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ESCUELA POLITÉCNICA SUPERIOR

PROYECTO FIN DE CARRERA
INGENIERÍA TÉCNICA EN INFORMÁTICA DE GESTIÓN

Editor colaborativo de código fuente en lenguaje C

Manual de Código

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En Córdoba, a 3 de septiembre de 2012

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Capítulo 1

Introducción

En este manual se describe el código utilizado en cada uno de los ficheros que compone la aplicación desarrollada para realizar un entorno de edición de código colaborativo en lenguaje C para Moodle. Debido a que este Sistema de Administración de Cursos es mantenido aún tanto en su versión 1.* como en la 2.*, este proyecto puede dividirse en varios subproyectos:

- **Módulo para Moodle 1.x**
- **Módulo para Moodle 2.x**
- **Editor colaborativo**

El editor colaborativo es parte común para ambas versiones, pero debido a que está escrito en otro lenguaje y a su vez es un elemento totalmente independiente, válido para cualquier LMS, también es preferible detallarlo por separado. Así, la estructura de ficheros existente será:

- Módulo para Moodle 1.x

Front-end: create.php, create_form.php, diff.php, edit.php, edit_form.php, history.php, index.php, log.php, log_form.php, mod_form.php, pagelib.php, version.php, view.php, viewversion.php

Back-end: lib.php, localib.php

- Módulo para Moodle 2.x

Front-end: admin.php, comments.php, comments_form.php, create.php, create_form.php, diff.php, edit.php, edit_form.php, files.php, filesedit.php, filesedit_form.php, history.php, index.php, log.php, log_form.php, mod_form.php, pagelib.php, version.php, view.php, viewversion.php

Back-end: instancecomments.php, lib.php, localib.php, map.php, overridelocks.php, prettyview.php, renderer.php, restoreversion.php, search.php

- Editor colaborativo

Front-end: wikichat.php, wikieditor.php

Back-end PHP: editorlib.php, editorlibfn.php, unlock.php, chat/post.php

Back-end JS: codemirror.js, editor.js, highlight.js, lock.js, parseC.js, select.js, stringstream.js, tokenize.js, undo.js, unlock.js, util.js

Hojas de estilo: Ccolors.css, chat/style.css

1.1. Descripción del código

Los módulos correspondientes a las versiones de Moodle han sido desarrollados en lenguaje PHP, puesto que es el lenguaje que utiliza el sistema e-learning. PHP es un acrónimo recursivo que significa PHP Hypertext Pre-processor, el cual puede ser desplegado en la mayoría de los servidores web y en casi todos los sistemas operativos y plataformas sin costo alguno. El lenguaje PHP se encuentra instalado en más de 20 millones de sitios web y en un millón de servidores.

Al tratarse de un lenguaje de programación interpretado o *framework* para HTML (HyperText Markup Language) no necesita de compilación, sino que es el propio servidor el que lo interpreta y crea la salida.

La estructura de ficheros es muy simple, donde tenemos un fichero principal (pagelib.php) que es el encargado de la declaración de todas las clases y posteriormente tenemos un fichero por formulario que es el que hace uso de estas clases.

Con respecto al editor, y puesto que se requería que este actuara en tiempo real, se ha decidido utilizar como lenguaje Javascript. JavaScript es un lenguaje de programación interpretado, dialecto del estándar ECMAScript. Se define como orientado a objetos, basado en prototipos, imperativo, débilmente tipado y dinámico.

Al contrario que PHP, se utiliza principalmente en su forma *client-side*, lo que nos permite mejoras en el interfaz y sobretodo dinamismo en base al cliente. Unido a las

ventajas de este lenguaje es que se ha utilizado su biblioteca *jQuery*, la cual nos permite simplificar la manera de interactuar con los documentos HTML, manipular el árbol DOM, manejar eventos, desarrollar animaciones y agregar interacción con la técnica AJAX a páginas web.

Todos los archivos Javascript del proyecto se encuentran dentro del directorio **/js**, lo cual nos permite un acceso más directo a ellos.

Con respecto a los ficheros PHP necesarios para el editor colaborativo, también se ha considerado crear un directorio para cada uno que los represente. Por ello los ficheros para el chat se encuentran dentro del directorio **/chat**, mientras que los ficheros necesarios para el propio editor de código se encuentran en el directorio **/editors**.

Por último, se ha considerado útil almacenar todas las hojas de estilo de modo conjunto, dentro del directorio **/css**.

Capítulo 2

Módulo para Moodle 1.x

2.1. Front-End

2.1.1. create.php

```
1  <?php
2
3  require_once('.../config.php');
4  require_once(dirname(__FILE__) . '/create_form.php');
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  // this page accepts two actions: new and create
10 // 'new' action will display a form contains page title and page format
11 // selections
12 // 'create' action will create a new page in db, and redirect to
13 // page editing page.
14 $action = optional_param('action', 'new', PARAM_TEXT);
15 // The title of the new page, can be empty
16 $title = optional_param('title', '', PARAM_TEXT);
17 $wid = optional_param('wid', 0, PARAM_INT);
18 $swid = optional_param('swid', 0, PARAM_INT);
19 $gid = optional_param('gid', 0, PARAM_INT);
20 $uid = optional_param('uid', 0, PARAM_INT);
21
22 // 'create' action must be submitted by moodle form
23 // so sesskey must be checked
24 if ($action == 'create') {
25     if (!confirm_sesskey()) {
26         print_error('invalidsesskey');
27     }
28 }
29
```

```

30 if (!empty($swid)) {
31     $subwiki = wikicode_get_subwiki($swid);
32     $wid = $subwiki->wikiid;
33
34     if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
35         print_error('invalidwikiid', 'wikicode');
36     }
37
38 } else {
39     $subwiki = wikicode_get_subwiki_by_group($wid, $gid, $uid);
40
41     if (!$wiki = wikicode_get_wiki($wid)) {
42         print_error('invalidwikiid', 'wikicode');
43     }
44
45 }
46
47 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
48     print_error('invalidcoursemoduleid', 'wikicode');
49 }
50
51 $course = get_record('course', 'id', $cm->course);
52
53 require_login($course->id, true, $cm);
54
55 add_to_log($course->id, 'createpage', 'createpage', 'view.php?id=' . $cm->id, $wiki
    ->id);
56
57 $wikipage = new page_wikicode_create($wiki, $subwiki, $cm);
58
59 if (!empty($swid)) {
60     $wikipage->set_gid($subwiki->groupid);
61     $wikipage->set_uid($subwiki->userid);
62     $wikipage->set_swid($swid);
63     $wikipage->set_wid($wid);
64 } else {
65     $wikipage->set_wid($wid);
66     $wikipage->set_gid($gid);
67     $wikipage->set_uid($uid);
68 }
69
70 // set page action, and initialise moodle form
71
72 $wikipage->set_action($action);
73
74 switch ($action) {
75 case 'create':
76     $wikipage->create_page($title);
77     break;
78 case 'new':
79     if ((int)$wiki->forceformat == 1 && !empty($title)) {
80         $wikipage->create_page($title);
81     } else {
82         // create link from moodle navigation block without pagetitle

```

```
83     $wikipage->print_header($cm, $course);
84
85     // new page without page title
86     $wikipage->print_content($title);
87 }
88 print_footer($course);
89 break;
90 }
```

2.1.2. create_form.php

```
1  <?php
2
3  require_once($CFG->libdir.'/formslib.php');
4
5  class mod_wikicode_create_form extends moodleform {
6
7      function definition() {
8          global $CFG;
9          $mform =& $this->_form;
10
11          $formats = $this->_customdata['formats'];
12          $defaultformat = $this->_customdata['defaultformat'];
13          $forceformat = $this->_customdata['forceformat'];
14
15          $mform->addElement('header', 'general', get_string('createpage', 'wikicode'
16              ));
17
18          $textoptions = array();
19          if (!empty($this->_customdata['disable_pagetitle'])) {
20              $textoptions = array('readonly'=>'readonly');
21          }
22          $mform->addElement('text', 'pagetitle', get_string('newpagetitle', '
23              wikicode'), $textoptions);
24
25          if ($forceformat) {
26              $mform->addElement('hidden', 'pageformat', $defaultformat);
27          } else {
28              $mform->addElement('static', 'format', get_string('format', 'wikicode')
29                  );
30              foreach ($formats as $format) {
31                  if ($format == $defaultformat) {
32                      $attr = array('checked'=>'checked');
33                  }else if (!empty($forceformat)){
34                      $attr = array('disabled'=>'disabled');
35                  } else {
36                      $attr = array();
37                  }
38                  $mform->addElement('radio', 'pageformat', '', get_string('format'.
39                      $format, 'wikicode'), $format, $attr);
40              }
41          }
42      }
43  }
```

```

37     }
38
39     //hiddens
40     $mform->addElement('hidden', 'action');
41     $mform->setDefault('action', 'create');
42
43     $this->add_action_buttons(false, get_string('createpage', 'wikicode'));
44 }
45 }

```

2.1.3. diff.php

```

1  <?php
2
3  require_once('.../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  require_once($CFG->dirroot . '/mod/wikicode/diff/difflib.php');
10 require_once($CFG->dirroot . '/mod/wikicode/diff/diff_nwiki.php');
11
12 $pageid = required_param('pageid', PARAM_TEXT);
13 $compare = required_param('compare', PARAM_INT);
14 $comparewith = required_param('comparewith', PARAM_INT);
15
16 if (!$page = wikicode_get_page($pageid)) {
17     print_error('incorrectpageid', 'wikicode');
18 }
19
20 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
21     print_error('incorrectsubwikiid', 'wikicode');
22 }
23
24 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
25     print_error('incorrectwikiid', 'wikicode');
26 }
27
28 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
29     print_error('invalidcoursemodule');
30 }
31
32 $course = get_record('course', 'id', $cm->course);
33
34 if ($compare >= $comparewith) {
35     print_error("A page version can only be compared with an older version.");
36 }
37
38 require_login($course->id, true, $cm);
39 add_to_log($course->id, "wikicode", "diff", "diff.php?id=$cm->id", "$wiki->id");

```



```
40
41 $wikipage = new page_wikicode_diff($wiki, $subwiki, $cm);
42
43 $wikipage->set_page($page);
44 $wikipage->set_comparison($compare, $comparewith);
45
46 $wikipage->print_header($cm, $course);
47
48 $wikipage->print_content();
49
50 print_footer($course);
```

2.1.4. edit.php

```
1 <?php
2
3 require_once('.../config.php');
4
5 require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6 require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7 require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9
10 $pageid = required_param('pageid', PARAM_INT);
11 $contentformat = optional_param('contentformat', '', PARAM_ALPHA);
12 $option = optional_param('editoption', '', PARAM_TEXT);
13 $section = optional_param('section', '', PARAM_TEXT);
14 $version = optional_param('version', -1, PARAM_INT);
15 $attachments = optional_param('attachments', 0, PARAM_INT);
16 $deleteuploads = optional_param('deleteuploads', 0, PARAM_RAW);
17 $compiled = optional_param('compiled', 0, PARAM_INT);
18
19 $newcontent = '';
20 if (!empty($newcontent) && is_array($newcontent)) {
21     $newcontent = $newcontent['text'];
22 }
23
24 if (!empty($option) && is_array($option)) {
25     $option = $option['editoption'];
26 }
27
28 if (!$page = wikicode_get_page($pageid)) {
29     print_error('incorrectpageid', 'wikicode');
30 }
31
32 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
33     print_error('incorrectsubwikiid', 'wikicode');
34 }
35
36 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
37     print_error('incorrectwikiid', 'wikicode');
```

```

38 }
39
40 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
41     print_error('invalidcoursemodule');
42 }
43
44 $course = get_record('course', 'id', $cm->course);
45
46 if (!empty($section) && !$sectioncontent = wikicode_get_section_page($page,
47     $section)) {
48     print_error('invalidsection', 'wikicode');
49 }
50
51 require_login($course, true, $cm);
52
53 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
54 require_capability('mod/wikicode:editpage', $context);
55
56 add_to_log($course->id, 'wikicode', 'edit', "edit.php?id=$cm->id", "$wiki->id");
57
58 if ($option == get_string('save', 'wikicode')) {
59     if (!confirm_sesskey()) {
60         print_error(get_string('invalidsesskey', 'wikicode'));
61     }
62     $wikipage = new page_wikicode_save($wiki, $subwiki, $cm);
63     $wikipage->set_page($page);
64     $wikipage->set_newcontent($newcontent);
65     $wikipage->set_upload(true);
66 } else {
67     if ($option == 'Compile' or $option == 'Download') {
68         if (!confirm_sesskey()) {
69             print_error(get_string('invalidsesskey', 'wikicode'));
70         }
71         $wikipage = new page_wikicode_compile($wiki, $subwiki, $cm);
72         $wikipage->set_page($page);
73         $wikipage->set_download(($option == 'Download'));
74     }
75     else {
76         if ($option == get_string('cancel')) {
77             //delete lock
78             wikicode_delete_locks($page->id, $USER->id, $section);
79
80             redirect($CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $pageid);
81         } else {
82             $wikipage = new page_wikicode_edit($wiki, $subwiki, $cm);
83             $wikipage->set_page($page);
84             $wikipage->set_upload($option == get_string('upload', 'wikicode'));
85             $wikipage->set_compiled($compiled);
86         }
87     }
88 }
89
90 if (has_capability('mod/wikicode:overridelock', $context)) {
91     $wikipage->set_overridelock(true);
92 }

```

```

91 }
92
93 if ($version >= 0) {
94     $wikipage->set_versionnumber($version);
95 }
96
97 if (!empty($section)) {
98     $wikipage->set_section($sectioncontent, $section);
99 }
100
101 if (!empty($attachments)) {
102     $wikipage->set_attachments($attachments);
103 }
104
105 if (!empty($deleteuploads)) {
106     $wikipage->set_deleteuploads($deleteuploads);
107 }
108
109 if (!empty($contentformat)) {
110     $wikipage->set_format($contentformat);
111 }
112
113 $wikipage->print_header($cm, $course);
114
115 $wikipage->print_content();
116
117 print_footer($course);

```

2.1.5. edit_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

/// It must be included
from a Moodle page

```

5  }
6
7  require_once($CFG->dirroot . '/mod/wikicode/editors/wikieditor.php');
8  require_once($CFG->dirroot . '/mod/wikicode/chat/wikichat.php');
9  require_once($CFG->dirroot . '/lib/formslib.php');
10
11  class mod_wikicode_edit_form extends moodleform {
12
13      function definition() {
14          global $CFG, $USER;
15          $mform =& $this->_form;
16
17          $version = $this->_customdata['version'];
18          $format = $this->_customdata['format'];
19          $tags = !isset($this->_customdata['tags'])?"":$this->_customdata['tags'];

```

```

20
21     if ($format != 'html') {
22         $contextid = $this->_customdata['contextid'];
23         $filearea = $this->_customdata['filearea'];
24         $fileitemid = $this->_customdata['fileitemid'];
25     }
26
27     if (isset($this->_customdata['pagetitle'])) {
28         $pagetitle = get_string('editingpage', 'wikicode', $this->_customdata['
29             pagetitle']);
30     } else {
31         $pagetitle = get_string('editing', 'wikicode');
32     }
33
34     //editor
35     $mform->addElement('header', 'general', $pagetitle);
36
37     $fieldname = get_string('format' . $format, 'wikicode');
38     if ($format != 'html') {
39         // Use wiki editor
40         $buttoncommands=array();
41         $buttoncommands[] =& $mform->createElement('button', '
42             editoption','Unlock', array('id' => 'btnunlock', 'class
43             ' => 'btnunlock'));
44         $buttoncommands[] =& $mform->createElement('button', '
45             editoption','Refresh', array('id' => 'btnref', 'class'
46             => 'btnref'));
47         $buttoncommands[] =& $mform->createElement('submit', '
48             editoption', 'Save', array('id' => 'save'));
49         $mform->addGroup($buttoncommands, 'editoption', 'Actions:',
50             '', true);
51         $mform->addElement('wikicodeeditor', 'newcontent', $fieldname, array('
52             cols' => 150, 'rows' => 30, 'Wiki_format' => $format, 'files'=>
53             $files));
54     } else {
55         $mform->addElement('editor', 'newcontent_editor', $fieldname, null,
56             page_wikicode_edit::$attachmentoptions);
57     }
58
59     //chat
60     $mform->addElement('header', 'chat', 'Chat');
61     $mform->addElement('wikicodechat', 'wikicodechat', null, array('
62         itemid'=>$fileitemid));
63
64     //compiler
65     $mform->addElement('header', 'compiler', 'Compiler');
66     $mform->addElement('textarea', 'textCompiler', '', 'wrap="virtual"
67         rows="3" cols="100" readonly="readonly" ');
68
69     $buttonarray=array();
70     $buttonarray[] =& $mform->createElement('submit', 'editoption', '
71         Compile', array('id' => 'compile'));
72     $buttonarray[] =& $mform->createElement('submit', 'editoption', '
73         Download', array('id' => 'compile'));

```

```

60         $mform->addGroup($buttonarray, 'editoption', 'Options:', '', true);
61
62         //hiddens
63         if ($version >= 0) {
64             $mform->addElement('hidden', 'version');
65             $mform->setDefault('version', $version);
66         }
67
68         $mform->addElement('hidden', 'contentformat');
69         $mform->setDefault('contentformat', $format);
70
71         $mform->addElement('hidden', 'insert');
72         $mform->setDefault('insert', 1);
73
74     }
75
76 }

```

2.1.6. history.php

```

1  <?php
2  require_once('.../config.php');
3
4  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8  $pageid = required_param('pageid', PARAM_TEXT);
9  $paging = optional_param('page', 0, PARAM_INT);
10 $allversion = optional_param('allversion', 0, PARAM_INT);
11
12 if (!$page = wikicode_get_page($pageid)) {
13     print_error('incorrectpageid', 'wikicode');
14 }
15
16 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
17     print_error('incorrectsubwikiid', 'wikicode');
18 }
19
20 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
21     print_error('incorrectwikiid', 'wikicode');
22 }
23
24 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
25     print_error('invalidcoursemodule');
26 }
27
28 $course = get_record('course', 'id', $cm->course);
29
30 require_login($course->id, true, $cm);
31 $context = get_context_instance(CONTEXT_MODULE, $cm->id);

```

```

32 require_capability('mod/wikicode:viewpage', $context);
33 add_to_log($course->id, 'wikicode', 'history', 'history.php?id=' . $cm->id, $wiki->
    id);
34
35 /// Print the page header
36 $wikipage = new page_wikicode_history($wiki, $subwiki, $cm);
37
38 $wikipage->set_page($page);
39 $wikipage->set_paging($paging);
40 $wikipage->set_allversion($allversion);
41
42 $wikipage->print_header($cm, $course);
43 $wikipage->print_content();
44
45 print_footer($course);

```

2.1.7. index.php

```

1  <?php
2
3      require_once("../../config.php");
4      require_once("lib.php");
5
6      $id = required_param('id', PARAM_INT);    // course
7
8      if (! $course = get_record("course", "id", $id)) {
9          error("Course ID is incorrect");
10     }
11
12     require_course_login($course);
13
14     add_to_log($course->id, "wikicode", "view all", "index.php?id=$course->id", "")
        ;
15
16
17     /// Get all required strings
18
19     $strwikicodes = get_string("modulenameplural", "wikicode");
20     $strwikicode  = get_string("modulename", "wikicode");
21
22
23     /// Print the header
24     $navlinks = array();
25     $navlinks[] = array('name' => $strwikicodes, 'link' => "index.php?id=$course->
        id", 'type' => 'activity');
26     $navigation = build_navigation($navlinks);
27
28     print_header_simple("$strwikicodes", "", $navigation, "", "", true, "", navmenu
        ($course));
29
30     /// Get all the appropriate data

```

```

31
32     if (! $wikicodes = get_all_instances_in_course("wikicode", $course)) {
33         notice(get_string('thereareno', 'moodle', $strwikicodes), "../..course/
34             view.php?id=$course->id");
35         die;
36     }
37
38     /// Print the list of instances (your module will probably extend this)
39
40     $timenow = time();
41     $strname = 'Nombre';
42     $strsummary = get_string('summary');
43     $strtype = 'Tipo';
44     $strlastmodified = 'Creacion';
45     $strweek = get_string('week');
46     $strtopic = get_string('topic');
47
48     if ($course->format == "weeks") {
49         $table->head = array ($strweek, $strname, $strsummary, $strtype,
50             $strlastmodified);
51         $table->align = array ('CENTER', 'LEFT', 'LEFT', 'LEFT', 'LEFT');
52     } else if ($course->format == "topics") {
53         $table->head = array ($strtopic, $strname, $strsummary, $strtype,
54             $strlastmodified);
55         $table->align = array ('CENTER', 'LEFT', 'LEFT', 'LEFT', 'LEFT');
56     } else {
57         $table->head = array ($strname, $strsummary, $strtype, $strlastmodified);
58         $table->align = array ('LEFT', 'LEFT', 'LEFT', 'LEFT');
59     }
60
61     foreach ($wikicodes as $wikicode) {
62         if (!$wikicode->visible) {
63             //Show dimmed if the mod is hidden
64             $link = '<a class="dimmed" href="view.php?id='.$wikicode->coursemodule.
65                 '>'.format_string($wikicode->name,true).</a>';
66         } else {
67             //Show normal if the mod is visible
68             $link = '<a href="view.php?id='.$wikicode->coursemodule.'">'.
69                 format_string($wikicode->name,true).</a>';
70         }
71
72         $timmod = '<span class="smallinfo">'.userdate($wikicode->timemodified).</
73             span>';
74         $summary = '<div class="smallinfo">'. $wikicode->firstpagetitle.</div>';
75
76         $site = get_site();
77
78         $wtype = '<span class="smallinfo">'. $wikicode->wikimode.</span>';
79
80         if ($course->format == "weeks" or $course->format == "topics") {
81             $table->data[] = array ($wikicode->section, $link, $summary, $wtype,
82                 $timmod);
83         } else {
84             $table->data[] = array ($link, $summary, $wtype, $timmod);
85         }
86     }
87 }

```

```
78     }
79 }
80
81 echo "<br />";
82
83 print_table($table);
84
85 /// Finish the page
86
87 print_footer($course);
```

2.1.8. log.php

```
1 <?php
2
3 require_once('.../config.php');
4
5 require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6 require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7 require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9 $pageid = required_param('pageid', PARAM_INT);
10 $section = optional_param('section', "", PARAM_TEXT);
11 $version = optional_param('version', -1, PARAM_INT);
12
13 if (!$page = wikicode_get_page($pageid)) {
14     print_error('incorrectpageid', 'wikicode');
15 }
16
17 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
18     print_error('incorrectsubwikiid', 'wikicode');
19 }
20
21 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
22     print_error('incorrectwikiid', 'wikicode');
23 }
24
25 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
26     print_error('invalidcoursemodule');
27 }
28
29 $course = get_record('course', 'id', $cm->course);
30
31 if (!empty($section) && !$sectioncontent = wikicode_get_section_page($page,
32     $section)) {
33     print_error('invalidsection', 'wikicode');
34 }
35
36 require_login($course, true, $cm);
37
38 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
```



```

38 require_capability('mod/wikicode:editpage', $context);
39
40 add_to_log($course->id, 'wikicode', 'log', "log.php?id=$cm->id", "$wiki->id");
41
42 $wikipage = new page_wikicode_log($wiki, $subwiki, $cm);
43
44 $wikipage->set_page($page);
45
46 $wikipage->print_header($cm, $course);
47
48 $wikipage->print_content();
49
50 print_footer($course);

```

2.1.9. log_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

/// It must be included
from a Moodle page

```

5  }
6
7  require_once ($CFG->dirroot.'/lib/formslib.php');
8
9  class mod_wikicode_log_form extends moodleform {
10
11      function definition() {
12          global $CFG, $USER, $DB;
13
14          $mform =& $this->_form;
15
16          $version = $this->_customdata['version'];
17          $format = $this->_customdata['format'];
18          $tags = !isset($this->_customdata['tags'])?"":$this->_customdata['tags'];
19
20          if ($format != 'html') {
21              $contextid = $this->_customdata['contextid'];
22              $filearea = $this->_customdata['filearea'];
23              $fileitemid = $this->_customdata['fileitemid'];
24          }
25
26          if (isset($this->_customdata['pagetitle'])) {
27              $pagetitle = get_string('logpage', 'wikicode', $this->_customdata['pagetitle']);
28          } else {
29              $pagetitle = get_string('logging', 'wikicode');
30          }
31
32          //Time

```

```

33         $time = $this->_customdata['page']->timeendedit - $this->
           _customdata['page']->timestartedit;
34         $seconds = $time % 60;
35         $time = ($time - $seconds) / 60;
36         $minutes = $time % 60;
37         $hours = ($time - $minutes) / 60;
38
39         //Stats
40         $attr = array('size' => '75', 'readonly' => 1);
41         $mform->addElement('header', 'stats', 'Stats');
42         $attr['value'] = $hours . " hours, " . $minutes . " minutes, " .
           $seconds . " seconds";
43         $mform->addElement('text', 'timeedit', 'Editing Time', $attr);
44         //$mform->addHelpButton('timeedit', 'timeedit', 'wikicode');
45         $attr['value'] = $this->_customdata['page']->errorcompile;
46         $mform->addElement('text', 'errorscompilation', 'Compilation Errors
           ', $attr);
47         //$mform->addHelpButton('errorscompilation', 'errorscompilation', '
           wikicode');
48
49
50         $mform->addElement('hidden', 'contentformat');
51         $mform->setDefault('contentformat', $format);
52
53         $mform->addElement('hidden', 'insert');
54         $mform->setDefault('insert', 1);
55
56     }
57
58 }

```

2.1.10. mod_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

/// It must be included
from a Moodle page

```

5  }
6
7  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
8  require_once($CFG->libdir.'/formslib.php');
9  require_once($CFG->libdir.'/datalib.php');
10 require_once ($CFG->dirroot.'/course/moodleform_mod.php');
11
12 class mod_wikicode_mod_form extends moodleform_mod {
13
14     function definition() {
15         global $COURSE;
16         $mform =& $this->_form;
17

```

```

18      //
19      -----
20      /// Adding the "general" fieldset, where all the common settings are showed
21      $mform->addElement('header', 'general', get_string('general', 'form'));
22
23      /// Adding the standard "name" field
24      $mform->addElement('text', 'name', "Wiki name", array('size' => '64'));
25      $mform->setType('name', PARAM_TEXT);
26      $mform->addRule('name', null, 'required', null, 'client');
27      //
28      -----
29
30      /// Adding the rest of wiki settings, spreedading all them into this
31      fieldset
32      /// or adding more fieldsets ('header' elements) if needed for better logic
33
34      $mform->addElement('header', 'wikifieldset', "Wiki Settings");
35
36      $attr = array('size' => '20');
37      if (!empty($this->_instance)) {
38          $attr['disabled'] = 'disabled';
39      } else {
40          $attr['value'] = "First page name";
41      }
42
43      $mform->addElement('text', 'firstpagetitle', "First page name", $attr);
44
45      if (empty($this->_instance)) {
46          $mform->addRule('firstpagetitle', null, 'required', null, 'client');
47      }
48
49      $attr = array('size' => '180');
50
51      $gccvalue = wikicode_get_gccpath();
52      if ($gccvalue->gccpath != "") {
53          $attr['value'] = $gccvalue->gccpath;
54      } else {
55          $attr['value'] = 'gcc';
56      }
57
58      $mform->addElement('text', 'gccpath', 'Unix Compiler Path', $attr);
59
60      $mingwvalue = wikicode_get_mingwpath();
61      if ($mingwvalue->mingwpath != "") {
62          $attr['value'] = $mingwvalue->mingwpath;
63      } else {
64          $attr['value'] = 'mingw32-gcc';
65      }
66
67      $mform->addElement('text', 'mingwpath', 'Windows Compiler Path',
68          $attr);

```

```

66     $wikimodeoptions = array ('collaborative' => "Collaborative wiki", '
        individual' => "Individual wiki");
67     // don't allow to change wiki type once is set
68     $wikitype_attr = array();
69     if (!empty($this->_instance)) {
70         $wikitype_attr['disabled'] = 'disabled';
71     }
72     $mform->addElement('select', 'wikimode', "Wiki mode", $wikimodeoptions,
        $wikitype_attr);
73
74     $formats = wikicode_get_formats();
75     $editoroptions = array();
76     foreach ($formats as $format) {
77         $editoroptions[$format] = get_string($format, 'wikicode');
78     }
79     $mform->addElement('select', 'defaultformat', get_string('defaultformat', '
        wikicode'), $editoroptions);
80     $mform->addElement('checkbox', 'forceformat', get_string('forceformat', '
        wikicode'));
81
82     //
83     -----
84
85     // add standard elements, common to all modules
86     $this->standard_coursemodule_elements();
87     //
88     -----
89
90     // add standard buttons, common to all modules
91     $this->add_action_buttons();
92
93 }
94 }

```

2.1.11. pagelib.php

```

1  <?php
2
3  require_once($CFG->dirroot . '/mod/wikicode/edit_form.php');
4  require_once($CFG->dirroot . '/mod/wikicode/log_form.php');
5  require_once($CFG->dirroot . '/tag/lib.php');
6  require_once($CFG->dirroot . '/lib/formslib.php');
7
8
9  /**
10   * Class page_wikicode contains the common code between all pages
11   *
12   * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
13   */
14  abstract class page_wikicode {
15

```

```

16      /**
17       * @var object Current subwiki
18       */
19      protected $subwiki;
20
21      /**
22       * @var int Current page
23       */
24      protected $page;
25
26      /**
27       * @var string Current page title
28       */
29      protected $title;
30
31      /**
32       * @var int Current group ID
33       */
34      protected $gid;
35
36      /**
37       * @var object module context object
38       */
39      protected $modcontext;
40
41      /**
42       * @var int Current user ID
43       */
44      protected $uid;
45      /**
46       * @var array The tabs set used in wiki module
47       */
48      protected $tabs = array('view' => 'view', 'edit' => 'edit', 'history' => '
         history', 'log' => 'log', 'admin' => 'admin');
49      /**
50       * @var array tabs options
51       */
52      protected $tabs_options = array();
53      /**
54       * @var object wiki renderer
55       */
56      protected $wikioutput;
57
58      /**
59       * page_wikicode constructor
60       *
61       * @param $wiki. Current wiki
62       * @param $subwiki. Current subwiki.
63       * @param $cm. Current course_module.
64       */
65      function __construct($wiki, $subwiki, $cm) {
66
67          global $PAGE, $CFG;
68          $this->subwiki = $subwiki;

```

```

69     $this->modcontext = get_context_instance(CONTEXT_MODULE, $cm->id);
70
71 }
72
73 /**
74  * This method prints the top of the page.
75  */
76 function print_header($cm, $course) {
77     global $OUTPUT, $PAGE, $CFG, $USER, $SESSION;
78
79     if (isset($SESSION->wikipreviousurl) && is_array($SESSION->wikipreviousurl)
80         ) {
81         $this->process_session_url();
82     }
83     $this->set_session_url();
84
85     /// Print the page header
86
87     $strwikis = get_string("modulenameplural", "wikicode");
88     $strwiki  = get_string("modulename", "wikicode");
89
90     $navlinks = array();
91     /// Add page name if not main page
92
93     $navlinks[] = array('name' => format_string($this->title), 'link' => '', '
94         type' => 'title');
95
96     $navigation = build_navigation($navlinks, $cm);
97     print_header_simple($this->title, "", $navigation,
98         "", "", $cacheme, update_module_button($cm->id, $course->id,
99         $strwiki),
100     navmenu($course, $cm));
101     print_heading($this->title, 'center', 3);
102 }
103
104 /**
105  * Protected method to print current page title.
106  */
107 protected function print_pagetitle() {
108     global $OUTPUT;
109     $html = '';
110     $html .= $OUTPUT->container_start();
111     $html .= $OUTPUT->heading(format_string($this->title), 2, '
112         wikicode_headingtitle');
113     $html .= $OUTPUT->container_end();
114     echo $html;
115 }
116
117 /**
118  * Setup page tabs, if options is empty, will set up active tab automatically
119  * @param array $options, tabs options
120  */
121 protected function setup_tabs($options = array()) {

```

```

119     global $CFG, $PAGE;
120     $groupmode = groups_get_activity_groupmode($PAGE->cm);
121
122     if (empty($CFG->usecomments) || !has_capability('mod/wikicode:viewcomment',
123         $PAGE->context)){
124         unset($this->tabs['comments']);
125     }
126
127     if (!has_capability('mod/wikicode:editpage', $PAGE->context)){
128         unset($this->tabs['edit']);
129     }
130
131     if ($groupmode and $groupmode == VISIBLEGROUPS) {
132         $currentgroup = groups_get_activity_group($PAGE->cm);
133         $manage = has_capability('mod/wikicode:managewiki', $PAGE->cm->context)
134             ;
135         $edit = has_capability('mod/wikicode:editpage', $PAGE->context);
136         if (!$manage and !($edit and groups_is_member($currentgroup))) {
137             unset($this->tabs['edit']);
138         }
139     } else {
140         if (!has_capability('mod/wikicode:editpage', $PAGE->context)) {
141             unset($this->tabs['edit']);
142         }
143     }
144
145     if (empty($options)) {
146         $this->tabs_options = array('activetab' => substr(get_class($this), 10)
147             );
148     } else {
149         $this->tabs_options = $options;
150     }
151
152     /**
153      * This method must be overwritten to print the page content.
154      */
155     function print_content() {
156         throw new coding_exception('Page wiki class does not implement method
157             print_content()');
158     }
159
160     /**
161      * Method to set the current page
162      *
163      * @param object $page Current page
164      */
165     function set_page($page) {
166         global $PAGE;
167
168         $this->page = $page;
169         $this->title = $page->title;

```

```
169     }
170
171     /**
172      * Method to set the current page title.
173      * This method must be called when the current page is not created yet.
174      * @param string $title Current page title.
175      */
176     function set_title($title) {
177         global $PAGE;
178
179         $this->page = null;
180         $this->title = $title;
181     }
182
183     /**
184      * Method to set current group id
185      * @param int $gid Current group id
186      */
187     function set_gid($gid) {
188         $this->gid = $gid;
189     }
190
191     /**
192      * Method to set current user id
193      * @param int $uid Current user id
194      */
195     function set_uid($uid) {
196         $this->uid = $uid;
197     }
198
199     /**
200      * Method to set the URL of the page.
201      * This method must be overwritten by every type of page.
202      */
203     protected function set_url() {
204         throw new coding_exception('Page wiki class does not implement method
205             set_url()');
206     }
207
208     /**
209      * Protected method to create the common items of the navbar in every page type
210      */
211     protected function create_navbar() {
212     }
213
214     /**
215      * This method print the footer of the page.
216      */
217     function print_footer() {
218         global $OUTPUT;
219         echo $OUTPUT->footer();
220     }
```



```

221     protected function process_session_url() {
222         global $USER, $SESSION;
223
224         //delete locks if edit
225         $url = $SESSION->wikipreviousurl;
226         switch ($url['page']) {
227             case 'edit':
228                 wikicode_delete_locks($url['params']['pageid'], $USER->id, $url['params']
                ['section'], false);
229             break;
230         }
231     }
232
233     protected function set_session_url() {
234         global $SESSION;
235         unset($SESSION->wikipreviousurl);
236     }
237
238     function print_tab() {
239         $tabs = array('view', 'edit', 'history', 'log');
240
241         $tabrows = array();
242         $row = array();
243         $currenttab = '';
244         foreach ($tabs as $tab) {
245             $tabname = $tab;
246             $row[] = new tabobject($tabname, $ewbase.$tab.'.php?pageid='.$this->
                page->id, $tabname);
247             if ($ewiki_action == "$tab" or in_array($page, $specialpages)) {
248                 $currenttab = $tabname;
249             }
250         }
251         $tabrows[] = $row;
252
253         print_tabs($tabrows, $currenttab);
254     }
255
256 }
257
258 /**
259  * View a wiki page
260  *
261  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
262  */
263 class page_wikicode_view extends page_wikicode {
264     /**
265      * @var int the coursemodule id
266      */
267     private $coursemodule;
268
269     function print_header($cm, $course) {
270
271         parent::print_header($cm, $course);
272

```

```

273     parent::print_tab();
274
275         $wiki = wikicode_get_wikicode_from_pageid($this->page->id);
276
277     $this->wikicode_print_subwiki_selector($wiki, $this->subwiki, $this->page,
        'view');
278 }
279
280 function wikicode_print_subwiki_selector($wiki, $subwiki, $page, $pagetype
    = 'view') {
281     global $CFG, $USER;
282     switch ($pagetype) {
283     case 'files':
284         $baseurl = $CFG->wwwroot . '/mod/wikicode/files.php';
285         break;
286     case 'view':
287     default:
288         $baseurl = $CFG->wwwroot . '/mod/wikicode/view.php';
289         break;
290     }
291
292     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
293     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
294     // @TODO: A plenty of duplicated code below this lines.
295     // Create private functions.
296     switch (groups_get_activity_groupmode($cm)) {
297     case NOGROUPS:
298         if ($wiki->wikimode == 'collaborative') {
299             // No need to print anything
300             return;
301         } else if ($wiki->wikimode == 'individual') {
302             // We have private wikis here
303
304             $view = has_capability('mod/wikicode:viewpage', $context);
305             $manage = has_capability('mod/wikicode:managewiki', $context);
306
307             // Only people with these capabilities can view all wikis
308             if ($view && $manage) {
309                 // @TODO: Print here a combo that contains all users.
310                 $users = get_enrolled_users($context);
311                 $options = array();
312                 foreach ($users as $user) {
313                     $options[$user->id] = fullname($user);
314                 }
315
316                 print_container_start();
317                 if ($pagetype == 'files') {
318                     $params['pageid'] = $page->id;
319                 }
320                 $baseurl = $baseurl . '?wid=' . $wiki->id . '&title=' . $page
                    ->title;
321                 $name = 'uid';
322                 $selected = $subwiki->userid;
323                 print_container_end();

```

```

324         }
325         return;
326     } else {
327         // error
328         return;
329     }
330     case SEPARATEGROUPS:
331         if ($wiki->wikimode == 'collaborative') {
332             // We need to print a select to choose a course group
333
334             $params = array('wid'=>$wiki->id, 'title'=>$page->title);
335             if ($pagetype == 'files') {
336                 $params['pageid'] = $page->id;
337             }
338             $baseurl = $baserurl . '?wid=' . $wiki->id . '&title=' . $page->
                title;
339
340             print_container_start(true);
341                 print_simple_box_start('center', '70%', '', '20');
342             groups_print_activity_menu($cm, $baseurl, false, true);
343                 print_simple_box_end();
344             print_container_end();
345             return;
346         } else if ($wiki->wikimode == 'individual') {
347             // @TODO: Print here a combo that contains all users of that
                subwiki.
348             $view = has_capability('mod/wikicode:viewpage', $context);
349             $manage = has_capability('mod/wikicode:managewiki', $context);
350
351             // Only people with these capabilities can view all wikis
352             if ($view && $manage) {
353                 $users = get_enrolled_users($context);
354                 $options = array();
355                 foreach ($users as $user) {
356                     $groups = groups_get_all_groups($cm->course, $user->id);
357                     if (!empty($groups)) {
358                         foreach ($groups as $group) {
359                             $options[$group->id][$group->name][$group->id . '-'
                                . $user->id] = fullname($user);
360                         }
361                     } else {
362                         $name = get_string('notingroup', 'wikicode');
363                         $options[0][$name]['0' . '-' . $user->id] = fullname(
                            $user);
364                     }
365                 }
366             } else {
367                 $group = groups_get_group($subwiki->groupid);
368                 $users = groups_get_members($subwiki->groupid);
369                 foreach ($users as $user) {
370                     $options[$group->id][$group->name][$group->id . '-' . $user
                        ->id] = fullname($user);
371                 }
372             }

```

```

373         print_container_start();
374         $params = array('wid' => $wiki->id, 'title' => $page->title);
375         if ($pagetype == 'files') {
376             $params['pageid'] = $page->id;
377         }
378         $baseurl = $baserurl . '?wid=' . $wiki->id . '&title=' . $page->
            title;
379         $name = 'groupanduser';
380         $selected = $subwiki->groupid . '-' . $subwiki->userid;
381         print_container_end();
382
383         return;
384
385     } else {
386         // error
387         return;
388     }
389 CASE VISIBLEGROUPS:
390     if ($wiki->wikimode == 'collaborative') {
391         // We need to print a select to choose a course group
392         $params = array('wid'=>$wiki->id, 'title'=>urlencode($page->title))
            ;
393         if ($pagetype == 'files') {
394             $params['pageid'] = $page->id;
395         }
396         $baseurl = $baserurl . '?wid=' . $wiki->id . '&title=' . $page->
            title;
397
398         print_container_start();
399         groups_print_activity_menu($cm, $baseurl);
400         print_container_end();
401         return;
402
403     } else if ($wiki->wikimode == 'individual') {
404         $users = get_enrolled_users($context);
405         $options = array();
406         foreach ($users as $user) {
407             $groups = groups_get_all_groups($cm->course, $user->id);
408             if (!empty($groups)) {
409                 foreach ($groups as $group) {
410                     $options[$group->id][$group->name][$group->id . '-' .
                        $user->id] = fullname($user);
411                 }
412             } else {
413                 $name = get_string('notingroup', 'wikicode');
414                 $options[0][$name]['0' . '-' . $user->id] = fullname($user)
                    ;
415             }
416         }
417
418         print_container_start();
419         $params = array('wid' => $wiki->id, 'title' => $page->title);
420         if ($pagetype == 'files') {
421             $params['pageid'] = $page->id;

```

```

422         }
423         $baseurl = $baserurl . '?wid=' . $wiki->id . '&title=' . $page->
            title;
424         $name = 'groupanduser';
425         $selected = $subwiki->groupid . '-' . $subwiki->userid;
426         print_container_end();
427
428         return;
429
430     } else {
431         // error
432         return;
433     }
434     default:
435         // error
436         return;
437
438 }
439
440 }
441
442 function print_content() {
443     global $PAGE, $CFG;
444
445     if (wikicode_user_can_view($this->subwiki)) {
446
447         if (!empty($this->page)) {
448             wikicode_print_page_content($this->page, $this->modcontext, $this->
                subwiki->id);
449             //$wiki = $PAGE->activityrecord;
450         } else {
451             print_string('nocontent', 'wikicode');
452             // TODO: fix this part
453             $swid = 0;
454             if (!empty($this->subwiki)) {
455                 $swid = $this->subwiki->id;
456             }
457         }
458     } else {
459         // @TODO: Tranlate it
460         echo "You can not view this page";
461     }
462 }
463
464 function set_url() {
465     global $PAGE, $CFG;
466     $params = array();
467
468     if (isset($this->coursemodule)) {
469         $params['id'] = $this->coursemodule;
470     } else if (!empty($this->page) and $this->page != null) {
471         $params['pageid'] = $this->page->id;
472     } else if (!empty($this->gid)) {
473         $params['wid'] = $PAGE->cm->instance;

```

```

474         $params['group'] = $this->gid;
475     } else if (!empty($this->title)) {
476         $params['swid'] = $this->subwiki->id;
477         $params['title'] = $this->title;
478     } else {
479         print_error(get_string('invalidparameters', 'wikicode'));
480     }
481
482     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/view.php', $params);
483 }
484
485 function set_coursemodule($id) {
486     $this->coursemodule = $id;
487 }
488
489 protected function create_navbar() {
490     global $PAGE, $CFG;
491
492     $PAGE->navbar->add(format_string($this->title));
493     $PAGE->navbar->add(get_string('view', 'wikicode'));
494 }
495 }
496
497 /**
498  * Wiki page editing page
499  *
500  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
501  */
502 class page_wikicode_edit extends page_wikicode {
503
504     public static $attachmentoptions;
505
506     protected $sectioncontent;
507     /** @var string the section name needed to be edited */
508     protected $section;
509     protected $overridelock = false;
510     protected $versionnumber = -1;
511     protected $upload = false;
512     protected $attachments = 0;
513     protected $deleteuploads = array();
514     protected $format;
515     protected $compiled = 0;
516
517     function __construct($wiki, $subwiki, $cm) {
518         global $CFG, $PAGE;
519         parent::__construct($wiki, $subwiki, $cm);
520     }
521
522     protected function print_pagetitle() {
523         global $OUTPUT;
524
525         $title = $this->title;
526         if (isset($this->section)) {
527             $title .= ' : ' . $this->section;

