

[handler.php](#)

```
1. <?php
2.
3. use dokuwiki\Extension\Event;
4. use dokuwiki\Extension\SyntaxPlugin;
5. use dokuwiki\Parsing\Handler\Block;
6. use dokuwiki\Parsing\Handler\CallWriter;
7. use dokuwiki\Parsing\Handler\CallWriterInterface;
8. use dokuwiki\Parsing\Handler\Lists;
9. use dokuwiki\Parsing\Handler\Nest;
10. use dokuwiki\Parsing\Handler\Preformatted;
11. use dokuwiki\Parsing\Handler\Quote;
12. use dokuwiki\Parsing\Handler\Table;
13.
14. /**
15.  * Class Doku_Handler
16.  */
17. class Doku_Handler {
18.     /** @var CallWriterInterface */
19.     protected $callWriter = null;
20.
21.     /** @var array The current CallWriter will write directly to
22.      * this list of calls, Parser reads it */
23.     public $calls = array();
24.
25.     /** @var array internal status holders for some modes */
26.     protected $status = array(
27.         'section' => false,
28.         'doublequote' => 0,
29.     );
30.
31.     /** @var bool should blocks be rewritten? FIXME seems to
32.      * always be true */
33.     protected $rewriteBlocks = true;
34.
35.     /**
36.      * @var bool are we in a footnote already?
37.      */
38.     protected $footnote;
39.
40.     /**
41.      * Doku_Handler constructor.
42.      */
43.     public function __construct() {
44.         $this->callWriter = new CallWriter($this);
45.     }
46.
47.     /**
48.      * Add a new call by passing it to the current CallWriter
```

```
47.      *
48.      * @param string $handler handler method name (see mode
    handlers below)
49.      * @param mixed $args arguments for this call
50.      * @param int $pos byte position in the original source file
51.      */
52.      public function addCall($handler, $args, $pos) {
53.          $call = array($handler,$args, $pos);
54.          $this->callWriter->writeCall($call);
55.      }
56.
57.      /**
58.       * Accessor for the current CallWriter
59.       *
60.       * @return CallWriterInterface
61.       */
62.      public function getCallWriter() {
63.          return $this->callWriter;
64.      }
65.
66.      /**
67.       * Set a new CallWriter
68.       *
69.       * @param CallWriterInterface $callWriter
70.       */
71.      public function setCallWriter($callWriter) {
72.          $this->callWriter = $callWriter;
73.      }
74.
75.      /**
76.       * Return the current internal status of the given name
77.       *
78.       * @param string $status
79.       * @return mixed|null
80.       */
81.      public function getStatus($status) {
82.          if (!isset($this->status[$status])) return null;
83.          return $this->status[$status];
84.      }
85.
86.      /**
87.       * Set a new internal status
88.       *
89.       * @param string $status
90.       * @param mixed $value
91.       */
92.      public function setStatus($status, $value) {
93.          $this->status[$status] = $value;
94.      }
95.
```

```
96.      /** @deprecated 2019-10-31 use addCall() instead */
97.      public function _addCall($handler, $args, $pos) {
98.          dbg_deprecated('addCall');
99.          $this->addCall($handler, $args, $pos);
100.     }
101.
102.     /**
103.      * Similar to addCall, but adds a plugin call
104.      *
105.      * @param string $plugin name of the plugin
106.      * @param mixed $args arguments for this call
107.      * @param int $state a LEXER_STATE_* constant
108.      * @param int $pos byte position in the original source file
109.      * @param string $match matched syntax
110.      */
111.     public function addPluginCall($plugin, $args, $state, $pos,
112.     $match) {
113.         $call = array('plugin',array($plugin, $args, $state,
114.     $match), $pos);
115.         $this->callWriter->writeCall($call);
116.     }
117.
118.     /**
119.      * Finishes handling
120.      *
121.      * Called from the parser. Calls finalise() on the call
122.      writer, closes open
123.      * sections, rewrites blocks and adds document_start and
124.      document_end calls.
125.      *
126.      * @triggers PARSER_HANDLER_DONE
127.      */
128.     public function finalize(){
129.         $this->callWriter->finalise();
130.
131.         if ( $this->status['section'] ) {
132.             $last_call = end($this->calls);
133.             array_push($this->calls,array('section_close',array(),
134.     $last_call[2]));
135.         }
136.
137.         if ( $this->rewriteBlocks ) {
138.             $B = new Block();
139.             $this->calls = $B->process($this->calls);
140.         }
141.
142.         Event::createAndTrigger('PARSER_HANDLER_DONE',$this);
143.
144.         array_unshift($this->calls,array('document_start',array(),0));
145.         $last_call = end($this->calls);
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141.     array_push($this->calls,array('document_end',array(),$last_call[2]
142.         ));
143.     }
144.     /**
145.      * fetch the current call and advance the pointer to the next
146.      * one
147.      *
148.      * @fixme seems to be unused?
149.      * @return bool|mixed
150.      */
151.     public function fetch() {
152.         $call = current($this->calls);
153.         if($call !== false) {
154.             next($this->calls); //advance the pointer
155.             return $call;
156.         }
157.         return false;
158.     }
159.
160.     /**
161.      * Internal function for parsing highlight options.
162.      * $options is parsed for key value pairs separated by commas.
163.      * A value might also be missing in which case the value will
164.      * simple
165.      * be set to true. Commas in strings are ignored, e.g.
166.      * option="4,56"
167.      * will work as expected and will only create one entry.
168.      *
169.      * @param string $options space separated list of key-value
170.      * pairs,
171.      * e.g. option1=123, option2="456"
172.      * @return array|null Array of key-value pairs
173.      * $array['key'] = 'value';
174.      * or null if no entries found
175.      */
176.     protected function parse_highlight_options($options) {
177.         $result = array();
