "";
1177
            /* If somehow a button other than "HTML source" is clicked while viewing HTML source, ignore click */
1178
1179
            if (!theWidgEditor.wysiwyg && this.action != "html")
1180
            {
1181
                 return false;
1182
            }
1183
1184
            switch (this.action)
1185
1186
                 case "formatblock":
1187
                       theIframe.contentWindow.document.execCommand(this.action, false, this.value);
1188
                       theWidgEditor.theToolbar.setState("SelectBlock", this.value);
1189
1190
                       break;
1191
1192
                 case "html":
1193
                       theWidgEditor.switchMode();
1194
1195
1196
                       break;
1197
                 case "link":
1198
1199
                       if (this.parentNode.className.classExists("on"))
1200
                       {
                            theIframe.contentWindow.document.execCommand("Unlink", false, null);
1201
1202
                            theWidgEditor.theToolbar.setState("Link", "off");
1203
                       }
1204
                       else
1205
                            if (theIframe.contentWindow.document.selection)
1206
1207
                            {
1208
                                  theSelection = theIframe.contentWindow.document.selection.createRange().text;
1209
                                 if (theSelection == "")
1210
```

```
1211
                                  {
1212
                                       alert("Please select the text you wish to hyperlink.");
1213
1214
                                  }
1215
1216
                            }
1217
                            else
1218
                            {
1219
                                  theSelection = theIframe.contentWindow.getSelection();
1220
1221
                                  if (theSelection == "")
1222
                                  {
1223
                                       alert("Please select the text you wish to hyperlink.");
1224
1225
                                       break:
1226
                                  }
1227
                            }
1228
1229
                            var theURL = prompt("Enter the URL for this link:", "http://");
1230
1231
                            if (theURL != null)
1232
                            {
1233
                                  theIframe.contentWindow.document.execCommand("CreateLink", false, theURL);
1234
                                  theWidgEditor.theToolbar.setState("Link", "on");
1235
                            }
                       }
1236
1237
1238
                       break:
1239
                  case "image":
1240
                       var theImage = prompt("Enter the location for this image:", "");
1241
1242
                       if (theImage != null && theImage != "")
1243
1244
                       {
1245
                            var theAlt = prompt("Enter the alternate text for this image:", "");
1246
                            var theSelection = null;
1247
                            var theRange = null;
1248
                            /* IE selections */
1249
                            if (theIframe.contentWindow.document.selection)
1250
1251
                            {
1252
                                  /* Escape quotes in alt text */
                                  theAlt = theAlt.replace(/"/g, "'");
1253
1254
1255
                                  theSelection = theIframe.contentWindow.document.selection;
                                  theRange = theSelection.createRange();
1256
1257
                                  theRange.collapse(false);
                                  theRange.pasteHTML("<img alt=\"" + theAlt + "\" src=\"" + theImage + "\" />");
1258
1259
                                  break;
1260
1261
                            /* Mozilla selections */
1262
1263
                            else
                            {
1264
1265
                                  try
1266
                                  {
1267
                                       theSelection = theIframe.contentWindow.getSelection();
1268
                                  }
1269
                                  catch (e)
1270
                                  {
1271
                                       return false;
1272
                                  }
1273
                                  theRange = theSelection.getRangeAt(0);
1274
1275
                                  theRange.collapse(false);
1276
1277
                                  var theImageNode = theIframe.contentWindow.document.createElement("img");
1278
1279
                                  theImageNode.src = theImage;
```

