

Table.php

```
1. <?php
2.
3. namespace dokuwiki\Parsing\Handler;
4.
5. class Table extends AbstractRewriter
6. {
7.
8.     protected $tableCalls = array();
9.     protected $maxCols = 0;
10.    protected $maxRows = 1;
11.    protected $currentCols = 0;
12.    protected $firstCell = false;
13.    protected $lastCellType = 'tablecell';
14.    protected $inTableHead = true;
15.    protected $currentRow = array('tableheader' => 0, 'tablecell'
=> 0);
16.    protected $countTableHeadRows = 0;
17.
18.    /** @inheritdoc */
19.    public function finalise()
20.    {
21.        $last_call = end($this->calls);
22.        $this->writeCall(array('table_end',array(),
$last_call[2]));
23.
24.        $this->process();
25.        $this->callWriter->finalise();
26.        unset($this->callWriter);
27.    }
28.
29.    /** @inheritdoc */
30.    public function process()
31.    {
32.        foreach ($this->calls as $call) {
33.            switch ($call[0]) {
34.                case 'table_start':
35.                    $this->tableStart($call);
36.                    break;
37.                case 'table_row':
38.                    $this->tableRowClose($call);
39.
40.                    $this->tableRowOpen(array('tablerow_open',$call[1],$call[2]));
41.                    break;
42.                case 'tableheader':
43.                case 'tablecell':
44.                    $this->tableCell($call);
45.                    break;
46.                case 'table_end':
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46.             $this->tableRowClose($call);
47.             $this->tableEnd($call);
48.             break;
49.         default:
50.             $this->tableDefault($call);
51.             break;
52.     }
53. }
54. $this->callWriter->writeCalls($this->tableCalls);
55.
56.     return $this->callWriter;
57. }
58.
59.     protected function tableStart($call)
60.     {
61.         $this->tableCalls[] =
array('table_open',$call[1],$call[2]);
62.         $this->tableCalls[] =
array('tablerow_open',array(),$call[2]);
63.         $this->firstCell = true;
64.     }
65.
66.     protected function tableEnd($call)
67.     {
68.         $this->tableCalls[] =
array('table_close',$call[1],$call[2]);
69.         $this->finalizeTable();
70.     }
71.
72.     protected function tableRowOpen($call)
73.     {
74.         $this->tableCalls[] = $call;
75.         $this->currentCols = 0;
76.         $this->firstCell = true;
77.         $this->lastCellType = 'tablecell';
78.         $this->maxRows++;
79.         if ($this->inTableHead) {
80.             $this->currentRow = array('tablecell' => 0,
'tableheader' => 0);
81.         }
82.     }
83.
84.     protected function tableRowClose($call)
85.     {
86.         if ($this->inTableHead && ($this->inTableHead =
$this->isTableHeadRow())) {
87.             $this->countTableHeadRows++;
88.         }
89.         // Strip off final cell opening and anything after it
90.         while ($discard = array_pop($this->tableCalls)) {
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91.         if ($discard[0] == 'tablecell_open' || $discard[0] ==
'tableheader_open') {
92.             break;
93.         }
94.         if (!empty($this->currentRow[$discard[0]])) {
95.             $this->currentRow[$discard[0]]--;
96.         }
97.     }
98.     $this->tableCalls[] = array('tablerow_close', array(),
$call[2]);
99.
100.    if ($this->currentCols > $this->maxCols) {
101.        $this->maxCols = $this->currentCols;
102.    }
103. }
104.
105. protected function isTableHeadRow()
106. {
107.     $td = $this->currentRow['tablecell'];
108.     $th = $this->currentRow['tableheader'];
109.
110.     if (!$th || $td > 2) return false;
111.     if (2*$td > $th) return false;
112.
113.     return true;
114. }
115.
116. protected function tableCell($call)
117. {
118.     if ($this->inTableHead) {
119.         $this->currentRow[$call[0]]++;
120.     }
121.     if (!$this->firstCell) {
122.         // Increase the span
123.         $lastCall = end($this->tableCalls);
124.
