

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'
16.        => 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(),
23.            $last_call[2]));
24.
25.        $this->process();
26.        $this->callWriter->finalise();
27.        unset($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;
45.                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.         $this->tableCalls[] =
62.             array('table_open',$call[1],$call[2]);
63.         $this->tableCalls[] =
64.             array('tablerow_open',array(),$call[2]);
65.         $this->firstCell = true;
66.
67.     }
68.
69.     protected function tableEnd($call)
70.     {
71.         $this->tableCalls[] =
72.             array('table_close',$call[1],$call[2]);
73.         $this->finalizeTable();
74.
75.     }
76.
77.     protected function tableRowOpen($call)
78.     {
79.         $this->tableCalls[] = $call;
80.         $this->currentCols = 0;
81.         $this->firstCell = true;
82.         $this->lastCellType = 'tablecell';
83.         $this->maxRows++;
84.         if ($this->inTableHead) {
85.             $this->currentRow = array('tablecell' => 0,
86. 'tableheader' => 0);
87.         }
88.     }
89.     protected function tableRowClose($call)
90.     {
91.         if ($this->inTableHead && ($this->inTableHead =
92. $this->isTableHeadRow())) {
93.             $this->countTableHeadRows++;
94.         }
95.         // Strip off final cell opening and anything after it
96.         while ($discard = array_pop($this->tableCalls)) {
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91.             if ($discard[0] == 'tablecell_open' || $discard[0] ==
92.                 'tableheader_open') {
93.                     break;
94.                 }
95.                 if (!empty($this->currentRow[$discard[0]])) {
96.                     $this->currentRow[$discard[0]]--;
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
126.                // empty cell so span
127.                if ($lastCall[0] == 'tablecell_open' || $lastCall[0]
128.                    == 'tableheader_open') {
129.                    $this->tableCalls[] =
130.                        array('colspan', array(), $call[2]);
131.                }
132.
133.                $this->tableCalls[] =
134.                    array($this->lastCellType.'_'.$close, array(), $call[2]);
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        array($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.            $this->tableCalls[0][1][] =
156.                array_shift($this->tableCalls[0][1]);
157.        } else {
158.            trigger_error('First element in table call list is not
159.                           table_open');
160.
161.            $lastRow = 0;
162.            $lastCell = 0;
163.            $cellKey = array();
164.            $ToDelete = array();
165.
166.            // if still in tableheader, then there can be no table
167.            // header
168.            // as all rows can't be within <THEAD>
169.            if ($this->inTableHead) {
170.                $this->inTableHead = false;
171.                $this->countTableHeadRows = 0;
172.
173.                // Look for the colspan elements and increment the colspan
174.                // on the
175.                // previous non-empty opening cell. Once done, delete all
176.                // the cells
177.                // that contain colspans
178.                for ($key = 0; $key < count($this->tableCalls); ++$key) {
179.                    $call = $this->tableCalls[$key];
180.
181.                    switch ($call[0]) {
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179.             case 'table_open':
180.                 if ($this->countTableHeadRows) {
181.                     array_splice($this->tableCalls, $key+1, 0,
182.                     array(
183.                         array('tablehead_open', array(), $call[2]));
184.                     }
185.                     break;
186.             case 'tablerow_open':
187.                 $lastRow++;
188.                 $lastCell = 0;
189.                 break;
190.             case 'tablecell_open':
191.             case 'tableheader_open':
192.                 $lastCell++;
193.                 $cellKey[$lastRow][$lastCell] = $key;
194.                 break;
195.             case 'table_align':
196.                 $prev = in_array($this->tableCalls[$key-1][0],
197.                     array('tablecell_open', 'tableheader_open'));
198.                 $next = in_array($this->tableCalls[$key+1][0],
199.                     array('tablecell_close', 'tableheader_close'));
200.                 // If the cell is empty, align left
201.                 if ($prev && $next) {
202.                     $this->tableCalls[$key-1][1][1] = 'left';
203.                 }
204.                 // If the previous element was a cell
205.                 // open, align right
206.                 } elseif ($prev) {
207.                     $this->tableCalls[$key-1][1][1] = 'right';
208.                 }
209.                 // If the next element is the close of an
210.                 // element, align either center or left
211.                 } elseif ($next) {
212.                     if
213.                         ($this->tableCalls[$cellKey[$lastRow][$lastCell]][1][1] ==
214.                         'right') {
215.                             $this->tableCalls[$cellKey[$lastRow][$lastCell]][1][1] = 'center';
216.                         } else {
217.                             $this->tableCalls[$cellKey[$lastRow][$lastCell]][1][1] = 'left';
218.                         }
219.                     }
220.                 }
221.             }
222.             // Now convert the whitespace back to cdata
223.             $this->tableCalls[$key][0] = 'cdata';
224.             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.                         'tableheader_open'
229.                     ) {
230.                         if (false !==
231.                             $this->tableCalls[$i][1][0]) {
232.                             $this->tableCalls[$i][1][0]++;
233.                             break;
234.                         }
235.                     }
236.                     $ToDelete[] = $key-1;
237.                     $ToDelete[] = $key;
238.                     $ToDelete[] = $key+1;
239.                     break;
240.             case 'rowspan':
241.                 if ($this->tableCalls[$key-1][0] == 'cdata') {
242.                     // ignore rowspan if previous call was
243.                     // cdata (text mixed with :::
244.                     // we don't have to check next call as
245.                     // that wont match regex
246.                     $this->tableCalls[$key][0] = 'cdata';
247.                 } else {
248.                     $spanning_cell = null;
249.                     // can't cross thead/tbody boundary
250.                     if (!$this->countTableHeadRows ||
251.                         ($lastRow-1 != $this->countTableHeadRows)) {
252.                         for ($i = $lastRow-1; $i > 0; $i--) {
253.                             if
254.                             ($this->tableCalls[$cellKey[$i][$lastCell]][0] ==
255.                               'tablecell_open'
256.                             ) {
257.                                 if
258.                                 ($this->tableCalls[$cellKey[$i][$lastCell]][1][2] >=
259.                                   $lastRow -
260.                                   $i) {
261.                                     $spanning_cell = $i;
262.                                     break;
263.                                 }
264.                             }
265.                         }
266.                     }
267.                 }
268.             }
269.         }
270.     }
271. 
```