```
1280
                                  theImageNode.alt = theAlt;
1281
1282
                                  theRange.insertNode(theImageNode);
1283
1284
                                  break;
                            }
1285
1286
                       }
1287
                       else
1288
                       {
1289
                            return false;
1290
                       }
1291
1292
                  default:
                       theIframe.contentWindow.document.execCommand(this.action, false, null);
1293
1294
                       var theAction = this.action.replace(/^./, function(match){return match.toUpperCase();});
1295
1296
                       /* Turn off unordered toolbar item if ordered toolbar item was activated */
1297
                       if (this.action == "insertorderedlist")
1298
1299
                       {
1300
                            theAction = "Ordered";
                            theWidgEditor.theToolbar.setState("Unordered", "off");
1301
                       }
1302
1303
                       /* Turn off ordered toolbar item if unordered toolbar item was activated */
1304
1305
                       if (this.action == "insertunorderedlist")
1306
                       {
1307
                            theAction = "Unordered";
1308
                            theWidgEditor.theToolbar.setState("Ordered", "off");
                       }
1309
1310
                       /* If toolbar item was turned on */
1311
                       if (theIframe.contentWindow.document.queryCommandState(this.action, false, null))
1312
1313
                       {
1314
                            theWidgEditor.theToolbar.setState(theAction, "on");
1315
                       }
1316
                       else
1317
                       {
                            theWidgEditor.theToolbar.setState(theAction, "off");
1318
1319
                       }
1320
            }
1321
1322
            if (theWidgEditor.wysiwyg == true)
1323
            {
                 theIframe.contentWindow.focus();
1324
1325
            }
1326
            else
1327
            {
1328
                 theWidgEditor.theTextarea.focus();
            }
1329
1330
1331
            return false;
1332
      }
1333
1334
1335
1336
1337
       /* Check the nesting of the current cursor position/selection */
1338
      function widgToolbarCheckState(theWidgEditor, resubmit)
1339
      {
1340
            if (!resubmit)
1341
            {
1342
                  /* Allow browser to update selection before using the selection */
1343
                 setTimeout(function(){widgToolbarCheckState(theWidgEditor, true); return true;}, 500);
1344
            }
1345
1346
            var theSelection = null;
1347
            var theRange = null;
1348
            var theParentNode = null;
```

```
1349
            var theLevel = 0;
1350
1351
            /* Turn off all the buttons */
1352
            var menuListItems = theWidgEditor.theToolbar.theList.childNodes;
1353
            for (var i = 0; i < menuListItems.length; i++)</pre>
1354
1355
                 menuListItems[i].className = menuListItems[i].className.removeClass("on");
1356
            }
1357
            /* IE selections */
1358
1359
            if (theWidgEditor.theIframe.contentWindow.document.selection)
1360
1361
                 theSelection = theWidgEditor.theIframe.contentWindow.document.selection;
1362
                 theRange = theSelection.createRange();
1363
                 try
1364
                 {
1365
                      theParentNode = theRange.parentElement();
                 }
1366
1367
                 catch (e)
1368
                 {
1369
                      return false;
                 }
1370
1371
            /* Mozilla selections */
1372
1373
            else
1374
            {
1375
                 try
1376
                 {
1377
                      theSelection = theWidgEditor.theIframe.contentWindow.getSelection();
1378
                 }
1379
                 catch (e)
1380
                 {
1381
                      return false;
1382
                 }
1383
1384
                 theRange = theSelection.getRangeAt(0);
1385
                 theParentNode = theRange.commonAncestorContainer;
1386
            }
1387
1388
            while (theParentNode.nodeType == 3)
1389
            {
1390
                 theParentNode = theParentNode.parentNode;
1391
            }
1392
1393
            while (theParentNode.nodeName.toLowerCase() != "body")
1394
1395
                 switch (theParentNode.nodeName.toLowerCase())
1396
1397
                      case "a":
1398
                            theWidgEditor.theToolbar.setState("Link", "on");
1399
1400
                            break;
1401
1402
                      case "em":
1403
                            theWidgEditor.theToolbar.setState("Italic", "on");
1404
1405
                            break;
1406
1407
                      case "li":
1408
1409
                            break;
1410
1411
                       case "ol":
                            theWidgEditor.theToolbar.setState("Ordered", "on");
1412
                            theWidgEditor.theToolbar.setState("Unordered", "off");
1413
1414
1415
                            break;
1416
1417
                      case "span":
```