125.         // A cell call which follows an open cell means an
empty cell so span
126.         if ($lastCall[0] == 'tablecell_open' || $lastCall[0]
== 'tableheader_open') {
127.             $this->tableCalls[] =
array('colspan',array(),$call[2]);
128.         }
129.
130.         $this->tableCalls[] =
array($this->lastCellType.'_close',array(),$call[2]);
131.         $this->tableCalls[] =
array($call[0].'_open',array(1,null,1),$call[2]);
132.         $this->lastCellType = $call[0];
133.     } else {
134.         $this->tableCalls[] =
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        array($call[0].'_open',array(1,null,1),$call[2]);
135.         $this->lastCellType = $call[0];
136.         $this->firstCell = false;
137.     }
138.
139.     $this->currentCols++;
140. }
141.
142. protected function tableDefault($call)
143. {
144.     $this->tableCalls[] = $call;
145. }
146.
147. protected function finalizeTable()
148. {
149.
150.     // Add the max cols and rows to the table opening
151.     if ($this->tableCalls[0][0] == 'table_open') {
152.         // Adjust to num cols not num col delimiters
153.         $this->tableCalls[0][1][] = $this->maxCols - 1;
154.         $this->tableCalls[0][1][] = $this->maxRows;
155.         $this->tableCalls[0][1][] =
array_shift($this->tableCalls[0][1]);
156.     } else {
157.         trigger_error('First element in table call list is not
table_open');
158.     }
159.
160.     $lastRow = 0;
161.     $lastCell = 0;
162.     $cellKey = array();
163.     $toDelete = array();
164.
165.     // if still in tableheader, then there can be no table
header
166.     // as all rows can't be within <THEAD>
167.     if ($this->inTableHead) {
168.         $this->inTableHead = false;
169.         $this->countTableHeadRows = 0;
170.     }
171.
172.     // Look for the colspan elements and increment the colspan
on the
173.     // previous non-empty opening cell. Once done, delete all
the cells
174.     // that contain colspans
175.     for ($key = 0; $key < count($this->tableCalls); ++$key) {
176.         $call = $this->tableCalls[$key];
177.
178.         switch ($call[0]) {
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179.         case 'table_open':
180.             if ($this->countTableHeadRows) {
181.                 array_splice($this->tableCalls, $key+1, 0,
array(
182.                 array('tablethead_open', array(), $call[2])));
183.             }
184.             break;
185.
186.         case 'tablerow_open':
187.             $lastRow++;
188.             $lastCell = 0;
189.             break;
190.
191.         case 'tablecell_open':
192.         case 'tableheader_open':
193.             $lastCell++;
194.             $cellKey[$lastRow][$lastCell] = $key;
195.             break;
196.
197.         case 'table_align':
198.             $prev = in_array($this->tableCalls[$key-1][0],
array('tablecell_open', 'tableheader_open'));
199.             $next = in_array($this->tableCalls[$key+1][0],
array('tablecell_close', 'tableheader_close'));
200.             // If the cell is empty, align left
201.             if ($prev && $next) {
202.                 $this->tableCalls[$key-1][1][1] = 'left';
203.
204.                 // If the previous element was a cell
open, align right
205.             } elseif ($prev) {
206.                 $this->tableCalls[$key-1][1][1] = 'right';
207.
208.                 // If the next element is the close of an
element, align either center or left
209.             } elseif ($next) {
210.                 if
($this->tableCalls[$cellKey[$lastRow][$lastCell]][1][1] ==
'right') {
211.                     $this->tableCalls[$cellKey[$lastRow][$lastCell]][1][1] = 'center';
212.                 } else {
213.                     $this->tableCalls[$cellKey[$lastRow][$lastCell]][1][1] = 'left';
214.                 }
215.             }
216.
217.             // Now convert the whitespace back to cdata
218.             $this->tableCalls[$key][0] = 'cdata';
219.             break;

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220.
221.         case 'colspan':
222.             $this->tableCalls[$key-1][1][0] = false;
223.