178.
179.         preg_match_all('/(\w+(?:"[^"]*"')|(\w+(?:'`s`*)')|(\w+[^'`s`\\]))(
180.             ?:\s*)/', $options, $matches, PREG_SET_ORDER);
181.         foreach ($matches as $match) {
182.             $equal_sign = strpos($match [0], '=');
183.             if ($equal_sign === false) {
184.                 $key = trim($match[0]);
185.                 $result [$key] = 1;
186.             } else {
187.                 $key = substr($match[0], 0, $equal_sign);
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182.         $value = substr($match[0], $equal_sign+1);
183.         $value = trim($value, '');
184.         if (strlen($value) > 0) {
185.             $result [$key] = $value;
186.         } else {
187.             $result [$key] = 1;
188.         }
189.     }
190. }
191.
192. // Check for supported options
193. $result = array_intersect_key(
194.     $result,
195.     array_flip(array(
196.         'enable_line_numbers',
197.         'start_line_numbers_at',
198.         'highlight_lines_extra',
199.         'enable_keyword_links'
200.     ))
201. );
202.
203. // Sanitize values
204. if(isset($result['enable_line_numbers'])) {
205.     if($result['enable_line_numbers'] === 'false') {
206.         $result['enable_line_numbers'] = false;
207.     }
208.     $result['enable_line_numbers'] = (bool)
$result['enable_line_numbers'];
209. }
210. if(isset($result['highlight_lines_extra'])) {
211.     $result['highlight_lines_extra'] = array_map('intval',
explode(',', $result['highlight_lines_extra']));
212.     $result['highlight_lines_extra'] =
array_filter($result['highlight_lines_extra']);
213.     $result['highlight_lines_extra'] =
array_unique($result['highlight_lines_extra']);
214. }
215. if(isset($result['start_line_numbers_at'])) {
216.     $result['start_line_numbers_at'] = (int)
$result['start_line_numbers_at'];
217. }
218. if(isset($result['enable_keyword_links'])) {
219.     if($result['enable_keyword_links'] === 'false') {
220.         $result['enable_keyword_links'] = false;
221.     }
222.     $result['enable_keyword_links'] = (bool)
$result['enable_keyword_links'];
223. }
224. if (count($result) == 0) {
225.     return null;
226. }
```

```
227.
228.         return $result;
229.     }
230.
231.     /**
232.      * Simplifies handling for the formatting tags which all
233.      * behave the same
234.      *
235.      * @param string $match matched syntax
236.      * @param int $state a LEXER_STATE_* constant
237.      * @param int $pos byte position in the original source file
238.      * @param string $name actual mode name
239.      */
240.     protected function nestingTag($match, $state, $pos, $name) {
241.         switch ( $state ) {
242.             case DOKU_LEXER_ENTER:
243.                 $this->addCall($name.'_open', array(), $pos);
244.                 break;
245.             case DOKU_LEXER_EXIT:
246.                 $this->addCall($name.'_close', array(), $pos);
247.                 break;
248.             case DOKU_LEXER_UNMATCHED:
249.                 $this->addCall('cdata', array($match), $pos);
250.                 break;
251.         }
252.     }
253.
254.     /**
255.      * The following methods define the handlers for the different
256.      * Syntax modes
257.      *
258.      * The handlers are called from
259.      * dokuwiki\Parsing\Lexer\Lexer\invokeParser()
260.      *
261.      * @todo it might make sense to move these into their own
262.      * class or merge them with the
263.      * ParserMode classes some time.
264.      */
265.     // region mode handlers
266.
267.     /**
268.      * Special plugin handler
269.      *
270.      * This handler is called for all modes starting with
271.      * 'plugin_'.
272.      * An additional parameter with the plugin name is passed. The
273.      * plugin's handle()
274.      * method is called here
275.      */
```

```
271.      * @author Andreas Gohr <andi@splitbrain.org>
272.      *
273.      * @param string $match matched syntax
274.      * @param int $state a LEXER_STATE_* constant
275.      * @param int $pos byte position in the original source file
276.      * @param string $pluginname name of the plugin
277.      * @return bool mode handled?
278.      */
279.      public function plugin($match, $state, $pos, $pluginname){
280.          $data = array($match);
281.          /** @var SyntaxPlugin $plugin */
282.          $plugin = plugin_load('syntax',$pluginname);
283.          if($plugin != null){
284.              $data = $plugin->handle($match, $state, $pos, $this);
285.          }
286.          if ($data !== false) {
287.
288.              $this->addPluginCall($pluginname,$data,$state,$pos,$match);
289.          }
290.          return true;
291.      }
292.      /**
293.       * @param string $match matched syntax
294.       * @param int $state a LEXER_STATE_* constant
295.       * @param int $pos byte position in the original source file
296.       * @return bool mode handled?
297.       */
298.      public function base($match, $state, $pos) {
299.          switch ( $state ) {
300.              case DOKU_LEXER_UNMATCHED:
301.                  $this->addCall('cdata', array($match), $pos);
302.                  return true;
303.              break;
304.          }
305.          return false;
306.      }
307.      /**
308.       * @param string $match matched syntax
309.       * @param int $state a LEXER_STATE_* constant
310.       * @param int $pos byte position in the original source file
311.       * @return bool mode handled?
312.       */
313.      /**
314.       * @param string $match matched syntax
315.       * @param int $state a LEXER_STATE_* constant
316.       * @param int $pos byte position in the original source file
317.       * @return bool mode handled?
318.       */
319.      public function header($match, $state, $pos) {
320.          // get level and title
321.          $title = trim($match);
322.          $level = 7 - strspn($title, '=');
323.          if($level < 1) $level = 1;
324.          $title = trim($title, '=');
325.          $title = trim($title);
```