```

```
528     }
529         echo "<script src=\"js/codemirror.js\" type=\"text/javascript\"></
            script>";
530     }
531
532     function print_header($cm, $course) {
533         global $OUTPUT, $PAGE;
534
535         parent::print_header($cm, $course);
536
537         $this->print_pagetitle();
538         parent::print_tab();
539     }
540
541     function print_content() {
542         global $PAGE;
543
544         if (wikicode_user_can_edit($this->subwiki)) {
545             $this->print_edit(null, $compile);
546         } else {
547             // @TODO: Translate it
548             echo "You can not edit this page";
549         }
550     }
551
552     protected function set_url() {
553         global $PAGE, $CFG;
554
555         $params = array('pageid' => $this->page->id);
556
557         if (isset($this->section)) {
558             $params['section'] = $this->section;
559         }
560
561         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/edit.php', $params);
562     }
563
564     protected function set_session_url() {
565         global $SESSION;
566
567         $SESSION->wikipreviousurl = array('page' => 'edit', 'params' => array('
            pageid' => $this->page->id, 'section' => $this->section));
568     }
569
570     protected function process_session_url() {
571     }
572
573     function set_section($sectioncontent, $section) {
574         $this->sectioncontent = $sectioncontent;
575         $this->section = $section;
576     }
577
578     public function set_versionnumber($versionnumber) {
579         $this->versionnumber = $versionnumber;
```

```
580     }
581
582     public function set_overridelock($override) {
583         $this->overridelock = $override;
584     }
585
586     function set_format($format) {
587         $this->format = $format;
588     }
589
590     public function set_upload($upload) {
591         $this->upload = $upload;
592     }
593
594     public function set_attachments($attachments) {
595         $this->attachments = $attachments;
596     }
597
598     public function set_deleteuploads($deleteuploads) {
599         $this->deleteuploads = $deleteuploads;
600     }
601
602     public function set_compiled($compiled) {
603         $this->compiled = $compiled;
604     }
605
606     protected function create_navbar() {
607         global $PAGE, $CFG;
608
609         parent::create_navbar();
610
611         $PAGE->navbar->add(get_string('edit', 'wikicode'));
612     }
613
614     protected function check_locks() {
615         global $OUTPUT, $USER, $CFG;
616
617         return true;
618     }
619
620     protected function print_edit($content = null) {
621         global $CFG, $OUTPUT, $USER, $PAGE;
622
623         if (!$this->check_locks()) {
624             return;
625         }
626
627         //delete old locks (> 1 hour)
628         wikicode_delete_old_locks();
629
630         $version = wikicode_get_current_version($this->page->id);
631         $page = wikicode_get_page($this->page->id);
632
633         $format = $version->contentformat;
```



```

634
635         if ($content == null) {
636             if (empty($this->section)) {
637                 $content = $version->content;
638             } else {
639                 $content = $this->sectioncontent;
640             }
641         }
642
643         $versionnumber = $version->version;
644         if ($this->versionnumber >= 0) {
645             if ($version->version != $this->versionnumber) {
646                 //print $OUTPUT->box(get_string('wrongversionlock', 'wikicode'), '
                    errorbox');
647                 $versionnumber = $this->versionnumber;
648             }
649         }
650
651
652
653         $url = $CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page->id;
654         if (!empty($this->section)) {
655             $url .= "&section=" . urlencode($this->section);
656         }
657
658         $params = array('attachmentoptions' => page_wikicode_edit::
            $attachmentoptions, 'format' => $version->contentformat, 'version' =>
            $versionnumber, 'pagetitle' => $this->page->title);
659
660         $data = new stdClass();
661         $data->newcontent = wikicode_remove_tags_owner($content);
662         $data->version = $versionnumber;
663         $data->format = $format;
664
665         switch ($format) {
666             case 'html':
667                 $data->newcontentformat = FORMAT_HTML;
668                 // Append editor context to editor options, giving preference to
                    existing context.
669                 page_wikicode_edit::$attachmentoptions = array_merge(array('context' =>
                    $this->modcontext), page_wikicode_edit::$attachmentoptions);
670                 $data = file_prepare_standard_editor($data, 'newcontent',
                    page_wikicode_edit::$attachmentoptions, $this->modcontext, '
                    mod_wikicode', 'attachments', $this->subwiki->id);
671                 break;
672             default:
673                 break;
674         }
675
676         if ($version->contentformat != 'html') {
677             $params['fileitemid'] = $this->subwiki->id;
678             $params['contextid'] = $this->modcontext->id;
679             $params['component'] = 'mod_wikicode';
680             $params['filearea'] = 'attachments';

```

```

681     }
682
683     if (!empty($CFG->usetags)) {
684         $params['tags'] = tag_get_tags_csv('wikicode_pages', $this->page->id,
685             TAG_RETURN_TEXT);
686     }
687
688     $form = new mod_wikicode_edit_form($url, $params);
689
690     if ($formdata = $form->get_data()) {
691         if (!empty($CFG->usetags)) {
692             $data->tags = $formdata->tags;
693         }
694     } else {
695         if (!empty($CFG->usetags)) {
696             $data->tags = tag_get_tags_array('wikicode', $this->page->id);
697         }
698     }
699
700     if ( $this->compiled == 1 ) {
701         $data->newcontent = wikicode_remove_tags_owner($page->
702             cachedcompile);
703         $data->textCompiler = $page->cachedgcc;
704     }
705
706     $form->set_data($data);
707     $form->display();
708 }
709
710 /**
711  * Wiki page editing page
712  *
713  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
714  */
715 class page_wikicode_log extends page_wikicode {
716
717     protected $sectioncontent;
718     /** @var string the section name needed to be edited */
719     protected $section;
720     protected $overridelock = false;
721     protected $versionnumber = -1;
722
723     function __construct($wiki, $subwiki, $cm) {
724         global $CFG, $PAGE;
725         parent::__construct($wiki, $subwiki, $cm);
726     }
727
728     protected function print_pagetitle() {
729         global $OUTPUT;
730
731         $title = $this->title;
732         if (isset($this->section)) {

```

```

733         $title .= ' : ' . $this->section;
734     }
735     echo $OUTPUT->container_start('wikicode_clear');
736     echo $OUTPUT->heading(format_string($title), 2, 'wikicode_headingtitle');
737     echo $OUTPUT->container_end();
738 }
739
740 function print_header($cm, $course) {
741     global $OUTPUT, $PAGE;
742
743     parent::print_header($cm, $course);
744
745     parent::print_tab();
746 }
747
748 function print_content() {
749     global $PAGE;
750
751     if (wikicode_user_can_edit($this->subwiki)) {
752         $this->print_log();
753     } else {
754         // @TODO: Translate it
755         echo "You can not edit this page";
756     }
757 }
758
759 protected function set_url() {
760     global $PAGE, $CFG;
761
762     $params = array('pageid' => $this->page->id);
763
764     if (isset($this->section)) {
765         $params['section'] = $this->section;
766     }
767
768     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/log.php', $params);
769 }
770
771 protected function set_session_url() {
772     global $SESSION;
773
774     $SESSION->wikipreviousurl = array('page' => 'log', 'params' => array('
775         pageid' => $this->page->id, 'section' => $this->section));
776 }
777
778 protected function process_session_url() {
779 }
780
781 protected function create_navbar() {
782     global $PAGE, $CFG;
783
784     parent::create_navbar();
785
786     $PAGE->navbar->add(get_string('log', 'wikicode'));

```

```

786     }
787
788     protected function check_locks() {
789         global $OUTPUT, $USER, $CFG;
790
791         return true;
792     }
793
794     protected function print_log() {
795         global $CFG, $OUTPUT, $USER, $PAGE;
796
797         if (!$this->check_locks()) {
798             return;
799         }
800
801         //delete old locks (> 1 hour)
802         wikicode_delete_old_locks();
803
804         $version = wikicode_get_current_version($this->page->id);
805         $page = wikicode_get_page($this->page->id);
806
807         $format = $version->contentformat;
808
809         $params = array('attachmentoptions' => page_wikicode_edit::
810             $attachmentoptions, 'format' => $version->contentformat, 'version' =>
811             $versionnumber, 'pagetitle'=>$this->page->title);
812
813         $data = new stdClass();
814         $params['page'] = $this->page;
815
816         $form = new mod_wikicode_log_form($url, $params);
817
818         $form->set_data($data);
819         $form->display();
820     }
821 }
822
823 /**
824  * Class that models the behavior of wiki's view comments page
825  *
826  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
827  */
828 class page_wikicode_comments extends page_wikicode {
829
830     function print_header() {
831
832         parent::print_header();
833
834         $this->print_pagetitle();
835     }
836
837     function print_content() {

```

```

838     global $CFG, $OUTPUT, $USER, $PAGE;
839     require_once($CFG->dirroot . '/mod/wikicode/lib.php');
840
841     $page = $this->page;
842     $subwiki = $this->subwiki;
843     $wiki = $PAGE->activityrecord;
844     list($context, $course, $cm) = get_context_info_array($this->modcontext->id
845         );
846
847     require_capability('mod/wikicode:viewcomment', $this->modcontext, NULL,
848         true, 'noviewcommentpermission', 'wikicode');
849
850     $comments = wikicode_get_comments($this->modcontext->id, $page->id);
851
852     if (has_capability('mod/wikicode:editcomment', $this->modcontext)) {
853         echo '<div class="midpad"><a href="' . $CFG->wwwroot . '/mod/wikicode/
854             editcomments.php?action=add&pageid=' . $page->id . '"> .
855             get_string('addcomment', 'wikicode') . '</a></div>';
856     }
857
858     $options = array('swid' => $this->page->subwikiid, 'pageid' => $page->id);
859     $version = wikicode_get_current_version($this->page->id);
860     $format = $version->contentformat;
861
862     if (empty($comments)) {
863         echo $OUTPUT->heading(get_string('nocomments', 'wikicode'));
864     }
865
866     foreach ($comments as $comment) {
867         $user = wikicode_get_user_info($comment->userid);
868
869         $fullname = fullname($user, has_capability('moodle/site:viewfullnames',
870             get_context_instance(CONTEXT_COURSE, $course->id)));
871         $by = new stdClass();
872         $by->name = '<a href="' . $CFG->wwwroot . '/user/view.php?id=' . $user
873             ->id . '&course=' . $course->id . '"> . $fullname . '</a>';
874         $by->date = userdate($comment->timecreated);
875
876         $t = new html_table();
877         $cell1 = new html_table_cell($OUTPUT->user_picture($user, array('popup'
878             => true)));
879         $cell2 = new html_table_cell(get_string('bynameondate', 'forum', $by));
880         $cell3 = new html_table_cell();
881         $cell3->attribs['width'] = "80%";
882         $cell4 = new html_table_cell();
883         $cell5 = new html_table_cell();
884
885         $row1 = new html_table_row();
886         $row1->cells[] = $cell1;
887         $row1->cells[] = $cell2;
888         $row2 = new html_table_row();
889         $row2->cells[] = $cell3;

```

```

885         if ($format != 'html') {
886             if ($format == 'creole') {
887                 $parsedcontent = wikicode_parse_content('creole', $comment->
                        content, $options);
888             } else if ($format == 'nwiki') {
889                 $parsedcontent = wikicode_parse_content('nwiki', $comment->
                        content, $options);
890             }
891
892             $cell4->text = format_text(html_entity_decode($parsedcontent['
                        parsed_text']), FORMAT_HTML);
893         } else {
894             $cell4->text = format_text($comment->content, FORMAT_HTML);
895         }
896
897         $row2->cells[] = $cell4;
898
899         $t->data = array($row1, $row2);
900
901         $actionicons = false;
902         if ((has_capability('mod/wikicode:managecomment', $this->modcontext)))
            {
903             $urledit = new moodle_url('/mod/wikicode/editcomments.php', array('
                        commentid' => $comment->id, 'pageid' => $page->id, 'action' =>
                        'edit'));
904             $urldelete = new moodle_url('/mod/wikicode/instancecomments.php',
                        array('commentid' => $comment->id, 'pageid' => $page->id, '
                        action' => 'delete'));
905             $actionicons = true;
906         } else if ((has_capability('mod/wikicode:editcomment', $this->
                        modcontext)) and ($USER->id == $user->id)) {
907             $urledit = new moodle_url('/mod/wikicode/editcomments.php', array('
                        commentid' => $comment->id, 'pageid' => $page->id, 'action' =>
                        'edit'));
908             $urldelete = new moodle_url('/mod/wikicode/instancecomments.php',
                        array('commentid' => $comment->id, 'pageid' => $page->id, '
                        action' => 'delete'));
909             $actionicons = true;
910         }
911
912         if ($actionicons) {
913             $cell6 = new html_table_cell($OUTPUT->action_icon($urledit, new
                        pix_icon('t/edit', get_string('edit')))) . $OUTPUT->action_icon(
                        $urldelete, new pix_icon('t/delete', get_string('delete'))));
914             $row3 = new html_table_row();
915             $row3->cells[] = $cell5;
916             $row3->cells[] = $cell6;
917             $t->data[] = $row3;
918         }
919
920         echo html_writer::tag('div', html_writer::table($t), array('class'=>'no
                        -overflow'));
921
922     }

```

```

923     }
924
925     function set_url() {
926         global $PAGE, $CFG;
927         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/comments.php', array('pageid'
928             => $this->page->id));
929     }
930
931     protected function create_navbar() {
932         global $PAGE, $CFG;
933
934         parent::create_navbar();
935         $PAGE->navbar->add(get_string('comments', 'wikicode'));
936     }
937 }
938
939 /**
940  * Class that models the behavior of wiki's edit comment
941  *
942  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
943  */
944 class page_wikicode_editcomment extends page_wikicode {
945     private $comment;
946     private $action;
947     private $form;
948     private $format;
949
950     function set_url() {
951         global $PAGE, $CFG;
952         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/comments.php', array('pageid'
953             => $this->page->id));
954     }
955
956     function print_header() {
957         parent::print_header();
958         $this->print_pagetitle();
959     }
960
961     function print_content() {
962         global $PAGE;
963
964         require_capability('mod/wikicode:editcomment', $this->modcontext, NULL,
965             true, 'noeditcommentpermission', 'wikicode');
966
967         if ($this->action == 'add') {
968             $this->add_comment_form();
969         } else if ($this->action == 'edit') {
970             $this->edit_comment_form($this->comment);
971         }
972     }
973
974     function set_action($action, $comment) {
975         global $CFG;

```

```

974         require_once($CFG->dirroot . '/mod/wikicode/comments_form.php');
975
976         $this->action = $action;
977         $this->comment = $comment;
978         $version = wikicode_get_current_version($this->page->id);
979         $this->format = $version->contentformat;
980
981         if ($this->format == 'html') {
982             $destination = $CFG->wwwroot . '/mod/wikicode/instancecomments.php?
                pageid=' . $this->page->id;
983             $this->form = new mod_wikicode_comments_form($destination);
984         }
985     }
986
987     protected function create_navbar() {
988         global $PAGE, $CFG;
989
990         $PAGE->navbar->add(get_string('comments', 'wikicode'), $CFG->wwwroot . '/
                mod/wikicode/comments.php?pageid=' . $this->page->id);
991
992         if ($this->action == 'add') {
993             $PAGE->navbar->add(get_string('insertcomment', 'wikicode'));
994         } else {
995             $PAGE->navbar->add(get_string('editcomment', 'wikicode'));
996         }
997     }
998
999     protected function setup_tabs() {
1000         parent::setup_tabs(array('linkedwhenactive' => 'comments', 'activetab' => '
                comments'));
1001     }
1002
1003     private function add_comment_form() {
1004         global $CFG;
1005         require_once($CFG->dirroot . '/mod/wikicode/editors/wiki_editor.php');
1006
1007         $pageid = $this->page->id;
1008
1009         if ($this->format == 'html') {
1010             $com = new stdClass();
1011             $com->action = 'add';
1012             $com->commentoptions = array('trusttext' => true, 'maxfiles' => 0);
1013             $this->form->set_data($com);
1014             $this->form->display();
1015         } else {
1016             wikicode_print_editor_wiki($this->page->id, null, $this->format, -1,
                null, false, null, 'addcomments');
1017         }
1018     }
1019
1020     private function edit_comment_form($com) {
1021         global $CFG;
1022         require_once($CFG->dirroot . '/mod/wikicode/comments_form.php');
1023         require_once($CFG->dirroot . '/mod/wikicode/editors/wiki_editor.php');

```



```

1024         if ($this->format == 'html') {
1025             $com->action = 'edit';
1026             $com->entrycomment_editor['text'] = $com->content;
1027             $com->commentoptions = array('trusttext' => true, 'maxfiles' => 0);
1028
1029             $this->form->set_data($com);
1030             $this->form->display();
1031         } else {
1032             wikicode_print_editor_wiki($this->page->id, $com->content, $this->
1033                 format, -1, null, false, array(), 'editcomments', $com->id);
1034         }
1035     }
1036 }
1037
1038 }
1039
1040 /**
1041  * Wiki page search page
1042  *
1043  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
1044  */
1045 class page_wikicode_search extends page_wikicode {
1046     private $search_result;
1047
1048     protected function create_navbar() {
1049         global $PAGE, $CFG;
1050
1051         $PAGE->navbar->add(format_string($this->title));
1052     }
1053
1054     function set_search_string($search, $searchcontent) {
1055         $swid = $this->subwiki->id;
1056         if ($searchcontent) {
1057             $this->search_result = wikicode_search_all($swid, $search);
1058         } else {
1059             $this->search_result = wikicode_search_title($swid, $search);
1060         }
1061     }
1062 }
1063
1064 function set_url() {
1065     global $PAGE, $CFG;
1066     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/search.php');
1067 }
1068 function print_content() {
1069     global $PAGE;
1070
1071     require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1072         'noviewpagepermission', 'wikicode');
1073
1074     echo $this->wikioutput->search_result($this->search_result, $this->subwiki)
1075         ;
1076 }

```

```

1075 }
1076
1077 /**
1078  *
1079  * Class that models the behavior of wiki's
1080  * create page
1081  *
1082  */
1083 class page_wikicode_create extends page_wikicode {
1084
1085     private $format;
1086     private $swid;
1087     private $wid;
1088     private $action;
1089     private $mform;
1090
1091     function print_header($cm, $course) {
1092         $this->set_url();
1093         parent::print_header($cm, $course);
1094     }
1095
1096     function set_url() {
1097         global $PAGE, $CFG;
1098
1099         $params = array();
1100         if ($this->action == 'new') {
1101             $params['action'] = 'new';
1102             $params['swid'] = $this->swid;
1103             $params['wid'] = $this->wid;
1104             if ($this->title != get_string('newpage', 'wikicode')) {
1105                 $params['title'] = $this->title;
1106             }
1107             //$PAGE->set_url($CFG->wwwroot . '/mod/wikicode/create.php', $params);
1108         } else {
1109             $params['action'] = 'create';
1110             $params['swid'] = $this->swid;
1111             //$PAGE->set_url($CFG->wwwroot . '/mod/wikicode/create.php', $params);
1112         }
1113     }
1114
1115     function set_format($format) {
1116         $this->format = $format;
1117     }
1118
1119     function set_wid($wid) {
1120         $this->wid = $wid;
1121     }
1122
1123     function set_swid($swid) {
1124         $this->swid = $swid;
1125     }
1126
1127     function set_action($action) {
1128         global $PAGE;

```

```

1129     $this->action = $action;
1130
1131     require_once(dirname(__FILE__) . '/create_form.php');
1132     $url = new moodle_url('./create.php', array('action' => 'create', 'wid' =>
1133         $this->wid, 'gid' => $this->gid, 'uid' => $this->uid));
1134     $formats = wikicode_get_formats();
1135     $options = array('formats' => $formats, 'defaultformat' => $PAGE->
1136         activityrecord->defaultformat, 'forceformat' => $PAGE->activityrecord->
1137         forceformat);
1138     if ($this->title != get_string('newpage', 'wikicode')) {
1139         $options['disable_pagetitle'] = true;
1140     }
1141     $this->mform = new mod_wikicode_create_form(str_replace("amp;", "", $url->out
1142         ()), $options);
1143 }
1144
1145 protected function create_navbar() {
1146     global $PAGE;
1147
1148     $PAGE->navbar->add($this->title);
1149 }
1150
1151 function print_content($pagetitle = '') {
1152
1153     // @TODO: Change this to has_capability and show an alternative interface.
1154     require_capability('mod/wikicode:createpage', $this->modcontext, NULL, true
1155         , 'nocreatepermission', 'wikicode');
1156
1157     $data = new stdClass();
1158     if (!empty($pagetitle)) {
1159         $data->pagetitle = $pagetitle;
1160     }
1161     $data->pageformat = "wcode";
1162
1163     $this->mform->set_data($data);
1164     $this->mform->display();
1165 }
1166
1167 function create_page($pagetitle) {
1168     global $USER, $CFG;
1169     $data = $this->mform->get_data();
1170     if (empty($this->subwiki)) {
1171         $swid = wikicode_add_subwiki($this->wid, $this->gid, $this->uid);
1172         $this->subwiki = wikicode_get_subwiki($swid);
1173     }
1174     if ($data) {
1175         $id = wikicode_create_page($this->subwiki->id, $data->pagetitle, $data
1176             ->pageformat, $USER->id);
1177     } else {
1178         $id = wikicode_create_page($this->subwiki->id, $pagetitle, $PAGE->
1179             activityrecord->defaultformat, $USER->id);
1180     }
1181     redirect($CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $id);
1182 }

```

```

1176 }
1177
1178 /**
1179  * Class that models the behavior of wiki's
1180  * compile page
1181  *
1182  */
1183 class page_wikicode_compile extends page_wikicode_edit {
1184
1185     private $newcontent, $download;
1186
1187     function print_header() {
1188     }
1189
1190     function print_content() {
1191         $wiki = wikicode_get_wikicode_from_pageid($this->page->id);
1192         $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
1193
1194         $context = get_context_instance(CONTEXT_MODULE, $cm->id);
1195         require_capability('mod/wikicode:editpage', $context, NULL, true, '
            noeditpermission', 'wikicode');
1196
1197         $this->print_compile();
1198     }
1199
1200     function set_newcontent($newcontent) {
1201         $this->newcontent = $newcontent;
1202     }
1203
1204     function set_download($download) {
1205         $this->download = $download;
1206     }
1207
1208     protected function set_session_url() {
1209     }
1210
1211     protected function print_compile() {
1212         global $CFG, $USER, $OUTPUT, $PAGE;
1213
1214         $url = $CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page->id;
1215         if (!empty($this->section)) {
1216             $url .= "&section=" . urlencode($this->section);
1217         }
1218
1219         $params = array('attachmentoptions' => page_wikicode_edit::
            $attachmentoptions, 'format' => $this->format, 'version' => $this->
            versionnumber);
1220
1221         if ($this->format != 'html') {
1222             $params['fileitemid'] = $this->page->id;
1223             $params['contextid'] = $this->modcontext->id;
1224             $params['component'] = 'mod_wikicode';
1225             $params['filearea'] = 'attachments';
1226         }

```

```

1227         $form = new mod_wikicode_edit_form($url, $params);
1228
1229
1230         $save = false;
1231         $data = false;
1232         if ($data = $form->get_data()) {
1233
1234             $save = wikicode_compile_page($this->page, $data->newcontent, $USER->id
1235                 , $this->download);
1236
1237             //deleting old locks
1238             wikicode_delete_locks($this->page->id, $USER->id, $this->section);
1239
1240             redirect($CFG->wwwroot . '/mod/wikicode/edit.php?compiled=1&pageid=' .
1241                 $this->page->id);
1242         } else {
1243             print_error('savingerror', 'wikicode');
1244         }
1245     }
1246 }
1247
1248 /**
1249  *
1250  * Class that models the behavior of wiki's
1251  * view differences
1252  */
1253 class page_wikicode_diff extends page_wikicode {
1254
1255     private $compare;
1256     private $comparewith;
1257
1258     function print_header($cm, $course) {
1259         global $OUTPUT;
1260
1261         parent::print_header($cm, $course);
1262
1263         //$this->print_pagetitle();
1264         $vstring = new stdClass();
1265         $vstring->old = $this->compare;
1266         $vstring->new = $this->comparewith;
1267         echo get_string('comparewith', 'wikicode', $vstring);
1268     }
1269
1270     /**
1271      * Print the diff view
1272      */
1273     function print_content() {
1274         global $PAGE;
1275
1276         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1277             'noviewpagepermission', 'wikicode');
1278
1279         $this->print_diff_content();

```

```

1278     }
1279
1280     function set_url() {
1281         global $PAGE, $CFG;
1282
1283         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/diff.php', array('pageid' =>
            $this->page->id, 'comparewith' => $this->comparewith, 'compare' =>
            $this->compare));
1284     }
1285
1286     function set_comparison($compare, $comparewith) {
1287         $this->compare = $compare;
1288         $this->comparewith = $comparewith;
1289     }
1290
1291     protected function create_navbar() {
1292         global $PAGE, $CFG;
1293
1294         parent::create_navbar();
1295         $PAGE->navbar->add(get_string('history', 'wikicode'), $CFG->wwwroot . '/mod
            /wikicode/history.php?pageid' . $this->page->id);
1296         $PAGE->navbar->add(get_string('diff', 'wikicode'));
1297     }
1298
1299     protected function setup_tabs() {
1300         parent::setup_tabs(array('linkedwhenactive' => 'history', 'activetab' => '
            history'));
1301     }
1302
1303     /**
1304      * Given two versions of a page, prints a page displaying the differences
            between them.
1305      *
1306      * @global object $CFG
1307      * @global object $OUTPUT
1308      * @global object $PAGE
1309      */
1310     private function print_diff_content() {
1311         global $CFG, $OUTPUT, $PAGE;
1312
1313         $pageid = $this->page->id;
1314         $total = wikicode_count_wikicode_page_versions($pageid) - 1;
1315
1316         $oldversion = wikicode_get_wikicode_page_version($pageid, $this->compare);
1317
1318         $newversion = wikicode_get_wikicode_page_version($pageid, $this->
            comparewith);
1319
1320         if ($oldversion && $newversion) {
1321
1322             $oldtext = format_text(wikicode_remove_tags($oldversion->content),
                FORMAT_PLAIN, array('overflowdiv'=>true));
1323             $newtext = format_text(wikicode_remove_tags($newversion->
                content), FORMAT_PLAIN, array('overflowdiv'=>true));

```

```

1324         list($diff1, $diff2) = ouwiki_diff_html($oldtext, $newtext);
1325         $oldversion->diff = $diff1;
1326         $oldversion->user = wikicode_get_user_info($oldversion->userid);
1327         $newversion->diff = $diff2;
1328         $newversion->user = wikicode_get_user_info($newversion->userid);
1329
1330     } else {
1331         print_error('versionerror', 'wikicode');
1332     }
1333 }
1334 }
1335
1336 /**
1337  *
1338  * Class that models the behavior of wiki's history page
1339  *
1340  */
1341 class page_wikicode_history extends page_wikicode {
1342     /**
1343      * @var int $paging current page
1344      */
1345     private $paging;
1346
1347     /**
1348      * @var int @rowsperpage Items per page
1349      */
1350     private $rowsperpage = 10;
1351
1352     /**
1353      * @var int $allversion if $allversion != 0, all versions will be printed in a
1354      *      signle table
1355      */
1356     private $allversion;
1357
1358     function __construct($wiki, $subwiki, $cm) {
1359         global $PAGE;
1360         parent::__construct($wiki, $subwiki, $cm);
1361         // $PAGE->requires->js_init_call('M.mod_wikicode.history', null, true);
1362     }
1363
1364     function print_header($cm, $course) {
1365         parent::print_header($cm, $course);
1366         // $this->print_pagetitle();
1367         parent::print_tab();
1368     }
1369
1370     function print_pagetitle() {
1371         global $OUTPUT;
1372         $html = '';
1373
1374         $html .= $OUTPUT->container_start();
1375         $html .= $OUTPUT->heading_with_help(format_string($this->title), 'history',
1376             'wikicode');
1377         $html .= $OUTPUT->container_end();

```

```
1376         echo $html;
1377     }
1378
1379     function print_content() {
1380         global $PAGE;
1381
1382         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1383             'noviewpagepermission', 'wikicode');
1384
1385         $this->print_history_content();
1386     }
1387
1388     function set_url() {
1389         global $PAGE, $CFG;
1390         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/history.php', array('pageid'
1391             => $this->page->id));
1392     }
1393
1394     function set_paging($paging) {
1395         $this->paging = $paging;
1396     }
1397
1398     function set_allversion($allversion) {
1399         $this->allversion = $allversion;
1400     }
1401
1402     protected function create_navbar() {
1403         global $PAGE, $CFG;
1404
1405         parent::create_navbar();
1406         $PAGE->navbar->add(get_string('history', 'wikicode'));
1407     }
1408
1409     /**
1410      * Prints the history for a given wiki page
1411      *
1412      * @global object $CFG
1413      * @global object $OUTPUT
1414      * @global object $PAGE
1415      */
1416     private function print_history_content() {
1417         global $CFG, $OUTPUT, $PAGE;
1418
1419         $pageid = $this->page->id;
1420         $offset = $this->paging * $this->rowsperpage;
1421         // vcount is the latest version
1422         $vcount = wikicode_count_wikicode_page_versions($pageid) - 1;
1423         if ($this->allversion) {
1424             $versions = wikicode_get_wikicode_page_versions($pageid, 0, $vcount);
1425         } else {
1426             $versions = wikicode_get_wikicode_page_versions($pageid, $offset,
1427                 $vcount);
1428         }
1429
1430         // We don't want version 0 to be displayed
```



```

1427     // version 0 is blank page
1428     if (end($versions)->version == 0) {
1429         array_pop($versions);
1430     }
1431
1432     $contents = array();
1433
1434     $version0page = wikicode_get_wikicode_page_version($this->page->id, 0);
1435     $creator = wikicode_get_user_info($version0page->userid);
1436     $a = new stdClass;
1437     $a->date = userdate($this->page->timecreated, get_string('
1438         strftimeofdaydatettime', 'langconfig'));
1439     $a->username = fullname($creator);
1440
1441     //echo $OUTPUT->heading(get_string('createddate', 'wikicode', $a), 4, '
1442         wikicode_headingtime');
1443     if ($vcount > 0) {
1444
1445         /// If there is only one version, we don't need radios nor forms
1446         if (count($versions) == 1) {
1447
1448             $row = array_shift($versions);
1449
1450             $username = wikicode_get_user_info($row->userid);
1451             $date = userdate($row->timecreated, get_string('strftime', '
1452                 langconfig'));
1453             $time = userdate($row->timecreated, get_string('strftimetime', '
1454                 langconfig'));
1455             $versionid = wikicode_get_version($row->id);
1456             $versionlink = $CFG->wwwroot . '/mod/wikicode/viewversion.php?
1457                 pageid=' . $pageid . '&versionid=' . $versionid->id;
1458             $userlink = $CFG->wwwroot . '/user/view.php?id=' . $username->id;
1459             $contents[] = array('', html_writer::link($versionlink, $row->
1460                 version), $picture . html_writer::link($userlink, fullname(
1461                     $username)), $time);
1462
1463             $table = new html_table();
1464             $table->head = array('', get_string('version'), get_string('user'),
1465                 get_string('modified'), '');
1466             $table->data = $contents;
1467             $table->attributes['class'] = 'mdl-align';
1468             $table->attributes['align'] = 'center';
1469
1470             echo html_writer::table($table);
1471
1472         } else {
1473
1474             $checked = $vcount - $offset;
1475             $rowclass = array();
1476
1477             foreach ($versions as $version) {
1478                 $user = wikicode_get_user_info($version->userid);
1479                 $date = userdate($version->timecreated, get_string('
1480                     strftime', 'langconfig'));

```

```

1472         $rowclass[] = 'wikicode_histnewdate';
1473         $time = userdate($version->timecreated, get_string('
            strftime', 'langconfig'));
1474         $versionid = wikicode_get_version($version->id);
1475         if ($versionid) {
1476             $url = $CFG->wwwroot . '/mod/wikicode/viewversion.php?
                pageid=' . $pageid . '&versionid=' . $versionid->id;
1477             $viewlink = html_writer::link($url, $version->version);
1478         } else {
1479             $viewlink = $version->version;
1480         }
1481         $userlink = new moodle_url($CFG->wwwroot . '/user/view.php',
            array('id' => $version->userid));
1482         $contents[] = array($viewlink, $picture . html_writer::link(
            $userlink->out(false), fullname($user)), $time, "");
1483     }
1484
1485     $table = new html_table();
1486
1487     //$icon = $OUTPUT->help_icon('diff', 'wikicode');
1488
1489     $table->head = array(get_string('version'), get_string('user'),
        get_string('modified'), '');
1490     $table->data = $contents;
1491     $table->attributes['class'] = 'generaltable mdl-align';
1492     $table->attributes['align'] = 'center';
1493     $table->rowclasses = $rowclass;
1494
1495     ///Print the form
1496     echo html_writer::start_tag('form', array('action'
        =>$CFG->wwwroot . '/mod/wikicode/diff.php?
            method=get&id=diff'));
1497     echo html_writer::tag('div', html_writer::empty_tag('input', array(
        'type'=>'hidden', 'name'=>'pageid', 'value'=>$pageid)));
1498     echo html_writer::table($table);
1499     echo html_writer::start_tag('div', array('class'=>'mdl-align'));
1500     //echo html_writer::empty_tag('input', array('type'=>'submit', '
        class'=>'wikicode_form-button', 'value'=>get_string('comparesel
            ', 'wikicode')));
1501     echo html_writer::end_tag('div');
1502     echo html_writer::end_tag('form');
1503
1504     //echo '<form action=' . new moodle_url('/mod/
        wikicode/diff.php') . ' id="diff" method="get
            ">';
1505
1506     }
1507 } else {
1508     print_string('nohistory', 'wikicode');
1509 }
1510
1511 if (!$this->allversion) {

```

```

1512         //$pagingbar = moodle_paging_bar::make($vcount, $this->paging, $this->
            rowsperpage, $CFG->wwwroot.'/mod/wikicode/history.php?pageid=' .
            $pageid.'&');
1513         //$pagingbar->pagevar = $pagevar;
1514         //echo $OUTPUT->paging_bar($vcount, $this->paging, $this->rowsperpage,
            $CFG->wwwroot . '/mod/wikicode/history.php?pageid=' . $pageid . '&
            amp;');
1515         //print_paging_bar($vcount, $paging, $rowsperpage, $CFG->wwwroot.'/mod/
            wikicode/history.php?pageid=' . $pageid.'&','paging');
1516     } else {
1517         $link = new moodle_url('/mod/wikicode/history.php', array('pageid' =>
            $pageid));
1518         //$OUTPUT->container(html_writer::link($link->out(false), get_string('
            viewperpage', 'wikicode', $this->rowsperpage)), 'mdl-align');
1519     }
1520     if ($vcount > $this->rowsperpage && !$this->allversion) {
1521         $link = new moodle_url('/mod/wikicode/history.php', array('pageid' =>
            $pageid, 'allversion' => 1));
1522         //$OUTPUT->container(html_writer::link($link->out(false), get_string('
            viewallhistory', 'wikicode')), 'mdl-align');
1523     }
1524 }
1525
1526 /**
1527  * Given an array of values, creates a group of radio buttons to be part of a
            form
1528  *
1529  * @param array $options An array of value-label pairs for the radio group (
            values as keys).
1530  * @param string $name Name of the radiogroup (unique in the form).
1531  * @param string $onclick Function to be executed when the radios are clicked.
1532  * @param string $checked The value that is already checked.
1533  * @param bool $return If true, return the HTML as a string, otherwise
            print it.
1534  *
1535  * @return mixed If $return is false, returns nothing, otherwise returns a
            string of HTML.
1536  */
1537 private function choose_from_radio($options, $name, $onclick = '', $checked = '
            ', $return = false) {
1538
1539     static $idcounter = 0;
1540
1541     if (!$name) {
1542         $name = 'unnamed';
1543     }
1544
1545     $output = '<span class="radiogroup ' . $name . "\">\n";
1546
1547     if (!empty($options)) {
1548         $currentradio = 0;
1549         foreach ($options as $value => $label) {
1550             $htmlid = 'auto-rb' . sprintf('%04d', ++$idcounter);

```

```

1551         $output .= ' <span class="radioelement ' . $name . ' rb' .
1552             $currentradio . "\">";
1553         $output .= '<input name="' . $name . '" id="' . $htmlid . '" type="
1554             radio" value="' . $value . '"';
1555         if ($value == $checked) {
1556             $output .= ' checked="checked"';
1557         }
1558         if ($onclick) {
1559             $output .= ' onclick="' . $onclick . '"';
1560         }
1561         if ($label === '') {
1562             $output .= ' /> <label for="' . $htmlid . '">' . $value . '</
1563                 label></span>' . "\n";
1564         } else {
1565             $output .= ' /> <label for="' . $htmlid . '">' . $label . '</
1566                 label></span>' . "\n";
1567         }
1568         $currentradio = ($currentradio + 1) % 2;
1569     }
1570     $output .= '</span>' . "\n";
1571
1572     if ($return) {
1573         return $output;
1574     } else {
1575         echo $output;
1576     }
1577 }
1578
1579 /**
1580  * Class that models the behavior of wiki's map page
1581  */
1582 class page_wikicode_map extends page_wikicode {
1583
1584     /**
1585      * @var int wiki view option
1586      */
1587     private $view;
1588
1589     function print_header() {
1590         parent::print_header();
1591         $this->print_pagetitle();
1592     }
1593
1594     function print_content() {
1595         global $CFG, $PAGE;
1596
1597         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1598             'noviewpagepermission', 'wikicode');
1599
1600         if ($this->view > 0) {

```

```

1600         //echo '<div><a href="' . $CFG->wwwroot . '/mod/wikicode/map.php?pageid
        = ' . $this->page->id . '">' . get_string('backtomapmenu', 'wikicode
        ') . '</a></div>';
1601     }
1602
1603     switch ($this->view) {
1604     case 1:
1605         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1606         $this->print_contributions_content();
1607         break;
1608     case 2:
1609         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1610         $this->print_navigation_content();
1611         break;
1612     case 3:
1613         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1614         $this->print_orphaned_content();
1615         break;
1616     case 4:
1617         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1618         $this->print_index_content();
1619         break;
1620     case 5:
1621         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1622         $this->print_page_list_content();
1623         break;
1624     case 6:
1625         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1626         $this->print_updated_content();
1627         break;
1628     default:
1629         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1630         $this->print_page_list_content();
1631     }
1632 }
1633
1634 function set_view($option) {
1635     $this->view = $option;
1636 }
1637
1638 function set_url() {
1639     global $PAGE, $CFG;
1640     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/map.php', array('pageid' =>
        $this->page->id));
1641 }
1642
1643 protected function create_navbar() {
1644     global $PAGE;
1645
1646     parent::create_navbar();
1647     $PAGE->navbar->add(get_string('map', 'wikicode'));
1648 }
1649
1650 /**

```

```

1651     * Prints the contributions tab content
1652     *
1653     * @uses $OUTPUT, $USER
1654     *
1655     */
1656     private function print_contributions_content() {
1657         global $CFG, $OUTPUT, $USER;
1658         $page = $this->page;
1659
1660         if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1661             $fresh = wikicode_refresh_cachedcontent($page);
1662             $page = $fresh['page'];
1663         }
1664
1665         $swid = $this->subwiki->id;
1666
1667         $table = new html_table();
1668         $table->head = array(get_string('contributions', 'wikicode') . $OUTPUT->
            help_icon('contributions', 'wikicode'));
1669         $table->attributes['class'] = 'wikicode_editor_generalbox';
1670         $table->data = array();
1671         $table->rowclasses = array();
1672
1673         $lastversions = array();
1674         $pages = array();
1675         $users = array();
1676
1677         if ($contribs = wikicode_get_contributions($swid, $USER->id)) {
1678             foreach ($contribs as $contrib) {
1679                 if (!array_key_exists($contrib->pageid, $pages)) {
1680                     $page = wikicode_get_page($contrib->pageid);
1681                     $pages[$contrib->pageid] = $page;
1682                 } else {
1683                     continue;
1684                 }
1685
1686                 if (!array_key_exists($page->id, $lastversions)) {
1687                     $version = wikicode_get_last_version($page->id);
1688                     $lastversions[$page->id] = $version;
1689                 } else {
1690                     $version = $lastversions[$page->id];
1691                 }
1692
1693                 if (!array_key_exists($version->userid, $users)) {
1694                     $user = wikicode_get_user_info($version->userid);
1695                     $users[$version->userid] = $user;
1696                 } else {
1697                     $user = $users[$version->userid];
1698                 }
1699
1700                 $link = wikicode_parser_link(format_string($page->title), array('
                    swid' => $swid));
1701                 $class = ($link['new']) ? 'class="wiki_newentry"' : '';
1702

```

```

1703         $linkpage = '<a href="' . $link['url'] . '"' . $class . '>' . $link
1704             ['content'] . '</a>';
1705         $icon = $OUTPUT->user_picture($user, array('popup' => true));
1706         $table->data[] = array("$icon&nbsp;$linkpage");
1707     }
1708 } else {
1709     $table->data[] = array(get_string('nocontribs', 'wikicode'));
1710 }
1711 echo html_writer::table($table);
1712 }
1713
1714 /**
1715  * Prints the navigation tab content
1716  *
1717  * @uses $OUTPUT
1718  *
1719  */
1720 private function print_navigation_content() {
1721     global $OUTPUT;
1722     $page = $this->page;
1723
1724     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1725         $fresh = wikicode_refresh_cachedcontent($page);
1726         $page = $fresh['page'];
1727     }
1728
1729     $tolinks = wikicode_get_linked_to_pages($page->id);
1730     $fromlinks = wikicode_get_linked_from_pages($page->id);
1731
1732     $table = new html_table();
1733     $table->attributes['class'] = 'wikicode_navigation_from';
1734     $table->head = array(get_string('navigationfrom', 'wikicode') . $OUTPUT->
1735         help_icon('navigationfrom', 'wikicode') . ':');
1736     $table->data = array();
1737     $table->rowclasses = array();
1738     foreach ($fromlinks as $link) {
1739         $lpage = wikicode_get_page($link->frompageid);
1740         $link = new moodle_url('/mod/wikicode/view.php', array('pageid' =>
1741             $lpage->id));
1742         $table->data[] = array(html_writer::link($link->out(false),
1743             format_string($lpage->title)));
1744         $table->rowclasses[] = 'mdl-align';
1745     }
1746
1747     $table_left = html_writer::table($table);
1748
1749     $table = new html_table();
1750     $table->attributes['class'] = 'wikicode_navigation_to';
1751     $table->head = array(get_string('navigationto', 'wikicode') . $OUTPUT->
1752         help_icon('navigationto', 'wikicode') . ':');
1753     $table->data = array();
1754     $table->rowclasses = array();
1755     foreach ($tolinks as $link) {