```
1418
                            if (theParentNode.getAttribute("style") == "font-weight: bold;")
1419
                             {
1420
                                  theWidgEditor.theToolbar.setState("Bold", "on");
1421
                             }
                             else if (theParentNode.getAttribute("style") == "font-style: italic;")
1422
1423
1424
                                  theWidgEditor.theToolbar.setState("Italic", "on");
1425
                             }
1426
                            else if (theParentNode.getAttribute("style") == "font-weight: bold; font-style: italic;")
1427
                             {
                                  theWidgEditor.theToolbar.setState("Bold", "on");
1428
1429
                                  theWidgEditor.theToolbar.setState("Italic", "on");
1430
                             }
                            else if (theParentNode.getAttribute("style") == "font-style: italic; font-weight: bold;")
1431
1432
                                  theWidgEditor.theToolbar.setState("Bold", "on");
1433
1434
                                  theWidgEditor.theToolbar.setState("Italic", "on");
                             }
1435
1436
1437
                            break;
1438
                       case "strong":
1439
1440
                            theWidgEditor.theToolbar.setState("Bold", "on");
1441
1442
                             break;
1443
                       case "ul":
1444
1445
                            theWidgEditor.theToolbar.setState("Unordered", "on");
1446
                            theWidgEditor.theToolbar.setState("Ordered", "off");
1447
                            break;
1448
1449
1450
                       default:
1451
                            theWidgEditor.theToolbar.setState("SelectBlock", "<" +
       theParentNode.nodeName.toLowerCase() + ">");
1452
1453
                            break;
1454
                  }
1455
1456
                 theParentNode = theParentNode.parentNode;
1457
                 theLevel++;
1458
            }
1459
            return true;
1460
1461
      }
1462
1463
1464
1465
      /* Turn off browser status display for toolbar items */
1466
1467
      function widgToolbarMouseover()
1468
1469
            window.status = "";
1470
1471
            return true;
1472
      }
1473
1474
1475
1476
      function acceptableChildren(theNode)
1477
1478
      {
1479
            var theChildren = theNode.childNodes;
1480
            for (var i = 0; i < theChildren.length; i++)</pre>
1481
1482
1483
                  if (!theChildren[i].nodeName.isAcceptedElementName())
1484
                  {
1485
                       if (!theChildren[i].nodeName.isInlineName())
```

```
1486
                       {
1487
                            if (theNode.nodeName.toLowerCase() == "p")
1488
                            {
1489
                                  acceptableChildren(replaceNodeWithChildren(theNode));
1490
1491
                                  return true;
1492
                            }
1493
1494
                            changeNodeType(theChildren[i], "p");
1495
                       }
1496
                       else
1497
                       {
1498
                            replaceNodeWithChildren(theChildren[i]);
                       }
1499
1500
1501
                       i = -1;
1502
                 }
            }
1503
1504
1505
            for (var i = 0; i < theChildren.length; i++)</pre>
1506
            {
1507
                  acceptableChildren(theChildren[i]);
1508
            }
1509
1510
            return true;
1511 }
1512
1513
1514
1515
      /* Change the type of a node, e.g. h3 to p */
1516
1517
      function changeNodeType(theNode, nodeType)
1518
1519
            var theChildren = new Array();
1520
            var theNewNode = document.createElement(nodeType);
            var theParent = theNode.parentNode;
1521
1522
1523
            if (theParent != null)
1524
            {
1525
                 for (var i = 0; i < theNode.childNodes.length; i++)</pre>
1526
                  {
1527
                       theChildren.push(theNode.childNodes[i].cloneNode(true));
1528
                  }
1529
                 for (var i = 0; i < theChildren.length; i++)</pre>
1530
1531
                  {
1532
                       theNewNode.appendChild(theChildren[i]);
                  }
1533
1534
1535
                 theParent.replaceChild(theNewNode, theNode);
1536
            }
1537
1538
            return true;
1539
      }
1540
1541
1542
1543
1544
      /* Replace a node with its children -- delete the item and move its children up one level in the hierarchy */
1545
      function replaceNodeWithChildren(theNode)
1546
1547
            var theChildren = new Array();
1548
            var theParent = theNode.parentNode;
1549
1550
            if (theParent != null)
1551
            {
1552
                  for (var i = 0; i < theNode.childNodes.length; i++)</pre>
1553
                  {
                       theChildren.push(theNode.childNodes[i].cloneNode(true));
1554
```