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321.
322.         if ($this->status['section'])
323.             $this->addCall('section_close', array(), $pos);
324.         $this->addCall('header', array($title, $level, $pos),
325.             $pos);
326.         $this->addCall('section_open', array($level), $pos);
327.         $this->status['section'] = true;
328.         return true;
329.     }
330.
331.     /**
332.      * @param string $match matched syntax
333.      * @param int $state a LEXER_STATE_* constant
334.      * @param int $pos byte position in the original source file
335.      * @return bool mode handled?
336.      */
337.     public function notoc($match, $state, $pos) {
338.         $this->addCall('notoc', array(), $pos);
339.         return true;
340.     }
341.
342.     /**
343.      * @param string $match matched syntax
344.      * @param int $state a LEXER_STATE_* constant
345.      * @param int $pos byte position in the original source file
346.      * @return bool mode handled?
347.      */
348.     public function nocache($match, $state, $pos) {
349.         $this->addCall('nocache', array(), $pos);
350.         return true;
351.     }
352.
353.     /**
354.      * @param string $match matched syntax
355.      * @param int $state a LEXER_STATE_* constant
356.      * @param int $pos byte position in the original source file
357.      * @return bool mode handled?
358.      */
359.     public function linebreak($match, $state, $pos) {
360.         $this->addCall('linebreak', array(), $pos);
361.         return true;
362.     }
363.
364.     /**
365.      * @param string $match matched syntax
366.      * @param int $state a LEXER_STATE_* constant
367.      * @param int $pos byte position in the original source file
368.      * @return bool mode handled?
```

```
369.      */
370.      public function eol($match, $state, $pos) {
371.          $this->addCall('eol', array(), $pos);
372.          return true;
373.      }
374.
375.      /**
376.       * @param string $match matched syntax
377.       * @param int $state a LEXER_STATE_* constant
378.       * @param int $pos byte position in the original source file
379.       * @return bool mode handled?
380.       */
381.      public function hr($match, $state, $pos) {
382.          $this->addCall('hr', array(), $pos);
383.          return true;
384.      }
385.
386.      /**
387.       * @param string $match matched syntax
388.       * @param int $state a LEXER_STATE_* constant
389.       * @param int $pos byte position in the original source file
390.       * @return bool mode handled?
391.       */
392.      public function strong($match, $state, $pos) {
393.          $this->nestingTag($match, $state, $pos, 'strong');
394.          return true;
395.      }
396.
397.      /**
398.       * @param string $match matched syntax
399.       * @param int $state a LEXER_STATE_* constant
400.       * @param int $pos byte position in the original source file
401.       * @return bool mode handled?
402.       */
403.      public function emphasis($match, $state, $pos) {
404.          $this->nestingTag($match, $state, $pos, 'emphasis');
405.          return true;
406.      }
407.
408.      /**
409.       * @param string $match matched syntax
410.       * @param int $state a LEXER_STATE_* constant
411.       * @param int $pos byte position in the original source file
412.       * @return bool mode handled?
413.       */
414.      public function underline($match, $state, $pos) {
415.          $this->nestingTag($match, $state, $pos, 'underline');
416.          return true;
417.      }
418.
419.      /**
```