```

```

1752         if ($link->tomissingpage) {
1753             $viewlink = new moodle_url('/mod/wikicode/create.php', array('swid'
                => $page->subwikiid, 'title' => $link->tomissingpage, 'action'
                => 'new'));
1754             $table->data[] = array(html_writer::link($viewlink->out(false),
                format_string($link->tomissingpage), array('class' => '
                wikicode_newentry')));
1755         } else {
1756             $lpage = wikicode_get_page($link->topageid);
1757             $viewlink = new moodle_url('/mod/wikicode/view.php', array('pageid'
                => $lpage->id));
1758             $table->data[] = array(html_writer::link($viewlink->out(false),
                format_string($lpage->title)));
1759         }
1760         $table->rowclasses[] = 'mdl-align';
1761     }
1762     $table_right = html_writer::table($table);
1763     echo $OUTPUT->container($table_left . $table_right, '
        wikicode_navigation_container');
1764 }
1765
1766 /**
1767  * Prints the index page tab content
1768  *
1769  *
1770  */
1771 private function print_index_content() {
1772     global $OUTPUT;
1773     $page = $this->page;
1774
1775     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1776         $fresh = wikicode_refresh_cachedcontent($page);
1777         $page = $fresh['page'];
1778     }
1779
1780     $node = new navigation_node($page->title);
1781
1782     $keys = array();
1783     $tree = array();
1784     $tree = wikicode_build_tree($page, $node, $keys);
1785
1786     $table = new html_table();
1787     $table->head = array(get_string('pageindex', 'wikicode') . $OUTPUT->
        help_icon('pageindex', 'wikicode'));
1788     $table->attributes['class'] = 'wikicode_editor_generalbox';
1789     $table->data[] = array($this->render_navigation_node($tree));
1790
1791     echo html_writer::table($table);
1792 }
1793
1794 /**
1795  * Prints the page list tab content
1796  *
1797  *

```



```

1798     */
1799     private function print_page_list_content() {
1800         global $OUTPUT;
1801         $page = $this->page;
1802
1803         if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1804             $fresh = wikicode_refresh_cachedcontent($page);
1805             $page = $fresh['page'];
1806         }
1807
1808         $pages = wikicode_get_page_list($this->subwiki->id);
1809
1810         $stdaux = new stdClass();
1811         $strspecial = get_string('special', 'wikicode');
1812
1813         foreach ($pages as $page) {
1814             $letter = textlib::strtoupper(textlib::substr($page->title, 0, 1));
1815             if (preg_match('/[A-Z]/', $letter)) {
1816                 $stdaux->{
1817                     $letter}
1818                 [] = wikicode_parser_link($page);
1819             } else {
1820                 $stdaux->{
1821                     $strspecial}
1822                 [] = wikicode_parser_link($page);
1823             }
1824         }
1825
1826         $table = new html_table();
1827         $table->head = array(get_string('pagelist', 'wikicode') . $OUTPUT->
1828             help_icon('pagelist', 'wikicode'));
1829         $table->attributes['class'] = 'wikicode_editor_generalbox';
1830         $table->align = array('center');
1831         foreach ($stdaux as $key => $elem) {
1832             $table->data[] = array($key);
1833             foreach ($elem as $e) {
1834                 $table->data[] = array(html_writer::link($e['url'], $e['content']))
1835                 ;
1836             }
1837         }
1838         echo html_writer::table($table);
1839     }
1840
1841     /**
1842     * Prints the orphaned tab content
1843     */
1844     private function print_orphaned_content() {
1845         global $OUTPUT;
1846
1847         $page = $this->page;
1848
1849         if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {

```

```

1850         $fresh = wikicode_refresh_cachedcontent($page);
1851         $page = $fresh['page'];
1852     }
1853
1854     $swid = $this->subwiki->id;
1855
1856     $table = new html_table();
1857     $table->head = array(get_string('orphaned', 'wikicode') . $OUTPUT->
        help_icon('orphaned', 'wikicode'));
1858     $table->attributes['class'] = 'wikicode_editor_generalbox';
1859     $table->data = array();
1860     $table->rowclasses = array();
1861
1862     if ($orphanedpages = wikicode_get_orphaned_pages($swid)) {
1863         foreach ($orphanedpages as $page) {
1864             $link = wikicode_parser_link($page->title, array('swid' => $swid));
1865             $class = ($link['new']) ? 'class="wiki_newentry"' : '';
1866             $table->data[] = array('<a href="' . $link['url'] . '"' . $class .
                '>' . format_string($link['content']) . '</a>');
1867         }
1868     } else {
1869         $table->data[] = array(get_string('noorphanedpages', 'wikicode'));
1870     }
1871
1872     echo html_writer::table($table);
1873 }
1874
1875 /**
1876  * Prints the updated tab content
1877  *
1878  * @uses $COURSE, $OUTPUT
1879  *
1880  */
1881 private function print_updated_content() {
1882     global $COURSE, $OUTPUT;
1883     $page = $this->page;
1884
1885     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1886         $fresh = wikicode_refresh_cachedcontent($page);
1887         $page = $fresh['page'];
1888     }
1889
1890     $swid = $this->subwiki->id;
1891
1892     $table = new html_table();
1893     $table->head = array(get_string('updatedpages', 'wikicode') . $OUTPUT->
        help_icon('updatedpages', 'wikicode'));
1894     $table->attributes['class'] = 'wikicode_editor_generalbox';
1895     $table->data = array();
1896     $table->rowclasses = array();
1897
1898     if ($pages = wikicode_get_updated_pages_by_subwiki($swid)) {
1899         $strdataux = '';
1900         foreach ($pages as $page) {

```

```

1901         $user = wikicode_get_user_info($page->userid);
1902         $strdata = strftime('%d %b %Y', $page->timemodified);
1903         if ($strdata != $strdataux) {
1904             $table->data[] = array($OUTPUT->heading($strdata, 4));
1905             $strdataux = $strdata;
1906         }
1907         $link = wikicode_parser_link($page->title, array('swid' => $swid));
1908         $class = ($link['new']) ? 'class="wiki_newentry"' : '';
1909
1910         $linkpage = '<a href="' . $link['url'] . '"' . $class . '>' .
1911             format_string($link['content']) . '</a>';
1912         $icon = $OUTPUT->user_picture($user, array($COURSE->id));
1913         $table->data[] = array("$icon&nbsp;$linkpage");
1914     } else {
1915         $table->data[] = array(get_string('noupdatedpages', 'wikicode'));
1916     }
1917
1918     echo html_writer::table($table);
1919 }
1920
1921 protected function render_navigation_node($items, $attrs = array(),
1922     $expansionlimit = null, $depth = 1) {
1923
1924     // exit if empty, we don't want an empty ul element
1925     if (count($items) == 0) {
1926         return '';
1927     }
1928
1929     // array of nested li elements
1930     $lis = array();
1931     foreach ($items as $item) {
1932         if (!$item->display) {
1933             continue;
1934         }
1935         $content = $item->get_content();
1936         $title = $item->get_title();
1937         if ($item->icon instanceof renderable) {
1938             $icon = $this->wikioutput->render($item->icon);
1939             $content = $icon . '&nbsp;'; // use CSS for spacing of
1940                                     icons
1941         }
1942         if ($item->helpbutton != null) {
1943             $content = trim($item->helpbutton) . html_writer::tag('span',
1944                 $content, array('class' => 'clearhelpbutton'));
1945         }
1946
1947         if ($content === '') {
1948             continue;
1949         }
1950
1951         if ($item->action instanceof action_link) {
1952             //TODO: to be replaced with something else
1953             $link = $item->action;

```

```

1951         if ($item->hidden) {
1952             $link->add_class('dimmed');
1953         }
1954         $content = $this->output->render($link);
1955     } else if ($item->action instanceof moodle_url) {
1956         $attributes = array();
1957         if ($title !== '') {
1958             $attributes['title'] = $title;
1959         }
1960         if ($item->hidden) {
1961             $attributes['class'] = 'dimmed_text';
1962         }
1963         $content = html_writer::link($item->action, $content, $attributes);
1964
1965     } else if (is_string($item->action) || empty($item->action)) {
1966         $attributes = array();
1967         if ($title !== '') {
1968             $attributes['title'] = $title;
1969         }
1970         if ($item->hidden) {
1971             $attributes['class'] = 'dimmed_text';
1972         }
1973         $content = html_writer::tag('span', $content, $attributes);
1974     }
1975
1976     // this applies to the li item which contains all child lists too
1977     $liclasses = array($item->get_css_type(), 'depth_' . $depth);
1978     if ($item->has_children() && (!$item->forceopen || $item->collapse)) {
1979         $liclasses[] = 'collapsed';
1980     }
1981     if ($item->isactive === true) {
1982         $liclasses[] = 'current_branch';
1983     }
1984     $liattr = array('class' => join(' ', $liclasses));
1985     // class attribute on the div item which only contains the item content
1986     $divclasses = array('tree_item');
1987     if ((empty($expansionlimit) || $item->type != $expansionlimit) && (
1988         $item->children->count() > 0 || ($item->nodetype == navigation_node
1989             ::NODETYPE_BRANCH && $item->children->count() == 0 && isloggedin())
1990     )) {
1991         $divclasses[] = 'branch';
1992     } else {
1993         $divclasses[] = 'leaf';
1994     }
1995     if (!empty($item->classes) && count($item->classes) > 0) {
1996         $divclasses[] = join(' ', $item->classes);
1997     }
1998     $divattr = array('class' => join(' ', $divclasses));
1999     if (!empty($item->id)) {
2000         $divattr['id'] = $item->id;
2001     }
2002     $content = html_writer::tag('p', $content, $divattr) . $this->
        render_navigation_node($item->children, array(), $expansionlimit,
        $depth + 1);

```

```

2000         if (!empty($item->preceedwithhr) && $item->preceedwithhr === true) {
2001             $content = html_writer::empty_tag('hr') . $content;
2002         }
2003         $content = html_writer::tag('li', $content, $liattr);
2004         $lis[] = $content;
2005     }
2006
2007     if (count($lis)) {
2008         return html_writer::tag('ul', implode("\n", $lis), $attrs);
2009     } else {
2010         return '';
2011     }
2012 }
2013
2014 }
2015
2016 /**
2017  * Class that models the behavior of wiki's restore version page
2018  *
2019  */
2020 class page_wikicode_restoreversion extends page_wikicode {
2021     private $version;
2022
2023     function print_header($cm, $course) {
2024         parent::print_header($cm, $course);
2025     }
2026
2027     function print_content() {
2028         global $CFG, $PAGE;
2029
2030         require_capability('mod/wikicode:managewiki', $this->modcontext, NULL, true
2031             , 'nomanagewikipermission', 'wikicode');
2032
2033         $this->print_restoreversion();
2034     }
2035
2036     function set_url() {
2037         global $PAGE, $CFG;
2038         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/viewversion.php', array('
2039             pageid' => $this->page->id, 'versionid' => $this->version->id));
2040     }
2041
2042     function set_versionid($versionid) {
2043         $this->version = wikicode_get_version($versionid);
2044     }
2045
2046     protected function create_navbar() {
2047         global $PAGE, $CFG;
2048
2049         parent::create_navbar();
2050         $PAGE->navbar->add(get_string('restoreversion', 'wikicode'));
2051     }
2052
2053     protected function setup_tabs() {

```

```

2052         parent::setup_tabs(array('linkedwhenactive' => 'history', 'activetab' => '
           history'));
2053     }
2054
2055     /**
2056      * Prints the restore version content
2057      *
2058      * @uses $CFG
2059      *
2060      * @param page $page The page whose version will be restored
2061      * @param int $versionid The version to be restored
2062      * @param bool $confirm If false, shows a yes/no confirmation page.
2063      *      If true, restores the old version and redirects the user to the 'view'
           tab.
2064     */
2065     private function print_restoreversion() {
2066         global $CFG;
2067
2068         $version = wikicode_get_version($this->version->id);
2069
2070         $restoreurl = $CFG->wwwroot . '/mod/wikicode/restoreversion.php?confirm=1&
           pageid=' . $this->page->id . '&versionid=' . $version->id . '&sesskey='
           . sesskey();
2071         $return = $CFG->wwwroot . '/mod/wikicode/viewversion.php?pageid=' . $this->
           page->id . '&versionid=' . $version->id;
2072
2073         echo get_string('restoreconfirm', 'wikicode', $version->version);
2074         print_container_start(false, 'wikicode_restoreform');
2075         echo '<form class="wiki_restore_yes" action="' . $restoreurl . '" method="
           post" id="restoreversion">';
2076         echo '<div><input type="submit" name="confirm" value="' . get_string('yes')
           . '" /></div>';
2077         echo '</form>';
2078         echo '<form class="wiki_restore_no" action="' . $return . '" method="post">
           ';
2079         echo '<div><input type="submit" name="norestore" value="' . get_string('no'
           ) . '" /></div>';
2080         echo '</form>';
2081         print_container_end();
2082     }
2083 }
2084
2085 /**
2086  * Class that models the behavior of wiki's delete comment confirmation page
2087  *
2088  */
2089 class page_wikicode_deletecomment extends page_wikicode {
2090     private $commentid;
2091
2092     function print_header() {
2093         parent::print_header();
2094         $this->print_pagetitle();
2095     }
2096
2097     function print_content() {

```

```

2097         $this->printconfirmdelete();
2098     }
2099
2100     function set_url() {
2101         global $PAGE;
2102         $PAGE->set_url('/mod/wikicode/instancecomments.php', array('pageid' =>
2103             $this->page->id, 'commentid' => $this->commentid));
2104     }
2105
2106     public function set_action($action, $commentid, $content) {
2107         $this->action = $action;
2108         $this->commentid = $commentid;
2109         $this->content = $content;
2110     }
2111
2112     protected function create_navbar() {
2113         global $PAGE;
2114
2115         parent::create_navbar();
2116         $PAGE->navbar->add(get_string('deletecommentcheck', 'wikicode'));
2117     }
2118
2119     protected function setup_tabs() {
2120         parent::setup_tabs(array('linkedwhenactive' => 'comments', 'activetab' => '
2121             comments'));
2122     }
2123
2124     /**
2125      * Prints the comment deletion confirmation form
2126      *
2127      * @param page $page The page whose version will be restored
2128      * @param int $versionid The version to be restored
2129      * @param bool $confirm If false, shows a yes/no confirmation page.
2130      * If true, restores the old version and redirects the user to the 'view'
2131      * tab.
2132      */
2133     private function printconfirmdelete() {
2134         global $OUTPUT;
2135
2136         $strdeletecheck = get_string('deletecommentcheck', 'wikicode');
2137         $strdeletecheckfull = get_string('deletecommentcheckfull', 'wikicode');
2138
2139         //ask confirmation
2140         $optionsyes = array('confirm'=>1, 'pageid'=>$this->page->id, 'action'=>'
2141             delete', 'commentid'=>$this->commentid, 'sesskey'=>sesskey());
2142         $deleteurl = new moodle_url('/mod/wikicode/instancecomments.php',
2143             $optionsyes);
2144         $return = new moodle_url('/mod/wikicode/comments.php', array('pageid'=>
2145             $this->page->id));
2146
2147         echo $OUTPUT->heading($strdeletecheckfull);
2148         print_container_start(false, 'wikicode_deletecommentform');
2149         echo '<form class="wiki_deletecomment_yes" action="' . $deleteurl . '"
2150             method="post" id="deletecomment">';

```

```

2144         echo '<div><input type="submit" name="confirmdeletecomment" value="" .
           get_string('yes') . '" /></div>';
2145     echo '</form>';
2146     echo '<form class="wiki_deletecomment_no" action="" . $return . '" method="
           post">';
2147     echo '<div><input type="submit" name="norestore" value="" . get_string('no'
           ) . '" /></div>';
2148     echo '</form>';
2149     print_container_end();
2150 }
2151 }
2152
2153 /**
2154  * Class that models the behavior of wiki's
2155  * save page
2156  *
2157  */
2158 class page_wikicode_save extends page_wikicode_edit {
2159
2160     private $newcontent;
2161
2162     function print_header() {
2163     }
2164
2165     function print_content() {
2166         $wiki = wikicode_get_wikicode_from_pageid($this->page->id);
2167         $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
2168
2169         $context = get_context_instance(CONTEXT_MODULE, $cm->id);
2170         require_capability('mod/wikicode:editpage', $context, NULL, true, '
           noeditpermission', 'wikicode');
2171
2172         $this->print_save();
2173     }
2174
2175     function set_newcontent($newcontent) {
2176         $this->newcontent = $newcontent;
2177     }
2178
2179     protected function set_session_url() {
2180     }
2181
2182     protected function print_save() {
2183         global $CFG, $USER, $OUTPUT, $PAGE;
2184
2185         $url = $CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page->id;
2186         if (!empty($this->section)) {
2187             $url .= "&section=" . urlencode($this->section);
2188         }
2189
2190         $params = array('attachmentoptions' => page_wikicode_edit::
           $attachmentoptions, 'format' => $this->format, 'version' => $this->
           versionnumber);
2191

```



```

2192         if ($this->format != 'html') {
2193             $params['fileitemid'] = $this->page->id;
2194             $params['contextid'] = $this->modcontext->id;
2195             $params['component'] = 'mod_wikicode';
2196             $params['filearea'] = 'attachments';
2197         }
2198
2199         $form = new mod_wikicode_edit_form($url, $params);
2200
2201         $save = false;
2202         $data = false;
2203         if ($data = $form->get_data()) {
2204             if ($this->format == 'html') {
2205                 $data = file_postupdate_standard_editor($data, 'newcontent',
2206                     page_wikicode_edit::$attachmentoptions, $this->modcontext, '
2207                     mod_wikicode', 'attachments', $this->subwiki->id);
2208             }
2209
2210             if (isset($this->section)) {
2211                 $save = wikicode_save_section($this->page, $this->section, $data->
2212                     newcontent, $USER->id);
2213             } else {
2214                 $save = wikicode_save_page($this->page, $data->newcontent, $USER->
2215                     id);
2216             }
2217         }
2218
2219         if ($save && $data) {
2220             if (!empty($CFG->usetags)) {
2221                 tag_set('wikicode_pages', $this->page->id, $data->tags);
2222             }
2223
2224             $message = '<p>' . get_string('saving', 'wikicode') . '</p>';
2225
2226             if (!empty($save['sections'])) {
2227                 foreach ($save['sections'] as $s) {
2228                     $message .= '<p>' . get_string('repeatedsection', 'wikicode',
2229                         $s) . '</p>';
2230                 }
2231             }
2232
2233             if ($this->versionnumber + 1 != $save['version']) {
2234                 $message .= '<p>' . get_string('wrongversionsave', 'wikicode') . '
2235                     </p>';
2236             }
2237
2238             if (isset($errors) && !empty($errors)) {
2239                 foreach ($errors as $e) {
2240                     $message .= "<p>" . get_string('filenotuploadederror', '
2241                         wikicode', $e->get_filename()) . "</p>";
2242                 }
2243             }
2244
2245             //deleting old locks

```

```

2239         wikicode_delete_locks($this->page->id, $USER->id, $this->section);
2240
2241         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page
2242             ->id);
2243     } else {
2244         print_error('savingerror', 'wikicode');
2245     }
2246 }
2247
2248 /**
2249  * Class that models the behavior of wiki's view an old version of a page
2250  *
2251  */
2252 class page_wikicode_viewversion extends page_wikicode {
2253
2254     private $version;
2255
2256     function print_header($cm, $course) {
2257         parent::print_header($cm, $course);
2258     }
2259
2260     function print_content() {
2261         global $PAGE;
2262
2263         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
2264             'noviewpagepermission', 'wikicode');
2265
2266         $this->print_version_view();
2267     }
2268
2269     function set_url() {
2270         global $PAGE, $CFG;
2271         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/viewversion.php', array('
2272             pageid' => $this->page->id, 'versionid' => $this->version->id));
2273     }
2274
2275     function set_versionid($versionid) {
2276         $this->version = wikicode_get_version($versionid);
2277     }
2278
2279     protected function create_navbar() {
2280         global $PAGE, $CFG;
2281
2282         parent::create_navbar();
2283         $PAGE->navbar->add(get_string('history', 'wikicode'), $CFG->wwwroot . '/mod
2284             /wikicode/history.php?pageid' . $this->page->id);
2285         $PAGE->navbar->add(get_string('versionnum', 'wikicode', $this->version->
2286             version));
2287     }
2288
2289     protected function setup_tabs() {
2290         parent::setup_tabs(array('linkedwhenactive' => 'history', 'activetab' => '
2291             history', 'inactivetabs' => array('edit')));

```

```

2287     }
2288
2289     /**
2290      * Given an old page version, output the version content
2291      *
2292      * @global object $CFG
2293      * @global object $OUTPUT
2294      * @global object $PAGE
2295      */
2296     private function print_version_view() {
2297         global $CFG, $OUTPUT, $PAGE;
2298         $pageversion = wikicode_get_version($this->version->id);
2299
2300         if ($pageversion) {
2301             $restorelink = $CFG->wwwroot . '/mod/wikicode/restoreversion.php?' . '
2302                 pageid=' . $this->page->id . '&versionid=' . $this->version->id;
2303             echo '<p>' . get_string('viewversion', 'wikicode', $pageversion->
2304                 version) . '<br />' . html_writer::link($restorelink, '(' .
2305                 get_string('restorethis', 'wikicode') . ')', array('class' => '
2306                 wikicode_restore')) . '&nbsp;' . '</p>';
2307             $userinfo = wikicode_get_user_info($pageversion->userid);
2308             $heading = '<p><strong>' . get_string('modified', 'wikicode') . ':</
2309                 strong>&nbsp;' . userdate($pageversion->timecreated, get_string('
2310                 strftimedatettime', 'langconfig'));
2311             $viewlink = $CFG->wwwroot . '/user/view.php?' . 'id=' . $userinfo->id;
2312             $heading .= '&nbsp;&nbsp;&nbsp;&nbsp;<strong>' . get_string('user') . ':</
2313                 strong>&nbsp;' . html_writer::link($viewlink, fullname($userinfo));
2314             print_container($heading, false, 'mdl-align wikicode_modifieduser
2315                 wikicode_headingtime');
2316             $options = array('swid' => $this->subwiki->id, 'pretty_print' => true,
2317                 'pageid' => $this->page->id);
2318
2319             $pageversion->content = wikicode_remove_tags($pageversion->content);
2320             $content = format_text($pageversion->content, FORMAT_PLAIN, array('
2321                 overflowdiv'=>true));
2322
2323             print_simple_box_start('center', '70%', '', '20');
2324             print_box($content);
2325             print_simple_box_end();
2326
2327         } else {
2328             print_error('versionerror', 'wikicode');
2329         }
2330     }
2331 }
2332
2333 class page_wikicode_confirmrestore extends page_wikicode_save {
2334
2335     private $version;
2336
2337     function set_url() {
2338         global $PAGE, $CFG;
2339         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/viewversion.php', array('
2340             pageid' => $this->page->id, 'versionid' => $this->version->id));

```

```

2330     }
2331
2332     function print_content() {
2333         global $CFG, $PAGE;
2334
2335         require_capability('mod/wikicode:managewiki', $this->modcontext, NULL, true
2336             , 'nomanagewikipermission', 'wikicode');
2337
2338         $version = wikicode_get_version($this->version->id);
2339         if (wikicode_restore_page($this->page, $version->content, $version->userid)
2340             ) {
2341             redirect($CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $this->page
2342                 ->id, get_string('restoring', 'wikicode', $version->version), 3);
2343         } else {
2344             print_error('restoreerror', 'wikicode', $version->version);
2345         }
2346     }
2347
2348     function set_versionid($versionid) {
2349         $this->version = wikicode_get_version($versionid);
2350     }
2351
2352     class page_wikicode_prettyview extends page_wikicode {
2353
2354         function print_header() {
2355             global $CFG, $PAGE, $OUTPUT;
2356             $PAGE->set_pagelayout('embedded');
2357             echo $OUTPUT->header();
2358
2359             echo '<h1 id="wiki_printable_title">' . format_string($this->title) . '</h1
2360                 >';
2361         }
2362
2363         function print_content() {
2364             global $PAGE;
2365
2366             require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
2367                 'noviewpagepermission', 'wikicode');
2368
2369             $this->print_pretty_view();
2370         }
2371
2372         function set_url() {
2373             global $PAGE, $CFG;
2374
2375             $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/prettyview.php', array('
2376                 pageid' => $this->page->id));
2377         }
2378
2379         private function print_pretty_view() {
2380             $version = wikicode_get_current_version($this->page->id);

```

```

2377         $content = wikicode_parse_content($version->contentformat, $version->
2378             content, array('printable' => true, 'swid' => $this->subwiki->id, '
2379                 pageid' => $this->page->id, 'pretty_print' => true));
2380
2381         echo '<div id="wiki_printable_content">';
2382         echo format_text($content['parsed_text'], FORMAT_HTML);
2383         echo '</div>';
2384     }
2385 }
2386
2387 class page_wikicode_handlecomments extends page_wikicode {
2388     private $action;
2389     private $content;
2390     private $commentid;
2391     private $format;
2392
2393     function print_header() {
2394         $this->set_url();
2395     }
2396
2397     public function print_content() {
2398         global $CFG, $PAGE, $USER;
2399
2400         if ($this->action == 'add') {
2401             if (has_capability('mod/wikicode:editcomment', $this->modcontext)) {
2402                 $this->add_comment($this->content, $this->commentid);
2403             }
2404         } else if ($this->action == 'edit') {
2405             $comment = wikicode_get_comment($this->commentid);
2406             $edit = has_capability('mod/wikicode:editcomment', $this->modcontext);
2407             $owner = ($comment->userid == $USER->id);
2408             if ($owner && $edit) {
2409                 $this->add_comment($this->content, $this->commentid);
2410             }
2411         } else if ($this->action == 'delete') {
2412             $comment = wikicode_get_comment($this->commentid);
2413             $manage = has_capability('mod/wikicode:managecomment', $this->
2414                 modcontext);
2415             $owner = ($comment->userid == $USER->id);
2416             if ($owner || $manage) {
2417                 $this->delete_comment($this->commentid);
2418                 redirect($CFG->wwwroot . '/mod/wikicode/comments.php?pageid=' .
2419                     $this->page->id, get_string('deletecomment', 'wikicode'), 2);
2420             }
2421         }
2422     }
2423
2424     public function set_url() {
2425         global $PAGE, $CFG;
2426         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/comments.php', array('pageid'
2427             => $this->page->id));
2428     }

```

```

2426     public function set_action($action, $commentid, $content) {
2427         $this->action = $action;
2428         $this->commentid = $commentid;
2429         $this->content = $content;
2430
2431         $version = wikicode_get_current_version($this->page->id);
2432         $format = $version->contentformat;
2433
2434         $this->format = $format;
2435     }
2436
2437     private function add_comment($content, $idcomment) {
2438         global $CFG, $PAGE;
2439         require_once($CFG->dirroot . "/mod/wikicode/locallib.php");
2440
2441         $pageid = $this->page->id;
2442
2443         wikicode_add_comment($this->modcontext, $pageid, $content, $this->format);
2444
2445         if (!$idcomment) {
2446             redirect($CFG->wwwroot . '/mod/wikicode/comments.php?pageid=' . $pageid
2447                 , get_string('createcomment', 'wikicode'), 2);
2448         } else {
2449             $this->delete_comment($idcomment);
2450             redirect($CFG->wwwroot . '/mod/wikicode/comments.php?pageid=' . $pageid
2451                 , get_string('editingcomment', 'wikicode'), 2);
2452         }
2453     }
2454
2455     private function delete_comment($commentid) {
2456         global $CFG, $PAGE;
2457
2458         $pageid = $this->page->id;
2459
2460         wikicode_delete_comment($commentid, $this->modcontext, $pageid);
2461     }
2462
2463     class page_wikicode_lock extends page_wikicode_edit {
2464
2465         public function print_header() {
2466             $this->set_url();
2467         }
2468
2469         protected function set_url() {
2470             global $PAGE, $CFG;
2471
2472             $params = array('pageid' => $this->page->id);
2473
2474             if ($this->section) {
2475                 $params['section'] = $this->section;
2476             }
2477

```

```
2478     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/lock.php', $params);
2479 }
2480
2481 protected function set_session_url() {
2482 }
2483
2484 public function print_content() {
2485     global $USER, $PAGE;
2486
2487     require_capability('mod/wikicode:editpage', $this->modcontext, NULL, true,
2488         'noeditpermission', 'wikicode');
2489
2490     wikicode_set_lock($this->page->id, $USER->id, $this->section);
2491 }
2492
2493 public function print_footer() {
2494 }
2495
2496 class page_wikicode_overridelocks extends page_wikicode_edit {
2497     function print_header() {
2498         $this->set_url();
2499     }
2500
2501     function print_content() {
2502         global $CFG, $PAGE;
2503
2504         require_capability('mod/wikicode:overridelock', $this->modcontext, NULL,
2505             true, 'nooverridelockpermission', 'wikicode');
2506
2507         wikicode_delete_locks($this->page->id, null, $this->section, true, true);
2508
2509         $args = "pageid=" . $this->page->id;
2510
2511         if (!empty($this->section)) {
2512             $args .= "&section=" . urlencode($this->section);
2513         }
2514
2515         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?' . $args, get_string('
2516             overridinglocks', 'wikicode'), 2);
2517     }
2518
2519     function set_url() {
2520         global $PAGE, $CFG;
2521
2522         $params = array('pageid' => $this->page->id);
2523
2524         if (!empty($this->section)) {
2525             $params['section'] = $this->section;
2526         }
2527
2528         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/overridelocks.php', $params);
2529     }
2530 }
```

```

2529     protected function set_session_url() {
2530     }
2531
2532     private function print_overridelocks() {
2533         global $CFG;
2534
2535         wikicode_delete_locks($this->page->id, null, $this->section, true, true);
2536
2537         $args = "pageid=" . $this->page->id;
2538
2539         if (!empty($this->section)) {
2540             $args .= "&section=" . urlencode($this->section);
2541         }
2542
2543         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?' . $args, get_string('
                overridinglocks', 'wikicode'), 2);
2544     }
2545
2546 }
2547
2548 /**
2549  * This class will let user to delete wiki pages and page versions
2550  *
2551  */
2552 class page_wikicode_admin extends page_wikicode {
2553
2554     public $view, $action;
2555     public $listorphan = false;
2556
2557     /**
2558      * Constructor
2559      *
2560      * @global object $PAGE
2561      * @param mixed $wiki instance of wiki
2562      * @param mixed $subwiki instance of subwiki
2563      * @param stdClass $cm course module
2564      */
2565     function __construct($wiki, $subwiki, $cm) {
2566         global $PAGE;
2567         parent::__construct($wiki, $subwiki, $cm);
2568         $PAGE->requires->js_init_call('M.mod_wikicode.deleteversion', null, true);
2569     }
2570
2571     /**
2572      * Prints header for wiki page
2573      */
2574     function print_header() {
2575         parent::print_header();
2576         $this->print_pagetitle();
2577     }
2578
2579     /**
2580      * This function will display administration view to users with managewiki
                capability

```



```

2581      */
2582      function print_content() {
2583          //make sure anyone trying to access this page has managewiki capabilities
2584          require_capability('mod/wikicode:managewiki', $this->modcontext, NULL, true
                , 'noviewpagepermission', 'wikicode');
2585
2586          //update wiki cache if timedout
2587          $page = $this->page;
2588          if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
2589              $fresh = wikicode_refresh_cachedcontent($page);
2590              $page = $fresh['page'];
2591          }
2592
2593          //dispaly admin menu
2594          echo $this->wikioutput->menu_admin($this->page->id, $this->view);
2595
2596          //Display appropriate admin view
2597          switch ($this->view) {
2598              case 1: //delete page view
2599                  $this->print_delete_content($this->listorphan);
2600                  break;
2601              case 2: //delete version view
2602                  $this->print_delete_version();
2603                  break;
2604              default: //default is delete view
2605                  $this->print_delete_content($this->listorphan);
2606                  break;
2607          }
2608      }
2609
2610      /**
2611       * Sets admin view option
2612       *
2613       * @param int $view page view id
2614       * @param bool $listorphan is only valid for view 1.
2615       */
2616      public function set_view($view, $listorphan = true) {
2617          $this->view = $view;
2618          $this->listorphan = $listorphan;
2619      }
2620
2621      /**
2622       * Sets page url
2623       *
2624       * @global object $PAGE
2625       * @global object $CFG
2626       */
2627      function set_url() {
2628          global $PAGE, $CFG;
2629          $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/admin.php', array('pageid' =>
                $this->page->id));
2630      }
2631
2632      /**

```

```

2633 * sets navigation bar for the page
2634 *
2635 * @global object $PAGE
2636 */
2637 protected function create_navbar() {
2638     global $PAGE;
2639
2640     parent::create_navbar();
2641     $PAGE->navbar->add(get_string('admin', 'wikicode'));
2642 }
2643
2644 /**
2645  * Show wiki page delete options
2646  *
2647  * @param bool $showorphan
2648  */
2649 protected function print_delete_content($showorphan = true) {
2650     $contents = array();
2651     $table = new html_table();
2652     $table->head = array('', 'Page name');
2653     $table->attributes['class'] = 'generaltable mdl-align';
2654     $swid = $this->subwiki->id;
2655     if ($showorphan) {
2656         if ($orphanedpages = wikicode_get_orphaned_pages($swid)) {
2657             $this->add_page_delete_options($orphanedpages, $swid, $table);
2658         } else {
2659             $table->data[] = array('', get_string('noorphanedpages', 'wikicode'));
2660         }
2661     } else {
2662         if ($pages = wikicode_get_page_list($swid)) {
2663             $this->add_page_delete_options($pages, $swid, $table);
2664         } else {
2665             $table->data[] = array('', get_string('nopages', 'wikicode'));
2666         }
2667     }
2668
2669     ///Print the form
2670     echo html_writer::start_tag('form', array(
2671         'action' => new moodle_url('/mod/
2672             wikicode/admin.php'),
2673         'method' => 'post'));
2674     echo html_writer::tag('div', html_writer::empty_tag('input', array(
2675         'type' =>
2676             ,
2677             hidden
2678             ,
2679             'name' =>
2680             ,
2681             pageid
2682             ,
2683             'value' =>
2684             $this
2685             ->pag

```

```

->id))
);

2677
2678     echo html_writer::empty_tag('input', array('type' => 'hidden', 'name' => '
        option', 'value' => $this->view));
2679
2680     echo html_writer::table($table);
2681     echo html_writer::start_tag('div', array('class' => 'mdl-align'));
2682     if (!$showorphan) {
2683         echo html_writer::empty_tag('input', array(
2684             'type'      => 'submit',
2685             'class'     => 'wikicode_form-
                button',
2686             'value'     => get_string('
                listorphan', 'wikicode'),
2687             'sesskey'  => sesskey()));
2688     } else {
2689         echo html_writer::empty_tag('input', array('type'=>'hidden', 'name'=>'
                listall', 'value'=>'1'));
2690         echo html_writer::empty_tag('input', array(
2691             'type'      => 'submit',
2692             'class'     => 'wikicode_form-
                button',
2693             'value'     => get_string('
                listall', 'wikicode'),
2694             'sesskey'  => sesskey()));
2695     }
2696     echo html_writer::end_tag('div');
2697     echo html_writer::end_tag('form');
2698 }
2699
2700 /**
2701  * helper function for print_delete_content. This will add data to the table.
2702  *
2703  * @global object $OUTPUT
2704  * @param array $pages objects of wiki pages in subwiki
2705  * @param int $swid id of subwiki
2706  * @param object $table reference to the table in which data needs to be added
2707  */
2708 protected function add_page_delete_options($pages, $swid, &$table) {
2709     global $OUTPUT;
2710     foreach ($pages as $page) {
2711         $link = wikicode_parser_link($page->title, array('swid' => $swid));
2712         $class = ($link['new']) ? 'class="wiki_newentry"' : '';
2713         $pagelink = '<a href="' . $link['url'] . '"' . $class . '>' .
            format_string($link['content']) . '</a>';
2714         $urledit = new moodle_url('/mod/wikicode/edit.php', array('pageid' =>
            $page->id, 'sesskey' => sesskey()));
2715         $urldelete = new moodle_url('/mod/wikicode/admin.php', array(
            'pageid' =>
                $this->page
                ->id,
            'delete' =>
                $page->id,

```

```

2717         'option' =>
2718             $this->view,
2719             'listall' => !
2720                 $this->
2721                     listorphan?'
2722                     1': '',
2723             'sesskey' =>
2724                 sesskey());
2725
2726         $editlinks = $OUTPUT->action_icon($urledit, new pix_icon('t/edit',
2727             get_string('edit')));
2728         $editlinks .= $OUTPUT->action_icon($urldelete, new pix_icon('t/delete',
2729             get_string('delete')));
2730         $table->data[] = array($editlinks, $pagelink);
2731     }
2732 }
2733
2734 /**
2735  * Prints lists of versions which can be deleted
2736  *
2737  * @global object $OUTPUT
2738  */
2739 private function print_delete_version() {
2740     global $OUTPUT;
2741     $pageid = $this->page->id;
2742
2743     // versioncount is the latest version
2744     $versioncount = wikicode_count_wikicode_page_versions($pageid) - 1;
2745     $versions = wikicode_get_wikicode_page_versions($pageid, 0, $versioncount);
2746
2747     // We don't want version 0 to be displayed
2748     // version 0 is blank page
2749     if (end($versions)->version == 0) {
2750         array_pop($versions);
2751     }
2752
2753     $contents = array();
2754     $version0page = wikicode_get_wikicode_page_version($this->page->id, 0);
2755     $creator = wikicode_get_user_info($version0page->userid);
2756     $a = new stdClass();
2757     $a->date = userdate($this->page->timecreated, get_string('
2758         strftimedaydatetime', 'langconfig'));
2759     $a->username = fullname($creator);
2760     echo $OUTPUT->heading(get_string('createddate', 'wikicode', $a), 4, '
2761         wikicode_headingtime');
2762     if ($versioncount > 0) {
2763         /// If there is only one version, we don't need radios nor forms
2764         if (count($versions) == 1) {
2765             $row = array_shift($versions);
2766             $username = wikicode_get_user_info($row->userid);
2767             $picture = $OUTPUT->user_picture($username);
2768             $date = userdate($row->timecreated, get_string('strftimedate', '
2769                 langconfig'));

```

```

2760         $time = userdate($row->timecreated, get_string('strftimetime', '
           langconfig'));
2761         $versionid = wikicode_get_version($row->id);
2762         $versionlink = new moodle_url('/mod/wikicode/viewversion.php',
           array('pageid' => $pageid, 'versionid' => $versionid->id));
2763         $userlink = new moodle_url('/user/view.php', array('id' =>
           $username->id));
2764         $picturelink = $picture . html_writer::link($userlink->out(false),
           fullname($username));
2765         $historydate = $OUTPUT->container($date, 'wikicode_histdate');
2766         $contents[] = array('', html_writer::link($versionlink->out(false),
           $row->version), $picturelink, $time, $historydate);
2767
2768         //Show current version
2769         $table = new html_table();
2770         $table->head = array('', get_string('version'), get_string('user'),
           get_string('modified'), '');
2771         $table->data = $contents;
2772         $table->attributes['class'] = 'mdl-align';
2773
2774         echo html_writer::table($table);
2775     } else {
2776         $lastdate = '';
2777         $rowclass = array();
2778
2779         foreach ($versions as $version) {
2780             $user = wikicode_get_user_info($version->userid);
2781             $picture = $OUTPUT->user_picture($user, array('popup' => true))
                ;
2782             $date = userdate($version->timecreated, get_string('
               strftimedate'));
2783             if ($date == $lastdate) {
2784                 $date = '';
2785                 $rowclass[] = '';
2786             } else {
2787                 $lastdate = $date;
2788                 $rowclass[] = 'wikicode_histnewdate';
2789             }
2790
2791             $time = userdate($version->timecreated, get_string('
               strftimetime', 'langconfig'));
2792             $versionid = wikicode_get_version($version->id);
2793             if ($versionid) {
2794                 $url = new moodle_url('/mod/wikicode/viewversion.php',
                   array('pageid' => $pageid, 'versionid' => $versionid->
                     id));
2795                 $viewlink = html_writer::link($url->out(false), $version->
                   version);
2796             } else {
2797                 $viewlink = $version->version;
2798             }
2799
2800             $userlink = new moodle_url('/user/view.php', array('id' =>
               $version->userid));

```

```

2801         $picturelink = $picture . html_writer::link($userlink->out(
2802             false), fullname($user));
2803         $historydate = $OUTPUT->container($date, 'wikicode_histdate');
2804         $radiofromelement = $this->choose_from_radio(array($version->
2805             version => null), 'fromversion', 'M.mod_wikicode.
2806             deleteversion()', $versioncount, true);
2807         $radiotoelement = $this->choose_from_radio(array($version->
2808             version => null), 'toversion', 'M.mod_wikicode.
2809             deleteversion()', $versioncount, true);
2810         $contents[] = array( $radiofromelement . $radiotoelement,
2811             $viewlink, $picturelink, $time, $historydate);
2812     }
2813
2814     $table = new html_table();
2815     $table->head = array(get_string('deleteversions', 'wikicode'),
2816         get_string('version'), get_string('user'), get_string('modified
2817         '), '');
2818     $table->data = $contents;
2819     $table->attributes['class'] = 'generaltable mdl-align';
2820     $table->rowclasses = $rowclass;
2821
2822     ///Print the form
2823     echo html_writer::start_tag('form', array('action'=>new moodle_url(
2824         '/mod/wikicode/admin.php'), 'method' => 'post'));
2825     echo html_writer::tag('div', html_writer::empty_tag('input', array(
2826         'type' => 'hidden', 'name' => 'pageid', 'value' => $pageid)));
2827     echo html_writer::empty_tag('input', array('type' => 'hidden', '
2828         name' => 'option', 'value' => $this->view));
2829     echo html_writer::empty_tag('input', array('type' => 'hidden', '
2830         name' => 'sesskey', 'value' => sesskey()));
2831     echo html_writer::table($table);
2832     echo html_writer::start_tag('div', array('class' => 'mdl-align'));
2833     echo html_writer::empty_tag('input', array('type' => 'submit', '
2834         class' => 'wikicode_form-button', 'value' => get_string('
2835         deleteversions', 'wikicode')));
2836     echo html_writer::end_tag('div');
2837     echo html_writer::end_tag('form');
2838 }
2839
2840 } else {
2841     print_string('nohistory', 'wikicode');
2842 }
2843 }
2844
2845 /**
2846  * Given an array of values, creates a group of radio buttons to be part of a
2847  * form
2848  * helper function for print_delete_version
2849  *
2850  * @param array $options An array of value-label pairs for the radio group (
2851  *     values as keys).
2852  * @param string $name Name of the radiogroup (unique in the form).
2853  * @param string $onclick Function to be executed when the radios are clicked.
2854  * @param string $checked The value that is already checked.