224.             for ($i = $key-2; $i >= $cellKey[$lastRow][1];
225. $i--) {
226.                 if ($this->tableCalls[$i][0] ==
227. 'tablecell_open' ||
228.                     $this->tableCalls[$i][0] ==
229. 'tableheader_open'
230.                 ) {
231.                     if (false !==
232. $this->tableCalls[$i][1][0]) {
233.                         $this->tableCalls[$i][1][0]++;
234.                         break;
235.                     }
236.                 }
237.             }
238.
239.             $toDelete[] = $key-1;
240.             $toDelete[] = $key;
241.             $toDelete[] = $key+1;
242.             break;
243.
244.         case 'rowspan':
245.             if ($this->tableCalls[$key-1][0] == 'cdata') {
246.                 // ignore rowspan if previous call was
247.                 // cdata (text mixed with :::)
248.                 // we don't have to check next call as
249.                 // that wont match regex
250.                 $this->tableCalls[$key][0] = 'cdata';
251.             } else {
252.                 $spanning_cell = null;
253.
254.                 // can't cross thead/tbody boundary
255.                 if (!$this->countTableHeadRows ||
256. ($lastRow-1 != $this->countTableHeadRows)) {
257.                     for ($i = $lastRow-1; $i > 0; $i--) {
258.                         if
259. ($this->tableCalls[$cellKey[$i][$lastCell]][0] == 'tablecell_open'
260. ||
261. $this->tableCalls[$cellKey[$i][$lastCell]][0] ==
262. 'tableheader_open'
263.                     ) {
264.                             if
265. ($this->tableCalls[$cellKey[$i][$lastCell]][1][2] >= $lastRow -
266. $i) {
267.                                 $spanning_cell = $i;
268.                                 break;
269.                             }
270.                         }
271.                     }
272.                 }
273.             }
274.         }
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257.         }
258.     }
259. }
260. }
261. if (is_null($spanning_cell)) {
262.     // No spanning cell found, so convert
    this cell to
263.     // an empty one to avoid broken tables
264.     $this->tableCalls[$key][0] = 'cdata';
265.     $this->tableCalls[$key][1][0] = '';
266.     break;
267. }
268.
    $this->tableCalls[$cellKey[$spanning_cell][$lastCell]][1][2]++;
269.
270.     $this->tableCalls[$key-1][1][2] = false;
271.
272.     $toDelete[] = $key-1;
273.     $toDelete[] = $key;
274.     $toDelete[] = $key+1;
275. }
276. break;
277.
278. case 'tablerow_close':
279.     // Fix broken tables by adding missing cells
280.     $moreCalls = array();
281.     while (++$lastCell < $this->maxCols) {
282.         $moreCalls[] = array('tablecell_open',
    array(1, null, 1), $call[2]);
283.         $moreCalls[] = array('cdata', array(''),
    $call[2]);
284.         $moreCalls[] = array('tablecell_close',
    array(), $call[2]);
285.     }
286.     $moreCallsLength = count($moreCalls);
287.     if ($moreCallsLength) {
288.         array_splice($this->tableCalls, $key, 0,
    $moreCalls);
289.         $key += $moreCallsLength;
290.     }
291.
292.     if ($this->countTableHeadRows == $lastRow) {
293.         array_splice($this->tableCalls, $key+1, 0,
    array(
294.             array('tablethead_close', array(),
    $call[2])));
295.     }
296.     break;
297. }
298. }
299.

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```
300.         // condense cdata
301.         $cnt = count($this->tableCalls);
302.         for ($key = 0; $key < $cnt; $key++) {
303.             if ($this->tableCalls[$key][0] == 'cdata') {
304.                 $ckey = $key;
305.                 $key++;
306.                 while ($this->tableCalls[$key][0] == 'cdata') {
307.                     $this->tableCalls[$ckey][1][0] .=
308.                         $this->tableCalls[$key][1][0];
309.                     $toDelete[] = $key;
310.                     $key++;
311.                 }
312.                 continue;
313.             }
314.         }
315.         foreach ($toDelete as $delete) {
316.             unset($this->tableCalls[$delete]);
317.         }
318.         $this->tableCalls = array_values($this->tableCalls);
319.     }
320. }
```

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