```
420.      * @param string $match matched syntax
421.      * @param int $state a LEXER_STATE_* constant
422.      * @param int $pos byte position in the original source file
423.      * @return bool mode handled?
424.      */
425.      public function monospace($match, $state, $pos) {
426.          $this->nestingTag($match, $state, $pos, 'monospace');
427.          return true;
428.      }
429.
430.      /**
431.      * @param string $match matched syntax
432.      * @param int $state a LEXER_STATE_* constant
433.      * @param int $pos byte position in the original source file
434.      * @return bool mode handled?
435.      */
436.      public function subscript($match, $state, $pos) {
437.          $this->nestingTag($match, $state, $pos, 'subscript');
438.          return true;
439.      }
440.
441.      /**
442.      * @param string $match matched syntax
443.      * @param int $state a LEXER_STATE_* constant
444.      * @param int $pos byte position in the original source file
445.      * @return bool mode handled?
446.      */
447.      public function superscript($match, $state, $pos) {
448.          $this->nestingTag($match, $state, $pos, 'superscript');
449.          return true;
450.      }
451.
452.      /**
453.      * @param string $match matched syntax
454.      * @param int $state a LEXER_STATE_* constant
455.      * @param int $pos byte position in the original source file
456.      * @return bool mode handled?
457.      */
458.      public function deleted($match, $state, $pos) {
459.          $this->nestingTag($match, $state, $pos, 'deleted');
460.          return true;
461.      }
462.
463.      /**
464.      * @param string $match matched syntax
465.      * @param int $state a LEXER_STATE_* constant
466.      * @param int $pos byte position in the original source file
467.      * @return bool mode handled?
468.      */
469.      public function footnote($match, $state, $pos) {
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470.         if (!isset($this->footnote)) $this->footnote = false;
471.
472.         switch ( $state ) {
473.             case DOKU_LEXER_ENTER:
474.                 // footnotes can not be nested - however due to
                limitations in lexer it can't be prevented
475.                 // we will still enter a new footnote mode, we
                just do nothing
476.                 if ($this->footnote) {
477.                     $this->addCall('cdata', array($match), $pos);
478.                     break;
479.                 }
480.                 $this->footnote = true;
481.
482.                 $this->callWriter = new Nest($this->callWriter,
                'footnote_close');
483.                 $this->addCall('footnote_open', array(), $pos);
484.                 break;
485.             case DOKU_LEXER_EXIT:
486.                 // check whether we have already exited the
                footnote mode, can happen if the modes were nested
487.                 if (!$this->footnote) {
488.                     $this->addCall('cdata', array($match), $pos);
489.                     break;
490.                 }
491.
492.                 $this->footnote = false;
493.                 $this->addCall('footnote_close', array(), $pos);
494.
495.                 /** @var Nest $reWriter */
496.                 $reWriter = $this->callWriter;
497.                 $this->callWriter = $reWriter->process();
498.                 break;
499.             case DOKU_LEXER_UNMATCHED:
500.                 $this->addCall('cdata', array($match), $pos);
501.                 break;
502.         }
503.         return true;
504.     }
505.
506.     /**
507.      * @param string $match matched syntax
508.      * @param int $state a LEXER_STATE_* constant
509.      * @param int $pos byte position in the original source file
510.      * @return bool mode handled?
511.      */
512.     public function listblock($match, $state, $pos) {
513.         switch ( $state ) {
514.             case DOKU_LEXER_ENTER:
515.                 $this->callWriter = new Lists($this->callWriter);
516.                 $this->addCall('list_open', array($match), $pos);

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517.         break;
518.         case DOKU_LEXER_EXIT:
519.             $this->addCall('list_close', array(), $pos);
520.             /** @var Lists $reWriter */
521.             $reWriter = $this->callWriter;
522.             $this->callWriter = $reWriter->process();
523.         break;
524.         case DOKU_LEXER_MATCHED:
525.             $this->addCall('list_item', array($match), $pos);
526.         break;
527.         case DOKU_LEXER_UNMATCHED:
528.             $this->addCall('cdata', array($match), $pos);
529.         break;
530.     }
531.     return true;
532. }
533.
534. /**
535.  * @param string $match matched syntax
536.  * @param int $state a LEXER_STATE_* constant
537.  * @param int $pos byte position in the original source file
538.  * @return bool mode handled?
539.  */
540. public function unformatted($match, $state, $pos) {
541.     if ( $state == DOKU_LEXER_UNMATCHED ) {
542.         $this->addCall('unformatted', array($match), $pos);
543.     }
544.     return true;
545. }
546.
547. /**
548.  * @param string $match matched syntax
549.  * @param int $state a LEXER_STATE_* constant
550.  * @param int $pos byte position in the original source file
551.  * @return bool mode handled?
552.  */
553. public function preformatted($match, $state, $pos) {
554.     switch ( $state ) {
555.         case DOKU_LEXER_ENTER:
556.             $this->callWriter = new
Preformatted($this->callWriter);
557.             $this->addCall('preformatted_start', array(),
$pos);
558.         break;
559.         case DOKU_LEXER_EXIT:
560.             $this->addCall('preformatted_end', array(), $pos);
561.             /** @var Preformatted $reWriter */
562.             $reWriter = $this->callWriter;
563.             $this->callWriter = $reWriter->process();
564.         break;
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```
565.         case DOKU_LEXER_MATCHED:
566.             $this->addCall('preformatted_newline', array(),
$pos);
567.             break;
568.         case DOKU_LEXER_UNMATCHED:
569.             $this->addCall('preformatted_content',
array($match), $pos);
570.             break;
571.     }
572.
573.     return true;
574. }
575.
576. /**
577.  * @param string $match matched syntax
578.  * @param int $state a LEXER_STATE_* constant
579.  * @param int $pos byte position in the original source file
580.  * @return bool mode handled?
581.  */
582. public function quote($match, $state, $pos) {
583.
584.     switch ( $state ) {
585.
586.         case DOKU_LEXER_ENTER:
587.             $this->callWriter = new Quote($this->callWriter);
588.             $this->addCall('quote_start', array($match),
$pos);
589.             break;
590.
591.         case DOKU_LEXER_EXIT:
592.             $this->addCall('quote_end', array(), $pos);
593.             /** @var Lists $reWriter */
594.             $reWriter = $this->callWriter;
595.             $this->callWriter = $reWriter->process();
596.             break;
597.
598.         case DOKU_LEXER_MATCHED:
599.             $this->addCall('quote_newline', array($match),
$pos);
600.             break;
601.
602.         case DOKU_LEXER_UNMATCHED:
603.             $this->addCall('cdata', array($match), $pos);
604.             break;
605.
606.     }
607.
608.     return true;
609. }
610.
611. /**
```