```

```

2838     * @param bool    $return    If true, return the HTML as a string, otherwise
2839     *                print it.
2840     * @return mixed If $return is false, returns nothing, otherwise returns a
2841     *                string of HTML.
2842     */
2843     private function choose_from_radio($options, $name, $onclick = '', $checked = '
2844     ', $return = false) {
2845
2846         static $idcounter = 0;
2847
2848         if (!$name) {
2849             $name = 'unnamed';
2850         }
2851
2852         $output = '<span class="radiogroup ' . $name . "\">\n";
2853
2854         if (!empty($options)) {
2855             $currentradio = 0;
2856             foreach ($options as $value => $label) {
2857                 $htmlid = 'auto-rb' . sprintf('%04d', ++$idcounter);
2858                 $output .= ' <span class="radioelement ' . $name . ' rb' .
2859                     $currentradio . "\">";
2860                 $output .= '<input name="' . $name . '" id="' . $htmlid . '" type="
2861                     radio" value="' . $value . '"';
2862                 if ($value == $checked) {
2863                     $output .= ' checked="checked"';
2864                 }
2865                 if ($onclick) {
2866                     $output .= ' onclick="' . $onclick . '"';
2867                 }
2868                 if ($label == '') {
2869                     $output .= ' /> <label for="' . $htmlid . '">' . $value . '</
2870                         label></span>' . "\n";
2871                 } else {
2872                     $output .= ' /> <label for="' . $htmlid . '">' . $label . '</
2873                         label></span>' . "\n";
2874                 }
2875                 $currentradio = ($currentradio + 1) % 2;
2876             }
2877         }
2878
2879         $output .= '</span>' . "\n";
2880
2881         if ($return) {
2882             return $output;
2883         } else {
2884             echo $output;
2885         }
2886     }
2887 }
2888
2889 /* @copyright 2009 David Mudrak <david.mudrak@gmail.com>
2890 * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later

```

```

2885  * @since Moodle 2.0
2886  * @package core
2887  * @category output
2888  */
2889  class html_table {
2890
2891      /**
2892       * @var string Value to use for the id attribute of the table
2893       */
2894      public $id = null;
2895
2896      /**
2897       * @var array Attributes of HTML attributes for the <table> element
2898       */
2899      public $attributes = array();
2900
2901      /**
2902       * @var array An array of headings. The n-th array item is used as a heading of
2903       *           the n-th column.
2904       * For more control over the rendering of the headers, an array of
2905       *           html_table_cell objects
2906       * can be passed instead of an array of strings.
2907       *
2908       * Example of usage:
2909       * $t->head = array('Student', 'Grade');
2910       */
2911      public $head;
2912
2913      /**
2914       * @var array An array that can be used to make a heading span multiple columns
2915       *
2916       * In this example, {@link html_table::$data} is supposed to have three columns.
2917       * For the first two columns,
2918       * the same heading is used. Therefore, {@link html_table::$head} should
2919       * consist of two items.
2920       *
2921       * Example of usage:
2922       * $t->headspan = array(2,1);
2923       */
2924      public $headspan;
2925
2926      /**
2927       * @var array An array of column alignments.
2928       * The value is used as CSS 'text-align' property. Therefore, possible
2929       * values are 'left', 'right', 'center' and 'justify'. Specify 'right' or 'left
2930       * ' from the perspective
2931       * of a left-to-right (LTR) language. For RTL, the values are flipped
2932       * automatically.
2933       *
2934       * Examples of usage:
2935       * $t->align = array(null, 'right');
2936       * or
2937       * $t->align[1] = 'right';
2938       */

```



```

2932     public $align;
2933
2934     /**
2935      * @var array The value is used as CSS 'size' property.
2936      *
2937      * Examples of usage:
2938      * $t->size = array('50%', '50%');
2939      * or
2940      * $t->size[1] = '120px';
2941      */
2942     public $size;
2943
2944     /**
2945      * @var array An array of wrapping information.
2946      * The only possible value is 'nowrap' that sets the
2947      * CSS property 'white-space' to the value 'nowrap' in the given column.
2948      *
2949      * Example of usage:
2950      * $t->wrap = array(null, 'nowrap');
2951      */
2952     public $wrap;
2953
2954     /**
2955      * @var array Array of arrays or html_table_row objects containing the data.
2956      * Alternatively, if you have
2957      * $head specified, the string 'hr' (for horizontal ruler) can be used
2958      * instead of an array of cells data resulting in a divider rendered.
2959      *
2960      * Example of usage with array of arrays:
2961      * $row1 = array('Harry Potter', '76 %');
2962      * $row2 = array('Hermione Granger', '100 %');
2963      * $t->data = array($row1, $row2);
2964      *
2965      * Example with array of html_table_row objects: (used for more fine-grained
2966      * control)
2967      * $cell1 = new html_table_cell();
2968      * $cell1->text = 'Harry Potter';
2969      * $cell1->colspan = 2;
2970      * $row1 = new html_table_row();
2971      * $row1->cells[] = $cell1;
2972      * $cell2 = new html_table_cell();
2973      * $cell2->text = 'Hermione Granger';
2974      * $cell3 = new html_table_cell();
2975      * $cell3->text = '100 %';
2976      * $row2 = new html_table_row();
2977      * $row2->cells = array($cell2, $cell3);
2978      * $t->data = array($row1, $row2);
2979      */
2980     public $data;
2981
2982     /**
2983      * @deprecated since Moodle 2.0. Styling should be in the CSS.
2984      * @var string Width of the table, percentage of the page preferred.
2985      */

```

```

2984     public $width = null;
2985
2986     /**
2987      * @deprecated since Moodle 2.0. Styling should be in the CSS.
2988      * @var string Alignment for the whole table. Can be 'right', 'left' or 'center'
2989      *         (default).
2990      */
2991     public $tablealign = null;
2992
2993     /**
2994      * @deprecated since Moodle 2.0. Styling should be in the CSS.
2995      * @var int Padding on each cell, in pixels
2996      */
2997     public $cellpadding = null;
2998
2999     /**
3000      * @var int Spacing between cells, in pixels
3001      * @deprecated since Moodle 2.0. Styling should be in the CSS.
3002      */
3003     public $cellspacing = null;
3004
3005     /**
3006      * @var array Array of classes to add to particular rows, space-separated
3007      *         string.
3008      * Classes 'r0' or 'r1' are added automatically for every odd or even row,
3009      * respectively. Class 'lastrow' is added automatically for the last row
3010      * in the table.
3011      *
3012      * Example of usage:
3013      * $t->rowclasses[9] = 'tenth'
3014      */
3015     public $rowclasses;
3016
3017     /**
3018      * @var array An array of classes to add to every cell in a particular column,
3019      *         space-separated string. Class 'cell' is added automatically by the renderer.
3020      * Classes 'c0' or 'c1' are added automatically for every odd or even column,
3021      * respectively. Class 'lastcol' is added automatically for all last cells
3022      * in a row.
3023      *
3024      * Example of usage:
3025      * $t->colclasses = array(null, 'grade');
3026      */
3027     public $colclasses;
3028
3029     /**
3030      * @var string Description of the contents for screen readers.
3031      */
3032     public $summary;
3033
3034     /**
3035      * Constructor
3036      */
3037     public function __construct() {

```

```

3036         $this->attributes['class'] = '';
3037     }
3038 }
3039
3040 /**
3041  * Simple html output class
3042  *
3043  * @copyright 2009 Tim Hunt, 2010 Petr Skoda
3044  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
3045  * @since Moodle 2.0
3046  * @package core
3047  * @category output
3048  */
3049 class html_writer {
3050
3051     /**
3052      * Outputs a tag with attributes and contents
3053      *
3054      * @param string $tagname The name of tag ('a', 'img', 'span' etc.)
3055      * @param string $contents What goes between the opening and closing tags
3056      * @param array $attributes The tag attributes (array('src' => $url, 'class' =>
3057          'class1') etc.)
3058      * @return string HTML fragment
3059      */
3060     public static function tag($tagname, $contents, array $attributes = null) {
3061         return self::start_tag($tagname, $attributes) . $contents . self::end_tag(
3062             $tagname);
3063     }
3064
3065     /**
3066      * Outputs an opening tag with attributes
3067      *
3068      * @param string $tagname The name of tag ('a', 'img', 'span' etc.)
3069      * @param array $attributes The tag attributes (array('src' => $url, 'class' =>
3070          'class1') etc.)
3071      * @return string HTML fragment
3072      */
3073     public static function start_tag($tagname, array $attributes = null) {
3074         return '<' . $tagname . self::attributes($attributes) . '>';
3075     }
3076
3077     /**
3078      * Outputs a closing tag
3079      *
3080      * @param string $tagname The name of tag ('a', 'img', 'span' etc.)
3081      * @return string HTML fragment
3082      */
3083     public static function end_tag($tagname) {
3084         return '</' . $tagname . '>';
3085     }
3086
3087     /**
3088      * Outputs an empty tag with attributes
3089      *

```

```

3087     * @param string $tagname The name of tag ('input', 'img', 'br' etc.)
3088     * @param array $attributes The tag attributes (array('src' => $url, 'class' =>
        'class1') etc.)
3089     * @return string HTML fragment
3090     */
3091     public static function empty_tag($tagname, array $attributes = null) {
3092         return '<' . $tagname . self::attributes($attributes) . ' />';
3093     }
3094
3095     /**
3096     * Outputs a tag, but only if the contents are not empty
3097     *
3098     * @param string $tagname The name of tag ('a', 'img', 'span' etc.)
3099     * @param string $contents What goes between the opening and closing tags
3100     * @param array $attributes The tag attributes (array('src' => $url, 'class' =>
        'class1') etc.)
3101     * @return string HTML fragment
3102     */
3103     public static function nonempty_tag($tagname, $contents, array $attributes =
        null) {
3104         if ($contents === '' || is_null($contents)) {
3105             return '';
3106         }
3107         return self::tag($tagname, $contents, $attributes);
3108     }
3109
3110     /**
3111     * Outputs a HTML attribute and value
3112     *
3113     * @param string $name The name of the attribute ('src', 'href', 'class' etc.)
3114     * @param string $value The value of the attribute. The value will be escaped
        with {@link s()}
3115     * @return string HTML fragment
3116     */
3117     public static function attribute($name, $value) {
3118         if (is_array($value)) {
3119             debugging("Passed an array for the HTML attribute $name",
                DEBUG_DEVELOPER);
3120         }
3121         if ($value instanceof moodle_url) {
3122             return ' ' . $name . '=' . $value->out() . ' ';
3123         }
3124
3125         // special case, we do not want these in output
3126         if ($value === null) {
3127             return '';
3128         }
3129
3130         // no sloppy trimming here!
3131         return ' ' . $name . '=' . s($value) . ' ';
3132     }
3133
3134     /**
3135     * Outputs a list of HTML attributes and values

```

```

3136      *
3137      * @param array $attributes The tag attributes (array('src' => $url, 'class' =>
        'class1') etc.)
3138      *      The values will be escaped with {@link s()}
3139      * @return string HTML fragment
3140      */
3141      public static function attributes(array $attributes = null) {
3142          $attributes = (array)$attributes;
3143          $output = '';
3144          foreach ($attributes as $name => $value) {
3145              $output .= self::attribute($name, $value);
3146          }
3147          return $output;
3148      }
3149
3150      /**
3151       * Generates random html element id.
3152       *
3153       * @staticvar int $counter
3154       * @staticvar type $uniq
3155       * @param string $base A string fragment that will be included in the random ID
        .
3156       * @return string A unique ID
3157       */
3158      public static function random_id($base='random') {
3159          static $counter = 0;
3160          static $uniq;
3161
3162          if (!isset($uniq)) {
3163              $uniq = uniqid();
3164          }
3165
3166          $counter++;
3167          return $base.$uniq.$counter;
3168      }
3169
3170      /**
3171       * Generates a simple html link
3172       *
3173       * @param string|moodle_url $url The URL
3174       * @param string $text The text
3175       * @param array $attributes HTML attributes
3176       * @return string HTML fragment
3177       */
3178      public static function link($url, $text, array $attributes = null) {
3179          $attributes = (array)$attributes;
3180          $attributes['href'] = $url;
3181          return self::tag('a', $text, $attributes);
3182      }
3183
3184      /**
3185       * Generates a simple checkbox with optional label
3186       *
3187       * @param string $name The name of the checkbox

```

```

3188     * @param string $value The value of the checkbox
3189     * @param bool $checked Whether the checkbox is checked
3190     * @param string $label The label for the checkbox
3191     * @param array $attributes Any attributes to apply to the checkbox
3192     * @return string html fragment
3193     */
3194     public static function checkbox($name, $value, $checked = true, $label = '',
3195         array $attributes = null) {
3196         $attributes = (array)$attributes;
3197         $output = '';
3198
3199         if ($label !== '' and !is_null($label)) {
3200             if (empty($attributes['id'])) {
3201                 $attributes['id'] = self::random_id('checkbox_');
3202             }
3203             $attributes['type'] = 'checkbox';
3204             $attributes['value'] = $value;
3205             $attributes['name'] = $name;
3206             $attributes['checked'] = $checked ? 'checked' : null;
3207
3208             $output .= self::empty_tag('input', $attributes);
3209
3210             if ($label !== '' and !is_null($label)) {
3211                 $output .= self::tag('label', $label, array('for'=>$attributes['id']));
3212             }
3213
3214             return $output;
3215         }
3216
3217     /**
3218      * Generates a simple select yes/no form field
3219      *
3220      * @param string $name name of select element
3221      * @param bool $selected
3222      * @param array $attributes - html select element attributes
3223      * @return string HTML fragment
3224      */
3225     public static function select_yes_no($name, $selected=true, array $attributes =
3226         null) {
3227         $options = array('1'=>get_string('yes'), '0'=>get_string('no'));
3228         return self::select($options, $name, $selected, null, $attributes);
3229     }
3230
3231     /**
3232      * Generates a simple select form field
3233      *
3234      * @param array $options associative array value=>label ex.:
3235      *             array(1=>'One', 2=>'Two')
3236      *             it is also possible to specify optgroup as complex label array
3237      *             ex.:
3238      *             array(array('Odd'=>array(1=>'One', 3=>'Three')), array('Even
3239      *             '=>array(2=>'Two'))))

```

```

3237 *             array(1=>'One', '--1uniquekey'=>array('More'=>array(2=>'Two',
3238 *             3=>'Three'))))
3239 * @param string $name name of select element
3240 * @param string|array $selected value or array of values depending on multiple
3241 *             attribute
3242 * @param array|bool $nothing add nothing selected option, or false of not
3243 *             added
3244 * @param array $attributes html select element attributes
3245 * @return string HTML fragment
3246 */
3247 public static function select(array $options, $name, $selected = '', $nothing =
3248 *             array('' => 'choosedots'), array $attributes = null) {
3249 *             $attributes = (array)$attributes;
3250 *             if (is_array($nothing)) {
3251 *                 foreach ($nothing as $k=>$v) {
3252 *                     if ($v === 'choose' or $v === 'choosedots') {
3253 *                         $nothing[$k] = get_string('choosedots');
3254 *                     }
3255 *                 }
3256 *                 $options = $nothing + $options; // keep keys, do not override
3257 *             }
3258 *             } else if (is_string($nothing) and $nothing !== '') {
3259 *                 // BC
3260 *                 $options = array(''=>$nothing) + $options;
3261 *             }
3262 *             // we may accept more values if multiple attribute specified
3263 *             $selected = (array)$selected;
3264 *             foreach ($selected as $k=>$v) {
3265 *                 $selected[$k] = (string)$v;
3266 *             }
3267 *             if (!isset($attributes['id'])) {
3268 *                 $id = 'menu' . $name;
3269 *                 // name may contain [], which would make an invalid id. e.g. numeric
3270 *                 // question type editing form, assignment quickgrading
3271 *                 $id = str_replace('[', '', $id);
3272 *                 $id = str_replace(']', '', $id);
3273 *                 $attributes['id'] = $id;
3274 *             }
3275 *             if (!isset($attributes['class'])) {
3276 *                 $class = 'menu' . $name;
3277 *                 // name may contain [], which would make an invalid class. e.g.
3278 *                 // numeric question type editing form, assignment quickgrading
3279 *                 $class = str_replace('[', '', $class);
3280 *                 $class = str_replace(']', '', $class);
3281 *                 $attributes['class'] = $class;
3282 *             }
3283 *             $attributes['class'] = 'select ' . $attributes['class']; // Add 'select'
3284 *             selector always
3285 *             $attributes['name'] = $name;

```

```

3284         if (!empty($attributes['disabled'])) {
3285             $attributes['disabled'] = 'disabled';
3286         } else {
3287             unset($attributes['disabled']);
3288         }
3289
3290         $output = '';
3291         foreach ($options as $value=>$label) {
3292             if (is_array($label)) {
3293                 // ignore key, it just has to be unique
3294                 $output .= self::select_optgroup(key($label), current($label),
3295                     $selected);
3296             } else {
3297                 $output .= self::select_option($label, $value, $selected);
3298             }
3299         }
3300         return self::tag('select', $output, $attributes);
3301     }
3302
3303     /**
3304      * Returns HTML to display a select box option.
3305      *
3306      * @param string $label The label to display as the option.
3307      * @param string|int $value The value the option represents
3308      * @param array $selected An array of selected options
3309      * @return string HTML fragment
3310      */
3311     private static function select_option($label, $value, array $selected) {
3312         $attributes = array();
3313         $value = (string)$value;
3314         if (in_array($value, $selected, true)) {
3315             $attributes['selected'] = 'selected';
3316         }
3317         $attributes['value'] = $value;
3318         return self::tag('option', $label, $attributes);
3319     }
3320
3321     /**
3322      * Returns HTML to display a select box option group.
3323      *
3324      * @param string $groupname The label to use for the group
3325      * @param array $options The options in the group
3326      * @param array $selected An array of selected values.
3327      * @return string HTML fragment.
3328      */
3329     private static function select_optgroup($groupname, $options, array $selected)
3330     {
3331         if (empty($options)) {
3332             return '';
3333         }
3334         $attributes = array('label'=>$groupname);
3335         $output = '';
3336         foreach ($options as $value=>$label) {
3337             $output .= self::select_option($label, $value, $selected);

```



```

3336     }
3337     return self::tag('optgroup', $output, $attributes);
3338 }
3339
3340 /**
3341  * This is a shortcut for making an hour selector menu.
3342  *
3343  * @param string $type The type of selector (years, months, days, hours,
3344     minutes)
3345  * @param string $name fieldname
3346  * @param int $currenttime A default timestamp in GMT
3347  * @param int $step minute spacing
3348  * @param array $attributes - html select element attributes
3349  * @return HTML fragment
3350 */
3351 public static function select_time($type, $name, $currenttime = 0, $step = 5,
3352     array $attributes = null) {
3353     if (!$currenttime) {
3354         $currenttime = time();
3355     }
3356     $currentdate = usergetdate($currenttime);
3357     $userdatetype = $type;
3358     $timeunits = array();
3359
3360     switch ($type) {
3361         case 'years':
3362             for ($i=1970; $i<=2020; $i++) {
3363                 $timeunits[$i] = $i;
3364             }
3365             $userdatetype = 'year';
3366             break;
3367         case 'months':
3368             for ($i=1; $i<=12; $i++) {
3369                 $timeunits[$i] = userdate(gmmktime(12,0,0,$i,15,2000), "%B");
3370             }
3371             $userdatetype = 'month';
3372             $currentdate['month'] = (int)$currentdate['mon'];
3373             break;
3374         case 'days':
3375             for ($i=1; $i<=31; $i++) {
3376                 $timeunits[$i] = $i;
3377             }
3378             $userdatetype = 'mday';
3379             break;
3380         case 'hours':
3381             for ($i=0; $i<=23; $i++) {
3382                 $timeunits[$i] = sprintf("%02d",$i);
3383             }
3384             break;
3385         case 'minutes':
3386             if ($step != 1) {
3387                 $currentdate['minutes'] = ceil($currentdate['minutes']/$step)*
3388                     $step;
3389             }

```

```

3387         for ($i=0; $i<=59; $i+=$step) {
3388             $timeunits[$i] = sprintf("%02d",$i);
3389         }
3390         break;
3391     default:
3392         throw new coding_exception("Time type $type is not supported by
3393             html_writer::select_time().");
3394     }
3395
3396     if (empty($attributes['id'])) {
3397         $attributes['id'] = self::random_id('ts_');
3398     }
3399     $timerselector = self::select($timeunits, $name, $currentdate[$userdatetype
3400         ], null, array('id'=>$attributes['id']));
3401     $label = self::tag('label', get_string(substr($type, 0, -1), 'form'), array
3402         ('for'=>$attributes['id'], 'class'=>'accessshide'));
3403
3404     return $label.$timerselector;
3405 }
3406
3407 /**
3408  * Shortcut for quick making of lists
3409  *
3410  * Note: 'list' is a reserved keyword ;-)
3411  *
3412  * @param array $items
3413  * @param array $attributes
3414  * @param string $tag ul or ol
3415  * @return string
3416  */
3417 public static function alist(array $items, array $attributes = null, $tag = 'ul
3418 ') {
3419     $output = '';
3420
3421     foreach ($items as $item) {
3422         $output .= html_writer::start_tag('li') . "\n";
3423         $output .= $item . "\n";
3424         $output .= html_writer::end_tag('li') . "\n";
3425     }
3426
3427     return html_writer::tag($tag, $output, $attributes);
3428 }
3429
3430 /**
3431  * Returns hidden input fields created from url parameters.
3432  *
3433  * @param moodle_url $url
3434  * @param array $exclude list of excluded parameters
3435  * @return string HTML fragment
3436  */
3437 public static function input_hidden_params(moodle_url $url, array $exclude =
3438     null) {
3439     $exclude = (array)$exclude;

```

```

3436     $params = $url->params();
3437     foreach ($exclude as $key) {
3438         unset($params[$key]);
3439     }
3440
3441     $output = '';
3442     foreach ($params as $key => $value) {
3443         $attributes = array('type'=>'hidden', 'name'=>$key, 'value'=>$value);
3444         $output .= self::empty_tag('input', $attributes)."\n";
3445     }
3446     return $output;
3447 }
3448
3449 /**
3450  * Generate a script tag containing the the specified code.
3451  *
3452  * @param string $jscode the JavaScript code
3453  * @param moodle_url|string $url optional url of the external script, $code
3454  *   ignored if specified
3455  * @return string HTML, the code wrapped in <script> tags.
3456  */
3457 public static function script($jscode, $url=null) {
3458     if ($jscode) {
3459         $attributes = array('type'=>'text/javascript');
3460         return self::tag('script', "\n//\n$jscode\n//]]&gt;\n",
3461             $attributes) . "\n";
3462     } else if ($url) {
3463         $attributes = array('type'=&gt;'text/javascript', 'src'=&gt;$url);
3464         return self::tag('script', '', $attributes) . "\n";
3465     } else {
3466         return '';
3467     }
3468 }
3469
3470 /**
3471  * Renders HTML table
3472  *
3473  * This method may modify the passed instance by adding some default properties
3474  * if they are not set yet.
3475  * If this is not what you want, you should make a full clone of your data
3476  * before passing them to this
3477  * method. In most cases this is not an issue at all so we do not clone by
3478  * default for performance
3479  * and memory consumption reasons.
3480  *
3481  * @param html_table $table data to be rendered
3482  * @return string HTML code
3483  */
3484 public static function table(html_table $table) {
3485     // prepare table data and populate missing properties with reasonable
3486     defaults
</pre>
</div>
```

```

3484     if (!empty($table->align)) {
3485         foreach ($table->align as $key => $aa) {
3486             if ($aa) {
3487                 $table->align[$key] = 'text-align:'. fix_align_rtl($aa) .';';
3488                 // Fix for RTL languages
3489             } else {
3490                 $table->align[$key] = null;
3491             }
3492         }
3493     }
3494     if (!empty($table->size)) {
3495         foreach ($table->size as $key => $ss) {
3496             if ($ss) {
3497                 $table->size[$key] = 'width:'. $ss .';';
3498             } else {
3499                 $table->size[$key] = null;
3500             }
3501         }
3502     }
3503     if (!empty($table->wrap)) {
3504         foreach ($table->wrap as $key => $ww) {
3505             if ($ww) {
3506                 $table->wrap[$key] = 'white-space:nowrap;';
3507             } else {
3508                 $table->wrap[$key] = '';
3509             }
3510         }
3511     }
3512     if (!empty($table->head)) {
3513         foreach ($table->head as $key => $val) {
3514             if (!isset($table->align[$key])) {
3515                 $table->align[$key] = null;
3516             }
3517             if (!isset($table->size[$key])) {
3518                 $table->size[$key] = null;
3519             }
3520             if (!isset($table->wrap[$key])) {
3521                 $table->wrap[$key] = null;
3522             }
3523         }
3524     }
3525     if (empty($table->attributes['class'])) {
3526         $table->attributes['class'] = 'generaltable';
3527     }
3528     if (!empty($table->tablealign)) {
3529         $table->attributes['class'] .= ' boxalign' . $table->tablealign;
3530     }
3531
3532     // explicitly assigned properties override those defined via $table->
    attributes
3533     $table->attributes['class'] = trim($table->attributes['class']);
3534     $attributes = array_merge($table->attributes, array(
3535         'id' => $table->id,

```

```

3536         'width'           => $table->width,
3537         'summary'        => $table->summary,
3538         'cellpadding'     => $table->cellpadding,
3539         'cellspacing'     => $table->cellspacing,
3540     ));
3541     $output = html_writer::start_tag('table', $attributes) . "\n";
3542
3543     $countcols = 0;
3544
3545     if (!empty($table->head)) {
3546         $countcols = count($table->head);
3547
3548         $output .= html_writer::start_tag('thead', array()) . "\n";
3549         $output .= html_writer::start_tag('tr', array()) . "\n";
3550         $keys = array_keys($table->head);
3551         $lastkey = end($keys);
3552
3553         foreach ($table->head as $key => $heading) {
3554             // Convert plain string headings into html_table_cell objects
3555             if (!$heading instanceof html_table_cell) {
3556                 $headingtext = $heading;
3557                 $heading = new html_table_cell();
3558                 $heading->text = $headingtext;
3559                 $heading->header = true;
3560             }
3561
3562             if ($heading->header !== false) {
3563                 $heading->header = true;
3564             }
3565
3566             if ($heading->header && empty($heading->scope)) {
3567                 $heading->scope = 'col';
3568             }
3569
3570             $heading->attributes['class'] .= ' header c' . $key;
3571             if (isset($table->headspan[$key]) && $table->headspan[$key] > 1) {
3572                 $heading->colspan = $table->headspan[$key];
3573                 $countcols += $table->headspan[$key] - 1;
3574             }
3575
3576             if ($key == $lastkey) {
3577                 $heading->attributes['class'] .= ' lastcol';
3578             }
3579             if (isset($table->colclasses[$key])) {
3580                 $heading->attributes['class'] .= ' ' . $table->colclasses[$key];
3581             }
3582             $heading->attributes['class'] = trim($heading->attributes['class']);
3583
3584             $attributes = array_merge($heading->attributes, array(
3585                 'style'           => $table->align[$key] . $table->size[$key] .
3586                                     $heading->style,
3587                 'scope'           => $heading->scope,
3588                 'colspan'         => $heading->colspan,

```

```

3587         ));
3588
3589         $tagtype = 'td';
3590         if ($heading->header === true) {
3591             $tagtype = 'th';
3592         }
3593         $output .= html_writer::tag($tagtype, $heading->text, $attributes)
3594             . "\n";
3595     }
3596     $output .= html_writer::end_tag('tr') . "\n";
3597     $output .= html_writer::end_tag('thead') . "\n";
3598
3599     if (empty($table->data)) {
3600         // For valid XHTML strict every table must contain either a valid
3601         // tr
3602         // or a valid tbody... both of which must contain a valid td
3603         $output .= html_writer::start_tag('tbody', array('class' => 'empty'
3604             ));
3605         $output .= html_writer::tag('tr', html_writer::tag('td', '', array(
3606             'colspan'=>count($table->head))));
3607         $output .= html_writer::end_tag('tbody');
3608     }
3609
3610     if (!empty($table->data)) {
3611         $oddeven = 1;
3612         $keys = array_keys($table->data);
3613         $lastrowkey = end($keys);
3614         $output .= html_writer::start_tag('tbody', array());
3615
3616         foreach ($table->data as $key => $row) {
3617             if (($row === 'hr') && ($countcols)) {
3618                 $output .= html_writer::tag('td', html_writer::tag('div', '',
3619                     array('class' => 'tabledivider')), array('colspan' =>
3620                         $countcols));
3621             } else {
3622                 // Convert array rows to html_table_rows and cell strings to
3623                 // html_table_cell objects
3624                 if (!($row instanceof html_table_row)) {
3625                     $newrow = new html_table_row();
3626
3627                     foreach ($row as $cell) {
3628                         if (!($cell instanceof html_table_cell)) {
3629                             $cell = new html_table_cell($cell);
3630                         }
3631                     }
3632                     $newrow->cells[] = $cell;
3633                 }
3634                 $row = $newrow;
3635             }
3636
3637             $oddeven = $oddeven ? 0 : 1;
3638             if (isset($table->rowclasses[$key])) {
3639                 $row->attributes['class'] .= ' ' . $table->rowclasses[$key]
3640                     ];
3641             }
3642         }
3643     }

```

```

3633     }
3634
3635     $row->attributes['class'] .= ' r' . $oddeven;
3636     if ($key == $lastrowkey) {
3637         $row->attributes['class'] .= ' lastrow';
3638     }
3639
3640     $output .= html_writer::start_tag('tr', array('class' => trim(
3641         $row->attributes['class']), 'style' => $row->style, 'id' =>
3642         $row->id)) . "\n";
3643
3644     $keys2 = array_keys($row->cells);
3645     $lastkey = end($keys2);
3646
3647     $gotlastkey = false; //flag for sanity checking
3648     foreach ($row->cells as $key => $cell) {
3649         if ($gotlastkey) {
3650             //This should never happen. Why do we have a cell after
3651             //the last cell?
3652             mtrace("A cell with key ($key) was found after the last
3653                 key ($lastkey)");
3654         }
3655
3656         if (!$cell instanceof html_table_cell) {
3657             $mycell = new html_table_cell();
3658             $mycell->text = $cell;
3659             $cell = $mycell;
3660         }
3661
3662         if (($cell->header === true) && empty($cell->scope)) {
3663             $cell->scope = 'row';
3664         }
3665
3666         if (isset($table->colclasses[$key])) {
3667             $cell->attributes['class'] .= ' ' . $table->colclasses[
3668                 $key];
3669         }
3670
3671         $cell->attributes['class'] .= ' cell c' . $key;
3672         if ($key == $lastkey) {
3673             $cell->attributes['class'] .= ' lastcol';
3674             $gotlastkey = true;
3675         }
3676
3677         $tdstyle = '';
3678         $tdstyle .= isset($table->align[$key]) ? $table->align[$key]
3679             : '';
3680         $tdstyle .= isset($table->size[$key]) ? $table->size[$key]
3681             : '';
3682         $tdstyle .= isset($table->wrap[$key]) ? $table->wrap[$key]
3683             : '';
3684         $cell->attributes['class'] = trim($cell->attributes['class']
3685             );
3686         $tdattributes = array_merge($cell->attributes, array(
3687             'style' => $tdstyle . $cell->style,
3688             'colspan' => $cell->colspan,

```

```

3678         'rowspan' => $cell->rowspan,
3679         'id' => $cell->id,
3680         'abbr' => $cell->abbr,
3681         'scope' => $cell->scope,
3682     ));
3683     $tagtype = 'td';
3684     if ($cell->header == true) {
3685         $tagtype = 'th';
3686     }
3687     $output .= html_writer::tag($tagtype, $cell->text,
3688                               $tdattributes) . "\n";
3689 }
3690 $output .= html_writer::end_tag('tr') . "\n";
3691 }
3692 $output .= html_writer::end_tag('tbody') . "\n";
3693 }
3694 $output .= html_writer::end_tag('table') . "\n";
3695
3696 return $output;
3697 }
3698
3699 /**
3700  * Renders form element label
3701  *
3702  * By default, the label is suffixed with a label separator defined in the
3703  * current language pack (colon by default in the English lang pack).
3704  * Adding the colon can be explicitly disabled if needed. Label separators
3705  * are put outside the label tag itself so they are not read by
3706  * screenreaders (accessibility).
3707  *
3708  * Parameter $for explicitly associates the label with a form control. When
3709  * set, the value of this attribute must be the same as the value of
3710  * the id attribute of the form control in the same document. When null,
3711  * the label being defined is associated with the control inside the label
3712  * element.
3713  *
3714  * @param string $text content of the label tag
3715  * @param string|null $for id of the element this label is associated with,
3716  *     null for no association
3717  * @param bool $colonize add label separator (colon) to the label text, if it
3718  *     is not there yet
3719  * @param array $attributes to be inserted in the tag, for example array('
3720  *     accesskey' => 'a')
3721  * @return string HTML of the label element
3722  */
3723 public static function label($text, $for, $colonize = true, array $attributes =
3724     array()) {
3725     if (!is_null($for)) {
3726         $attributes = array_merge($attributes, array('for' => $for));
3727     }
3728     $text = trim($text);
3729     $label = self::tag('label', $text, $attributes);

```



```

3727         // TODO MDL-12192 $colonize disabled for now yet
3728         // if (!empty($text) and $colonize) {
3729         //     // the $text may end with the colon already, though it is bad string
3730         //     definition style
3731         //     $colon = get_string('labelsep', 'langconfig');
3732         //     if (!empty($colon)) {
3733         //         $trimmed = trim($colon);
3734         //         if ((substr($text, -strlen($trimmed)) == $trimmed) or (substr(
3735         //             $text, -1) == ':')) {
3736         //             //debugging('The label text should not end with colon or
3737         //             other label separator,
3738         //             //             please fix the string definition.',
3739         //             DEBUG_DEVELOPER);
3740         //         } else {
3741         //             $label .= $colon;
3742         //         }
3743         //     }
3744         // }
3745
3746         return $label;
3747     }
3748 }
3749
3750 /**
3751  * Component representing a table cell.
3752  *
3753  * @copyright 2009 Nicolas Connault
3754  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
3755  * @since Moodle 2.0
3756  * @package core
3757  * @category output
3758  */
3759 class html_table_cell {
3760
3761     /**
3762      * @var string Value to use for the id attribute of the cell.
3763      */
3764     public $id = null;
3765
3766     /**
3767      * @var string The contents of the cell.
3768      */
3769     public $text;
3770
3771     /**
3772      * @var string Abbreviated version of the contents of the cell.
3773      */
3774     public $abbr = null;
3775
3776     /**
3777      * @var int Number of columns this cell should span.
3778      */
3779     public $colspan = null;

```

```

3777     /**
3778      * @var int Number of rows this cell should span.
3779      */
3780     public $rowspan = null;
3781
3782     /**
3783      * @var string Defines a way to associate header cells and data cells in a
3784      *         table.
3785      */
3786     public $scope = null;
3787
3788     /**
3789      * @var bool Whether or not this cell is a header cell.
3790      */
3791     public $header = null;
3792
3793     /**
3794      * @var string Value to use for the style attribute of the table cell
3795      */
3796     public $style = null;
3797
3798     /**
3799      * @var array Attributes of additional HTML attributes for the <td> element
3800      */
3801     public $attributes = array();
3802
3803     /**
3804      * Constructs a table cell
3805      *
3806      * @param string $text
3807      */
3808     public function __construct($text = null) {
3809         $this->text = $text;
3810         $this->attributes['class'] = '';
3811     }
3812
3813
3814     /**
3815      * Component representing a table row.
3816      *
3817      * @copyright 2009 Nicolas Connault
3818      * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
3819      * @since Moodle 2.0
3820      * @package core
3821      * @category output
3822      */
3823     class html_table_row {
3824
3825         /**
3826          * @var string Value to use for the id attribute of the row.
3827          */
3828         public $id = null;
3829

```

```

3830     /**
3831      * @var array Array of html_table_cell objects
3832      */
3833     public $cells = array();
3834
3835     /**
3836      * @var string Value to use for the style attribute of the table row
3837      */
3838     public $style = null;
3839
3840     /**
3841      * @var array Attributes of additional HTML attributes for the <tr> element
3842      */
3843     public $attributes = array();
3844
3845     /**
3846      * Constructor
3847      * @param array $cells
3848      */
3849     public function __construct(array $cells=null) {
3850         $this->attributes['class'] = '';
3851         $cells = (array)$cells;
3852         foreach ($cells as $cell) {
3853             if ($cell instanceof html_table_cell) {
3854                 $this->cells[] = $cell;
3855             } else {
3856                 $this->cells[] = new html_table_cell($cell);
3857             }
3858         }
3859     }
3860 }

```

2.1.12. version.php

```

1  <?php
2
3  defined('MOODLE_INTERNAL') || die();
4
5  $module->version      = 2012022100;          // The current module version (Date:
        YYYYMMDDXX)
6  $module->requires     = 2006101592;          // Requires this Moodle version
7  $module->component    = 'mod_wikicode';      // Full name of the plugin (used for
        diagnostics)
8  $module->cron          = 0;

```

2.1.13. view.php

```

1  <?php
2
3  require_once('.../config.php');
4  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8  $id = optional_param('id', 0, PARAM_INT); // Course Module ID
9
10 $pageid = optional_param('pageid', 0, PARAM_INT); // Page ID
11
12 $wid = optional_param('wid', 0, PARAM_INT); // Wiki ID
13 $title = optional_param('title', '', PARAM_TEXT); // Page Title
14 $currentgroup = optional_param('group', 0, PARAM_INT); // Group ID
15 $userid = optional_param('uid', 0, PARAM_INT); // User ID
16 $groupanduser = optional_param('groupanduser', 0, PARAM_TEXT);
17
18 $edit = optional_param('edit', -1, PARAM_BOOL);
19
20 $action = optional_param('action', '', PARAM_ALPHA);
21 $swid = optional_param('swid', 0, PARAM_INT); // Subwiki ID
22
23 /*
24  * Case 0:
25  *
26  * User that comes from a course. First wiki page must be shown
27  *
28  * URL params: id -> course module id
29  *
30  */
31 if ($id) {
32     // Cheacking course module instance
33     if (!$cm = get_coursemodule_from_id('wikicode', $id)) {
34         print_error('invalidcoursemodule');
35     }
36
37     // Checking course instance
38     $course = get_record('course', 'id', $cm->course);
39
40     // Checking wiki instance
41     if (!$wiki = wikicode_get_wiki($cm->instance)) {
42         print_error('incorrectwikiid', 'wikicode');
43     }
44
45     // $PAGE->set_cm($cm);
46
47     // Getting the subwiki corresponding to that wiki, group and user.
48     //
49     // Also setting the page if it exists or getting the first page title form
50     // that wiki
51
52     // Getting current group id
53     $currentgroup = groups_get_activity_group($cm);
54     $currentgroup = !empty($currentgroup) ? $currentgroup : 0;

```

```

55     // Getting current user id
56     if ($wiki->wikimode == 'individual') {
57         $userid = $USER->id;
58     } else {
59         $userid = 0;
60     }
61
62     // Getting subwiki. If it does not exists, redirecting to create page
63     if (!$subwiki = wikicode_get_subwiki_by_group($wiki->id, $currentgroup, $userid
64     )) {
65         $params = array('wid' => $wiki->id, 'gid' => $currentgroup, 'uid' =>
66             $userid, 'title' => $wiki->firstpagetitle);
67         $url = new moodle_url('./create.php', $params);
68         redirect($url->out());
69     }
70
71     // Getting first page. If it does not exists, redirecting to create page
72     if (!$page = wikicode_get_first_page($subwiki->id, $wiki)) {
73         $params = array('swid'=>$subwiki->id, 'title'=>$wiki->firstpagetitle);
74         $url = new moodle_url('./create.php', $params);
75         redirect($url->out());
76     }
77
78     /*
79     * Case 1:
80     *
81     * A user wants to see a page.
82     *
83     * URL Params: pageid -> page id
84     */
85 } elseif ($pageid) {
86
87     // Checking page instance
88     if (!$page = wikicode_get_page($pageid)) {
89         print_error('incorrectpageid', 'wikicode');
90     }
91
92     // Checking subwiki
93     if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
94         print_error('incorrectsubwikiid', 'wikicode');
95     }
96
97     // Checking wiki instance of that subwiki
98     if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
99         print_error('incorrectwikiid', 'wikicode');
100     }
101
102     // Checking course module instance
103     if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
104         print_error('invalidcoursemodule');
105     }
106
107     // Checking course instance

```

```

107     $course = get_record('course', 'id', $cm->course);
108
109     /*
110     * Case 2:
111     *
112     * Trying to read a page from another group or user
113     *
114     * Page can exists or not.
115     * * If it exists, page must be shown
116     * * If it does not exists, system must ask for its creation
117     *
118     * URL params: wid -> subwiki id (required)
119     *               title -> a page title (required)
120     *               group -> group id (optional)
121     *               uid -> user id (optional)
122     *               groupanduser -> (optional)
123     */
124 } elseif ($wid && $title) {
125
126     // Setting wiki instance
127     if (!$wiki = wikicode_get_wiki($wid)) {
128         print_error('incorrectwikiid', 'wikicode');
129     }
130
131     // Checking course module
132     if (!$cm = get_coursemodule_from_instance("wikicode", $wiki->id)) {
133         print_error('invalidcoursemodule');
134     }
135
136     // Checking course instance
137     if (!$course = get_record("course", "id", $cm->course)) {
138         print_error('coursemisconf');
139     }
140
141     $groupmode = groups_get_activity_groupmode($cm);
142     if (empty($currentgroup)) {
143         $currentgroup = groups_get_activity_group($cm);
144         $currentgroup = !empty($currentgroup) ? $currentgroup : 0;
145     }
146
147     if ($wiki->wikimode == 'individual' && ($groupmode == SEPARATEGROUPS ||
148         $groupmode == VISIBLEGROUPS)) {
149         list($gid, $uid) = explode('-', $groupanduser);
150     } else if ($wiki->wikimode == 'individual') {
151         $gid = 0;
152         $uid = $userid;
153     } else if ($groupmode == NOGROUPS) {
154         $gid = 0;
155         $uid = 0;
156     } else {
157         $gid = $currentgroup;
158         $uid = 0;
159     }

```

```

160 // Getting subwiki instance. If it does not exists, redirect to create page
161 if (!$subwiki = wikicode_get_subwiki_by_group($wiki->id, $gid, $uid)) {
162     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
163
164     $modeanduser = $wiki->wikimode == 'individual' && $uid != $USER->id;
165     $modeandgroupmember = $wiki->wikimode == 'collaborative' && !
        groups_is_member($gid);
166
167     $manage = has_capability('mod/wikicode:managewiki', $context);
168     $edit = has_capability('mod/wikicode:editpage', $context);
169     $manageandedit = $manage && $edit;
170
171     if ($groupmode == VISIBLEGROUPS and ($modeanduser || $modeandgroupmember)
172         and !$manageandedit) {
173         print_error('nocontent', 'wikicode');
174     }
175
176     $params = array('wid' => $wiki->id, 'gid' => $gid, 'uid' => $uid, 'title'
177         => $title);
178     $url = new moodle_url('/mod/wikicode/create.php', $params);
179     redirect($url);
180 }
181
182 // Checking is there is a page with this title. If it does not exists, redirect
183 // to first page
184 if (!$page = wikicode_get_page_by_title($subwiki->id, $title)) {
185     $params = array('wid' => $wiki->id, 'gid' => $gid, 'uid' => $uid, 'title'
186         => $wiki->firstpagetitle);
187     $url = new moodle_url('/mod/wikicode/view.php', $params);
188     redirect($url);
189 }
190
191 // /*
192 // * Case 3:
193 // *
194 // * A user switches group when is 'reading' a non-existent page.
195 // *
196 // * URL Params: wid -> wiki id
197 // *               title -> page title
198 // *               currentgroup -> group id
199 // *
200 // */
201 //} elseif ($wid && $title && $currentgroup) {
202 //
203 // // Checking wiki instance
204 // if (!$wiki = wikicode_get_wiki($wid)) {
205 //     print_error('incorrectwikiid', 'wiki');
206 // }
207 //
208 // // Checking subwiki instance
209 // // @TODO: Fix call to wikicode_get_subwiki_by_group
210 // if (!$currentgroup = groups_get_activity_group($cm)){
211 //     $currentgroup = 0;
212 // }