```
1555
                  }
1556
1557
                  for (var i = 0; i < theChildren.length; i++)</pre>
1558
                  {
                       theParent.insertBefore(theChildren[i], theNode);
1559
                  }
1560
1561
1562
                 theParent.removeChild(theNode);
1563
1564
                 return theParent;
1565
            }
1566
1567
            return true;
1568 }
1569
1570
1571
1572
1573
      /* Add a class to a string */
1574
      String.prototype.addClass = function(theClass)
1575
      {
            if (this != "")
1576
1577
1578
                  if (!this.classExists(theClass))
1579
                  {
                       return this + " " + theClass;
1580
1581
                  }
1582
            }
1583
            else
1584
            {
1585
                  return theClass;
1586
            }
1587
1588
            return this;
1589 }
1590
1591
1592
1593
1594
       /* Check if a class exists in a string */
1595
      String.prototype.classExists = function(theClass)
1596 {
1597
            var regString = "(^| )" + theClass + "\W*";
1598
            var regExpression = new RegExp(regString);
1599
1600
            if (regExpression.test(this))
1601
            {
1602
                  return true;
1603
            }
1604
1605
            return false;
1606 }
1607
1608
1609
1610
       /* Check if a string is the nodeName of an accepted element */
1611
      String.prototype.isAcceptedElementName = function()
1612
1613
            var elementList = new Array("#text", "a", "em", "h1", "h2", "h3", "h4", "h5", "h6", "img", "li", "ol", "p",
1614
       "strong", "ul");
1615
            var theName = this.toLowerCase();
1616
            for (var i = 0; i < elementList.length; i++)</pre>
1617
1618
1619
                  if (theName == elementList[i])
1620
                  {
1621
                       return true;
1622
                  }
```

```
1623
            }
1624
1625
            return false;
1626
      }
1627
1628
1629
1630
1631
      /* Check if a string is the nodeName of an inline element */
      String.prototype.isInlineName = function()
1632
1633
      {
1634
            var inlineList = new Array("#text", "a", "em", "font", "span", "strong", "u");
1635
            var theName = this.toLowerCase();
1636
1637
            for (var i = 0; i < inlineList.length; i++)</pre>
1638
1639
                  if (theName == inlineList[i])
1640
                  {
1641
                       return true;
1642
                  }
1643
            }
1644
1645
            return false;
1646
      }
1647
1648
1649
1650
1651
      /* Remove a class from a string */
1652
      String.prototype.removeClass = function(theClass)
1653
            var regString = "(^| )" + theClass + "\W*";
1654
1655
            var regExpression = new RegExp(regString);
1656
1657
            return this.replace(regExpression, "");
1658
      }
1659
1660
1661
1662
1663
      /* Reverse a string */
      String.prototype.reverse = function()
1664
1665 {
1666
            var theString = "";
1667
1668
            for (var i = this.length - 1; i >= 0; i--)
1669
            {
1670
                 theString += this.charAt(i);
1671
            }
1672
1673
            return theString;
1674
      }
1675
1676
1677
1678
1679
       /* Make tags valid by converting uppercase element and attribute names to lowercase and quoting attributes */
      String.prototype.validTags = function()
1680
1681
      {
1682
            var theString = this;
1683
1684
            /* Replace uppercase element names with lowercase */
1685
            theString = theString.replace(/<[^> ]*/g, function(match){return match.toLowerCase();});
1686
            /* Replace uppercase attribute names with lowercase */
1687
1688
            theString = theString.replace(/<[^>]*>/g, function(match)
1689
                  {
1690
                       match = match.replace(/ [^=]+=/g, function(match2){return match2.toLowerCase();});
1691
```

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```
1692
                          return match;
1693
                    });
1694
             /* Put quotes around unquoted attributes */
theString = theString.replace(/<[^>]*>/g, function(match)
1695
1696
1697
1698
                          match = match_replace(/( [^=]+=)([^"][^>]*)/g, "$1\"$2\"");
1699
1700
                          return match;
1701
                    });
1702
1703
             return theString;
1704 }
```