```
612.      * @param string $match matched syntax
613.      * @param int $state a LEXER_STATE_* constant
614.      * @param int $pos byte position in the original source file
615.      * @return bool mode handled?
616.      */
617.      public function file($match, $state, $pos) {
618.          return $this->code($match, $state, $pos, 'file');
619.      }
620.
621.      /**
622.       * @param string $match matched syntax
623.       * @param int $state a LEXER_STATE_* constant
624.       * @param int $pos byte position in the original source file
625.       * @param string $type either 'code' or 'file'
626.       * @return bool mode handled?
627.       */
628.      public function code($match, $state, $pos, $type='code') {
629.          if ( $state == DOKU_LEXER_UNMATCHED ) {
630.              $matches = sexplode('>', $match, 2, '');
631.              // Cut out variable options enclosed in []
632.              preg_match('/\[.*\]/', $matches[0], $options);
633.              if (!empty($options[0])) {
634.                  $matches[0] = str_replace($options[0], '',
635.                  $matches[0]);
636.              }
637.              $param = preg_split('/\s+/', $matches[0], 2,
638.              PREG_SPLIT_NO_EMPTY);
639.              while(count($param) < 2) array_push($param, null);
640.              // We shortcut html here.
641.              if ($param[0] == 'html') $param[0] = 'html4strict';
642.              if ($param[0] == '-') $param[0] = null;
643.              array_unshift($param, $matches[1]);
644.              if (!empty($options[0])) {
645.                  $param [] = $this->parse_highlight_options
646.                  ($options[0]);
647.              }
648.              $this->addCall($type, $param, $pos);
649.          }
650.          return true;
651.      }
652.
653.      /**
654.       * @param string $match matched syntax
655.       * @param int $state a LEXER_STATE_* constant
656.       * @param int $pos byte position in the original source file
657.       * @return bool mode handled?
658.       */
659.      public function acronym($match, $state, $pos) {
660.          $this->addCall('acronym', array($match), $pos);
661.          return true;
662.      }
```

```
659.     }
660.
661.     /**
662.      * @param string $match matched syntax
663.      * @param int $state a LEXER_STATE_* constant
664.      * @param int $pos byte position in the original source file
665.      * @return bool mode handled?
666.      */
667.     public function smiley($match, $state, $pos) {
668.         $this->addCall('smiley', array($match), $pos);
669.         return true;
670.     }
671.
672.     /**
673.      * @param string $match matched syntax
674.      * @param int $state a LEXER_STATE_* constant
675.      * @param int $pos byte position in the original source file
676.      * @return bool mode handled?
677.      */
678.     public function wordblock($match, $state, $pos) {
679.         $this->addCall('wordblock', array($match), $pos);
680.         return true;
681.     }
682.
683.     /**
684.      * @param string $match matched syntax
685.      * @param int $state a LEXER_STATE_* constant
686.      * @param int $pos byte position in the original source file
687.      * @return bool mode handled?
688.      */
689.     public function entity($match, $state, $pos) {
690.         $this->addCall('entity', array($match), $pos);
691.         return true;
692.     }
693.
694.     /**
695.      * @param string $match matched syntax
696.      * @param int $state a LEXER_STATE_* constant
697.      * @param int $pos byte position in the original source file
698.      * @return bool mode handled?
699.      */
700.     public function multiplyentity($match, $state, $pos) {
701.         preg_match_all('/\d+/', $match, $matches);
702.         $this->addCall('multiplyentity', array($matches[0][0],
703.         $matches[0][1]), $pos);
704.         return true;
705.     }
706.
707.     /**
708.      * @param string $match matched syntax
709.      * @param int $state a LEXER_STATE_* constant
```