```

```

209     // if (!$subwiki = wikicode_get_subwiki_by_group($wid, $currentgroup)) {
210     //     print_error('incorrectsubwikiid', 'wiki');
211     // }
212     //
213     // // Checking page instance
214     // if ($page = wikicode_get_page_by_title($subwiki->id, $title)) {
215     //     unset($title);
216     // }
217     //
218     // // Checking course instance
219     // $course = $DB->get_record('course', array('id'=>$cm->course), '*',
        MUST_EXIST);
220     //
221     // // Checking course module instance
222     // if (!$cm = get_coursemodule_from_instance("wiki", $wiki->id, $course->id)
        ) {
223     //     print_error('invalidcoursemodule');
224     // }
225     //
226     // $subwiki = null;
227     // $page = null;
228     //
229     // /*
230     //     * Case 4:
231     //     *
232     //     * Error. No more options
233     //     */
234 } else {
235     print_error('incorrectparameters');
236 }
237 require_login($course, true, $cm);
238
239
240 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
241 require_capability('mod/wikicode:viewpage', $context);
242
243 add_to_log($course->id, 'wikicode', 'view', 'view.php?id=' . $cm->id, $wiki->id);
244
245 // Update 'viewed' state if required by completion system
246 /*require_once($CFG->libdir . '/completionlib.php');
247 $completion = new completion_info($course);
248 $completion->set_module_viewed($cm);
249
250 if (($edit != - 1) and $PAGE->user_allowed_editing()) {
251     $USER->editing = $edit;
252 }*/
253
254 $wikipage = new page_wikicode_view($wiki, $subwiki, $cm);
255
256 /*The following piece of code is used in order
257 * to perform set_url correctly. It is necessary in order
258 * to make page_wikicode_view class know that this page
259 * has been called via its id.
260 */

```



```

261 if ($id) {
262     $wikipage->set_coursemodule($id);
263 }
264
265 $wikipage->set_gid($currentgroup);
266 $wikipage->set_page($page);
267
268 $wikipage->print_header($cm, $course);
269
270 $wikipage->print_content();
271
272 print_footer($course);

```

2.1.14. viewversion.php

```

1  <?php
2
3  require_once('.../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  $pageid = required_param('pageid', PARAM_TEXT);
10 $versionid = required_param('versionid', PARAM_INT);
11
12 if (!$page = wikicode_get_page($pageid)) {
13     print_error('incorrectpageid', 'wikicode');
14 }
15
16 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
17     print_error('incorrectsubwikiid', 'wikicode');
18 }
19
20 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
21     print_error('incorrectwikiid', 'wikicode');
22 }
23
24 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
25     print_error('invalidcoursemodule');
26 }
27
28 $course = get_record('course', 'id', $cm->course);
29
30 require_login($course->id, true, $cm);
31 add_to_log($course->id, "wikicode", "history", "history.php?id=$cm->id", "$wiki->id");
32
33 /// Print the page header
34 $wikipage = new page_wikicode_viewversion($wiki, $subwiki, $cm);
35

```

```

36 $wiki->set_page($page);
37 $wiki->set_versionid($versionid);
38
39 $wiki->print_header($cm, $course);
40 $wiki->print_content();
41
42 print_footer($course);

```

2.2. Back-End

2.2.1. lib.php

```

1 <?php
2
3 /**
4  * Given an object containing all the necessary data,
5  * (defined by the form in mod.html) this function
6  * will create a new instance and return the id number
7  * of the new instance.
8  *
9  * @param object $instance An object from the form in mod.html
10  * @return int The id of the newly inserted wiki record
11  */
12 function wikicode_add_instance($wiki) {
13
14     $wiki->timemodified = time();
15     # May have to add extra stuff in here #
16     if (empty($wiki->forceformat)) {
17         $wiki->forceformat = 0;
18     }
19     return insert_record("wikicode", $wiki);
20 }
21
22 /**
23  * Given an object containing all the necessary data,
24  * (defined by the form in mod.html) this function
25  * will update an existing instance with new data.
26  *
27  * @param object $instance An object from the form in mod.html
28  * @return boolean Success/Fail
29  */
30 function wikicode_update_instance($wiki) {
31
32     $wiki->timemodified = time();
33     $wiki->id = $wiki->instance;
34     if (empty($wiki->forceformat)) {
35         $wiki->forceformat = 0;
36     }
37

```

```

38     # May have to add extra stuff in here #
39
40     return update_record('wikicode', $wiki);
41 }
42
43 /**
44  * Given an ID of an instance of this module,
45  * this function will permanently delete the instance
46  * and any data that depends on it.
47  *
48  * @param int $id Id of the module instance
49  * @return boolean Success/Failure
50  */
51 function wikicode_delete_instance($id) {
52
53     if (!$wiki = get_record('wikicode', 'id', $id)) {
54         return false;
55     }
56
57     $result = true;
58
59     # Get subwiki information #
60     $subwikis = get_records('wikicode_subwikis', array('wikiid' => $wiki->id));
61
62     foreach ($subwikis as $subwiki) {
63         # Get existing links, and delete them #
64         if (!delete_records('wikicode_links', 'subwikiid', $subwiki->id)) {
65             $result = false;
66         }
67
68         # Get existing pages #
69         if ($pages = get_records('wikicode_pages', 'subwikiid', $subwiki->id)) {
70             foreach ($pages as $page) {
71                 # Get locks, and delete them #
72                 if (!delete_records('wikicode_locks', 'pageid', $page->id)) {
73                     $result = false;
74                 }
75
76                 # Get versions, and delete them #
77                 if (!delete_records('wikicode_versions', 'pageid', $page->id)) {
78                     $result = false;
79                 }
80             }
81
82             # Delete pages #
83             if (!delete_records('wikicode_pages', 'subwikiid', $subwiki->id)) {
84                 $result = false;
85             }
86         }
87
88         # Get existing synonyms, and delete them #
89         if (!delete_records('wikicode_synonyms', 'subwikiid', $subwiki->id)) {
90             $result = false;
91         }

```

```

92
93     # Delete any subwikis #
94     if (!delete_records('wikicode_subwikis', 'id', $subwiki->id)) {
95         $result = false;
96     }
97 }
98
99 # Delete any dependent records here #
100 if (!delete_records('wikicode', 'id', $wiki->id)) {
101     $result = false;
102 }
103
104 return $result;
105 }
106
107 function wikicode_reset_userdata($data) {
108     global $CFG,$DB;
109     require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
110     require_once($CFG->dirroot . '/tag/lib.php');
111
112     $componentstr = get_string('modulenameplural', 'wikicode');
113     $status = array();
114
115     //get the wiki(s) in this course.
116     if (!$wikis = get_records('wikicode', 'course', $data->courseid)) {
117         return false;
118     }
119     $errors = false;
120     foreach ($wikis as $wiki) {
121
122         // remove all comments
123         if (!empty($data->reset_wikicode_comments)) {
124             if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
125                 continue;
126             }
127             $context = get_context_instance(CONTEXT_MODULE, $cm->id);
128             delete_records_select('comments', "contextid = ".$context->id." AND
129                 commentarea='wikicode_page'");
130             $status[] = array('component'=>$componentstr, 'item'=>get_string('
131                 deleteallcomments'), 'error'=>false);
132         }
133
134         if (!empty($data->reset_wikicode_tags)) {
135             # Get subwiki information #
136             $subwikis = get_records('wikicode_subwikis', 'wikiid', $wiki->id);
137
138             foreach ($subwikis as $subwiki) {
139                 if ($pages = get_records('wikicode_pages', 'subwikiid', $subwiki->
140                     id)) {
141                     foreach ($pages as $page) {
142                         $tags = tag_get_tags_array('wikicode_pages', $page->id);
143                         foreach ($tags as $tagid => $tagname) {
144                             // Delete the related tag_instances related to the wiki
145                             page.

```

```

142         $errors = tag_delete_instance('wikicode_pages', $page->
143             id, $tagid);
144         $status[] = array('component' => $componentstr, 'item'
145             => get_string('tagsdeleted', 'wikicode'), 'error'
146             => $errors);
147     }
148 }
149 }
150 return $status;
151 }
152
153
154 function wikicode_reset_course_form_definition(&$mform) {
155     $mform->addElement('header', 'wikiheader', get_string('modulenameplural', '
156         wikicode'));
157     $mform->addElement('advcheckbox', 'reset_wikicode_tags', get_string('
158         removeallwikitags', 'wikicode'));
159     $mform->addElement('advcheckbox', 'reset_wikicode_comments', get_string('
160         deleteallcomments'));
161 }
162
163 /**
164  * Return a small object with summary information about what a
165  * user has done with a given particular instance of this module
166  * Used for user activity reports.
167  * $return->time = the time they did it
168  * $return->info = a short text description
169  *
170  * @return null
171  * @todo Finish documenting this function
172  */
173 function wikicode_user_outline($course, $user, $mod, $wiki) {
174     $return = NULL;
175     return $return;
176 }
177
178 /**
179  * Print a detailed representation of what a user has done with
180  * a given particular instance of this module, for user activity reports.
181  *
182  * @return boolean
183  * @todo Finish documenting this function
184  */
185 function wikicode_user_complete($course, $user, $mod, $wiki) {
186     return true;
187 }
188
189 /**
190  * Indicates API features that the wiki supports.
191  *
192  * @uses FEATURE_GROUPS

```

```

190 * @uses FEATURE_GROUPINGS
191 * @uses FEATURE_GROUPMEMBERONLY
192 * @uses FEATURE_MOD_INTRO
193 * @uses FEATURE_COMPLETION_TRACKS_VIEWS
194 * @uses FEATURE_COMPLETION_HAS_RULES
195 * @uses FEATURE_GRADE_HAS_GRADE
196 * @uses FEATURE_GRADE_OUTCOMES
197 * @param string $feature
198 * @return mixed True if yes (some features may use other values)
199 */
200 function wikicode_supports($feature) {
201     switch ($feature) {
202         case FEATURE_GROUPS:
203             return true;
204         case FEATURE_GROUPINGS:
205             return true;
206         case FEATURE_GROUPMEMBERONLY:
207             return true;
208         case FEATURE_MOD_INTRO:
209             return true;
210         case FEATURE_COMPLETION_TRACKS_VIEWS:
211             return true;
212         case FEATURE_GRADE_HAS_GRADE:
213             return false;
214         case FEATURE_GRADE_OUTCOMES:
215             return false;
216         case FEATURE_RATE:
217             return false;
218         case FEATURE_BACKUP_MOODLE2:
219             return true;
220         case FEATURE_SHOW_DESCRIPTION:
221             return true;
222
223         default:
224             return null;
225     }
226 }
227
228 /**
229  * Given a course and a time, this module should find recent activity
230  * that has occurred in wiki activities and print it out.
231  * Return true if there was output, or false if there was none.
232  *
233  * @global $CFG
234  * @global $DB
235  * @uses CONTEXT_MODULE
236  * @uses VISIBLEGROUPS
237  * @param object $course
238  * @param bool $viewfullnames capability
239  * @param int $timestart
240  * @return boolean
241  */
242 function wikicode_print_recent_activity($course, $viewfullnames, $timestart) {
243     global $CFG, $OUTPUT;

```

```

244
245     $sql = "SELECT p.*, w.id as wikiid, sw.groupid
246             FROM {$CFG->prefix}wikicode_pages p
247             JOIN {$CFG->prefix}wikicode_subwikis sw ON sw.id = p.subwikiid
248             JOIN {$CFG->prefix}wikicode w ON w.id = sw.wikiid
249             WHERE p.timemodified > ".$timestart." AND w.course = ".$course->id."
250             ORDER BY p.timemodified ASC";
251     if (!$pages = get_records_sql($sql)) {
252         return false;
253     }
254     $modinfo =& get_fast_modinfo($course);
255
256     $wikis = array();
257
258     $modinfo = get_fast_modinfo($course);
259
260     foreach ($pages as $page) {
261         if (!isset($modinfo->instances['wikicode'][$page->wikiid])) {
262             // not visible
263             continue;
264         }
265         $cm = $modinfo->instances['wikicode'][$page->wikiid];
266         if (!$cm->uservisible) {
267             continue;
268         }
269         $context = get_context_instance(CONTEXT_MODULE, $cm->id);
270
271         if (!has_capability('mod/wikicode:viewpage', $context)) {
272             continue;
273         }
274
275         $groupmode = groups_get_activity_groupmode($cm, $course);
276
277         if ($groupmode) {
278             if ($groupmode == SEPARATEGROUPS and !has_capability('mod/wikicode:
279                 managewiki', $context)) {
280                 // separate mode
281                 if (isguestuser()) {
282                     // shortcut
283                     continue;
284                 }
285                 if (is_null($modinfo->groups)) {
286                     $modinfo->groups = groups_get_user_groups($course->id); // load
287                         all my groups and cache it in modinfo
288                 }
289                 if (!in_array($page->groupid, $modinfo->groups[0])) {
290                     continue;
291                 }
292             }
293         }
294         $wikis[] = $page;
295     }

```

```

296     unset($pages);
297
298     if (!$wikis) {
299         return false;
300     }
301     echo $OUTPUT->heading(get_string("updatedwikipages", 'wikicode') . ': ', 3);
302     foreach ($wikis as $wiki) {
303         $cm = $modinfo->instances['wikicode'][$wiki->wikiid];
304         $link = $CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $wiki->id;
305         print_recent_activity_note($wiki->timemodified, $wiki, $cm->name, $link,
306             false, $viewfullnames);
307     }
308
309     return true; // True if anything was printed, otherwise false
310 }
311 /**
312  * Function to be run periodically according to the moodle cron
313  * This function searches for things that need to be done, such
314  * as sending out mail, toggling flags etc ...
315  *
316  * @uses $CFG
317  * @return boolean
318  * @todo Finish documenting this function
319  */
320 function wikicode_cron() {
321     global $CFG;
322
323     return true;
324 }
325 /**
326  * Must return an array of grades for a given instance of this module,
327  * indexed by user. It also returns a maximum allowed grade.
328  *
329  * Example:
330  * $return->grades = array of grades;
331  * $return->maxgrade = maximum allowed grade;
332  *
333  * return $return;
334  *
335  * @param int $wikiid ID of an instance of this module
336  * @return mixed Null or object with an array of grades and with the maximum grade
337  */
338 function wikicode_grades($wikiid) {
339     return null;
340 }
341
342 /**
343  * Must return an array of user records (all data) who are participants
344  * for a given instance of wiki. Must include every user involved
345  * in the instance, independent of his role (student, teacher, admin...)
346  * See other modules as example.
347  *
348  * @todo: deprecated - to be deleted in 2.2

```



```

349  *
350  * @param int $wikiid ID of an instance of this module
351  * @return mixed boolean/array of students
352  **/
353  function wikicode_get_participants($wikiid) {
354      return false;
355  }
356
357  /**
358   * This function returns if a scale is being used by one wiki
359   * it it has support for grading and scales. Commented code should be
360   * modified if necessary. See forum, glossary or journal modules
361   * as reference.
362   *
363   * @param int $wikiid ID of an instance of this module
364   * @return mixed
365   * @todo Finish documenting this function
366   **/
367  function wikicode_scale_used($wikiid, $scaleid) {
368      $return = false;
369
370      //$rec = get_record("wiki","id",$wikiid,"scale","-$scaleid");
371      //
372      //if (!empty($rec) && !empty($scaleid)) {
373      //    $return = true;
374      //}
375
376      return $return;
377  }
378
379  /**
380   * Checks if scale is being used by any instance of wiki.
381   * This function was added in 1.9
382   *
383   * This is used to find out if scale used anywhere
384   * @param $scaleid int
385   * @return boolean True if the scale is used by any wiki
386   */
387  function wikicode_scale_used_anywhere($scaleid) {
388
389      //if ($scaleid and $DB->record_exists('wikicode', array('grade' => -$scaleid)))
390      //    {
391      //        return true;
392      //    } else {
393      //        return false;
394      //    }
395
396      return false;
397  }
398
399  /**
400   * Pluginfile hook
401   *
402   */

```

```

402 function wikicode_pluginfile($course, $cm, $context, $filearea, $args,
403     $forcedownload) {
404     global $CFG;
405
406     if ($context->contextlevel != CONTEXT_MODULE) {
407         return false;
408     }
409
410     require_login($course, true, $cm);
411
412     require_once($CFG->dirroot . "/mod/wikicode/locallib.php");
413
414     if ($filearea == 'attachments') {
415         $swid = (int) array_shift($args);
416
417         if (!$subwiki = wikicode_get_subwiki($swid)) {
418             return false;
419         }
420
421         require_capability('mod/wikicode:viewpage', $context);
422
423         $relativepath = implode('/', $args);
424
425         $fullpath = "$context->id/mod_wikicode/attachments/$swid/$relativepath";
426
427         $fs = get_file_storage();
428         if (!$file = $fs->get_file_by_hash(sha1($fullpath)) or $file->is_directory
429             ()) {
430             return false;
431         }
432
433         $lifetime = isset($CFG->filelifetime) ? $CFG->filelifetime : 86400;
434
435         send_stored_file($file, $lifetime, 0);
436     }
437 }
438
439 function wikicode_search_form($cm, $search = '') {
440     global $CFG, $OUTPUT;
441
442     $output = '<div class="wikisearch">';
443     $output .= '<form method="post" action="' . $CFG->wwwroot . '/mod/wikicode/
444         search.php" style="display:inline">';
445     $output .= '<fieldset class="invisiblefieldset">';
446     $output .= '<input name="searchstring" type="text" size="18" value="' . s(
447         $search, true) . '" alt="search" />';
448     $output .= '<input name="courseid" type="hidden" value="' . $cm->course . '" />
449         ';
```

```

450     $output .= '</div>';
451
452     return $output;
453 }
454 function wikicode_extend_navigation(navigation_node $navref, $course, $module, $cm)
455 {
456     global $CFG, $PAGE, $USER;
457
458     require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
459
460     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
461     $url = $PAGE->url;
462     $userid = 0;
463     if ($module->wikimode == 'individual') {
464         $userid = $USER->id;
465     }
466
467     if (!$wiki = wikicode_get_wiki($cm->instance)) {
468         return false;
469     }
470
471     if (!$gid = groups_get_activity_group($cm)) {
472         $gid = 0;
473     }
474
475     if (!$subwiki = wikicode_get_subwiki_by_group($cm->instance, $gid, $userid)) {
476         return null;
477     } else {
478         $swid = $subwiki->id;
479     }
480
481     $pageid = $url->param('pageid');
482     $cmid = $url->param('id');
483     if (empty($pageid) && !empty($cmid)) {
484         // wiki main page
485         $page = wikicode_get_page_by_title($swid, $wiki->firstpagetitle);
486         $pageid = $page->id;
487     }
488
489     if (has_capability('mod/wikicode:createpage', $context)) {
490         // $link = new moodle_url('/mod/wikicode/create.php', array('action' => 'new
491             ', 'swid' => $swid));
492         // $node = $navref->add(get_string('newpage', 'wikicode'), $link,
493             navigation_node::TYPE_SETTING);
494     }
495
496     if (is_numeric($pageid)) {
497         if (has_capability('mod/wikicode:viewpage', $context)) {
498             $link = new moodle_url('/mod/wikicode/view.php', array('pageid' =>
499                 $pageid));
500             $node = $navref->add(get_string('view', 'wikicode'), $link,
501                 navigation_node::TYPE_SETTING);
502         }
503     }
504 }

```

```

499         if (has_capability('mod/wikicode:editpage', $context)) {
500             $link = new moodle_url('/mod/wikicode/edit.php', array('pageid' =>
                    $pageid));
501             $node = $navref->add(get_string('edit', 'wikicode'), $link,
                    navigation_node::TYPE_SETTING);
502         }
503
504         if (has_capability('mod/wikicode:viewcomment', $context)) {
505             //$link = new moodle_url('/mod/wikicode/comments.php', array('pageid'
                    => $pageid));
506             //$node = $navref->add(get_string('comments', 'wikicode'), $link,
                    navigation_node::TYPE_SETTING);
507         }
508
509         if (has_capability('mod/wikicode:viewpage', $context)) {
510             $link = new moodle_url('/mod/wikicode/history.php', array('pageid' =>
                    $pageid));
511             $node = $navref->add(get_string('history', 'wikicode'), $link,
                    navigation_node::TYPE_SETTING);
512         }
513
514         if (has_capability('mod/wikicode:viewpage', $context)) {
515             //$link = new moodle_url('/mod/wikicode/map.php', array('pageid' =>
                    $pageid));
516             //$node = $navref->add(get_string('map', 'wikicode'), $link,
                    navigation_node::TYPE_SETTING);
517         }
518
519         if (has_capability('mod/wikicode:viewpage', $context)) {
520             //$link = new moodle_url('/mod/wikicode/files.php', array('pageid' =>
                    $pageid));
521             //$node = $navref->add(get_string('files', 'wikicode'), $link,
                    navigation_node::TYPE_SETTING);
522         }
523
524             if (has_capability('mod/wikicode:viewpage', $context)) {
525                 $link = new moodle_url('/mod/wikicode/log.php', array('pageid' =>
                        $pageid));
526                 $node = $navref->add(get_string('log', 'wikicode'), $link,
                        navigation_node::TYPE_SETTING);
527             }
528
529         if (has_capability('mod/wikicode:managewiki', $context)) {
530             $link = new moodle_url('/mod/wikicode/admin.php', array('pageid' =>
                    $pageid));
531             $node = $navref->add(get_string('admin', 'wikicode'), $link,
                    navigation_node::TYPE_SETTING);
532         }
533     }
534 }
535 /**
536  * Returns all other caps used in wiki module
537  *
538  * @return array

```

```

539 */
540 function wikicode_get_extra_capabilities() {
541     return array('moodle/comment:view', 'moodle/comment:post', 'moodle/comment:
        delete');
542 }
543
544 /**
545  * Running additional permission check on plugin, for example, plugins
546  * may have switch to turn on/off comments option, this callback will
547  * affect UI display, not like pluginname_comment_validate only throw
548  * exceptions.
549  * Capability check has been done in comment->check_permissions(), we
550  * don't need to do it again here.
551  *
552  * @param stdClass $comment_param {
553  *             context => context the context object
554  *             courseid => int course id
555  *             cm       => stdClass course module object
556  *             commentarea => string comment area
557  *             itemid    => int itemid
558  * }
559  * @return array
560  */
561 function wikicode_comment_permissions($comment_param) {
562     return array('post'=>true, 'view'=>true);
563 }
564
565 /**
566  * Validate comment parameter before perform other comments actions
567  *
568  * @param stdClass $comment_param {
569  *             context => context the context object
570  *             courseid => int course id
571  *             cm       => stdClass course module object
572  *             commentarea => string comment area
573  *             itemid    => int itemid
574  * }
575  * @return boolean
576  */
577 function wikicode_comment_validate($comment_param) {
578     global $CFG;
579     require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
580     // validate comment area
581     if ($comment_param->commentarea != 'wikicode_page') {
582         throw new comment_exception('invalidcommentarea');
583     }
584     // validate itemid
585     if (!$record = get_record('wikicode_pages', 'id', $comment_param->itemid)) {
586         throw new comment_exception('invalidcommentitemid');
587     }
588     if (!$subwiki = wikicode_get_subwiki($record->subwikiid)) {
589         throw new comment_exception('invalidsubwikiid');
590     }
591     if (!$wiki = wikicode_get_wikicode_from_pageid($comment_param->itemid)) {

```

```

592         throw new comment_exception('invalidid', 'data');
593     }
594     if (!$course = get_record('course', 'id', $wiki->course)) {
595         throw new comment_exception('coursemisconf');
596     }
597     if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id, $course->id))
598     {
599         throw new comment_exception('invalidcoursemodule');
600     }
601     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
602     // group access
603     if ($subwiki->groupid) {
604         $groupmode = groups_get_activity_groupmode($cm, $course);
605         if ($groupmode == SEPARATEGROUPS and !has_capability('moodle/site:
606             accessallgroups', $context)) {
607             if (!groups_is_member($subwiki->groupid)) {
608                 throw new comment_exception('notmemberofgroup');
609             }
610         }
611     }
612     // validate context id
613     if ($context->id != $comment_param->context->id) {
614         throw new comment_exception('invalidcontext');
615     }
616     // validation for comment deletion
617     if (!empty($comment_param->commentid)) {
618         if ($comment = get_record('comments', 'id', $comment_param->commentid)) {
619             if ($comment->commentarea != 'wikicode_page') {
620                 throw new comment_exception('invalidcommentarea');
621             }
622             if ($comment->contextid != $context->id) {
623                 throw new comment_exception('invalidcontext');
624             }
625             if ($comment->itemid != $comment_param->itemid) {
626                 throw new comment_exception('invalidcommentitemid');
627             }
628         } else {
629             throw new comment_exception('invalidcommentid');
630         }
631     }
632     return true;
633 }
634
635 /**
636  * Return a list of page types
637  * @param string $pagetype current page type
638  * @param stdClass $parentcontext Block's parent context
639  * @param stdClass $currentcontext Current context of block
640  */
641 function wikicode_page_type_list($pagetype, $parentcontext, $currentcontext) {
642     $module_pagetype = array(
643         'mod-wiki-*'=>get_string('page-mod-wiki-x', 'wikicode'),
644         'mod-wiki-view'=>get_string('page-mod-wiki-view', 'wikicode'),
645         'mod-wiki-comments'=>get_string('page-mod-wiki-comments', 'wikicode'),

```

```

644         'mod-wiki-history'=>get_string('page-mod-wiki-history', 'wikicode'),
645         'mod-wiki-map'=>get_string('page-mod-wiki-map', 'wikicode')
646     );
647     return $module_pagetype;
648 }

```

2.2.2. localib.php

```

1  <?php
2  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
3  require_once($CFG->libdir . '/filelib.php');
4  require_once($CFG->libdir . '/adminlib.php');
5
6  define('WIKI_REFRESH_CACHE_TIME', 30); // @TODO: To be deleted.
7  define('FORMAT_CREOLE', '37');
8  define('FORMAT_NWIKI', '38');
9  define('FORMAT_WCODE', '39');
10 define('NO_VALID_RATE', '-999');
11 define('IMPROVEMENT', '+');
12 define('EQUAL', '=');
13 define('WORST', '-');
14
15 define('LOCK_TIMEOUT', 30);
16
17 /**
18  * Get a wiki instance
19  * @param int $wikiid the instance id of wiki
20  */
21 function wikicode_get_wiki($wikiid) {
22
23     return get_record('wikicode', 'id', $wikiid);
24 }
25
26 /**
27  * Get sub wiki instances with same wiki id
28  * @param int $wikiid
29  */
30 function wikicode_get_subwikis($wikiid) {
31     return get_records('wikicode_subwikis', 'wikiid', $wikiid);
32 }
33
34 /**
35  * Get a sub wiki instance by wiki id and group id
36  * @param int $wikiid
37  * @param int $groupid
38  * @return object
39  */
40 function wikicode_get_subwiki_by_group($wikiid, $groupid, $userid = 0) {
41     return get_record('wikicode_subwikis', 'wikiid', $wikiid, 'groupid',
42         $groupid, 'userid', $userid);

```

```

43
44 /**
45  * Get a sub wiki instace by instance id
46  * @param int $subwikiid
47  * @return object
48  */
49 function wikicode_get_subwiki($subwikiid) {
50     return get_record('wikicode_subwikis', 'id', $subwikiid);
51 }
52
53
54 /**
55  * Add a new sub wiki instance
56  * @param int $wikiid
57  * @param int $groupid
58  * @return int $insertid
59  */
60 function wikicode_add_subwiki($wikiid, $groupid, $userid = 0) {
61
62     $record = new StdClass();
63     $record->wikiid = $wikiid;
64     $record->groupid = $groupid;
65     $record->userid = $userid;
66
67     $insertid = insert_record('wikicode_subwikis', $record);
68     return $insertid;
69 }
70
71 /**
72  * Get a wiki instance by pageid
73  * @param int $pageid
74  * @return object
75  */
76 function wikicode_get_wikicode_from_pageid($pageid) {
77
78     global $CFG;
79
80     $sql = "SELECT w.*
81           FROM {$CFG->prefix}wikicode w, {$CFG->prefix}wikicode_subwikis s, {$CFG
82             ->prefix}wikicode_pages p
83           WHERE p.id = ".$pageid." AND
84             p.subwikiid = s.id AND
85             s.wikiid = w.id";
86
87     return get_record_sql($sql);
88 }
89
90 /**
91  * Get gcc path most appearances
92  * @return object
93  */
94 function wikicode_get_gccpath() {
95
96     global $CFG;

```



```
96
97     $sql = "SELECT w.gccpath
98             FROM {$CFG->prefix}wikicode w
99             GROUP BY w.gccpath ORDER BY w.gccpath DESC
100             LIMIT 1";
101
102     return get_record_sql($sql);
103 }
104
105 /**
106  * Get mingw path most appearances
107  * @return object
108  */
109 function wikicode_get_mingwpath() {
110
111     global $CFG;
112
113     $sql = "SELECT w.mingwpath
114             FROM {$CFG->prefix}wikicode w
115             GROUP BY w.mingwpath ORDER BY w.mingwpath DESC
116             LIMIT 1";
117
118     return get_record_sql($sql);
119 }
120
121 /**
122  * Get a wiki page by pageid
123  * @param int $pageid
124  * @return object
125  */
126 function wikicode_get_page($pageid) {
127     return get_record('wikicode_pages', 'id', $pageid);
128 }
129
130 /**
131  * Get latest version of wiki page
132  * @param int $pageid
133  * @return object
134  */
135 function wikicode_get_current_version($pageid) {
136
137     global $CFG;
138
139     // @TODO: Fix this query
140     $sql = "SELECT *
141             FROM {$CFG->prefix}wikicode_versions
142             WHERE pageid = ".$pageid."
143             ORDER BY version DESC";
144
145     return array_pop(get_records_sql($sql, 0, 1));
146
147 }
148
149 /**
```

```

150  * Alias of wikicode_get_current_version
151  * @TODO, does the exactly same thing as wikicode_get_current_version, should be
      removed
152  * @param int $pageid
153  * @return object
154  */
155  function wikicode_get_last_version($pageid) {
156      return wikicode_get_current_version($pageid);
157  }
158
159  /**
160   * Get page section
161   * @param int $pageid
162   * @param string $section
163   */
164  function wikicode_get_section_page($page, $section) {
165
166      $version = wikicode_get_current_version($page->id);
167      return wikicode_parser_proxy::get_section($version->content, $version->
          contentformat, $section);
168  }
169
170  /**
171   * Get a wiki page by page title
172   * @param int $swid, sub wiki id
173   * @param string $title
174   * @return object
175   */
176  function wikicode_get_page_by_title($swid, $title) {
177      return get_record('wikicode_pages', 'subwikiid', $swid, 'title', $title);
178  }
179
180  /**
181   * Get a version record by record id
182   * @param int $versionid, the version id
183   * @return object
184   */
185  function wikicode_get_version($versionid) {
186      return get_record('wikicode_versions', 'id', $versionid);
187  }
188
189  /**
190   * Get first page of wiki instace
191   * @param int $subwikiid
192   * @param int $module, wiki instance object
193   */
194  function wikicode_get_first_page($subwikid, $module = null) {
195      global $USER, $CFG;
196
197      $sql = "SELECT p.*
198              FROM {"$CFG->prefix"}wikicode w, {"$CFG->prefix"}wikicode_subwikis s, {"$CFG
199                  ->prefix"}wikicode_pages p
200              WHERE s.id = ".$subwikid." AND
                  s.wikiid = w.id AND

```

```

201         w.firstpagetitle = p.title AND
202         p.subwikiid = s.id";
203     return get_record_sql($sql);
204 }
205
206 function wikicode_save_section($wikipage, $sectiontitle, $sectioncontent, $userid)
207 {
208     $wiki = wikicode_get_wikicode_from_pageid($wikipage->id);
209     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
210     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
211
212     if (has_capability('mod/wikicode:editpage', $context)) {
213         $version = wikicode_get_current_version($wikipage->id);
214         $content = wikicode_parser_proxy::get_section($version->content, $version->
215             contentformat, $sectiontitle, true);
216
217         $newcontent = $content[0] . $sectioncontent . $content[2];
218
219         return wikicode_save_page($wikipage, $newcontent, $userid);
220     } else {
221         return false;
222     }
223 }
224
225 /**
226  * Save page content
227  * @param object $wikipage
228  * @param string $newcontent
229  * @param int $userid
230  */
231 function wikicode_save_page($wikipage, $newcontent, $userid) {
232
233     $wiki = wikicode_get_wikicode_from_pageid($wikipage->id);
234     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
235     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
236
237     if (has_capability('mod/wikicode:editpage', $context)) {
238         $version = wikicode_get_current_version($wikipage->id);
239
240         $version->content = $newcontent;
241         $version->userid = $userid;
242         $version->version++;
243         $version->timecreated = time();
244         $versionid = insert_record('wikicode_versions', $version);
245
246         $wikipage->timemodified = $version->timecreated;
247         $wikipage->userid = $userid;
248         $return = wikicode_refresh_cachedcontent($wikipage, $newcontent);
249
250         return $return;
251     } else {
252         return false;

```

```

253     }
254 }
255
256 /**
257  * Compile page content
258  * @param object $wikipage
259  * @param string $newcontent
260  * @param int $userid
261  */
262 function wikicode_compile_page($wikipage, $newcontent, $userid, $download) {
263
264     $wiki = wikicode_get_wikicode_from_pageid($wikipage->id);
265     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
266     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
267
268     if (has_capability('mod/wikicode:editpage', $context)) {
269
270         //Creamos el fichero
271         $fileC = fopen("code.c","w");
272         $codigo = wikicode_remove_tags($newcontent);
273         $codigo = str_replace("\\", "\\", $codigo);
274         fputs($fileC,$codigo);
275         fclose($fileC);
276
277         //Detectamos el OS
278         $userAgent = $_SERVER[HTTP_USER_AGENT];
279         $userAgent = strtolower ($userAgent);
280
281         //Llamamos al compilador correspondiente
282         if(strpos($userAgent, "windows") !== false) {
283             $output=system($wiki->mingwpath . " code.c -o moodle.exe -w 2>
                output.txt");
284             $sejecutable='moodle.exe';
285         }
286         else {
287             $output=system($wiki->gccpath . " code.c -o moodle.out -w
                2> output.txt");
288             $sejecutable='moodle.out';
289         }
290
291         $file_output = fopen ("output.txt", "r");
292         $output = fread($file_output, filesize("output.txt"));
293         $output = utf8_encode($output);
294
295         if ( $output == '0' || $output == '' ) {
296             $output = 'Compilacion correcta';
297         } else {
298             $wikipage->errorcompile++;
299         }
300
301         //Guardamos los datos
302         $wikipage->cachedcompile = $newcontent;
303         $wikipage->cachedgcc = $output;
304         update_record('wikicode_pages', $wikipage);

```

```

305
306         //Descargamos el ejecutable
307         if ($output == 'Compilacion correcta' and $download == TRUE) {
308             echo "<script language='JavaScript'>window.open('".
309                 $ejecutable."')</script>";
310         }
311
312         return array('page' => $wikipage);
313     } else {
314         return false;
315     }
316 }
317
318 function wikicode_remove_tags($newcontent) {
319
320     $codigo = str_replace("<\/!>", "", $newcontent);
321
322     $desde = strpos($codigo, "<!");
323
324     while (is_numeric($desde)) {
325         $hasta = strpos($codigo, ">", $desde);
326         $codigo = substr_replace($codigo, '', $desde, $hasta - $desde + 1);
327
328         $desde = strpos($codigo, "<!");
329     }
330
331     return $codigo;
332 }
333
334 function wikicode_remove_tags_owner($codigo) {
335
336     global $USER;
337
338     $desde = strpos($codigo, "<!". $USER->username.">");
339
340     while (is_numeric($desde)) {
341         $codigoaux = substr($codigo, $desde);
342         $desdeaux = strpos($codigoaux, "<\/!>");
343
344         $codigo = substr_replace($codigo, '', $desde + $desdeaux, 4);
345         $codigo = substr_replace($codigo, '', $desde, strlen("<!". $USER->
346             username.">"));
347
348         $desde = strpos($codigo, "<!". $USER->username.">");
349     }
350
351     return $codigo;
352 }
353
354 function wikicode_refresh_cachedcontent($page, $newcontent = null) {
355
356     $version = wikicode_get_current_version($page->id);
357     if (empty($version)) {
358         return null;
359     }

```

```

357     }
358     if (!isset($newcontent)) {
359         $newcontent = $version->content;
360     }
361
362     $options = array('swid' => $page->subwikiid, 'pageid' => $page->id);
363
364     if ($version->contentformat = 'nwiki') {
365         $page->cachedcontent = $version->content;
366     }
367     else {
368         $page->cachedcontent = $parseroutput['toc'] . $parseroutput['
369             parsed_text'];
370     }
371
372     $page->timerendered = time();
373     update_record('wikicode_pages', $page);
374
375     wikicode_refresh_page_links($page, $parseroutput['link_count']);
376
377     return array('page' => $page, 'sections' => $parseroutput['repeated_sections'],
378         'version' => $version->version);
379 }
380 /**
381  * Restore a page
382  */
383 function wikicode_restore_page($wikipage, $newcontent, $userid) {
384     $return = wikicode_save_page($wikipage, $newcontent, $userid);
385     return $return['page'];
386 }
387
388 function wikicode_refresh_page_links($page, $links) {
389
390     delete_records('wikicode_links', 'frompageid', $page->id);
391     foreach ($links as $linkname => $linkinfo) {
392
393         $newlink = new stdClass();
394         $newlink->subwikiid = $page->subwikiid;
395         $newlink->frompageid = $page->id;
396
397         if ($linkinfo['new']) {
398             $newlink->tomissingpage = $linkname;
399         } else {
400             $newlink->topageid = $linkinfo['pageid'];
401         }
402
403         try {
404             insert_record('wikicode_links', $newlink);
405         } catch (dml_exception $e) {
406             debugging($e->getMessage());
407         }
408     }
409 }

```

```

409
410 /**
411  * Create a new wiki page, if the page exists, return existing pageid
412  * @param int $swid
413  * @param string $title
414  * @param string $format
415  * @param int $userid
416  */
417 function wikicode_create_page($swid, $title, $format, $userid) {
418     global $PAGE;
419     $subwiki = wikicode_get_subwiki($swid);
420     $cm = get_coursemodule_from_instance('wikicode', $subwiki->wikiid);
421     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
422     require_capability('mod/wikicode:editpage', $context);
423     // if page exists
424     if ($page = wikicode_get_page_by_title($swid, $title)) {
425         return $page->id;
426     }
427
428     // Creating a new empty version
429     $version = new stdClass();
430     $version->content = '';
431     $version->contentformat = $format;
432     $version->version = 0;
433     $version->timecreated = time();
434     $version->userid = $userid;
435
436     $versionid = null;
437     $versionid = insert_record('wikicode_versions', $version);
438
439     // Createing a new empty page
440     $page = new stdClass();
441     $page->subwikiid = $swid;
442     $page->title = $title;
443     $page->cachedcontent = '';
444     $page->timecreated = $version->timecreated;
445     $page->timemodified = $version->timecreated;
446     $page->timerendered = $version->timecreated;
447     $page->userid = $userid;
448     $page->pageviews = 0;
449     $page->readonly = 0;
450     $page->cachedcompile = '';
451     $page->cachedgcc = '';
452     $page->errorcompile = 0;
453     $page->timestartedit = 0;
454     $page->timeendedit = 0;
455
456     $pageid = insert_record('wikicode_pages', $page);
457
458     // Setting the pageid
459     $version->id = $versionid;
460     $version->pageid = $pageid;
461     update_record('wikicode_versions', $version);
462

```

```

463     wikicode_make_cache_expire($page->title);
464     return $pageid;
465 }
466
467 function wikicode_make_cache_expire($pagename) {
468
469     global $CFG;
470
471     $sql = "UPDATE {$CFG->prefix}wikicode_pages
472           SET timerendered = 0
473           WHERE id IN ( SELECT l.frompageid
474                        FROM {$CFG->prefix}wikicode_links l
475                        WHERE l.tomissingpage = ".$pagename."
476                        )";
477     execute_sql ($sql);
478 }
479
480 /**
481  * Get a specific version of page
482  * @param int $pageid
483  * @param int $version
484  */
485 function wikicode_get_wikicode_page_version($pageid, $version) {
486     return get_record('wikicode_versions', 'pageid', $pageid, 'version',
487                      $version);
488 }
489
490 /**
491  * Get version list
492  * @param int $pageid
493  * @param int $limitfrom
494  * @param int $limitnum
495  */
496 function wikicode_get_wikicode_page_versions($pageid, $limitfrom, $limitnum) {
497     return get_records('wikicode_versions', 'pageid', $pageid, 'version DESC',
498                      '*', $limitfrom, $limitnum);
499 }
500
501 /**
502  * Count the number of page version
503  * @param int $pageid
504  */
505 function wikicode_count_wikicode_page_versions($pageid) {
506     return count_records('wikicode_versions', 'pageid', $pageid);
507 }
508
509 /**
510  * Get linked from page
511  * @param int $pageid
512  */
513 function wikicode_get_linked_to_pages($pageid) {
514     return get_records('wikicode_links', 'frompageid', $pageid);
515 }

```



```

515  /**
516   * Get linked from page
517   * @param int $pageid
518   */
519  function wikicode_get_linked_from_pages($pageid) {
520      return get_records('wikicode_links', 'topageid', $pageid);
521  }
522
523  /**
524   * Get pages which user have been edited
525   * @param int $swid
526   * @param int $userid
527   */
528  function wikicode_get_contributions($swid, $userid) {
529
530      global $CFG;
531
532      $sql = "SELECT v.*
533              FROM {$CFG->prefix}wikicode_versions v, {$CFG->prefix}wikicode_pages p
534              WHERE p.subwikiid = ".$swid." AND
535              v.pageid = p.id AND
536              v.userid = ".$userid."";
537
538      return get_records_sql($sql);
539  }
540
541  /**
542   * Get missing or empty pages in wiki
543   * @param int $swid sub wiki id
544   */
545  function wikicode_get_missing_or_empty_pages($swid) {
546
547      global $CFG;
548
549      $sql = "SELECT DISTINCT p.title, p.id, p.subwikiid
550              FROM {$CFG->prefix}wikicode w, {$CFG->prefix}wikicode_subwikis s, {$CFG-
551              >prefix}wikicode_pages p
552              WHERE s.wikiid = w.id and
553              s.id = ".$swid." and
554              w.firstpagetitle != p.title and
555              p.subwikiid = ".$swid." and
556              1 = (SELECT count(*)
557                  FROM {$CFG->prefix}wikicode_versions v
558                  WHERE v.pageid = p.id)
559              UNION
560              SELECT DISTINCT l.tomissingpage as title, 0 as id, l.subwikiid
561              FROM {$CFG->prefix}wikicode_links l
562              WHERE l.subwikiid = ".$swid." and
563              l.topageid = 0";
564
565      return get_records_sql($sql);
566  }
567  /**

```

```

568 * Get pages list in wiki
569 * @param int $swid sub wiki id
570 */
571 function wikicode_get_page_list($swid) {
572     $records = get_records('wikicode_pages', 'subwikiid', $swid, 'title ASC');
573     return $records;
574 }
575
576 /**
577 * Return a list of orphaned wikis for one specific subwiki
578 * @global object
579 * @param int $swid sub wiki id
580 */
581 function wikicode_get_orphaned_pages($swid) {
582
583     global $CFG;
584
585     $sql = "SELECT p.id, p.title
586           FROM {$CFG->prefix}wikicode_pages p, {$CFG->prefix}wikicode w , {$CFG->
587             prefix}wikicode_subwikis s
588           WHERE p.subwikiid = ".$swid."
589             AND s.id = ".$swid."
590             AND w.id = s.wikiid
591             AND p.title != w.firstpagetitle
592             AND p.id NOT IN (SELECT topageid FROM {$CFG->prefix}wikicode_links
593                               WHERE subwikiid = ".$swid.");";
594
595     return get_records_sql($sql);
596 }
597
598 /**
599 * Search wiki title
600 * @param int $swid sub wiki id
601 * @param string $search
602 */
603 function wikicode_search_title($swid, $search) {
604
605     return get_records_select('wikicode_pages', "subwikiid = ? AND title LIKE ?",
606                               $swid, '%'.$search.'%');
607 }
608
609 /**
610 * Search wiki content
611 * @param int $swid sub wiki id
612 * @param string $search
613 */
614 function wikicode_search_content($swid, $search) {
615
616     return get_records_select('wikicode_pages', "subwikiid = ? AND cachedcontent
617                               LIKE ?", $swid, '%'.$search.'%');
618 }
619
620 /**
621 * Search wiki title and content

```

```

618 * @param int $swid sub wiki id
619 * @param string $search
620 */
621 function wikicode_search_all($swid, $search) {
622
623     return get_records_select('wikicode_pages', "subwikiid = ? AND (cachedcontent
        LIKE ? OR title LIKE ?)", $swid, '%'.$search.'%', '%'.$search.'%');
624 }
625
626 /**
627  * Get user data
628  */
629 function wikicode_get_user_info($userid) {
630     return get_record('user', 'id', $userid);
631 }
632
633 /**
634  * Increase page view nubmer
635  * @param int $page, database record
636  */
637 function wikicode_increment_pageviews($page) {
638
639     $page->pageviews++;
640     update_record('wikicode_pages', $page);
641 }
642
643 //-----
644 //-----
645
646 /**
647  * Text format supported by wiki module
648  */
649 function wikicode_get_formats() {
650     return array('wcode');
651 }
652
653 /**
654  * Parses a string with the wiki markup language in $markup.
655  *
656  * @return Array or false when something wrong has happened.
657  *
658  * Returned array contains the following fields:
659  *     'parsed_text', String. Contains the parsed wiki content.
660  *     'unparsed_text', String. Constains the original wiki content.
661  *     'link_count', Array of 'destination', ..., 'new', "is new?"). Contains the
        internal wiki links found in the wiki content.
662  *     'deleted_sections', the list of deleted sections.
663  *     '' =>
664  *
665  */
666 function wikicode_parse_content($markup, $pagecontent, $options = array()) {
667     global $PAGE;
668
669     $subwiki = wikicode_get_subwiki($options['swid']);

```

```

670     $cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid);
671     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
672
673     $parser_options = array(
674         'link_callback' => '/mod/wikicode/locallib.php:wiki_parser_link',
675         'link_callback_args' => array('swid' => $options['swid']),
676         'table_callback' => '/mod/wikicode/locallib.php:wiki_parser_table',
677         'real_path_callback' => '/mod/wikicode/locallib.php:wiki_parser_real_path',
678         'real_path_callback_args' => array(
679             'context' => $context,
680             'component' => 'mod_wikicode',
681             'filearea' => 'attachments',
682             'subwikiid' => $subwiki->id,
683             'pageid' => $options['pageid']
684         ),
685         'pageid' => $options['pageid'],
686         'pretty_print' => (isset($options['pretty_print']) && $options['pretty_print']),
687         'printable' => (isset($options['printable']) && $options['printable'])
688     );
689
690     return wikicode_parser_proxy::parse($pagecontent, $markup, $parser_options);
691 }
692
693 /**
694  * This function is the parser callback to parse wiki links.
695  *
696  * It returns the necessary information to print a link.
697  *
698  * NOTE: Empty pages and non-existent pages must be print in red color.
699  *
700  * @param link name of a page
701  * @param $options
702  *
703  * @return
704  *
705  * @TODO Doc return and options
706  */
707 function wikicode_parser_link($link, $options = null) {
708     global $CFG;
709
710     if (is_object($link)) {
711         $parsedlink = array('content' => $link->title, 'url' => $CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $link->id, 'new' => false, 'link_info' => array('link' => $link->title, 'pageid' => $link->id, 'new' => false));
712
713         $version = wikicode_get_current_version($link->id);
714         if ($version->version == 0) {
715             $parsedlink['new'] = true;
716         }
717         return $parsedlink;
718     } else {
719         $swid = $options['swid'];

```

```

720
721     if ($page = wikicode_get_page_by_title($swid, $link)) {
722         $parsedlink = array('content' => $link, 'url' => $CFG->wwwroot . '/mod/
            wikicode/view.php?pageid=' . $page->id, 'new' => false, 'link_info'
            => array('link' => $link, 'pageid' => $page->id, 'new' => false));
723
724         $version = wikicode_get_current_version($page->id);
725         if ($version->version == 0) {
726             $parsedlink['new'] = true;
727         }
728
729         return $parsedlink;
730
731     } else {
732         return array('content' => $link, 'url' => $CFG->wwwroot . '/mod/
            wikicode/create.php?swid=' . $swid . '&title=' . urlencode(
            $link) . '&action=new', 'new' => true, 'link_info' => array('
            link' => $link, 'new' => true, 'pageid' => 0));
733     }
734 }
735
736
737 /**
738  * Returns the table fully parsed (HTML)
739  *
740  * @return HTML for the table $table
741  *
742  */
743 function wikicode_parser_table($table) {
744     global $OUTPUT;
745
746     $htmltable = new html_table();
747
748     $headers = $table[0];
749     $htmltable->head = array();
750     foreach ($headers as $h) {
751         $htmltable->head[] = $h[1];
752     }
753
754     array_shift($table);
755     $htmltable->data = array();
756     foreach ($table as $row) {
757         $row_data = array();
758         foreach ($row as $r) {
759             $row_data[] = $r[1];
760         }
761         $htmltable->data[] = $row_data;
762     }
763
764     return html_writer::table($htmltable);
765 }
766
767 /**
768  * Returns an absolute path link, unless there is no such link.