```
257.                                     }
258.                                 }
259.                             }
260.                         }
261.                     if (is_null($spanning_cell)) {
262.                         // No spanning cell found, so convert
263.                         // this cell to
264.                         // an empty one to avoid broken tables
265.                         $this->tableCalls[$key][0] = 'cdata';
266.                         $this->tableCalls[$key][1][0] = '';
267.                         break;
268.                     }
269.                     $this->tableCalls[$cellKey[$spanning_cell][$lastCell]][1][2]++;
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',
283.             array(1, null, 1), $call[2]);
284.             $moreCalls[] = array('cdata', array(''),
285.             $call[2]);
286.             $moreCalls[] = array('tablecell_close',
287.             array(), $call[2]);
288.         }
289.         $moreCallsLength = count($moreCalls);
290.         if ($moreCallsLength) {
291.             array_splice($this->tableCalls, $key, 0,
292.             $moreCalls);
293.             $key += $moreCallsLength;
294.         }
295.         if ($this->countTableHeadRows == $lastRow) {
296.             array_splice($this->tableCalls, $key+1, 0,
297.             array(
298.                 array('tablethead_close', array(),
299.                 $call[2])));
299.         }
300.     }
301. }
```

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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.                  $key++;
310.              }
311.              continue;
312.          }
313.      }
314.
315.      foreach ($toDelete as $delete) {
316.          unset($this->tableCalls[$delete]);
317.      }
318.      $this->tableCalls = array_values($this->tableCalls);
319.  }
320. }
```

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