```
709.      * @param int $pos byte position in the original source file
710.      * @return bool mode handled?
711.      */
712.      public function singlequoteopening($match, $state, $pos) {
713.          $this->addCall('singlequoteopening', array(), $pos);
714.          return true;
715.      }
716.
717.      /**
718.       * @param string $match matched syntax
719.       * @param int $state a LEXER_STATE_* constant
720.       * @param int $pos byte position in the original source file
721.       * @return bool mode handled?
722.       */
723.      public function singlequoteclosing($match, $state, $pos) {
724.          $this->addCall('singlequoteclosing', array(), $pos);
725.          return true;
726.      }
727.
728.      /**
729.       * @param string $match matched syntax
730.       * @param int $state a LEXER_STATE_* constant
731.       * @param int $pos byte position in the original source file
732.       * @return bool mode handled?
733.       */
734.      public function apostrophe($match, $state, $pos) {
735.          $this->addCall('apostrophe', array(), $pos);
736.          return true;
737.      }
738.
739.      /**
740.       * @param string $match matched syntax
741.       * @param int $state a LEXER_STATE_* constant
742.       * @param int $pos byte position in the original source file
743.       * @return bool mode handled?
744.       */
745.      public function doublequoteopening($match, $state, $pos) {
746.          $this->addCall('doublequoteopening', array(), $pos);
747.          $this->status['doublequote']++;
748.          return true;
749.      }
750.
751.      /**
752.       * @param string $match matched syntax
753.       * @param int $state a LEXER_STATE_* constant
754.       * @param int $pos byte position in the original source file
755.       * @return bool mode handled?
756.       */
757.      public function doublequoteclosing($match, $state, $pos) {
758.          if ($this->status['doublequote'] <= 0) {
```

```

759.         $this->doublequoteopening($match, $state, $pos);
760.     } else {
761.         $this->addCall('doublequoteclosing', array(), $pos);
762.         $this->status['doublequote'] = max(0, --
$this->status['doublequote']);
763.     }
764.     return true;
765. }
766.
767. /**
768.  * @param string $match matched syntax
769.  * @param int $state a LEXER_STATE_* constant
770.  * @param int $pos byte position in the original source file
771.  * @return bool mode handled?
772.  */
773. public function camelcaselink($match, $state, $pos) {
774.     $this->addCall('camelcaselink', array($match), $pos);
775.     return true;
776. }
777.
778. /**
779.  * @param string $match matched syntax
780.  * @param int $state a LEXER_STATE_* constant
781.  * @param int $pos byte position in the original source file
782.  * @return bool mode handled?
783.  */
784. public function internallink($match, $state, $pos) {
785.     // Strip the opening and closing markup
786.     $link =
preg_replace(array('/^\[\/','\/\]\$\/u'),'',$match);
787.
788.     // Split title from URL
789.     $link = sexplode('|',$link,2);
790.     if ( $link[1] === null ) {
791.         $link[1] = null;
792.     } else if ( preg_match('/^\{[^}\}]+\}\$\/',$link[1]) ) {
793.         // If the title is an image, convert it to an array
        containing the image details
794.         $link[1] = Doku_Handler_Parse_Media($link[1]);
795.     }
796.     $link[0] = trim($link[0]);
797.
798.     //decide which kind of link it is
799.
800.     if ( link_isinterwiki($link[0]) ) {
801.         // Interwiki
802.         $interwiki = sexplode('>',$link[0],2,'');
803.         $this->addCall(
804.             'interwikilink',
805.             array($link[0],$link[1],strtolower($interwiki[0]),$interwiki[1]),

```

```

806.         $pos
807.     );
808.     }elseif ( preg_match('/^\\\\\\\\\\\\\\\\\[^\\\\\\\\\]+?\\\\\\\\\\\\/u',$link[0])
809. ) {
810.         // Windows Share
811.         $this->addCall(
812.             'windowssharelink',
813.             array($link[0],$link[1]),
814.             $pos
815.         );
816.     }elseif ( preg_match('#^([a-z0-9\\-\\.\\+]+?)://#i',$link[0])
817. ) {
818.         // external link (accepts all protocols)
819.         $this->addCall(
820.             'externallink',
821.             array($link[0],$link[1]),
822.             $pos
823.         );
824.     }elseif (
825. preg_match('<'.PREG_PATTERN_VALID_EMAIL.'>',$link[0]) ) {
826.         // E-Mail (pattern above is defined in inc/mail.php)
827.         $this->addCall(
828.             'emaillink',
829.             array($link[0],$link[1]),
830.             $pos
831.         );
832.     }elseif ( preg_match('!^#\\.+!', $link[0]) ){
833.         // local link
834.         $this->addCall(
835.             'locallink',
836.             array(substr($link[0],1),$link[1]),
837.             $pos
838.         );
839.     }else{
840.         // internal link
841.         $this->addCall(
842.             'internallink',
843.             array($link[0],$link[1]),
844.             $pos
845.         );
846.     }
847.     return true;
848. }
849.
850. /**
851.  * @param string $match matched syntax
852.  * @param int $state a LEXER_STATE_* constant
853.  * @param int $pos byte position in the original source file
854.  * @return bool mode handled?

```