```

```

769  *
770  * @param string $url Link's URL or filename
771  * @param stdClass $context filearea params
772  * @param string $component The component the file is associated with
773  * @param string $filearea The filearea the file is stored in
774  * @param int $swid Sub wiki id
775  *
776  * @return string URL for files full path
777  */
778
779 function wikicode_parser_real_path($url, $context, $component, $filearea, $swid) {
780     global $CFG;
781
782     if (preg_match("/^(?:http|ftp)s?\\:\\\\\/\\\/", $url)) {
783         return $url;
784     } else {
785
786         $file = 'pluginfile.php';
787         if (!$CFG->slasharguments) {
788             $file = $file . '?file=';
789         }
790         $baseurl = "$CFG->wwwroot/$file/{ $context->id }/$component/$filearea/$swid/"
791             ;
792         // it is a file in current file area
793         return $baseurl . $url;
794     }
795 }
796
797 /**
798  * Returns the token used by a wiki language to represent a given tag or "object" (
799  * bold -> **)
800  *
801  * @return A string when it has only one token at the beginning (f. ex. lists). An
802  * array composed by 2 strings when it has 2 tokens, one at the beginning and one
803  * at the end (f. ex. italics). Returns false otherwise.
804  */
805
806 function wikicode_parser_get_token($markup, $name) {
807
808     return wikicode_parser_proxy::get_token($name, $markup);
809 }
810
811 /**
812  * Checks if current user can view a subwiki
813  *
814  * @param $subwiki
815  */
816
817 function wikicode_user_can_view($subwiki) {
818     global $USER;
819
820     $wiki = wikicode_get_wiki($subwiki->wikiid);
821     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
822     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
823
824     // Working depending on activity groupmode

```

```

819     switch (groups_get_activity_groupmode($cm)) {
820     case NOGROUPS:
821
822         if ($wiki->wikimode == 'collaborative') {
823             // Collaborative Mode:
824             // There is one wiki for all the class.
825             //
826             // Only view capability needed
827             return has_capability('mod/wikicode:viewpage', $context);
828         } else if ($wiki->wikimode == 'individual') {
829             // Individual Mode:
830             // Each person owns a wiki.
831             if ($subwiki->userid == $USER->id) {
832                 // Only the owner of the wiki can view it
833                 return has_capability('mod/wikicode:viewpage', $context);
834             } else { // User has special capabilities
835                 // User must have:
836                 //     mod/wiki:viewpage capability
837                 // and
838                 //     mod/wiki:managewiki capability
839                 $view = has_capability('mod/wikicode:viewpage', $context);
840                 $manage = has_capability('mod/wikicode:managewiki', $context);
841
842                 return $view && $manage;
843             }
844         } else {
845             //Error
846             return false;
847         }
848     case SEPARATEGROUPS:
849         // Collaborative and Individual Mode
850         //
851         // Collaborative Mode:
852         //     There is one wiki per group.
853         // Individual Mode:
854         //     Each person owns a wiki.
855         if ($wiki->wikimode == 'collaborative' || $wiki->wikimode == 'individual')
856         {
857             // Only members of subwiki group could view that wiki
858             if ($subwiki->groupid == groups_get_activity_group($cm)) {
859                 // Only view capability needed
860                 return has_capability('mod/wikicode:viewpage', $context);
861             } else { // User is not part of that group
862                 // User must have:
863                 //     mod/wiki:managewiki capability
864                 // or
865                 //     moodle/site:accessallgroups capability
866                 // and
867                 //     mod/wiki:viewpage capability
868                 $view = has_capability('mod/wikicode:viewpage', $context);
869                 $manage = has_capability('mod/wikicode:managewiki', $context);
870                 $access = has_capability('moodle/site:accessallgroups', $context);
871                 return ($manage || $access) && $view;

```

```

872     }
873     } else {
874         //Error
875         return false;
876     }
877     case VISIBLEGROUPS:
878         // Collaborative and Individual Mode
879         //
880         // Collaborative Mode:
881         //     There is one wiki per group.
882         // Individual Mode:
883         //     Each person owns a wiki.
884         if ($wiki->wikimode == 'collaborative' || $wiki->wikimode == 'individual')
885         {
886             // Everybody can read all wikis
887             //
888             // Only view capability needed
889             return has_capability('mod/wikicode:viewpage', $context);
890         } else {
891             //Error
892             return false;
893         }
894     default: // Error
895         return false;
896 }
897
898 /**
899  * Checks if current user can edit a subwiki
900  *
901  * @param $subwiki
902  */
903 function wikicode_user_can_edit($subwiki) {
904     global $USER;
905
906     $wiki = wikicode_get_wiki($subwiki->wikiid);
907     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
908     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
909
910     // Working depending on activity groupmode
911     switch (groups_get_activity_groupmode($cm)) {
912     case NOGROUPS:
913
914         if ($wiki->wikimode == 'collaborative') {
915             // Collaborative Mode:
916             // There is a wiki for all the class.
917             //
918             // Only edit capability needed
919             return has_capability('mod/wikicode:editpage', $context);
920         } else if ($wiki->wikimode == 'individual') {
921             // Individual Mode
922             // There is a wiki per user
923
924             // Only the owner of that wiki can edit it

```



```

925         if ($subwiki->userid == $USER->id) {
926             return has_capability('mod/wikicode:editpage', $context);
927         } else { // Current user is not the owner of that wiki.
928
929             // User must have:
930             //     mod/wiki:editpage capability
931             // and
932             //     mod/wiki:managewiki capability
933             $edit = has_capability('mod/wikicode:editpage', $context);
934             $manage = has_capability('mod/wikicode:managewiki', $context);
935
936             return $edit && $manage;
937         }
938     } else {
939         //Error
940         return false;
941     }
942 case SEPARATEGROUPS:
943     if ($wiki->wikimode == 'collaborative') {
944         // Collaborative Mode:
945         // There is one wiki per group.
946         //
947         // Only members of subwiki group could edit that wiki
948         if ($subwiki->groupid == groups_get_activity_group($cm)) {
949             // Only edit capability needed
950             return has_capability('mod/wikicode:editpage', $context);
951         } else { // User is not part of that group
952             // User must have:
953             //     mod/wiki:managewiki capability
954             // and
955             //     moodle/site:accessallgroups capability
956             // and
957             //     mod/wiki:editpage capability
958             $manage = has_capability('mod/wikicode:managewiki', $context);
959             $access = has_capability('moodle/site:accessallgroups', $context);
960             $edit = has_capability('mod/wikicode:editpage', $context);
961             return $manage && $access && $edit;
962         }
963     } else if ($wiki->wikimode == 'individual') {
964         // Individual Mode:
965         // Each person owns a wiki.
966         //
967         // Only the owner of that wiki can edit it
968         if ($subwiki->userid == $USER->id) {
969             return has_capability('mod/wikicode:editpage', $context);
970         } else { // Current user is not the owner of that wiki.
971             // User must have:
972             //     mod/wiki:managewiki capability
973             // and
974             //     moodle/site:accessallgroups capability
975             // and
976             //     mod/wiki:editpage capability
977             $manage = has_capability('mod/wikicode:managewiki', $context);
978             $access = has_capability('moodle/site:accessallgroups', $context);

```

```

979         $edit = has_capability('mod/wikicode:editpage', $context);
980         return $manage && $access && $edit;
981     }
982 } else {
983     //Error
984     return false;
985 }
986 case VISIBLEGROUPS:
987     if ($wiki->wikimode == 'collaborative') {
988         // Collaborative Mode:
989         // There is one wiki per group.
990         //
991         // Only members of subwiki group could edit that wiki
992         if (groups_is_member($subwiki->groupid)) {
993             // Only edit capability needed
994             return has_capability('mod/wikicode:editpage', $context);
995         } else { // User is not part of that group
996             // User must have:
997             //     mod/wiki:managewiki capability
998             // and
999             //     mod/wiki:editpage capability
1000             $manage = has_capability('mod/wikicode:managewiki', $context);
1001             $edit = has_capability('mod/wikicode:editpage', $context);
1002             return $manage && $edit;
1003         }
1004     } else if ($wiki->wikimode == 'individual') {
1005         // Individual Mode:
1006         // Each person owns a wiki.
1007         //
1008         // Only the owner of that wiki can edit it
1009         if ($subwiki->userid == $USER->id) {
1010             return has_capability('mod/wikicode:editpage', $context);
1011         } else { // Current user is not the owner of that wiki.
1012             // User must have:
1013             //     mod/wiki:managewiki capability
1014             // and
1015             //     mod/wiki:editpage capability
1016             $manage = has_capability('mod/wikicode:managewiki', $context);
1017             $edit = has_capability('mod/wikicode:editpage', $context);
1018             return $manage && $edit;
1019         }
1020     } else {
1021         //Error
1022         return false;
1023     }
1024     default: // Error
1025         return false;
1026 }
1027 }
1028
1029 //-----
1030 // Locks
1031 //-----
1032

```

```

1033 /**
1034  * Checks if a page-section is locked.
1035  *
1036  * @return true if the combination of section and page is locked, FALSE otherwise.
1037  */
1038 function wikicode_is_page_section_locked($pageid, $userid, $section = null) {
1039
1040     $sql = "pageid = ".$pageid." AND lockedat > ".time()." AND userid != ".$userid;
1041
1042     if (!empty($section)) {
1043         $sql .= " AND (sectionname = ".$section." OR sectionname IS null)";
1044     }
1045
1046     return record_exists_select('wikicode_locks', $sql);
1047 }
1048
1049 /**
1050  * Inserts or updates a wikicode_locks record.
1051  */
1052 function wikicode_set_lock($pageid, $userid, $section = null, $insert = false) {
1053
1054     if (wikicode_is_page_section_locked($pageid, $userid, $section)) {
1055         return false;
1056     }
1057
1058     $lock = get_record('wikicode_locks', 'pageid', $pageid, 'userid', $userid, '
1059         sectionname', $section);
1060
1061     if (!empty($lock)) {
1062         update_record('wikicode_locks', array('id' => $lock->id, 'lockedat' => time
1063             () + LOCK_TIMEOUT));
1064     } else if ($insert) {
1065         insert_record('wikicode_locks', array('pageid' => $pageid, 'sectionname' =>
1066             $section, 'userid' => $userid, 'lockedat' => time() + 30));
1067     }
1068
1069     return true;
1070 }
1071
1072 /**
1073  * Deletes wikicode_locks that are not in use. (F.Ex. after submitting the changes)
1074  * . If no userid is present, it deletes ALL the wikicode_locks of a specific
1075  * page.
1076  */
1077 function wikicode_delete_locks($pageid, $userid = null, $section = null,
1078     $delete_from_db = true, $delete_section_and_page = false) {
1079
1080 }
1081
1082 /**
1083  * Deletes wikicode_locks that expired 1 hour ago.
1084  */
1085 function wikicode_delete_old_locks() {

```

```

1081
1082     delete_records_select('wikicode_locks', "lockedat < ?", time() - 3600);
1083 }
1084
1085 /**
1086  * Deletes wikicode_links. It can be sepecific link or links attached in subwiki
1087  *
1088  * @global mixed $DB database object
1089  * @param int $linkid id of the link to be deleted
1090  * @param int $topageid links to the specific page
1091  * @param int $frompageid links from specific page
1092  * @param int $subwikiid links to subwiki
1093  */
1094 function wikicode_delete_links($linkid = null, $topageid = null, $frompageid = null
1095     , $subwikiid = null) {
1096     $params = array();
1097
1098     // if link id is givien then don't check for anything else
1099     if (!empty($linkid)) {
1100         $params['id'] = $linkid;
1101     } else {
1102         if (!empty($topageid)) {
1103             $params['topageid'] = $topageid;
1104         }
1105         if (!empty($frompageid)) {
1106             $params['frompageid'] = $frompageid;
1107         }
1108         if (!empty($subwikiid)) {
1109             $params['subwikiid'] = $subwikiid;
1110         }
1111     }
1112
1113     //Delete links if any params are passed, else nothing to delete.
1114     if (!empty($params)) {
1115         delete_records('wikicode_links', $params);
1116     }
1117 }
1118
1119 /**
1120  * Delete wiki synonyms related to subwikiid or page
1121  *
1122  * @param int $subwikiid id of sunbwiki
1123  * @param int $pageid id of page
1124  */
1125 function wikicode_delete_synonym($subwikiid, $pageid = null) {
1126     if (!is_null($pageid)) {
1127         $params['pageid'] = $pageid;
1128         delete_records('wikicode_synonyms', 'subwikiid', $subwikiid, '
1129             pageid', $pageid);
1130     } else {
1131         delete_records('wikicode_synonyms', 'subwikiid', $subwikiid);
1132     }
1133 }

```

```

1133
1134 /**
1135  * Delete pages and all related data
1136  *
1137  * @param mixed $context context in which page needs to be deleted.
1138  * @param mixed $pageids id's of pages to be deleted
1139  * @param int $subwikiid id of the subwiki for which all pages should be deleted
1140  */
1141 function wikicode_delete_pages($context, $pageids = null, $subwikiid = null) {
1142
1143     if (!empty($pageids) && is_int($pageids)) {
1144         $pageids = array($pageids);
1145     } else if (!empty($subwikiid)) {
1146         $pageids = wikicode_get_page_list($subwikiid);
1147     }
1148
1149     //If there is no pageid then return as we can't delete anything.
1150     if (empty($pageids)) {
1151         return;
1152     }
1153
1154     /// Delete page and all it's relevent data
1155     foreach ($pageids as $pageid) {
1156         if (is_object($pageid)) {
1157             $pageid = $pageid->id;
1158         }
1159
1160         //Delete page comments
1161         $comments = wikicode_get_comments($context->id, $pageid);
1162         foreach ($comments as $commentid => $commentvalue) {
1163             wikicode_delete_comment($commentid, $context, $pageid);
1164         }
1165
1166         //Delete page tags
1167         $tags = tag_get_tags_array('wikicode_pages', $pageid);
1168         foreach ($tags as $tagid => $tagvalue) {
1169             tag_delete_instance('wikicode_pages', $pageid, $tagid);
1170         }
1171
1172         //Delete Synonym
1173         wikicode_delete_synonym($subwikiid, $pageid);
1174
1175         //Delete all page versions
1176         wikicode_delete_page_versions(array($pageid=>array(0)));
1177
1178         //Delete all page locks
1179         wikicode_delete_locks($pageid);
1180
1181         //Delete all page links
1182         wikicode_delete_links(null, $pageid);
1183
1184         //Delete page
1185         delete_records('wikicode_pages', 'id', $pageid);
1186     }

```

```

1187 }
1188
1189 /**
1190  * Delete specified versions of a page or versions created by users
1191  * if version is 0 then it will remove all versions of the page
1192  *
1193  * @param array $deleteversions delete versions for a page
1194  */
1195 function wikicode_delete_page_versions($deleteversions) {
1196
1197     /// delete page-versions
1198     foreach ($deleteversions as $id => $versions) {
1199         foreach ($versions as $version) {
1200             //If version = 0, then remove all versions of this page, else remove
1201             //specified version
1202             if ($version != 0) {
1203                 delete_records('wikicode_versions', 'pageid', $id, 'version',
1204                             $version);
1205             } else {
1206                 delete_records('wikicode_versions', 'pageid', $id);
1207             }
1208         }
1209     }
1210
1211     function wikicode_get_comment($commentid){
1212         return get_record('comments', 'id', $commentid);
1213     }
1214
1215     /**
1216     * Returns all comments by context and pageid
1217     *
1218     * @param $context. Current context
1219     * @param $pageid. Current pageid
1220     */
1221     function wikicode_get_comments($contextid, $pageid) {
1222
1223         return get_records('comments', 'contextid', $contextid, 'itemid', $pageid, '
1224             commentarea', 'wikicode_page');
1225     }
1226
1227     /**
1228     * Add comments to database
1229     *
1230     * @param object $context. Current context
1231     * @param int $pageid. Current pageid
1232     * @param string $content. Content of the comment
1233     * @param string editor. Version of editor we are using.
1234     */
1235     function wikicode_add_comment($context, $pageid, $content, $editor) {
1236         global $CFG;
1237         require_once($CFG->dirroot . '/comment/lib.php');
1238
1239         list($context, $course, $cm) = get_context_info_array($context->id);

```

```

1239     $cmt = new stdClass();
1240     $cmt->context = $context;
1241     $cmt->itemid = $pageid;
1242     $cmt->area = 'wikicode_page';
1243     $cmt->course = $course;
1244     $cmt->component = 'mod_wikicode';
1245
1246     $manager = new comment($cmt);
1247
1248     if ($editor == 'creole') {
1249         $manager->add($content, FORMAT_CREOLE);
1250     } else if ($editor == 'html') {
1251         $manager->add($content, FORMAT_HTML);
1252     } else if ($editor == 'nwiki') {
1253         $manager->add($content, FORMAT_NWIKI);
1254     } else if ($editor == 'wcode' ) {
1255         $manager->add($content, FORMAT_WCODE);
1256     }
1257
1258 }
1259
1260 /**
1261  * Delete comments from database
1262  *
1263  * @param $idcomment. Id of comment which will be deleted
1264  * @param $context. Current context
1265  * @param $pageid. Current pageid
1266  */
1267 function wikicode_delete_comment($idcomment, $context, $pageid) {
1268     global $CFG;
1269     require_once($CFG->dirroot . '/comment/lib.php');
1270
1271     list($context, $course, $cm) = get_context_info_array($context->id);
1272     $cmt = new stdClass();
1273     $cmt->context = $context;
1274     $cmt->itemid = $pageid;
1275     $cmt->area = 'wikicode_page';
1276     $cmt->course = $course;
1277     $cmt->component = 'mod_wikicode';
1278
1279     $manager = new comment($cmt);
1280     $manager->delete($idcomment);
1281
1282 }
1283
1284 /**
1285  * Delete all comments from wiki
1286  *
1287  */
1288 function wikicode_delete_comments_wiki() {
1289     global $PAGE;
1290
1291     $cm = $PAGE->cm;
1292     $context = get_context_instance(CONTEXT_MODULE, $cm->id);

```

```

1293
1294     $table = 'comments';
1295     $select = 'contextid = ?';
1296
1297     delete_records_select($table, $select, $context->id);
1298
1299 }
1300
1301 function wikicode_add_progress($pageid, $oldversionid, $versionid, $progress) {
1302     for ($v = $oldversionid + 1; $v <= $versionid; $v++) {
1303         $user = wikicode_get_wikicode_page_id($pageid, $v);
1304
1305         insert_record('wikicode_progress', array('userid' => $user->userid, 'pageid
            ' => $pageid, 'versionid' => $v, 'progress' => $progress));
1306     }
1307 }
1308
1309 function wikicode_get_wikicode_page_id($pageid, $id) {
1310     return get_record('wikicode_versions', 'pageid', $pageid, 'id', $id);
1311 }
1312
1313 function wikicode_print_page_content($page, $context, $subwikiid) {
1314     global $OUTPUT, $CFG;
1315
1316     if ($page->timerendered + WIKI_REFRESH_CACHE_TIME < time()) {
1317         $content = wikicode_refresh_cachedcontent($page);
1318         $page = $content['page'];
1319     }
1320
1321     if (isset($content)) {
1322         $box = '';
1323         foreach ($content['sections'] as $s) {
1324             $box .= '<p>' . get_string('repeatedsection', 'wikicode', $s) . '</p>';
1325         }
1326
1327         if (!empty($box)) {
1328             echo $OUTPUT->box($box);
1329         }
1330     }
1331
1332     $html = format_text(wikicode_remove_tags($page->cachedcontent), FORMAT_PLAIN,
        array('overflowdiv'=>true));
1333
1334     print_simple_box_start('center', '70%', '', '20');
1335     print_box($html);
1336     print_simple_box_end();
1337
1338     wikicode_increment_pageviews($page);
1339
1340 }
1341
1342 /**
1343  * This function trims any given text and returns it with some dots at the end
1344  *

```



```

1345 * @param string $text
1346 * @param string $limit
1347 *
1348 * @return string
1349 */
1350 function wikicode_trim_string($text, $limit = 25) {
1351
1352     if (textlib::strlen($text) > $limit) {
1353         $text = textlib::substr($text, 0, $limit) . '...';
1354     }
1355
1356     return $text;
1357 }
1358
1359 /**
1360  * Prints default edit form fields and buttons
1361  *
1362  * @param string $format Edit form format (html, creole...)
1363  * @param integer $version Version number. A negative number means no versioning.
1364  */
1365
1366 function wikicode_print_edit_form_default_fields($format, $pageid, $version = -1,
1367     $upload = false, $deleteuploads = array()) {
1368     global $CFG, $PAGE, $OUTPUT;
1369
1370     echo '<input type="hidden" name="sesskey" value="' . sesskey() . '" />';
1371
1372     if ($version >= 0) {
1373         echo '<input type="hidden" name="version" value="' . $version . '" />';
1374     }
1375
1376     echo '<input type="hidden" name="format" value="' . $format . '" />';
1377
1378     //attachments
1379     require_once($CFG->dirroot . '/lib/form/filemanager.php');
1380
1381     $filemanager = new MoodleQuickForm_filemanager('attachments', get_string('
1382         wikiattachments', 'wikicode'), array('id' => 'attachments'), array('subdirs
1383         ' => false, 'maxfiles' => 99, 'maxbytes' => $CFG->maxbytes));
1384
1385     $value = file_get_submitted_draft_itemid('attachments');
1386     if (!empty($value) && !$upload) {
1387         $filemanager->setValue($value);
1388     }
1389
1390     echo "<fieldset class=\"wiki-upload-section clearfix\"><legend class=\"ftoggler
1391         \">\" . get_string('uploadtitle', 'wikicode') . "</legend>";
1392
1393     echo $OUTPUT->container_start('mdl-align wiki-form-center aaaaa');
1394     print $filemanager->toHtml();
1395     echo $OUTPUT->container_end();
1396
1397     $cm = $PAGE->cm;
1398     $context = get_context_instance(CONTEXT_MODULE, $cm->id);

```

```

1395
1396     echo $OUTPUT->container_start('mdl-align wiki-form-center wiki-upload-table');
1397     wikicode_print_upload_table($context, 'wikicode_upload', $pageid,
1398         $deleteuploads);
1399     echo $OUTPUT->container_end();
1400
1401     echo "</fieldset>";
1402
1403     echo '<input class="wiki_button" type="submit" name="editoption" value="' .
1404         get_string('save', 'wikicode') . '" />';
1405     echo '<input class="wiki_button" type="submit" name="editoption" value="' .
1406         get_string('upload', 'wikicode') . '" />';
1407     echo '<input class="wiki_button" type="submit" name="editoption" value="' .
1408         get_string('preview') . '" />';
1409     echo '<input class="wiki_button" type="submit" name="editoption" value="' .
1410         get_string('cancel') . '" />';
1411 }
1412
1413 /**
1414  * Prints a table with the files attached to a wiki page
1415  * @param object $context
1416  * @param string $filearea
1417  * @param int $fileitemid
1418  * @param array deleteuploads
1419  */
1420 function wikicode_print_upload_table($context, $filearea, $fileitemid,
1421     $deleteuploads = array()) {
1422     global $CFG, $OUTPUT;
1423
1424     $htmltable = new html_table();
1425
1426     $htmltable->head = array(get_string('deleteupload', 'wikicode'), get_string('
1427         uploadname', 'wikicode'), get_string('uploadactions', 'wiki'));
1428
1429     $fs = get_file_storage();
1430     $files = $fs->get_area_files($context->id, 'mod_wikicode', $filearea,
1431         $fileitemid); //TODO: this is weird (skodak)
1432
1433     foreach ($files as $file) {
1434         if (!$file->is_directory()) {
1435             $checkbox = '<input type="checkbox" name="deleteupload[]" value="' .
1436                 $file->get_pathnamehash() . '"';
1437
1438             if (in_array($file->get_pathnamehash(), $deleteuploads)) {
1439                 $checkbox .= ' checked="checked"';
1440             }
1441
1442             $checkbox .= " />";
1443
1444             $htmltable->data[] = array($checkbox, '<a href="' . file_encode_url(
1445                 $CFG->wwwroot . '/pluginfile.php', '/' . $context->id . '/' .
1446                 wikicode_upload/' . $fileitemid . '/' . $file->get_filename() . '
1447                 ">' . $file->get_filename() . '</a>', "");
1448         }
1449     }

```

```

1437     }
1438
1439     print '<h3 class="upload-table-title">' . get_string('uploadfiletitle', '
        wikicode') . "</h3>";
1440     print html_writer::table($htmltable);
1441 }
1442
1443 /**
1444  * Generate wiki's page tree
1445  *
1446  * @param $page. A wiki page object
1447  * @param $node. Starting navigation_node
1448  * @param $keys. An array to store keys
1449  * @return an array with all tree nodes
1450  */
1451 function wikicode_build_tree($page, $node, &$keys) {
1452     $content = array();
1453     static $icon;
1454     $icon = new pix_icon('f/odt', '');
1455     $pages = wikicode_get_linked_pages($page->id);
1456     foreach ($pages as $p) {
1457         $key = $page->id . ':' . $p->id;
1458         if (in_array($key, $keys)) {
1459             break;
1460         }
1461         array_push($keys, $key);
1462         $l = wikicode_parser_link($p);
1463         $link = new moodle_url('/mod/wikicode/view.php', array('pageid' => $p->id))
            ;
1464         $nodeaux = $node->add($p->title, $link, null, null, null, $icon);
1465         if ($l['new']) {
1466             $nodeaux->add_class('wikicode_newentry');
1467         }
1468         wikicode_build_tree($p, $nodeaux, $keys);
1469     }
1470     $content[] = $node;
1471     return $content;
1472 }
1473
1474 /**
1475  * Get linked pages from page
1476  * @param int $pageid
1477  */
1478 function wikicode_get_linked_pages($pageid) {
1479
1480     global $CFG;
1481
1482     $sql = "SELECT p.id, p.title
1483         FROM {$CFG->prefix}wikicode_pages p
1484         JOIN {$CFG->prefix}wikicode_links l ON l.topageid = p.id
1485         WHERE l.frompageid = ".$pageid."
1486         ORDER BY p.title ASC";
1487     return get_records_sql($sql);
1488 }

```

```
1489
1490 /**
1491  * Get updated pages from wiki
1492  * @param int $pageid
1493  */
1494 function wikicode_get_updated_pages_by_subwiki($swid) {
1495     global $USER, $CFG;
1496
1497     $sql = "SELECT *
1498           FROM {$CFG->prefix}wikicode_pages
1499           WHERE subwikiid = ".$swid." AND timemodified > ".$USER->lastlogin."
1500           ORDER BY timemodified DESC";
1501     return get_records_sql($sql);
1502 }
```

Capítulo 3

Módulo para Moodle 2.x

3.1. Front-End

3.1.1. admin.php

```
1  <?php
2
3  /**
4   * Delete wiki pages or versions
5   *
6   * This will show options for deleting wiki pages or purging page versions
7   * If user have wiki:managewiki ability then only this page will show delete
8   * options
9   *
10  * @package mod-wikicode
11  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
12  */
13
14  require_once('.../config.php');
15  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
16  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
17  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
18
19  $pageid = required_param('pageid', PARAM_INT); // Page ID
20  $delete = optional_param('delete', 0, PARAM_INT); // ID of the page to be deleted.
21  $option = optional_param('option', 1, PARAM_INT); // Option ID
22  $listall = optional_param('listall', 0, PARAM_INT); // list all pages
23  $toversion = optional_param('toversion', 0, PARAM_INT); // max version to be
    deleted
24  $fromversion = optional_param('fromversion', 0, PARAM_INT); // min version to be
    deleted
25
26  if (!$page = wikicode_get_page($pageid)) {
27      print_error('incorrectpageid', 'wikicode');
```

```

28 }
29 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
30     print_error('incorrectsubwikiid', 'wikicode');
31 }
32 if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
33     print_error('invalidcoursemodule');
34 }
35 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
36 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
37     print_error('incorrectwikiid', 'wikicode');
38 }
39
40 require_login($course->id, true, $cm);
41
42
43 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
44 require_capability('mod/wikicode:managewiki', $context);
45 add_to_log($course->id, "wikicode", "admin", "admin.php?id=$cm->id", "$wiki->id");
46
47 //Delete page if a page ID to delete was supplied
48 if (!empty($delete) && confirm_sesskey()) {
49     wikicode_delete_pages($context, $delete, $page->subwikiid);
50     //when current wiki page is deleted, then redirect user to create that page, as
51     //current pageid is invalid after deletion.
52     if ($pageid == $delete) {
53         $params = array('swid' => $page->subwikiid, 'title' => $page->title);
54         $url = new moodle_url('/mod/wikicode/create.php', $params);
55         redirect($url);
56     }
57 }
58
59 //delete version if toversion and fromversion are set.
60 if (!empty($toversion) && !empty($fromversion) && confirm_sesskey()) {
61     //make sure all versions should not be deleted...
62     $versioncount = wikicode_count_wikicode_page_versions($pageid);
63     $versioncount -= 1; //ignore version 0
64     $totalversionstodelete = $toversion - $fromversion;
65     $totalversionstodelete += 1; //added 1 as toversion should be included
66
67     if (($totalversionstodelete >= $versioncount) || ($versioncount <= 1)) {
68         print_error('incorrectdeleteversions', 'wikicode');
69     } else {
70         $versions = array();
71         for ($i = $fromversion; $i <= $toversion; $i++) {
72             //Add all version to deletion list which exist
73             if (wikicode_get_wikicode_page_version($pageid, $i)) {
74                 array_push($versions, $i);
75             }
76         }
77         $purgeversions[$pageid] = $versions;
78         wikicode_delete_page_versions($purgeversions);
79     }
80 }
81

```

```

82 //show actual page
83 $wikipage = new page_wikicode_admin($wiki, $subwiki, $cm);
84
85 $wikipage->set_page($page);
86 $wikipage->print_header();
87 $wikipage->set_view($option, empty($listall)?true:false);
88 $wikipage->print_content();
89
90 $wikipage->print_footer();

```

3.1.2. comments.php

```

1  <?php
2  require_once('.../config.php');
3
4  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8  $pageid = required_param('pageid', PARAM_TEXT);
9
10 if (!$page = wikicode_get_page($pageid)) {
11     print_error('incorrectpageid', 'wikicode');
12 }
13
14 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
15     print_error('incorrectsubwikiid', 'wikicode');
16 }
17
18 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
19     print_error('incorrectwikiid', 'wikicode');
20 }
21
22 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
23     print_error('invalidcoursemodule');
24 }
25
26 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
27
28 require_login($course->id, true, $cm);
29
30 add_to_log($course->id, 'wikicode', 'comments', 'comments.php?id=' . $cm->id, $wiki
    ->id);
31
32 /// Print the page header
33 $wikipage = new page_wikicode_comments($wiki, $subwiki, $cm);
34
35 $wikipage->set_page($page);
36
37 $wikipage->print_header();
38 $wikipage->print_content();

```

```
39 $wikipage->print_footer();
```

3.1.3. comments_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

/// It must be included
from a Moodle page

```

5  }
6
7  require_once($CFG->dirroot . '/lib/formslib.php');
8
9  class mod_wikicode_comments_form extends moodleform {
10     function definition() {
11         $pageid = optional_param('pageid', 0, PARAM_INT);
12         $mform =& $this->_form;
13
14         $current = $this->_customdata['current'];
15         $commentoptions = $this->_customdata['commentoptions'];
16
17         // visible elements
18         $mform->addElement('editor', 'entrycomment_editor', get_string('comment', '
glossary'), null, $commentoptions);
19         $mform->addRule('entrycomment_editor', get_string('required'), 'required',
null, 'client');
20         $mform->setType('entrycomment_editor', PARAM_RAW); // processed by trust
text or cleaned before the display
21
22         // hidden optional params
23         $mform->addElement('hidden', 'id', '');
24         $mform->setType('id', PARAM_INT);
25
26         $mform->addElement('hidden', 'action', '');
27         $mform->setType('action', PARAM_ACTION);
28
29         //
-----
30
31         // buttons
32         $this->add_action_buttons(false);
33
34         //
-----
35
36         $this->set_data($current);
37     }
38
39     public function edit_definition($current, $commentoptions) {
40         $this->set_data($current);
41         $this->set_data($commentoptions);

```



```

40     }
41 }

```

3.1.4. create.php

```

1  <?php
2
3  require_once('.../config.php');
4  require_once(dirname(__FILE__) . '/create_form.php');
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/lib/lib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  // this page accepts two actions: new and create
10 // 'new' action will display a form contains page title and page format
11 // selections
12 // 'create' action will create a new page in db, and redirect to
13 // page editing page.
14 $action = optional_param('action', 'new', PARAM_TEXT);
15 // The title of the new page, can be empty
16 $title = optional_param('title', '', PARAM_TEXT);
17 $wid = optional_param('wid', 0, PARAM_INT);
18 $swid = optional_param('swid', 0, PARAM_INT);
19 $gid = optional_param('gid', 0, PARAM_INT);
20 $uid = optional_param('uid', 0, PARAM_INT);
21
22 // 'create' action must be submitted by moodle form
23 // so sesskey must be checked
24 if ($action == 'create') {
25     if (!confirm_sesskey()) {
26         print_error('invalidsesskey');
27     }
28 }
29
30 if (!empty($swid)) {
31     $subwiki = wikicode_get_subwiki($swid);
32
33     if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
34         print_error('invalidwikiid', 'wikicode');
35     }
36 }
37 } else {
38     $subwiki = wikicode_get_subwiki_by_group($wid, $gid, $uid);
39
40     if (!$wiki = wikicode_get_wiki($wid)) {
41         print_error('invalidwikiid', 'wikicode');
42     }
43 }
44 }
45
46 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {

```

```

47     print_error('invalidcoursemoduleid', 'wikicode');
48 }
49
50 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
51
52 require_login($course->id, true, $cm);
53
54 add_to_log($course->id, 'createpage', 'createpage', 'view.php?id=' . $cm->id, $wiki
    ->id);
55
56 $wikipage = new page_wikicode_create($wiki, $subwiki, $cm);
57
58 if (!empty($swid)) {
59     $wikipage->set_gid($subwiki->groupid);
60     $wikipage->set_uid($subwiki->userid);
61     $wikipage->set_swid($swid);
62 } else {
63     $wikipage->set_wid($wid);
64     $wikipage->set_gid($gid);
65     $wikipage->set_uid($uid);
66 }
67
68 if (!empty($title)) {
69     $wikipage->set_title($title);
70 } else {
71     $wikipage->set_title(get_string('newpage', 'wikicode'));
72 }
73
74 // set page action, and initialise moodle form
75 $wikipage->set_action($action);
76
77 switch ($action) {
78 case 'create':
79     $wikipage->create_page($title);
80     break;
81 case 'new':
82     if ((int)$wiki->forceformat == 1 && !empty($title)) {
83         $wikipage->create_page($title);
84     } else {
85         // create link from moodle navigation block without pagetitle
86         $wikipage->print_header();
87         // new page without page title
88         $wikipage->print_content($title);
89     }
90     $wikipage->print_footer();
91     break;
92 }

```

3.1.5. create_form.php

```

1  <?php

```

```

2
3 require_once($CFG->libdir.'/formslib.php');
4
5 class mod_wikicode_create_form extends moodleform {
6
7     protected function definition() {
8         global $CFG;
9         $mform =& $this->_form;
10
11         $formats = $this->_customdata['formats'];
12         $defaultformat = $this->_customdata['defaultformat'];
13         $forceformat = $this->_customdata['forceformat'];
14
15         $mform->addElement('header', 'general', get_string('createpage', 'wikicode'
16             ));
17
18         $textoptions = array();
19         if (!empty($this->_customdata['disable_pagetitle'])) {
20             $textoptions = array('readonly'=>'readonly');
21         }
22         $mform->addElement('text', 'pagetitle', get_string('newpagetitle', '
23             wikicode'), $textoptions);
24
25         if ($forceformat) {
26             $mform->addElement('hidden', 'pageformat', $defaultformat);
27         } else {
28             $mform->addElement('static', 'format', get_string('format', 'wikicode')
29                 );
30             $mform->addHelpButton('format', 'format', 'wikicode');
31             foreach ($formats as $format) {
32                 if ($format == $defaultformat) {
33                     $attr = array('checked'=>'checked');
34                 } else if (!empty($forceformat)) {
35                     $attr = array('disabled'=>'disabled');
36                 } else {
37                     $attr = array();
38                 }
39                 $mform->addElement('radio', 'pageformat', '', get_string('format'.
40                     $format, 'wikicode'), $format, $attr);
41             }
42         }
43
44         //hiddens
45         $mform->addElement('hidden', 'action');
46         $mform->setDefault('action', 'create');
47
48         $this->add_action_buttons(false, get_string('createpage', 'wikicode'));
49     }
50 }

```

3.1.6. diff.php

```

1  <?php
2
3  require_once('.../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  require_once($CFG->dirroot . '/mod/wikicode/diff/difflib.php');
10 require_once($CFG->dirroot . '/mod/wikicode/diff/diff_nwiki.php');
11
12 $pageid = required_param('pageid', PARAM_TEXT);
13 $compare = required_param('compare', PARAM_INT);
14 $comparewith = required_param('comparewith', PARAM_INT);
15
16 if (!$page = wikicode_get_page($pageid)) {
17     print_error('incorrectpageid', 'wikicode');
18 }
19
20 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
21     print_error('incorrectsubwikiid', 'wikicode');
22 }
23
24 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
25     print_error('incorrectwikiid', 'wikicode');
26 }
27
28 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
29     print_error('invalidcoursemodule');
30 }
31
32 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
33
34 if ($compare >= $comparewith) {
35     print_error("A page version can only be compared with an older version.");
36 }
37
38 require_login($course->id, true, $cm);
39 add_to_log($course->id, "wikicode", "diff", "diff.php?id=$cm->id", "$wiki->id");
40
41 $wikipage = new page_wikicode_diff($wiki, $subwiki, $cm);
42
43 $wikipage->set_page($page);
44 $wikipage->set_comparison($compare, $comparewith);
45
46 $wikipage->print_header();
47
48 $wikipage->print_content();
49
50 $wikipage->print_footer();