```
853.      */
854.      public function filelink($match, $state, $pos) {
855.          $this->addCall('filelink', array($match, null), $pos);
856.          return true;
857.      }
858.
859.      /**
860.       * @param string $match matched syntax
861.       * @param int $state a LEXER_STATE_* constant
862.       * @param int $pos byte position in the original source file
863.       * @return bool mode handled?
864.       */
865.      public function windowssharelink($match, $state, $pos) {
866.          $this->addCall('windowssharelink', array($match, null),
867.          $pos);
868.          return true;
869.      }
870.
871.      /**
872.       * @param string $match matched syntax
873.       * @param int $state a LEXER_STATE_* constant
874.       * @param int $pos byte position in the original source file
875.       * @return bool mode handled?
876.       */
877.      public function media($match, $state, $pos) {
878.          $p = Doku_Handler_Parse_Media($match);
879.
880.          $this->addCall(
881.              $p['type'],
882.              array($p['src'], $p['title'], $p['align'],
883.              $p['width'],
884.                  $p['height'], $p['cache'], $p['linking']),
885.              $pos
886.          );
887.          return true;
888.      }
889.
890.      /**
891.       * @param string $match matched syntax
892.       * @param int $state a LEXER_STATE_* constant
893.       * @param int $pos byte position in the original source file
894.       * @return bool mode handled?
895.       */
896.      public function rss($match, $state, $pos) {
897.          $link =
898.          preg_replace(array('/^\{\{rss>/', '/\}\}\$/'), '', $match);
899.
900.          // get params
901.          list($link, $params) = sexplode(' ', $link, 2, '');
902.
903.          $p = array();
```

```
901.         if(preg_match('/\b(\d+)\b/', $params, $match)){
902.             $p['max'] = $match[1];
903.         }else{
904.             $p['max'] = 8;
905.         }
906.         $p['reverse'] = (preg_match('/rev/', $params));
907.         $p['author'] = (preg_match('/\b(by|author)/', $params));
908.         $p['date'] = (preg_match('/\b(date)/', $params));
909.         $p['details'] = (preg_match('/\b(desc|detail)/', $params));
910.         $p['nosort'] = (preg_match('/\b(nosort)\b/', $params));
911.
912.         if (preg_match('/\b(\d+)([dhm])\b/', $params, $match)) {
913.             $period = array('d' => 86400, 'h' => 3600, 'm' => 60);
914.             $p['refresh'] = max(600, $match[1]*$period[$match[2]]);
915.             // n * period in seconds, minimum 10 minutes
916.         } else {
917.             $p['refresh'] = 14400; // default to 4 hours
918.         }
919.         $this->addCall('rss', array($link, $p), $pos);
920.         return true;
921.     }
922.
923.     /**
924.      * @param string $match matched syntax
925.      * @param int $state a LEXER_STATE_* constant
926.      * @param int $pos byte position in the original source file
927.      * @return bool mode handled?
928.      */
929.     public function externallink($match, $state, $pos) {
930.         $url = $match;
931.         $title = null;
932.
933.         // add protocol on simple short URLs
934.         if(substr($url, 0, 3) == 'ftp' && (substr($url, 0, 6) !=
'ftp://')){
935.             $title = $url;
936.             $url = 'ftp://'.$url;
937.         }
938.         if(substr($url, 0, 3) == 'www' && (substr($url, 0, 7) !=
'http://')){
939.             $title = $url;
940.             $url = 'http://'.$url;
941.         }
942.
943.         $this->addCall('externallink', array($url, $title), $pos);
944.         return true;
945.     }
946.
947.     /**
```

```
948.      * @param string $match matched syntax
949.      * @param int $state a LEXER_STATE_* constant
950.      * @param int $pos byte position in the original source file
951.      * @return bool mode handled?
952.      */
953.      public function emailink($match, $state, $pos) {
954.          $email = preg_replace(array('/^</', '/>$/', ''), $match);
955.          $this->addCall('emailink', array($email, null), $pos);
956.          return true;
957.      }
958.
959.      /**
960.       * @param string $match matched syntax
961.       * @param int $state a LEXER_STATE_* constant
962.       * @param int $pos byte position in the original source file
963.       * @return bool mode handled?
964.       */
965.      public function table($match, $state, $pos) {
966.          switch ( $state ) {
967.
968.              case DOKU_LEXER_ENTER:
969.
970.                  $this->callWriter = new Table($this->callWriter);
971.
972.                  $this->addCall('table_start', array($pos + 1),
973.                  $pos);
974.
975.                  if ( trim($match) == '^' ) {
976.                      $this->addCall('tableheader', array(), $pos);
977.                  } else {
978.                      $this->addCall('tablecell', array(), $pos);
979.                  }
980.                  break;
981.
982.              case DOKU_LEXER_EXIT:
983.                  $this->addCall('table_end', array($pos), $pos);
984.                  /** @var Table $reWriter */
985.                  $reWriter = $this->callWriter;
986.                  $this->callWriter = $reWriter->process();
987.                  break;
988.
989.              case DOKU_LEXER_UNMATCHED:
990.                  if ( trim($match) != '' ) {
991.                      $this->addCall('cdata', array($match), $pos);
992.                  }
993.                  break;
994.
995.              case DOKU_LEXER_MATCHED:
996.                  if ( $match == ' ' ) {
997.                      $this->addCall('cdata', array($match), $pos);
998.                  } else if ( preg_match('/:::/', $match) ) {
999.                      $this->addCall('rowspan', array($match),
```

```

    $pos);
998.         } else if ( preg_match('/\t+/', $match) ) {
999.             $this->addCall('table_align', array($match),
    $pos);
1000.        } else if ( preg_match('/ {2,}/', $match) ) {
1001.            $this->addCall('table_align', array($match),
    $pos);
1002.        } else if ( $match == "\n|" ) {
1003.            $this->addCall('table_row', array(), $pos);
1004.            $this->addCall('tablecell', array(), $pos);
1005.        } else if ( $match == "\n^" ) {
1006.            $this->addCall('table_row', array(), $pos);
1007.            $this->addCall('tableheader', array(), $pos);
1008.        } else if ( $match == '|' ) {
1009.            $this->addCall('tablecell', array(), $pos);
1010.        } else if ( $match == '^' ) {
1011.            $this->addCall('tableheader', array(), $pos);
1012.        }
1013.        break;
1014.    }
1015.    return true;
1016. }
1017.
1018. // endregion modes
1019. }
1020.
1021. //-----
    -----
1022. function Doku_Handler_Parse_Media($match) {
1023.
1024.     // Strip the opening and closing markup
1025.     $link = preg_replace(array('/^\{\{/','/\}\}\$/u'),'',$match);
1026.
1027.     // Split title from URL
1028.     $link = sexplode('|', $link, 2);
1029.
1030.     // Check alignment
1031.     $ralign = (bool)preg_match('/^ /',$link[0]);
1032.     $lalign = (bool)preg_match('/ $/',$link[0]);
1033.
1034.     // Logic = what's that ;)...
1035.     if ( $lalign & $ralign ) {
1036.         $align = 'center';
1037.     } else if ( $ralign ) {
1038.         $align = 'right';
1039.     } else if ( $lalign ) {
1040.         $align = 'left';
1041.     } else {
1042.         $align = null;
1043.     }

```

```
1044.
1045.     // The title...
1046.     if ( !isset($link[1]) ) {
1047.         $link[1] = null;
1048.     }
1049.
1050.     //remove aligning spaces
1051.     $link[0] = trim($link[0]);
1052.
1053.     //split into src and parameters (using the very last
    questionmark)
1054.     $pos = strrpos($link[0], '?');
1055.     if($pos !== false){
1056.         $src = substr($link[0],0,$pos);
1057.         $param = substr($link[0],$pos+1);
1058.     }else{
1059.         $src = $link[0];
1060.         $param = '';
1061.     }
1062.
1063.     //parse width and height
1064.     if(preg_match('#(\d+)(x(\d+))?#i',$param,$size)){
1065.         !empty($size[1]) ? $w = $size[1] : $w = null;
1066.         !empty($size[3]) ? $h = $size[3] : $h = null;
1067.     } else {
1068.         $w = null;
1069.         $h = null;
1070.     }
1071.
1072.     //get linking command
1073.     if(preg_match('/nolink/i',$param)){
1074.         $linking = 'nolink';
1075.     }else if(preg_match('/direct/i',$param)){
1076.         $linking = 'direct';
1077.     }else if(preg_match('/linkonly/i',$param)){
1078.         $linking = 'linkonly';
1079.     }else{
1080.         $linking = 'details';
1081.     }
1082.
1083.     //get caching command
1084.     if (preg_match('/(nocache|recache)/i',$param,$cachemode)){
1085.         $cache = $cachemode[1];
1086.     }else{
1087.         $cache = 'cache';
1088.     }
1089.
1090.     // Check whether this is a local or remote image or interwiki
1091.     if (media_isexternal($src) || link_isinterwiki($src)){
1092.         $call = 'externalmedia';
1093.     } else {
```

```
1094.         $call = 'internalmedia';
1095.     }
1096.
1097.     $params = array(
1098.         'type'=>$call,
1099.         'src'=>$src,
1100.         'title'=>$link[1],
1101.         'align'=>$align,
1102.         'width'=>$w,
1103.         'height'=>$h,
1104.         'cache'=>$cache,
1105.         'linking'=>$linking,
1106.     );
1107.
1108.     return $params;
1109. }
```

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