```

3.1.7. edit.php

```

1  <?php
2
3  require_once(' ../../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  $pageid = required_param('pageid', PARAM_INT);
10 $contentformat = optional_param('contentformat', '', PARAM_ALPHA);
11 $option = optional_param('editoption', '', PARAM_TEXT);
12 $section = optional_param('section', "", PARAM_TEXT);
13 $version = optional_param('version', -1, PARAM_INT);
14 $attachments = optional_param('attachments', 0, PARAM_INT);
15 $deleteuploads = optional_param('deleteuploads', 0, PARAM_RAW);
16 $compiled = optional_param('compiled', 0, PARAM_INT);
17
18 $newcontent = '';
19 if (!empty($newcontent) && is_array($newcontent)) {
20     $newcontent = $newcontent['text'];
21 }
22
23 if (!empty($option) && is_array($option)) {
24     $option = $option['editoption'];
25 }
26
27 if (!$page = wikicode_get_page($pageid)) {
28     print_error('incorrectpageid', 'wikicode');
29 }
30
31 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
32     print_error('incorrectsubwikiid', 'wikicode');
33 }
34
35 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
36     print_error('incorrectwikiid', 'wikicode');
37 }
38
39 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
40     print_error('invalidcoursemodule');
41 }
42
43 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
44
45 if (!empty($section) && !$sectioncontent = wikicode_get_section_page($page,
46     $section)) {
47     print_error('invalidsection', 'wikicode');
48 }
49
50 require_login($course, true, $cm);

```

```

51 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
52 require_capability('mod/wikicode:editpage', $context);
53
54 add_to_log($course->id, 'wikicode', 'edit', "edit.php?id=$cm->id", "$wiki->id");
55
56 if ($option == get_string('save', 'wikicode')) {
57     if (!confirm_sesskey()) {
58         print_error(get_string('invalidsesskey', 'wikicode'));
59     }
60     $wikipage = new page_wikicode_save($wiki, $subwiki, $cm);
61     $wikipage->set_page($page);
62     $wikipage->set_newcontent($newcontent);
63     $wikipage->set_upload(true);
64 } else {
65     if ($option == 'Compile' or $option == 'Download') {
66         if (!confirm_sesskey()) {
67             print_error(get_string('invalidsesskey', 'wikicode'));
68         }
69         $wikipage = new page_wikicode_compile($wiki, $subwiki, $cm);
70         $wikipage->set_page($page);
71         $wikipage->set_download(($option == 'Download'));
72     }
73     else {
74         if ($option == get_string('cancel')) {
75             //delete lock
76             wikicode_delete_locks($page->id, $USER->id, $section);
77
78             redirect($CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $pageid);
79         } else {
80             $wikipage = new page_wikicode_edit($wiki, $subwiki, $cm);
81             $wikipage->set_page($page);
82             $wikipage->set_upload($option == get_string('upload', 'wikicode'));
83             $wikipage->set_compiled($compiled);
84         }
85     }
86
87     if (has_capability('mod/wikicode:overridelock', $context)) {
88         $wikipage->set_overridelock(true);
89     }
90 }
91
92 if ($version >= 0) {
93     $wikipage->set_versionnumber($version);
94 }
95
96 if (!empty($section)) {
97     $wikipage->set_section($sectioncontent, $section);
98 }
99
100 if (!empty($attachments)) {
101     $wikipage->set_attachments($attachments);
102 }
103
104 if (!empty($deleteuploads)) {

```

```

105     $wikipage->set_deleteuploads($deleteuploads);
106 }
107
108 if (!empty($contentformat)) {
109     $wikipage->set_format($contentformat);
110 }
111
112 $wikipage->print_header();
113
114 $wikipage->print_content();
115
116 $wikipage->print_footer();

```

3.1.8. edit_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

// It must be included
from a Moodle page

```

5  }
6
7  require_once($CFG->dirroot . '/mod/wikicode/editors/wikieditor.php');
8  require_once($CFG->dirroot . '/mod/wikicode/chat/wikichat.php');
9
10 class mod_wikicode_edit_form extends moodleform {
11
12     protected function definition() {
13         global $CFG, $USER, $DB;
14
15         $mform =& $this->_form;
16
17         $version = $this->_customdata['version'];
18         $format = $this->_customdata['format'];
19         $tags = !isset($this->_customdata['tags'])?"":$this->_customdata['tags'];
20
21         if ($format != 'html') {
22             $contextid = $this->_customdata['contextid'];
23             $filearea = $this->_customdata['filearea'];
24             $fileitemid = $this->_customdata['fileitemid'];
25         }
26
27         if (isset($this->_customdata['pagetitle'])) {
28             $pagetitle = get_string('editingpage', 'wikicode', $this->_customdata['pagetitle']);
29         } else {
30             $pagetitle = get_string('editing', 'wikicode');
31         }
32
33         //editor

```

```

34     $mform->addElement('header', 'general', $pagetitle);
35
36     $fieldname = get_string('format' . $format, 'wikicode');
37     if ($format != 'html') {
38         // Use wiki editor
39         $extensions = file_get_typegroup('extension', 'web_image');
40         $fs = get_file_storage();
41         $tree = $fs->get_area_tree($contextid, 'mod_wikicode', 'attachments',
42             $fileitemid);
43         $files = array();
44         foreach ($tree['files'] as $file) {
45             $filename = $file->get_filename();
46             foreach ($extensions as $ext) {
47                 if (preg_match('#'.$ext.'$#i', $filename)) {
48                     $files[] = $filename;
49                 }
50             }
51             $buttoncommands=array();
52             $buttoncommands[] =& $mform->createElement('button', '
53                 editoption','Unlock', array('id' => 'btnunlock', 'class'
54                     => 'btnunlock'));
55             $buttoncommands[] =& $mform->createElement('button', '
56                 editoption','Refresh', array('id' => 'btnref', 'class'
57                     => 'btnref'));
58             $buttoncommands[] =& $mform->createElement('submit', '
59                 editoption', 'Save', array('id' => 'save'));
60             $mform->addGroup($buttoncommands, 'editoption', 'Actions:',
61                 '', true);
62             $mform->addElement('wikicodeeditor', 'newcontent', $fieldname, array('
63                 cols' => 150, 'rows' => 30, 'Wiki_format' => $format, 'files'=>
64                 $files));
65         } else {
66             $mform->addElement('editor', 'newcontent_editor', $fieldname, null,
67                 page_wikicode_edit::$attachmentoptions);
68             $mform->addHelpButton('newcontent_editor', 'formathtml', 'wikicode');
69         }
70
71         //chat
72         $mform->addElement('header','chat','Chat');
73         $mform->addElement('wikicodechat', 'wikicodechat', null, array('
74             itemid'=>$fileitemid));
75
76         //compiler
77         $mform->addElement('header','compiler', 'Compiler');
78         $mform->addElement('textarea', 'textCompiler', '', 'wrap="virtual"
79             rows="3" cols="150" readonly="readonly" ');
80         //$mform->addElement('submit','editoption','Compilar', array('id'
81             => 'compile'));
82         //$mform->addElement('submit','editoption','Descargar', array('id'
83             => 'download'));
84
85         $buttonarray=array();

```



```

73         $buttonarray[] =& $mform->createElement('submit','editoption','
           Compile', array('id' => 'compile'));
74         $buttonarray[] =& $mform->createElement('submit','editoption','
           Download', array('id' => 'compile'));
75         $mform->addGroup($buttonarray, 'editoption', 'Options:', '', true);
76
77         //hiddens
78         if ($version >= 0) {
79             $mform->addElement('hidden', 'version');
80             $mform->setDefault('version', $version);
81         }
82
83         $mform->addElement('hidden', 'contentformat');
84         $mform->setDefault('contentformat', $format);
85
86         $mform->addElement('hidden', 'insert');
87         $mform->setDefault('insert', 1);
88
89     }
90
91 }

```

3.1.9. files.php

```

1  <?php
2  require_once('.../config.php');
3  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
4  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
5
6  $pageid      = required_param('pageid', PARAM_INT); // Page ID
7  $wid         = optional_param('wid', 0, PARAM_INT); // Wiki ID
8  $currentgroup = optional_param('group', 0, PARAM_INT); // Group ID
9  $userid      = optional_param('uid', 0, PARAM_INT); // User ID
10 $groupanduser = optional_param('groupanduser', null, PARAM_TEXT);
11
12 if (!$page = wikicode_get_page($pageid)) {
13     print_error('incorrectpageid', 'wikicode');
14 }
15
16 if ($groupanduser) {
17     list($currentgroup, $userid) = explode('-', $groupanduser);
18     $currentgroup = clean_param($currentgroup, PARAM_INT);
19     $userid       = clean_param($userid, PARAM_INT);
20 }
21
22 if ($wid) {
23     // in group mode
24     if (!$wiki = wikicode_get_wiki($wid)) {
25         print_error('incorrectwikiid', 'wikicode');
26     }

```

```

27     if (!$subwiki = wikicode_get_subwiki_by_group($wiki->id, $currentgroup, $userid
28         )) {
29         // create subwiki if doesn't exist
30         $subwikiid = wikicode_add_subwiki($wiki->id, $currentgroup, $userid);
31         $subwiki = wikicode_get_subwiki($subwikiid);
32     }
33 } else {
34     // no group
35     if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
36         print_error('incorrectsubwikiid', 'wikicode');
37     }
38
39     // Checking wiki instance of that subwiki
40     if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
41         print_error('incorrectwikiid', 'wikicode');
42     }
43 }
44
45 // Checking course module instance
46 if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
47     print_error('invalidcoursemodule');
48 }
49
50 // Checking course instance
51 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
52
53 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
54
55 $PAGE->set_url('/mod/wikicode/files.php', array('pageid'=>$pageid));
56 require_login($course, true, $cm);
57 $PAGE->set_context($context);
58 $PAGE->set_title(get_string('wikifiles', 'wikicode'));
59 $PAGE->set_heading(get_string('wikifiles', 'wikicode'));
60 $PAGE->navbar->add(format_string(get_string('wikifiles', 'wikicode')));
61 echo $OUTPUT->header();
62
63 $renderer = $PAGE->get_renderer('mod_wikicode');
64
65 $tabitems = array('view' => 'view', 'edit' => 'edit', 'comments' => 'comments', '
66     history' => 'history', 'map' => 'map', 'files' => 'files');
67
68 $options = array('activetab'=>'files');
69 echo $renderer->tabs($page, $tabitems, $options);
70
71 echo $OUTPUT->box_start('generalbox');
72 if (has_capability('mod/wikicode:viewpage', $context)) {
73     echo $renderer->wikicode_print_subwiki_selector($PAGE->activityrecord, $subwiki
74         , $page, 'files');
75     echo $renderer->wikicode_files_tree($context, $subwiki);
76 } else {
77     echo $OUTPUT->notification(get_string('cannotviewfiles', 'wikicode'));
78 }

```

```

78 echo $OUTPUT->box_end();
79
80 if (has_capability('mod/wikicode:managefiles', $context)) {
81     echo $OUTPUT->single_button(new moodle_url('/mod/wikicode/filesedit.php', array
        ('subwiki'=>$subwiki->id, 'pageid'=>$pageid)), get_string('editfiles', '
        wikicode'), 'get');
82 }
83 echo $OUTPUT->footer();

```

3.1.10. filesedit.php

```

1  <?php
2
3  /**
4   * Manage files in wiki
5   *
6   * @package    mod-wikicode
7   * @copyright  2011 Dongsheng Cai <dongsheng@moodle.com>
8   * @license    http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
9   */
10
11 require_once(dirname(dirname(dirname(__FILE__))) . '/config.php');
12 require_once('lib.php');
13 require_once('locallib.php');
14 require_once("$CFG->dirroot/mod/wikicode/filesedit_form.php");
15 require_once("$CFG->dirroot/repository/lib.php");
16
17 $subwikiid = required_param('subwiki', PARAM_INT);
18 // not being used for file management, we use it to generate navbar link
19 $pageid    = optional_param('pageid', 0, PARAM_INT);
20 $returnurl = optional_param('returnurl', '', PARAM_URL);
21
22 if (!$subwiki = wikicode_get_subwiki($subwikiid)) {
23     print_error('incorrectsubwikiid', 'wikicode');
24 }
25
26 // Checking wiki instance of that subwiki
27 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
28     print_error('incorrectwikiid', 'wikicode');
29 }
30
31 // Checking course module instance
32 if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
33     print_error('invalidcoursemodule');
34 }
35
36 // Checking course instance
37 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
38
39 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
40

```

```

41 require_login($course, true, $cm);
42 require_capability('mod/wikicode:managefiles', $context);
43
44 if (empty($returnurl)) {
45     if (!empty($_SERVER["HTTP_REFERER"])) {
46         $returnurl = $_SERVER["HTTP_REFERER"];
47     } else {
48         $returnurl = new moodle_url('/mod/wikicode/files.php', array('subwiki'=>
49             $subwiki->id));
50     }
51 }
52
53 $title = get_string('editfiles', 'wikicode');
54
55 $struser = get_string('user');
56 $url = new moodle_url('/mod/wikicode/filesedit.php', array('subwiki'=>$subwiki->id,
57     'pageid'=>$pageid));
58 $PAGE->set_url($url);
59 $PAGE->set_context($context);
60 $PAGE->set_title($title);
61 $PAGE->set_heading($title);
62 $PAGE->navbar->add(format_string(get_string('wikifiles', 'wikicode')), $CFG->
63     wwwroot . '/mod/wikicode/files.php?pageid=' . $pageid);
64 $PAGE->navbar->add(format_string($title));
65
66 $data = new stdClass();
67 $data->returnurl = $returnurl;
68 $data->subwikiid = $subwiki->id;
69 $maxbytes = get_max_upload_file_size($CFG->maxbytes, $COURSE->maxbytes);
70 $options = array('subdirs'=>0, 'maxbytes'=>$maxbytes, 'maxfiles'=>-1, '
71     accepted_types'=>'*', 'return_types'=>FILE_INTERNAL);
72 file_prepare_standard_filemanager($data, 'files', $options, $context, 'mod_wiki', '
73     attachments', $subwiki->id);
74
75 $mform = new mod_wikicode_filesedit_form(null, array('data'=>$data, 'options'=>
76     $options));
77
78 if ($mform->is_cancelled()) {
79     redirect($returnurl);
80 } else if ($formdata = $mform->get_data()) {
81     $formdata = file_postupdate_standard_filemanager($formdata, 'files', $options,
82         $context, 'mod_wikicode', 'attachments', $subwiki->id);
83     redirect($returnurl);
84 }
85
86 echo $OUTPUT->header();
87 echo $OUTPUT->box_start('generalbox');
88 $mform->display();
89 echo $OUTPUT->box_end();
90 echo $OUTPUT->footer();

```

3.1.11. filesedit_form.php

```

1  <?php
2
3  /**
4   * Edit wiki files form
5   *
6   * @package    mod-wikicode
7   * @copyright  2011 Dongsheng Cai <dongsheng@moodle.com>
8   * @license    http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
9   */
10
11  defined('MOODLE_INTERNAL') || die();
12
13  require_once("$CFG->libdir/formslib.php");
14
15  class mod_wikicode_filesedit_form extends moodleform {
16      function definition() {
17          $mform = $this->_form;
18
19          $data    = $this->_customdata['data'];
20          $options = $this->_customdata['options'];
21
22          $mform->addElement('filemanager', 'files_filemanager', get_string('files'),
23                          null, $options);
24          $mform->addElement('hidden', 'returnurl', $data->returnurl);
25          $mform->addElement('hidden', 'subwiki', $data->subwikiid);
26
27          $this->add_action_buttons(true, get_string('savechanges'));
28
29          $this->set_data($data);
30      }
31  }

```

3.1.12. history.php

```

1  <?php
2
3  require_once('.../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  $pageid = required_param('pageid', PARAM_TEXT);
10 $paging = optional_param('page', 0, PARAM_INT);
11 $allversion = optional_param('allversion', 0, PARAM_INT);
12
13 if (!$page = wikicode_get_page($pageid)) {
14     print_error('incorrectpageid', 'wikicode');
15 }

```

```

15 }
16
17 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
18     print_error('incorrectsubwikiid', 'wikicode');
19 }
20
21 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
22     print_error('incorrectwikiid', 'wikicode');
23 }
24
25 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
26     print_error('invalidcoursemodule');
27 }
28
29 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
30
31 require_login($course->id, true, $cm);
32 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
33 require_capability('mod/wikicode:viewpage', $context);
34 add_to_log($course->id, 'wikicode', 'history', 'history.php?id=' . $cm->id, $wiki->
    id);
35
36 /// Print the page header
37 $wikipage = new page_wikicode_history($wiki, $subwiki, $cm);
38
39 $wikipage->set_page($page);
40 $wikipage->set_paging($paging);
41 $wikipage->set_allversion($allversion);
42
43 $wikipage->print_header();
44 $wikipage->print_content();
45
46 $wikipage->print_footer();

```

3.1.13. index.php

```

1 <?php
2
3 require_once('.../config.php');
4 require_once('lib.php');
5
6 $id = required_param('id', PARAM_INT); // course
7 $PAGE->set_url('/mod/wikicode/index.php', array('id' => $id));
8
9 if (!$course = $DB->get_record('course', array('id' => $id))) {
10     print_error('invalidcourseid');
11 }
12
13 require_login($course->id, true);
14 $PAGE->set_pagelayout('incourse');
15 $context = get_context_instance(CONTEXT_COURSE, $course->id);

```

```

16 add_to_log($course->id, 'wikicode', 'view all', "index.php?id=$course->id", "");
17
18
19 /// Get all required stringswiki
20 $strwikis = get_string("modulenameplural", "wikicode");
21 $strwiki = get_string("modulename", "wikicode");
22
23 /// Print the header
24 $PAGE->navbar->add($strwikis, "index.php?id=$course->id");
25 $PAGE->set_title($strwikis);
26 $PAGE->set_heading($course->fullname);
27 echo $OUTPUT->header();
28
29 /// Get all the appropriate data
30 if (!$wikis = get_all_instances_in_course("wikicode", $course)) {
31     notice("There are no wikis", "../.. / course/view.php?id=$course->id");
32     die;
33 }
34
35 $usesections = course_format_uses_sections($course->format);
36 if ($usesections) {
37     $sections = get_all_sections($course->id);
38 }
39
40 /// Print the list of instances (your module will probably extend this)
41
42 $timenow = time();
43 $strsectionname = get_string('sectionname', 'format_' . $course->format);
44 $strname = get_string("name");
45 $table = new html_table();
46
47 if ($usesections) {
48     $table->head = array($strsectionname, $strname);
49 } else {
50     $table->head = array($strname);
51 }
52
53 foreach ($wikis as $wiki) {
54     $linkcss = null;
55     if (!$wiki->visible) {
56         $linkcss = array('class' => 'dimmed');
57     }
58     $link = html_writer::link(new moodle_url('/mod/wikicode/view.php', array('id'
59         => $wiki->coursemodule)), $wiki->name, $linkcss);
60
61     if ($usesections) {
62         $table->data[] = array(get_section_name($course, $sections[$wiki->section])
63             , $link);
64     } else {
65         $table->data[] = array($link);
66     }
67 }
68
69 echo html_writer::table($table);

```

```

68
69 /// Finish the page
70 echo $OUTPUT->footer();

```

3.1.14. log.php

```

1  <?php
2
3  require_once('.../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  $pageid = required_param('pageid', PARAM_INT);
10 $section = optional_param('section', "", PARAM_TEXT);
11 $version = optional_param('version', -1, PARAM_INT);
12
13 if (!$page = wikicode_get_page($pageid)) {
14     print_error('incorrectpageid', 'wikicode');
15 }
16
17 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
18     print_error('incorrectsubwikiid', 'wikicode');
19 }
20
21 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
22     print_error('incorrectwikiid', 'wikicode');
23 }
24
25 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
26     print_error('invalidcoursemodule');
27 }
28
29 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
30
31 if (!empty($section) && !$sectioncontent = wikicode_get_section_page($page,
32     $section)) {
33     print_error('invalidsection', 'wikicode');
34 }
35
36 require_login($course, true, $cm);
37
38 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
39 require_capability('mod/wikicode:editpage', $context);
40
41 add_to_log($course->id, 'wikicode', 'log', "log.php?id=$cm->id", "$wiki->id");
42
43 $wikipage = new page_wikicode_log($wiki, $subwiki, $cm);
44 $wikipage->set_page($page);

```



```

45 $wikipage->print_header();
46
47 $wikipage->print_content();
48
49 $wikipage->print_footer();

```

3.1.15. log_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

/// It must be included
from a Moodle page

```

5  }
6
7  class mod_wikicode_log_form extends moodleform {
8
9      protected function definition() {
10         global $CFG, $USER, $DB;
11
12         $mform =& $this->_form;
13
14         $version = $this->_customdata['version'];
15         $format = $this->_customdata['format'];
16         $tags = !isset($this->_customdata['tags'])?"":$this->_customdata['tags'];
17
18         if ($format != 'html') {
19             $contextid = $this->_customdata['contextid'];
20             $filearea = $this->_customdata['filearea'];
21             $fileitemid = $this->_customdata['fileitemid'];
22         }
23
24         if (isset($this->_customdata['pagetitle'])) {
25             $pagetitle = get_string('logpage', 'wikicode', $this->_customdata['pagetitle']);
26         } else {
27             $pagetitle = get_string('logging', 'wikicode');
28         }
29
30         //Time
31         $time = $this->_customdata['page']->timeendedit - $this->_customdata['page']->timestartedit;
32         $seconds = $time % 60;
33         $time = ($time - $seconds) / 60;
34         $minutes = $time % 60;
35         $hours = ($time - $minutes) / 60;
36
37         //Stats
38         $attr = array('size' => '75', 'readonly' => 1);
39         $mform->addElement('header', 'stats', 'Stats');
```

```

40         $attr['value'] = $hours . " hours, " . $minutes . " minutes, " .
           $seconds . " seconds";
41         $mform->addElement('text', 'timeedit', 'Editing Time', $attr);
42         $mform->addHelpButton('timeedit', 'timeedit', 'wikicode');
43         $attr['value'] = $this->_customdata['page']->errorcompile;
44         $mform->addElement('text', 'errorscompilation', 'Compilation Errors
           ', $attr);
45         $mform->addHelpButton('errorscompilation', 'errorscompilation', '
           wikicode');
46
47
48         $mform->addElement('hidden', 'contentformat');
49         $mform->setDefault('contentformat', $format);
50
51         $mform->addElement('hidden', 'insert');
52         $mform->setDefault('insert', 1);
53
54     }
55
56 }

```

3.1.16. mod_form.php

```

1  <?php
2
3  if (!defined('MOODLE_INTERNAL')) {
4      die('Direct access to this script is forbidden.');
```

// It must be included
from a Moodle page

```

5  }
6
7  require_once('moodleform_mod.php');
8  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
9  require_once($CFG->dirroot . '/lib/datalib.php');
10
11  class mod_wikicode_mod_form extends moodleform_mod {
12
13      function definition() {
14
15          global $COURSE;
16          $mform =& $this->_form;
17
18          //
19          -----
20
21          // Adding the "general" fieldset, where all the common settings are showed
22          $mform->addElement('header', 'general', get_string('general', 'form'));
23          // Adding the standard "name" field
24          $mform->addElement('text', 'name', get_string('wikiname', 'wikicode'),
           array('size' => '64'));
25          $mform->setType('name', PARAM_TEXT);
26          $mform->addRule('name', null, 'required', null, 'client');
```

```

25     /// Adding the optional "intro" and "introformat" pair of fields
26     //      $mform->addElement('htmleditor', 'intro', get_string('wikiintro', '
        wiki'));
27     //      $mform->setType('intro', PARAM_RAW);
28     //      $mform->addRule('intro', get_string('required'), 'required
        ', null, 'client');
29     //
30     //      $mform->addElement('format', 'introformat', get_string('format'))
        ;
31     $this->add_intro_editor(true, get_string('wikiintro', 'wikicode'));
32     //
        -----

33     /// Adding the rest of wiki settings, spreading all them into this
        fieldset
34     /// or adding more fieldsets ('header' elements) if needed for better logic
35
36     $mform->addElement('header', 'wikifieldset', get_string('wikisettings', '
        wikicode'));
37
38     $attr = array('size' => '20');
39     if (!empty($this->_instance)) {
40         $attr['disabled'] = 'disabled';
41     } else {
42         $attr['value'] = get_string('firstpagetitle', 'wikicode');
43     }
44
45     $mform->addElement('text', 'firstpagetitle', get_string('firstpagetitle', '
        wikicode'), $attr);
46     $mform->addHelpButton('firstpagetitle', 'firstpagetitle', 'wikicode');
47
48     if (empty($this->_instance)) {
49         $mform->addRule('firstpagetitle', null, 'required', null, 'client');
50     }
51
52     $attr = array('size' => '180');
53
54     $gccvalue = wikicode_get_gccpath();
55     if ($gccvalue->gccpath != "") {
56         $attr['value'] = $gccvalue->gccpath;
57     } else {
58         $attr['value'] = 'gcc';
59     }
60
61     $mform->addElement('text', 'gccpath', 'Unix Compiler Path', $attr);
62     $mform->addHelpButton('gccpath', 'gccpath', 'wikicode');
63
64     $mingwvalue = wikicode_get_mingwpath();
65     if ($mingwvalue->mingwpath != "") {
66         $attr['value'] = $mingwvalue->mingwpath;
67     } else {
68         $attr['value'] = 'mingw32-gcc';
69     }
70

```

```

71         $mform->addElement('text', 'mingwpath', 'Windows Compiler Path',
72             $attr);
73         $mform->addHelpButton('mingwpath', 'mingwpath', 'wikicode');
74
75         $wikimodeoptions = array ('collaborative' => get_string('
76             wikimodecollaborative', 'wikicode'), 'individual' => get_string('
77             wikimodeindividual', 'wikicode'));
78         // don't allow to change wiki type once is set
79         $wikitype_attr = array();
80         if (!empty($this->_instance)) {
81             $wikitype_attr['disabled'] = 'disabled';
82         }
83         $mform->addElement('select', 'wikimode', get_string('wikimode', 'wikicode')
84             , $wikimodeoptions, $wikitype_attr);
85         $mform->addHelpButton('wikimode', 'wikimode', 'wikicode');
86
87         $formats = wikicode_get_formats();
88         $editoroptions = array();
89         foreach ($formats as $format) {
90             $editoroptions[$format] = get_string($format, 'wikicode');
91         }
92         $mform->addElement('select', 'defaultformat', get_string('defaultformat', '
93             wikicode'), $editoroptions);
94         $mform->addHelpButton('defaultformat', 'defaultformat', 'wikicode');
95         $mform->addElement('checkbox', 'forceformat', get_string('forceformat', '
96             wikicode'));
97         $mform->addHelpButton('forceformat', 'forceformat', 'wikicode');
98
99         //
100         -----
101
102         // add standard elements, common to all modules
103         $this->standard_coursemodule_elements();
104         //
105         -----
106
107         // add standard buttons, common to all modules
108         $this->add_action_buttons();
109     }
110 }
111

```

3.1.17. pagelib.php

```

1  <?php
2
3  require_once($CFG->dirroot . '/mod/wikicode/edit_form.php');
4  require_once($CFG->dirroot . '/mod/wikicode/log_form.php');
5  require_once($CFG->dirroot . '/tag/lib.php');
6
7  /**

```

```
8  * Class page_wikicode contains the common code between all pages
9  *
10 * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
11 */
12 abstract class page_wikicode {
13
14     /**
15      * @var object Current subwiki
16      */
17     protected $subwiki;
18
19     /**
20      * @var int Current page
21      */
22     protected $page;
23
24     /**
25      * @var string Current page title
26      */
27     protected $title;
28
29     /**
30      * @var int Current group ID
31      */
32     protected $gid;
33
34     /**
35      * @var object module context object
36      */
37     protected $modcontext;
38
39     /**
40      * @var int Current user ID
41      */
42     protected $uid;
43     /**
44      * @var array The tabs set used in wiki module
45      */
46     protected $tabs = array('view' => 'view', 'edit' => 'edit', 'history' => '
        history', 'log' => 'log', 'admin' => 'admin');
47     /**
48      * @var array tabs options
49      */
50     protected $tabs_options = array();
51     /**
52      * @var object wiki renderer
53      */
54     protected $wikioutput;
55
56     /**
57      * page_wikicode constructor
58      *
59      * @param $wiki. Current wiki
60      * @param $subwiki. Current subwiki.
```

```

61     * @param $cm. Current course_module.
62     */
63     function __construct($wiki, $subwiki, $cm) {
64         global $PAGE, $CFG;
65         $this->subwiki = $subwiki;
66         $this->modcontext = get_context_instance(CONTEXT_MODULE, $PAGE->cm->id);
67
68         // initialise wiki renderer
69         $this->wikioutput = $PAGE->get_renderer('mod_wikicode');
70         $PAGE->set_cacheable(true);
71         $PAGE->set_cm($cm);
72         $PAGE->set_activity_record($wiki);
73         // the search box
74         $PAGE->set_button(wikicode_search_form($cm));
75     }
76
77     /**
78      * This method prints the top of the page.
79      */
80     function print_header() {
81         global $OUTPUT, $PAGE, $CFG, $USER, $SESSION;
82
83         $PAGE->set_heading(format_string($PAGE->course->fullname));
84
85         $this->set_url();
86
87         if (isset($SESSION->wikipreviousurl) && is_array($SESSION->wikipreviousurl)
88             ) {
89             $this->process_session_url();
90         }
91         $this->set_session_url();
92
93         $this->create_navbar();
94         $this->setup_tabs();
95
96         echo $OUTPUT->header();
97
98         echo $this->wikioutput->wikicode_info();
99
100        // tabs are associated with pageid, so if page is empty, tabs should be
101        // disabled
102        if (!empty($this->page) && !empty($this->tabs)) {
103            echo $this->wikioutput->tabs($this->page, $this->tabs, $this->
104                tabs_options);
105        }
106    }
107
108    /**
109     * Protected method to print current page title.
110     */
111    protected function print_pagetitle() {
112        global $OUTPUT;
113        $html = '';

```

```

112     $html .= $OUTPUT->container_start();
113     $html .= $OUTPUT->heading(format_string($this->title), 2, '
        wikicode_headingtitle');
114     $html .= $OUTPUT->container_end();
115     echo $html;
116 }
117
118 /**
119  * Setup page tabs, if options is empty, will set up active tab automatically
120  * @param array $options, tabs options
121  */
122 protected function setup_tabs($options = array()) {
123     global $CFG, $PAGE;
124     $groupmode = groups_get_activity_groupmode($PAGE->cm);
125
126     if (empty($CFG->usecomments) || !has_capability('mod/wikicode:viewcomment',
127         $PAGE->context)){
128         unset($this->tabs['comments']);
129     }
130
131     if (!has_capability('mod/wikicode:editpage', $PAGE->context)){
132         unset($this->tabs['edit']);
133     }
134
135     if ($groupmode and $groupmode == VISIBLEGROUPS) {
136         $currentgroup = groups_get_activity_group($PAGE->cm);
137         $manage = has_capability('mod/wikicode:managewiki', $PAGE->cm->context)
138             ;
139         $edit = has_capability('mod/wikicode:editpage', $PAGE->context);
140         if (!$manage and !($edit and groups_is_member($currentgroup))) {
141             unset($this->tabs['edit']);
142         }
143     } else {
144         if (!has_capability('mod/wikicode:editpage', $PAGE->context)) {
145             unset($this->tabs['edit']);
146         }
147     }
148
149     if (empty($options)) {
150         $this->tabs_options = array('activetab' => substr(get_class($this), 10)
151             );
152     } else {
153         $this->tabs_options = $options;
154     }
155
156 /**
157  * This method must be overwritten to print the page content.
158  */
159 function print_content() {
160     throw new coding_exception('Page wiki class does not implement method
        print_content()');

```

```
161     }
162
163     /**
164      * Method to set the current page
165      *
166      * @param object $page Current page
167      */
168     function set_page($page) {
169         global $PAGE;
170
171         $this->page = $page;
172         $this->title = $page->title;
173         $PAGE->set_title($this->title);
174     }
175
176     /**
177      * Method to set the current page title.
178      * This method must be called when the current page is not created yet.
179      * @param string $title Current page title.
180      */
181     function set_title($title) {
182         global $PAGE;
183
184         $this->page = null;
185         $this->title = $title;
186         $PAGE->set_title($this->title);
187     }
188
189     /**
190      * Method to set current group id
191      * @param int $gid Current group id
192      */
193     function set_gid($gid) {
194         $this->gid = $gid;
195     }
196
197     /**
198      * Method to set current user id
199      * @param int $uid Current user id
200      */
201     function set_uid($uid) {
202         $this->uid = $uid;
203     }
204
205     /**
206      * Method to set the URL of the page.
207      * This method must be overwritten by every type of page.
208      */
209     protected function set_url() {
210         throw new coding_exception('Page wiki class does not implement method
211             set_url()');
212     }
213
214     /**
```



```

214     * Protected method to create the common items of the navbar in every page type
215     */
216     protected function create_navbar() {
217         global $PAGE, $CFG;
218
219         $PAGE->navbar->add(format_string($this->title), $CFG->wwwroot . '/mod/
                wikicode/view.php?pageid=' . $this->page->id);
220     }
221
222     /**
223     * This method print the footer of the page.
224     */
225     function print_footer() {
226         global $OUTPUT;
227         echo $OUTPUT->footer();
228     }
229
230     protected function process_session_url() {
231         global $USER, $SESSION;
232
233         //delete locks if edit
234         $url = $SESSION->wikipreviousurl;
235         switch ($url['page']) {
236             case 'edit':
237                 wikicode_delete_locks($url['params']['pageid'], $USER->id, $url['params
                ']['section'], false);
238                 break;
239             }
240         }
241
242     protected function set_session_url() {
243         global $SESSION;
244         unset($SESSION->wikipreviousurl);
245     }
246
247 }
248
249 /**
250  * View a wiki page
251  *
252  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
253  */
254 class page_wikicode_view extends page_wikicode {
255     /**
256     * @var int the coursemodule id
257     */
258     private $coursemodule;
259
260     function print_header() {
261         global $PAGE;
262
263         parent::print_header();
264

```

```

265     $this->wikioutput->wikicode_print_subwiki_selector($PAGE->activityrecord,
266         $this->subwiki, $this->page, 'view');
267
268     //if (!empty($this->page)) {
269     //    echo $this->wikioutput->prettyview_link($this->page);
270     //}
271
272     //echo $this->wikioutput->page_index();
273
274     $this->print_pagetitle();
275 }
276
277 function print_content() {
278     global $PAGE, $CFG;
279
280     if (wikicode_user_can_view($this->subwiki)) {
281         if (!empty($this->page)) {
282             wikicode_print_page_content($this->page, $this->modcontext, $this->
                subwiki->id);
283             $wiki = $PAGE->activityrecord;
284         } else {
285             print_string('nocontent', 'wikicode');
286             // TODO: fix this part
287             $swid = 0;
288             if (!empty($this->subwiki)) {
289                 $swid = $this->subwiki->id;
290             }
291         }
292     } else {
293         // @TODO: Tranlate it
294         echo "You can not view this page";
295     }
296 }
297
298 function set_url() {
299     global $PAGE, $CFG;
300     $params = array();
301
302     if (isset($this->coursemodule)) {
303         $params['id'] = $this->coursemodule;
304     } else if (!empty($this->page) and $this->page != null) {
305         $params['pageid'] = $this->page->id;
306     } else if (!empty($this->gid)) {
307         $params['wid'] = $PAGE->cm->instance;
308         $params['group'] = $this->gid;
309     } else if (!empty($this->title)) {
310         $params['swid'] = $this->subwiki->id;
311         $params['title'] = $this->title;
312     } else {
313         print_error(get_string('invalidparameters', 'wikicode'));
314     }
315
316     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/view.php', $params);

```

```

317     }
318
319     function set_coursemodule($id) {
320         $this->coursemodule = $id;
321     }
322
323     protected function create_navbar() {
324         global $PAGE, $CFG;
325
326         $PAGE->navbar->add(format_string($this->title));
327         $PAGE->navbar->add(get_string('view', 'wikicode'));
328     }
329 }
330
331 /**
332  * Wiki page editing page
333  *
334  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
335  */
336 class page_wikicode_edit extends page_wikicode {
337
338     public static $attachmentoptions;
339
340     protected $sectioncontent;
341     /** @var string the section name needed to be edited */
342     protected $section;
343     protected $overridelock = false;
344     protected $versionnumber = -1;
345     protected $upload = false;
346     protected $attachments = 0;
347     protected $deleteuploads = array();
348     protected $format;
349     protected $compiled = 0;
350
351     function __construct($wiki, $subwiki, $cm) {
352         global $CFG, $PAGE;
353         parent::__construct($wiki, $subwiki, $cm);
354         self::$attachmentoptions = array('subdirs' => false, 'maxfiles' => -1, '
            maxbytes' => $CFG->maxbytes, 'accepted_types' => '*');
355         // $PAGE->requires->js_init_call('M.mod_wikicode.renew_lock', null, true);
356         $PAGE->requires->yui2_lib('connection');
357     }
358
359     protected function print_pagetitle() {
360         global $OUTPUT;
361
362         $title = $this->title;
363         if (isset($this->section)) {
364             $title .= ' : ' . $this->section;
365         }
366         echo $OUTPUT->container_start('wikicode_clear');
367         echo $OUTPUT->heading(format_string($title), 2, 'wikicode_headingtitle');
368         echo "<script src=\"js/codemirror.js\" type=\"text/javascript\"></
            script>";

```

```
369     echo $OUTPUT->container_end();
370 }
371
372 function print_header() {
373     global $OUTPUT, $PAGE;
374     // $PAGE->requires->data_for_js('wikicode', array('renew_lock_timeout' =>
375         LOCK_TIMEOUT - 5, 'pageid' => $this->page->id, 'section' => $this->
376         section));
377
378     parent::print_header();
379
380     $this->print_pagetitle();
381
382     print '<noscript>' . $OUTPUT->box(get_string('javascriptdisabledlocks', '
383         wikicode'), 'errorbox') . '</noscript>';
384 }
385
386 function print_content() {
387     global $PAGE;
388
389     if (wikicode_user_can_edit($this->subwiki)) {
390         $this->print_edit(null, $compile);
391     } else {
392         // @TODO: Translate it
393         echo "You can not edit this page";
394     }
395 }
396
397 protected function set_url() {
398     global $PAGE, $CFG;
399
400     $params = array('pageid' => $this->page->id);
401
402     if (isset($this->section)) {
403         $params['section'] = $this->section;
404     }
405
406     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/edit.php', $params);
407 }
408
409 protected function set_session_url() {
410     global $SESSION;
411
412     $SESSION->wikipreviousurl = array('page' => 'edit', 'params' => array('
413         pageid' => $this->page->id, 'section' => $this->section));
414 }
415
416 protected function process_session_url() {
417 }
418
419 function set_section($sectioncontent, $section) {
420     $this->sectioncontent = $sectioncontent;
421     $this->section = $section;
422 }
```

```
419
420     public function set_versionnumber($versionnumber) {
421         $this->versionnumber = $versionnumber;
422     }
423
424     public function set_overridelock($override) {
425         $this->overridelock = $override;
426     }
427
428     function set_format($format) {
429         $this->format = $format;
430     }
431
432     public function set_upload($upload) {
433         $this->upload = $upload;
434     }
435
436     public function set_attachments($attachments) {
437         $this->attachments = $attachments;
438     }
439
440     public function set_deleteuploads($deleteuploads) {
441         $this->deleteuploads = $deleteuploads;
442     }
443
444     public function set_compiled($compiled) {
445         $this->compiled = $compiled;
446     }
447
448     protected function create_navbar() {
449         global $PAGE, $CFG;
450
451         parent::create_navbar();
452
453         $PAGE->navbar->add(get_string('edit', 'wikicode'));
454     }
455
456     protected function check_locks() {
457         global $OUTPUT, $USER, $CFG;
458
459         /*if (!wikicode_set_lock($this->page->id, $USER->id, $this->section, true))
460         {
461             print $OUTPUT->box(get_string('pageislocked', 'wikicode'), 'generalbox
462                 boxwidthnormal boxaligncenter');
463
464             if ($this->overridelock) {
465                 $params = 'pageid=' . $this->page->id;
466
467                 if ($this->section) {
468                     $params .= '&section=' . urlencode($this->section);
469                 }
470
471                 $form = '<form method="post" action="' . $CFG->wwwroot . '/mod/
472                     wikicode/overridelocks.php?' . $params . '">';
```

```

470         $form .= '<input type="hidden" name="sesskey" value="' . sesskey()
471             . '" />';
472         $form .= '<input type="submit" value="' . get_string('overridelocks
473             ', 'wikicode') . '" />';
474         $form .= '</form>';
475
476         print $OUTPUT->box($form, 'generalbox boxwidthnormal boxaligncenter
477             ');
478     }
479     return false;
480 }*/
481 return true;
482 }
483
484 protected function print_edit($content = null) {
485     global $CFG, $OUTPUT, $USER, $PAGE;
486
487     if (!$this->check_locks()) {
488         return;
489     }
490
491     //delete old locks (> 1 hour)
492     wikicode_delete_old_locks();
493
494     $version = wikicode_get_current_version($this->page->id);
495     $page = wikicode_get_page($this->page->id);
496
497     $format = $version->contentformat;
498
499     if ($content == null) {
500         if (empty($this->section)) {
501             $content = $version->content;
502         } else {
503             $content = $this->sectioncontent;
504         }
505     }
506
507     $versionnumber = $version->version;
508     if ($this->versionnumber >= 0) {
509         if ($version->version != $this->versionnumber) {
510             print $OUTPUT->box(get_string('wrongversionlock', 'wikicode'), '
511                 errorbox');
512             $versionnumber = $this->versionnumber;
513         }
514     }
515
516     $url = $CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page->id;
517     if (!empty($this->section)) {
518         $url .= "&section=" . urlencode($this->section);
519     }
520
521     $params = array('attachmentoptions' => page_wikicode_edit::
522         $attachmentoptions, 'format' => $version->contentformat, 'version' =>
523         $versionnumber, 'pagetitle' => $this->page->title);

```

```

518
519     $data = new StdClass();
520     $data->newcontent = wikicode_remove_tags_owner($content);
521     $data->version = $versionnumber;
522     $data->format = $format;
523
524     switch ($format) {
525     case 'html':
526         $data->newcontentformat = FORMAT_HTML;
527         // Append editor context to editor options, giving preference to
           existing context.
528         page_wikicode_edit::$attachmentoptions = array_merge(array('context' =>
           $this->modcontext), page_wikicode_edit::$attachmentoptions);
529         $data = file_prepare_standard_editor($data, 'newcontent',
           page_wikicode_edit::$attachmentoptions, $this->modcontext, '
           mod_wikicode', 'attachments', $this->subwiki->id);
530         break;
531     default:
532         break;
533     }
534
535     if ($version->contentformat != 'html') {
536         $params['fileitemid'] = $this->subwiki->id;
537         $params['contextid'] = $this->modcontext->id;
538         $params['component'] = 'mod_wikicode';
539         $params['filearea'] = 'attachments';
540     }
541
542     if (!empty($CFG->usetags)) {
543         $params['tags'] = tag_get_tags_csv('wikicode_pages', $this->page->id,
           TAG_RETURN_TEXT);
544     }
545
546     $form = new mod_wikicode_edit_form($url, $params);
547
548     if ($formdata = $form->get_data()) {
549         if (!empty($CFG->usetags)) {
550             $data->tags = $formdata->tags;
551         }
552     } else {
553         if (!empty($CFG->usetags)) {
554             $data->tags = tag_get_tags_array('wikicode', $this->page->id);
555         }
556     }
557
558     if ( $this->compiled == 1 ) {
559         $data->newcontent = wikicode_remove_tags_owner($page->
           cachedcompile);
560         $data->textCompiler = $page->cachedgcc;
561     }
562
563     $form->set_data($data);
564     $form->display();
565 }

```

```
566 }
567
568
569 /**
570  * Wiki page editing page
571  *
572  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
573  */
574 class page_wikicode_log extends page_wikicode {
575
576     protected $sectioncontent;
577     /** @var string the section name needed to be edited */
578     protected $section;
579     protected $overridelock = false;
580     protected $versionnumber = -1;
581
582     function __construct($wiki, $subwiki, $cm) {
583         global $CFG, $PAGE;
584         parent::__construct($wiki, $subwiki, $cm);
585         // $PAGE->requires->js_init_call('M.mod_wikicode.renew_lock', null, true);
586         $PAGE->requires->yui2_lib('connection');
587     }
588
589     protected function print_pagetitle() {
590         global $OUTPUT;
591
592         $title = $this->title;
593         if (isset($this->section)) {
594             $title .= ' : ' . $this->section;
595         }
596         echo $OUTPUT->container_start('wikicode_clear');
597         echo $OUTPUT->heading(format_string($title), 2, 'wikicode_headingtitle');
598         echo $OUTPUT->container_end();
599     }
600
601     function print_header() {
602         global $OUTPUT, $PAGE;
603
604         parent::print_header();
605
606         $this->print_pagetitle();
607     }
608
609     function print_content() {
610         global $PAGE;
611
612         if (wikicode_user_can_edit($this->subwiki)) {
613             $this->print_log();
614         } else {
615             // @TODO: Translate it
616             echo "You can not edit this page";
617         }
618     }
619 }
```



```
620     protected function set_url() {
621         global $PAGE, $CFG;
622
623         $params = array('pageid' => $this->page->id);
624
625         if (isset($this->section)) {
626             $params['section'] = $this->section;
627         }
628
629         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/log.php', $params);
630     }
631
632     protected function set_session_url() {
633         global $SESSION;
634
635         $SESSION->wikipreviousurl = array('page' => 'log', 'params' => array('
636             pageid' => $this->page->id, 'section' => $this->section));
637     }
638
639     protected function process_session_url() {
640     }
641
642     protected function create_navbar() {
643         global $PAGE, $CFG;
644
645         parent::create_navbar();
646
647         $PAGE->navbar->add(get_string('log', 'wikicode'));
648     }
649
650     protected function check_locks() {
651         global $OUTPUT, $USER, $CFG;
652
653         return true;
654     }
655
656     protected function print_log() {
657         global $CFG, $OUTPUT, $USER, $PAGE;
658
659         if (!$this->check_locks()) {
660             return;
661         }
662
663         //delete old locks (> 1 hour)
664         wikicode_delete_old_locks();
665
666         $version = wikicode_get_current_version($this->page->id);
667         $page = wikicode_get_page($this->page->id);
668
669         $format = $version->contentformat;
670
671         $params = array('attachmentoptions' => page_wikicode_edit::
672             $attachmentoptions, 'format' => $version->contentformat, 'version' =>
673             $versionnumber, 'pagetitle' => $this->page->title);
```

```

671         $data = new StdClass();
672         $params['page'] = $this->page;
673
674
675         $form = new mod_wikicode_log_form($url, $params);
676
677         $form->set_data($data);
678         $form->display();
679     }
680
681 }
682
683 /**
684  * Class that models the behavior of wiki's view comments page
685  *
686  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
687  */
688 class page_wikicode_comments extends page_wikicode {
689
690     function print_header() {
691
692         parent::print_header();
693
694         $this->print_pagetitle();
695
696     }
697
698     function print_content() {
699         global $CFG, $OUTPUT, $USER, $PAGE;
700         require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
701
702         $page = $this->page;
703         $subwiki = $this->subwiki;
704         $wiki = $PAGE->activityrecord;
705         list($context, $course, $cm) = get_context_info_array($this->modcontext->id
706             );
707
708         require_capability('mod/wikicode:viewcomment', $this->modcontext, NULL,
709             true, 'noviewcommentpermission', 'wikicode');
710
711         $comments = wikicode_get_comments($this->modcontext->id, $page->id);
712
713         if (has_capability('mod/wikicode:editcomment', $this->modcontext)) {
714             echo '<div class="midpad"><a href="' . $CFG->wwwroot . '/mod/wikicode/
715                 editcomments.php?action=add&pageid=' . $page->id . '"> .
716                 get_string('addcomment', 'wikicode') . '</a></div>';
717         }
718
719         $options = array('swid' => $this->page->subwikiid, 'pageid' => $page->id);
720         $version = wikicode_get_current_version($this->page->id);
721         $format = $version->contentformat;
722
723         if (empty($comments)) {
724             echo $OUTPUT->heading(get_string('nocomments', 'wikicode'));
725         }
726     }
727 }

```

```

721     }
722
723     foreach ($comments as $comment) {
724
725         $user = wikicode_get_user_info($comment->userid);
726
727         $fullname = fullname($user, has_capability('moodle/site:viewfullnames',
728             get_context_instance(CONTEXT_COURSE, $course->id)));
729         $by = new stdClass();
730         $by->name = '<a href="' . $CFG->wwwroot . '/user/view.php?id=' . $user
731             ->id . '&course=' . $course->id . '">' . $fullname . '</a>';
732         $by->date = userdate($comment->timecreated);
733
734         $t = new html_table();
735         $cell1 = new html_table_cell($OUTPUT->user_picture($user, array('popup'
736             => true)));
737         $cell2 = new html_table_cell(get_string('bynameondate', 'forum', $by));
738         $cell3 = new html_table_cell();
739         $cell3->attributes['width'] = "80%";
740         $cell4 = new html_table_cell();
741         $cell5 = new html_table_cell();
742
743         $row1 = new html_table_row();
744         $row1->cells[] = $cell1;
745         $row1->cells[] = $cell2;
746         $row2 = new html_table_row();
747         $row2->cells[] = $cell3;
748
749         if ($format != 'html') {
750             if ($format == 'creole') {
751                 $parsedcontent = wikicode_parse_content('creole', $comment->
752                     content, $options);
753             } else if ($format == 'nwiki') {
754                 $parsedcontent = wikicode_parse_content('nwiki', $comment->
755                     content, $options);
756             }
757
758             $cell4->text = format_text(html_entity_decode($parsedcontent['
759                 parsed_text']), FORMAT_HTML);
760         } else {
761             $cell4->text = format_text($comment->content, FORMAT_HTML);
762         }
763
764         $row2->cells[] = $cell4;
765
766         $t->data = array($row1, $row2);
767
768         $actionicons = false;
769         if ((has_capability('mod/wikicode:managecomment', $this->modcontext)))
770         {
771             $urledit = new moodle_url('/mod/wikicode/editcomments.php', array('
772                 commentid' => $comment->id, 'pageid' => $page->id, 'action' =>
773                 'edit'));

```

```

765         $urldelet = new moodle_url('/mod/wikicode/instancecomments.php',
            array('commentid' => $comment->id, 'pageid' => $page->id, '
            action' => 'delete'));
766         $actionicons = true;
767     } else if ((has_capability('mod/wikicode:editcomment', $this->
        modcontext)) and ($USER->id == $user->id)) {
768         $urledit = new moodle_url('/mod/wikicode/editcomments.php', array('
            commentid' => $comment->id, 'pageid' => $page->id, 'action' =>
            'edit'));
769         $urldelet = new moodle_url('/mod/wikicode/instancecomments.php',
            array('commentid' => $comment->id, 'pageid' => $page->id, '
            action' => 'delete'));
770         $actionicons = true;
771     }
772
773     if ($actionicons) {
774         $cell6 = new html_table_cell($OUTPUT->action_icon($urledit, new
            pix_icon('t/edit', get_string('edit')))) . $OUTPUT->action_icon(
            $urldelet, new pix_icon('t/delete', get_string('delete'))));
775         $row3 = new html_table_row();
776         $row3->cells[] = $cell5;
777         $row3->cells[] = $cell6;
778         $t->data[] = $row3;
779     }
780
781     echo html_writer::tag('div', html_writer::table($t), array('class'=>'no
        -overflow'));
782
783     }
784 }
785
786 function set_url() {
787     global $PAGE, $CFG;
788     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/comments.php', array('pageid'
        => $this->page->id));
789 }
790
791 protected function create_navbar() {
792     global $PAGE, $CFG;
793
794     parent::create_navbar();
795     $PAGE->navbar->add(get_string('comments', 'wikicode'));
796 }
797
798 }
799
800 /**
801  * Class that models the behavior of wiki's edit comment
802  *
803  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
804  */
805 class page_wikicode_editcomment extends page_wikicode {
806     private $comment;
807     private $action;

```

```

808     private $form;
809     private $format;
810
811     function set_url() {
812         global $PAGE, $CFG;
813         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/comments.php', array('pageid'
            => $this->page->id));
814     }
815
816     function print_header() {
817         parent::print_header();
818         $this->print_pagetitle();
819     }
820
821     function print_content() {
822         global $PAGE;
823
824         require_capability('mod/wikicode:editcomment', $this->modcontext, NULL,
            true, 'noeditcommentpermission', 'wikicode');
825
826         if ($this->action == 'add') {
827             $this->add_comment_form();
828         } else if ($this->action == 'edit') {
829             $this->edit_comment_form($this->comment);
830         }
831     }
832
833     function set_action($action, $comment) {
834         global $CFG;
835         require_once($CFG->dirroot . '/mod/wikicode/comments_form.php');
836
837         $this->action = $action;
838         $this->comment = $comment;
839         $version = wikicode_get_current_version($this->page->id);
840         $this->format = $version->contentformat;
841
842         if ($this->format == 'html') {
843             $destination = $CFG->wwwroot . '/mod/wikicode/instancecomments.php?
                pageid=' . $this->page->id;
844             $this->form = new mod_wikicode_comments_form($destination);
845         }
846     }
847
848     protected function create_navbar() {
849         global $PAGE, $CFG;
850
851         $PAGE->navbar->add(get_string('comments', 'wikicode'), $CFG->wwwroot . '/
            mod/wikicode/comments.php?pageid=' . $this->page->id);
852
853         if ($this->action == 'add') {
854             $PAGE->navbar->add(get_string('insertcomment', 'wikicode'));
855         } else {
856             $PAGE->navbar->add(get_string('editcomment', 'wikicode'));
857         }

```

```

858     }
859
860     protected function setup_tabs() {
861         parent::setup_tabs(array('linkedwhenactive' => 'comments', 'activetab' => '
            comments'));
862     }
863
864     private function add_comment_form() {
865         global $CFG;
866         require_once($CFG->dirroot . '/mod/wikicode/editors/wiki_editor.php');
867
868         $pageid = $this->page->id;
869
870         if ($this->format == 'html') {
871             $com = new stdClass();
872             $com->action = 'add';
873             $com->commentoptions = array('trusttext' => true, 'maxfiles' => 0);
874             $this->form->set_data($com);
875             $this->form->display();
876         } else {
877             wikicode_print_editor_wiki($this->page->id, null, $this->format, -1,
                null, false, null, 'addcomments');
878         }
879     }
880
881     private function edit_comment_form($com) {
882         global $CFG;
883         require_once($CFG->dirroot . '/mod/wikicode/comments_form.php');
884         require_once($CFG->dirroot . '/mod/wikicode/editors/wiki_editor.php');
885
886         if ($this->format == 'html') {
887             $com->action = 'edit';
888             $com->entrycomment_editor['text'] = $com->content;
889             $com->commentoptions = array('trusttext' => true, 'maxfiles' => 0);
890
891             $this->form->set_data($com);
892             $this->form->display();
893         } else {
894             wikicode_print_editor_wiki($this->page->id, $com->content, $this->
                format, -1, null, false, array(), 'editcomments', $com->id);
895         }
896     }
897 }
898
899 }
900
901 /**
902  * Wiki page search page
903  *
904  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
905  */
906 class page_wikicode_search extends page_wikicode {
907     private $search_result;
908 }

```

```

909     protected function create_navbar() {
910         global $PAGE, $CFG;
911
912         $PAGE->navbar->add(format_string($this->title));
913     }
914
915     function set_search_string($search, $searchcontent) {
916         $swid = $this->subwiki->id;
917         if ($searchcontent) {
918             $this->search_result = wikicode_search_all($swid, $search);
919         } else {
920             $this->search_result = wikicode_search_title($swid, $search);
921         }
922     }
923
924     function set_url() {
925         global $PAGE, $CFG;
926         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/search.php');
927     }
928
929     function print_content() {
930         global $PAGE;
931
932         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
933             'noviewpagepermission', 'wikicode');
934
935         echo $this->wikioutput->search_result($this->search_result, $this->subwiki)
936             ;
937     }
938 }
939
940 /**
941  *
942  * Class that models the behavior of wiki's
943  * create page
944  */
945
946 class page_wikicode_create extends page_wikicode {
947
948     private $format;
949     private $swid;
950     private $wid;
951     private $action;
952     private $mform;
953
954     function print_header() {
955         $this->set_url();
956         parent::print_header();
957     }
958
959     function set_url() {
960         global $PAGE, $CFG;
961
962         $params = array();

```

```

961         if ($this->action == 'new') {
962             $params['action'] = 'new';
963             $params['swid'] = $this->swid;
964             $params['wid'] = $this->wid;
965             if ($this->title != get_string('newpage', 'wikicode')) {
966                 $params['title'] = $this->title;
967             }
968             $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/create.php', $params);
969         } else {
970             $params['action'] = 'create';
971             $params['swid'] = $this->swid;
972             $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/create.php', $params);
973         }
974     }
975
976     function set_format($format) {
977         $this->format = $format;
978     }
979
980     function set_wid($wid) {
981         $this->wid = $wid;
982     }
983
984     function set_swid($swid) {
985         $this->swid = $swid;
986     }
987
988     function set_action($action) {
989         global $PAGE;
990         $this->action = $action;
991
992         require_once(dirname(__FILE__) . '/create_form.php');
993         $url = new moodle_url('/mod/wikicode/create.php', array('action' => 'create',
994             'wid' => $PAGE->activityrecord->id, 'gid' => $this->gid, 'uid' =>
995                 $this->uid));
996         $formats = wikicode_get_formats();
997         $options = array('formats' => $formats, 'defaultformat' => $PAGE->
998             activityrecord->defaultformat, 'forceformat' => $PAGE->activityrecord->
999                 forceformat);
1000         if ($this->title != get_string('newpage', 'wikicode')) {
1001             $options['disable_pagetitle'] = true;
1002         }
1003         $this->mform = new mod_wikicode_create_form($url->out(false), $options);
1004     }
1005
1006     protected function create_navbar() {
1007         global $PAGE;
1008
1009         $PAGE->navbar->add($this->title);
1010     }
1011
1012     function print_content($pagetitle = '') {
1013         global $PAGE;

```



```

1011         // @TODO: Change this to has_capability and show an alternative interface.
1012         require_capability('mod/wikicode:createpage', $this->modcontext, NULL, true
1013             , 'nocreatepermission', 'wikicode');
1014         $data = new stdClass();
1015         if (!empty($pagetitle)) {
1016             $data->pagetitle = $pagetitle;
1017         }
1018         $data->pageformat = $PAGE->activityrecord->defaultformat;
1019
1020         $this->mform->set_data($data);
1021         $this->mform->display();
1022     }
1023
1024     function create_page($pagetitle) {
1025         global $USER, $CFG, $PAGE;
1026         $data = $this->mform->get_data();
1027         if (empty($this->subwiki)) {
1028             $swid = wikicode_add_subwiki($PAGE->activityrecord->id, $this->gid,
1029                 $this->uid);
1030             $this->subwiki = wikicode_get_subwiki($swid);
1031         }
1032         if ($data) {
1033             $id = wikicode_create_page($this->subwiki->id, $data->pagetitle, $data
1034                 ->pageformat, $USER->id);
1035         } else {
1036             $id = wikicode_create_page($this->subwiki->id, $pagetitle, $PAGE->
1037                 activityrecord->defaultformat, $USER->id);
1038         }
1039         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $id);
1040     }
1041 }
1042
1043 /**
1044  * Class that models the behavior of wiki's
1045  * compile page
1046  *
1047  */
1048 class page_wikicode_compile extends page_wikicode_edit {
1049
1050     private $newcontent, $download;
1051
1052     function print_header() {
1053     }
1054
1055     function print_content() {
1056         global $PAGE;
1057
1058         $context = get_context_instance(CONTEXT_MODULE, $PAGE->cm->id);
1059         require_capability('mod/wikicode:editpage', $context, NULL, true, '
1060             noeditpermission', 'wikicode');
1061
1062         $this->print_compile();
1063     }
1064 }

```

```

1060     function set_newcontent($newcontent) {
1061         $this->newcontent = $newcontent;
1062     }
1063
1064     function set_download($download) {
1065         $this->download = $download;
1066     }
1067
1068     protected function set_session_url() {
1069     }
1070
1071     protected function print_compile() {
1072         global $CFG, $USER, $OUTPUT, $PAGE;
1073
1074         $url = $CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page->id;
1075         if (!empty($this->section)) {
1076             $url .= "&section=" . urlencode($this->section);
1077         }
1078
1079         $params = array('attachmentoptions' => page_wikicode_edit::
1080             $attachmentoptions, 'format' => $this->format, 'version' => $this->
1081             versionnumber);
1082
1083         if ($this->format != 'html') {
1084             $params['fileitemid'] = $this->page->id;
1085             $params['contextid'] = $this->modcontext->id;
1086             $params['component'] = 'mod_wikicode';
1087             $params['filearea'] = 'attachments';
1088         }
1089
1090         $form = new mod_wikicode_edit_form($url, $params);
1091
1092         $save = false;
1093         $data = false;
1094         if ($data = $form->get_data()) {
1095
1096             $save = wikicode_compile_page($this->page, $data->newcontent, $USER->id
1097                 , $this->download);
1098
1099             //deleting old locks
1100             wikicode_delete_locks($this->page->id, $USER->id, $this->section);
1101
1102             redirect($CFG->wwwroot . '/mod/wikicode/edit.php?compiled=1&pageid=' .
1103                 $this->page->id);
1104         } else {
1105             print_error('savingerror', 'wikicode');
1106         }
1107     }
1108 }
1109
1110 /**
1111  *
1112  * Class that models the behavior of wiki's
1113  * view differences

```

```

1110  *
1111  */
1112  class page_wikicode_diff extends page_wikicode {
1113
1114      private $compare;
1115      private $comparewith;
1116
1117      function print_header() {
1118          global $OUTPUT;
1119
1120          parent::print_header();
1121
1122          $this->print_pagetitle();
1123          $vstring = new stdClass();
1124          $vstring->old = $this->compare;
1125          $vstring->new = $this->comparewith;
1126          echo $OUTPUT->heading(get_string('comparewith', 'wikicode', $vstring));
1127      }
1128
1129      /**
1130       * Print the diff view
1131       */
1132      function print_content() {
1133          global $PAGE;
1134
1135          require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1136                          'noviewpagepermission', 'wikicode');
1137
1138          $this->print_diff_content();
1139      }
1140
1141      function set_url() {
1142          global $PAGE, $CFG;
1143
1144          $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/diff.php', array('pageid' =>
1145                          $this->page->id, 'comparewith' => $this->comparewith, 'compare' =>
1146                          $this->compare));
1147      }
1148
1149      function set_comparison($compare, $comparewith) {
1150          $this->compare = $compare;
1151          $this->comparewith = $comparewith;
1152      }
1153
1154      protected function create_navbar() {
1155          global $PAGE, $CFG;
1156
1157          parent::create_navbar();
1158          $PAGE->navbar->add(get_string('history', 'wikicode'), $CFG->wwwroot . '/mod/
1159                          /wikicode/history.php?pageid' . $this->page->id);
1160          $PAGE->navbar->add(get_string('diff', 'wikicode'));
1161      }
1162
1163      protected function setup_tabs() {

```

```

1160     parent::setup_tabs(array('linkedwhenactive' => 'history', 'activetab' => '
        history'));
1161 }
1162
1163 /**
1164  * Given two versions of a page, prints a page displaying the differences
        between them.
1165  *
1166  * @global object $CFG
1167  * @global object $OUTPUT
1168  * @global object $PAGE
1169  */
1170 private function print_diff_content() {
1171     global $CFG, $OUTPUT, $PAGE;
1172
1173     $pageid = $this->page->id;
1174     $total = wikicode_count_wikicode_page_versions($pageid) - 1;
1175
1176     $oldversion = wikicode_get_wikicode_page_version($pageid, $this->compare);
1177
1178     $newversion = wikicode_get_wikicode_page_version($pageid, $this->
        comparewith);
1179
1180     if ($oldversion && $newversion) {
1181
1182         $oldtext = format_text(wikicode_remove_tags($oldversion->content),
            FORMAT_PLAIN, array('overflowdiv'=>true));
1183         $newtext = format_text(wikicode_remove_tags($newversion->
            content), FORMAT_PLAIN, array('overflowdiv'=>true));
1184         list($diff1, $diff2) = ouwiki_diff_html($oldtext, $newtext);
1185         $oldversion->diff = $diff1;
1186         $oldversion->user = wikicode_get_user_info($oldversion->userid);
1187         $newversion->diff = $diff2;
1188         $newversion->user = wikicode_get_user_info($newversion->userid);
1189
1190         echo $this->wikioutput->diff($pageid, $oldversion, $newversion, array('
            total' => $total));
1191     } else {
1192         print_error('versionerror', 'wikicode');
1193     }
1194 }
1195 }
1196
1197 /**
1198  *
1199  * Class that models the behavior of wiki's history page
1200  *
1201  */
1202 class page_wikicode_history extends page_wikicode {
1203     /**
1204      * @var int $paging current page
1205      */
1206     private $paging;
1207

```

```

1208     /**
1209      * @var int @rowsperpage Items per page
1210      */
1211     private $rowsperpage = 10;
1212
1213     /**
1214      * @var int $allversion if $allversion != 0, all versions will be printed in a
1215      *      single table
1216      */
1217     private $allversion;
1218
1219     function __construct($wiki, $subwiki, $cm) {
1220         global $PAGE;
1221         parent::__construct($wiki, $subwiki, $cm);
1222         $PAGE->requires->js_init_call('M.mod_wikicode.history', null, true);
1223     }
1224
1225     function print_header() {
1226         parent::print_header();
1227         $this->print_pagetitle();
1228     }
1229
1230     function print_pagetitle() {
1231         global $OUTPUT;
1232         $html = '';
1233
1234         $html .= $OUTPUT->container_start();
1235         $html .= $OUTPUT->heading_with_help(format_string($this->title), 'history',
1236             'wikicode');
1237         $html .= $OUTPUT->container_end();
1238         echo $html;
1239     }
1240
1241     function print_content() {
1242         global $PAGE;
1243
1244         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1245             'noviewpagepermission', 'wikicode');
1246
1247         $this->print_history_content();
1248     }
1249
1250     function set_url() {
1251         global $PAGE, $CFG;
1252         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/history.php', array('pageid'
1253             => $this->page->id));
1254     }
1255
1256     function set_paging($paging) {
1257         $this->paging = $paging;
1258     }
1259
1260     function set_allversion($allversion) {
1261         $this->allversion = $allversion;
1262     }

```

```

1258     }
1259
1260     protected function create_navbar() {
1261         global $PAGE, $CFG;
1262
1263         parent::create_navbar();
1264         $PAGE->navbar->add(get_string('history', 'wikicode'));
1265     }
1266
1267     /**
1268      * Prints the history for a given wiki page
1269      *
1270      * @global object $CFG
1271      * @global object $OUTPUT
1272      * @global object $PAGE
1273      */
1274     private function print_history_content() {
1275         global $CFG, $OUTPUT, $PAGE;
1276
1277         $pageid = $this->page->id;
1278         $offset = $this->paging * $this->rowsperpage;
1279         // vcount is the latest version
1280         $vcount = wikicode_count_wikicode_page_versions($pageid) - 1;
1281         if ($this->allversion) {
1282             $versions = wikicode_get_wikicode_page_versions($pageid, 0, $vcount);
1283         } else {
1284             $versions = wikicode_get_wikicode_page_versions($pageid, $offset, $this
1285                 ->rowsperpage);
1286         }
1287         // We don't want version 0 to be displayed
1288         // version 0 is blank page
1289         if (end($versions)->version == 0) {
1290             array_pop($versions);
1291         }
1292
1293         $contents = array();
1294
1295         $version0page = wikicode_get_wikicode_page_version($this->page->id, 0);
1296         $creator = wikicode_get_user_info($version0page->userid);
1297         $a = new stdClass;
1298         $a->date = userdate($this->page->timecreated, get_string('
1299             strftimedaydatetime', 'langconfig'));
1300         $a->username = fullname($creator);
1301         echo $OUTPUT->heading(get_string('createddate', 'wikicode', $a), 4, '
1302             wikicode_headingtime');
1303         if ($vcount > 0) {
1304
1305             /// If there is only one version, we don't need radios nor forms
1306             if (count($versions) == 1) {
1307
1308                 $row = array_shift($versions);
1309
1310                 $username = wikicode_get_user_info($row->userid);
1311                 $picture = $OUTPUT->user_picture($username);

```

```

1309         $date = userdate($row->timecreated, get_string('strftimedate', '
1310             langconfig'));
1311         $time = userdate($row->timecreated, get_string('strftimetype', '
1312             langconfig'));
1313         $versionid = wikicode_get_version($row->id);
1314         $versionlink = new moodle_url('/mod/wikicode/viewversion.php',
1315             array('pageid' => $pageid, 'versionid' => $versionid->id));
1316         $userlink = new moodle_url('/user/view.php', array('id' =>
1317             $username->id));
1318         $contents[] = array('', html_writer::link($versionlink->out(false),
1319             $row->version), $picture . html_writer::link($userlink->out(
1320             false), fullname($username)), $time, $OUTPUT->container($date,
1321             'wikicode_histdate'));
1322
1323         $table = new html_table();
1324         $table->head = array('', get_string('version'), get_string('user'),
1325             get_string('modified'), '');
1326         $table->data = $contents;
1327         $table->attributes['class'] = 'mdl-align';
1328
1329         echo html_writer::table($table);
1330
1331     } else {
1332
1333         $checked = $vcount - $offset;
1334         $rowclass = array();
1335
1336         foreach ($versions as $version) {
1337             $user = wikicode_get_user_info($version->userid);
1338             $picture = $OUTPUT->user_picture($user, array('popup' => true))
1339             ;
1340             $date = userdate($version->timecreated, get_string('
1341                 strftimedate'));
1342             $rowclass[] = 'wikicode_histnewdate';
1343             $time = userdate($version->timecreated, get_string('
1344                 strftimetype', 'langconfig'));
1345             $versionid = wikicode_get_version($version->id);
1346             if ($versionid) {
1347                 $url = new moodle_url('/mod/wikicode/viewversion.php',
1348                     array('pageid' => $pageid, 'versionid' => $versionid->
1349                     id));
1350                 $viewlink = html_writer::link($url->out(false), $version->
1351                     version);
1352             } else {
1353                 $viewlink = $version->version;
1354             }
1355             $userlink = new moodle_url('/user/view.php', array('id' =>
1356                 $version->userid));
1357             $contents[] = array($this->choose_from_radio(array($version->
1358                 version => null), 'compare', 'M.mod_wikicode.history()',
1359                 $checked - 1, true) . $this->choose_from_radio(array(
1360                 $version->version => null), 'comparewith', 'M.mod_wikicode
1361                 .history()', $checked, true), $viewlink, $picture .

```

```

1343         html_writer::link($userlink->out(false), fullname($user)),
1344         $time, $OUTPUT->container($date, 'wikicode_histdate'));
1345     }
1346
1347     $table = new html_table();
1348
1349     $icon = $OUTPUT->help_icon('diff', 'wikicode');
1350
1351     $table->head = array(get_string('diff', 'wikicode') . $icon,
1352         get_string('version'), get_string('user'), get_string('modified'), '');
1353
1354     $table->data = $contents;
1355     $table->attributes['class'] = 'generaltable mdl-align';
1356     $table->rowclasses = $rowclass;
1357
1358     /*$table = new StdClass();
1359     $table->head = array(helpbutton('diff', 'diff', 'wikicode', true,
1360         false, '', true, ''),
1361         get_string('version'),
1362         get_string('user'),
1363         get_string('modified'),
1364         '');
1365     $table->data = $contents;
1366     $table->class = 'mdl-align';
1367     $table->rowclass = $rowclass;*/
1368
1369     ///Print the form
1370     echo html_writer::start_tag('form', array('action'=>new moodle_url(
1371         '/mod/wikicode/diff.php'), 'method'=>'get', 'id'=>'diff'));
1372     echo html_writer::tag('div', html_writer::empty_tag('input', array(
1373         'type'=>'hidden', 'name'=>'pageid', 'value'=>$pageid)));
1374     echo html_writer::table($table);
1375     echo html_writer::start_tag('div', array('class'=>'mdl-align'));
1376     echo html_writer::empty_tag('input', array('type'=>'submit', 'class'
1377         '=>'wikicode-form-button', 'value'=>get_string('comparesel', 'wikicode')));
1378     echo html_writer::end_tag('div');
1379     echo html_writer::end_tag('form');
1380 }
1381 } else {
1382     print_string('nohistory', 'wikicode');
1383 }
1384
1385 if (!$this->allversion) {
1386     // $pagingbar = moodle_paging_bar::make($vcount, $this->paging, $this->
1387         rowsperpage, $CFG->wwwroot.'/mod/wikicode/history.php?pageid=' .
1388         $pageid.'&');
1389     // $pagingbar->pagevar = $pagevar;
1390     echo $OUTPUT->paging_bar($vcount, $this->paging, $this->rowsperpage,
1391         $CFG->wwwroot . '/mod/wikicode/history.php?pageid=' . $pageid . '&
1392         amp;');
1393     //print_paging_bar($vcount, $paging, $rowsperpage, $CFG->wwwroot.'/mod/
1394         wikicode/history.php?pageid=' . $pageid.'&', 'paging');
1395 } else {

```



```

1382         $link = new moodle_url('/mod/wikicode/history.php', array('pageid' =>
1383             $pageid));
1384     }
1385     if ($vcount > $this->rowsperpage && !$this->allversion) {
1386         $link = new moodle_url('/mod/wikicode/history.php', array('pageid' =>
1387             $pageid, 'allversion' => 1));
1388     }
1389     $OUTPUT->container(html_writer::link($link->out(false), get_string('
1390         viewperpage', 'wikicode', $this->rowsperpage)), 'mdl-align');
1391 }
1392 /**
1393  * Given an array of values, creates a group of radio buttons to be part of a
1394  * form
1395  *
1396  * @param array $options An array of value-label pairs for the radio group (
1397  *     values as keys).
1398  * @param string $name Name of the radiogroup (unique in the form).
1399  * @param string $onclick Function to be executed when the radios are clicked.
1400  * @param string $checked The value that is already checked.
1401  * @param bool $return If true, return the HTML as a string, otherwise
1402  *     print it.
1403  *
1404  * @return mixed If $return is false, returns nothing, otherwise returns a
1405  *     string of HTML.
1406  */
1407 private function choose_from_radio($options, $name, $onclick = '', $checked = '
1408     ', $return = false) {
1409
1410     static $idcounter = 0;
1411
1412     if (!$name) {
1413         $name = 'unnamed';
1414     }
1415
1416     $output = '<span class="radiogroup ' . $name . "\">\n";
1417
1418     if (!empty($options)) {
1419         $currentradio = 0;
1420         foreach ($options as $value => $label) {
1421             $htmlid = 'auto-rb' . sprintf('%04d', ++$idcounter);
1422             $output .= ' <span class="radioelement ' . $name . ' rb' .
1423                 $currentradio . "\">";
1424             $output .= '<input name="' . $name . '" id="' . $htmlid . '" type="
1425                 radio" value="' . $value . '"';
1426             if ($value == $checked) {
1427                 $output .= ' checked="checked"';
1428             }
1429             if ($onclick) {
1430                 $output .= ' onclick="' . $onclick . '"';
1431             }
1432             if ($label == '') {

```

```

1425         $output .= ' /> <label for="' . $htmlid . '">' . $value . '</
1426             label></span>' . "\n";
1427     } else {
1428         $output .= ' /> <label for="' . $htmlid . '">' . $label . '</
1429             label></span>' . "\n";
1430     }
1431     $currentradio = ($currentradio + 1) % 2;
1432 }
1433 $output .= '</span>' . "\n";
1434
1435 if ($return) {
1436     return $output;
1437 } else {
1438     echo $output;
1439 }
1440 }
1441 }
1442
1443 /**
1444  * Class that models the behavior of wiki's map page
1445  *
1446  */
1447 class page_wikicode_map extends page_wikicode {
1448
1449     /**
1450      * @var int wiki view option
1451      */
1452     private $view;
1453
1454     function print_header() {
1455         parent::print_header();
1456         $this->print_pagetitle();
1457     }
1458
1459     function print_content() {
1460         global $CFG, $PAGE;
1461
1462         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
1463             'noviewpagepermission', 'wikicode');
1464
1465         if ($this->view > 0) {
1466             //echo '<div><a href="' . $CFG->wwwroot . '/mod/wikicode/map.php?pageid
1467                 =' . $this->page->id . '">' . get_string('backtomapmenu', 'wikicode
1468                 ') . '</a></div>';
1469         }
1470
1471         switch ($this->view) {
1472             case 1:
1473                 echo $this->wikioutput->menu_map($this->page->id, $this->view);
1474                 $this->print_contributions_content();
1475                 break;
1476             case 2:

```

```

1474         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1475         $this->print_navigation_content();
1476         break;
1477     case 3:
1478         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1479         $this->print_orphaned_content();
1480         break;
1481     case 4:
1482         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1483         $this->print_index_content();
1484         break;
1485     case 5:
1486         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1487         $this->print_page_list_content();
1488         break;
1489     case 6:
1490         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1491         $this->print_updated_content();
1492         break;
1493     default:
1494         echo $this->wikioutput->menu_map($this->page->id, $this->view);
1495         $this->print_page_list_content();
1496     }
1497 }
1498
1499 function set_view($option) {
1500     $this->view = $option;
1501 }
1502
1503 function set_url() {
1504     global $PAGE, $CFG;
1505     $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/map.php', array('pageid' =>
1506         $this->page->id));
1507 }
1508
1509 protected function create_navbar() {
1510     global $PAGE;
1511
1512     parent::create_navbar();
1513     $PAGE->navbar->add(get_string('map', 'wikicode'));
1514 }
1515
1516 /**
1517  * Prints the contributions tab content
1518  *
1519  * @uses $OUTPUT, $USER
1520  */
1521 private function print_contributions_content() {
1522     global $CFG, $OUTPUT, $USER;
1523     $page = $this->page;
1524
1525     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1526         $fresh = wikicode_refresh_cachedcontent($page);

```

```

1527         $page = $fresh['page'];
1528     }
1529
1530     $swid = $this->subwiki->id;
1531
1532     $table = new html_table();
1533     $table->head = array(get_string('contributions', 'wikicode') . $OUTPUT->
        help_icon('contributions', 'wikicode'));
1534     $table->attributes['class'] = 'wikicode_editor_generalbox';
1535     $table->data = array();
1536     $table->rowclasses = array();
1537
1538     $lastversions = array();
1539     $pages = array();
1540     $users = array();
1541
1542     if ($contribs = wikicode_get_contributions($swid, $USER->id)) {
1543         foreach ($contribs as $contrib) {
1544             if (!array_key_exists($contrib->pageid, $pages)) {
1545                 $page = wikicode_get_page($contrib->pageid);
1546                 $pages[$contrib->pageid] = $page;
1547             } else {
1548                 continue;
1549             }
1550
1551             if (!array_key_exists($page->id, $lastversions)) {
1552                 $version = wikicode_get_last_version($page->id);
1553                 $lastversions[$page->id] = $version;
1554             } else {
1555                 $version = $lastversions[$page->id];
1556             }
1557
1558             if (!array_key_exists($version->userid, $users)) {
1559                 $user = wikicode_get_user_info($version->userid);
1560                 $users[$version->userid] = $user;
1561             } else {
1562                 $user = $users[$version->userid];
1563             }
1564
1565             $link = wikicode_parser_link(format_string($page->title), array('
                swid' => $swid));
1566             $class = ($link['new']) ? 'class="wiki_newentry"' : '';
1567
1568             $linkpage = '<a href="' . $link['url'] . '"' . $class . '>' . $link
                ['content'] . '</a>';
1569             $icon = $OUTPUT->user_picture($user, array('popup' => true));
1570
1571             $table->data[] = array("$icon&nbsp;$linkpage");
1572         }
1573     } else {
1574         $table->data[] = array(get_string('nocontribs', 'wikicode'));
1575     }
1576     echo html_writer::table($table);
1577 }

```

```

1578
1579     /**
1580      * Prints the navigation tab content
1581      *
1582      * @uses $OUTPUT
1583      *
1584      */
1585     private function print_navigation_content() {
1586         global $OUTPUT;
1587         $page = $this->page;
1588
1589         if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1590             $fresh = wikicode_refresh_cachedcontent($page);
1591             $page = $fresh['page'];
1592         }
1593
1594         $tolinks = wikicode_get_linked_to_pages($page->id);
1595         $fromlinks = wikicode_get_linked_from_pages($page->id);
1596
1597         $table = new html_table();
1598         $table->attributes['class'] = 'wikicode_navigation_from';
1599         $table->head = array(get_string('navigationfrom', 'wikicode') . $OUTPUT->
1600             help_icon('navigationfrom', 'wikicode') . ':');
1601         $table->data = array();
1602         $table->rowclasses = array();
1603         foreach ($fromlinks as $link) {
1604             $lpage = wikicode_get_page($link->frompageid);
1605             $link = new moodle_url('/mod/wikicode/view.php', array('pageid' =>
1606                 $lpage->id));
1607             $table->data[] = array(html_writer::link($link->out(false),
1608                 format_string($lpage->title)));
1609             $table->rowclasses[] = 'mdl-align';
1610         }
1611
1612         $table_left = html_writer::table($table);
1613
1614         $table = new html_table();
1615         $table->attributes['class'] = 'wikicode_navigation_to';
1616         $table->head = array(get_string('navigationto', 'wikicode') . $OUTPUT->
1617             help_icon('navigationto', 'wikicode') . ':');
1618         $table->data = array();
1619         $table->rowclasses = array();
1620         foreach ($tolinks as $link) {
1621             if ($link->tomissingpage) {
1622                 $viewlink = new moodle_url('/mod/wikicode/create.php', array('swid'
1623                     => $page->subwikiid, 'title' => $link->tomissingpage, 'action'
1624                     => 'new'));
1625                 $table->data[] = array(html_writer::link($viewlink->out(false),
1626                     format_string($link->tomissingpage), array('class' => '
1627                         wikicode_newentry')));
1628             } else {
1629                 $lpage = wikicode_get_page($link->topageid);
1630                 $viewlink = new moodle_url('/mod/wikicode/view.php', array('pageid'
1631                     => $lpage->id));

```

```

1623         $table->data[] = array(html_writer::link($viewlink->out(false),
1624                                     format_string($lpage->title)));
1625     }
1626     $table->rowclasses[] = 'mdl-align';
1627 }
1628 $table_right = html_writer::table($table);
1629 echo $OUTPUT->container($table_left . $table_right, '
    wikicode_navigation_container');
1630
1631 /**
1632  * Prints the index page tab content
1633  *
1634  *
1635  */
1636 private function print_index_content() {
1637     global $OUTPUT;
1638     $page = $this->page;
1639
1640     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1641         $fresh = wikicode_refresh_cachedcontent($page);
1642         $page = $fresh['page'];
1643     }
1644
1645     $node = new navigation_node($page->title);
1646
1647     $keys = array();
1648     $tree = array();
1649     $tree = wikicode_build_tree($page, $node, $keys);
1650
1651     $table = new html_table();
1652     $table->head = array(get_string('pageindex', 'wikicode') . $OUTPUT->
        help_icon('pageindex', 'wikicode'));
1653     $table->attributes['class'] = 'wikicode_editor_generalbox';
1654     $table->data[] = array($this->render_navigation_node($tree));
1655
1656     echo html_writer::table($table);
1657 }
1658
1659 /**
1660  * Prints the page list tab content
1661  *
1662  *
1663  */
1664 private function print_page_list_content() {
1665     global $OUTPUT;
1666     $page = $this->page;
1667
1668     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1669         $fresh = wikicode_refresh_cachedcontent($page);
1670         $page = $fresh['page'];
1671     }
1672
1673     $pages = wikicode_get_page_list($this->subwiki->id);

```

```

1674
1675     $stdaux = new stdClass();
1676     $strspecial = get_string('special', 'wikicode');
1677
1678     foreach ($pages as $page) {
1679         $letter = textlib::strtoupper(textlib::substr($page->title, 0, 1));
1680         if (preg_match('/[A-Z]/', $letter)) {
1681             $stdaux->{
1682                 $letter}
1683             [] = wikicode_parser_link($page);
1684         } else {
1685             $stdaux->{
1686                 $strspecial}
1687             [] = wikicode_parser_link($page);
1688         }
1689     }
1690
1691     $table = new html_table();
1692     $table->head = array(get_string('pagelist', 'wikicode') . $OUTPUT->
1693         help_icon('pagelist', 'wikicode'));
1694     $table->attributes['class'] = 'wikicode_editor_generalbox';
1695     $table->align = array('center');
1696     foreach ($stdaux as $key => $elem) {
1697         $table->data[] = array($key);
1698         foreach ($elem as $e) {
1699             $table->data[] = array(html_writer::link($e['url'], $e['content']))
1700             ;
1701         }
1702     }
1703     echo html_writer::table($table);
1704 }
1705
1706 /**
1707  * Prints the orphaned tab content
1708  *
1709  */
1710 private function print_orphaned_content() {
1711     global $OUTPUT;
1712
1713     $page = $this->page;
1714
1715     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1716         $fresh = wikicode_refresh_cachedcontent($page);
1717         $page = $fresh['page'];
1718     }
1719
1720     $swid = $this->subwiki->id;
1721
1722     $table = new html_table();
1723     $table->head = array(get_string('orphaned', 'wikicode') . $OUTPUT->
1724         help_icon('orphaned', 'wikicode'));
1725     $table->attributes['class'] = 'wikicode_editor_generalbox';
1726     $table->data = array();

```

```

1725     $table->rowclasses = array();
1726
1727     if ($orphanedpages = wikicode_get_orphaned_pages($swid)) {
1728         foreach ($orphanedpages as $page) {
1729             $link = wikicode_parser_link($page->title, array('swid' => $swid));
1730             $class = ($link['new']) ? 'class="wiki_newentry"' : '';
1731             $table->data[] = array('<a href="' . $link['url'] . '"' . $class .
                '>' . format_string($link['content']) . '</a>');
1732         }
1733     } else {
1734         $table->data[] = array(get_string('noorphanedpages', 'wikicode'));
1735     }
1736
1737     echo html_writer::table($table);
1738 }
1739
1740 /**
1741  * Prints the updated tab content
1742  *
1743  * @uses $COURSE, $OUTPUT
1744  */
1745 private function print_updated_content() {
1746     global $COURSE, $OUTPUT;
1747     $page = $this->page;
1748
1749     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
1750         $fresh = wikicode_refresh_cachedcontent($page);
1751         $page = $fresh['page'];
1752     }
1753
1754     $swid = $this->subwiki->id;
1755
1756     $table = new html_table();
1757     $table->head = array(get_string('updatedpages', 'wikicode') . $OUTPUT->
        help_icon('updatedpages', 'wikicode'));
1758     $table->attributes['class'] = 'wikicode_editor_generalbox';
1759     $table->data = array();
1760     $table->rowclasses = array();
1761
1762     if ($pages = wikicode_get_updated_pages_by_subwiki($swid)) {
1763         $strdataux = '';
1764         foreach ($pages as $page) {
1765             $user = wikicode_get_user_info($page->userid);
1766             $strdata = strftime('%d %b %Y', $page->timemodified);
1767             if ($strdata != $strdataux) {
1768                 $table->data[] = array($OUTPUT->heading($strdata, 4));
1769                 $strdataux = $strdata;
1770             }
1771             $link = wikicode_parser_link($page->title, array('swid' => $swid));
1772             $class = ($link['new']) ? 'class="wiki_newentry"' : '';
1773
1774             $linkpage = '<a href="' . $link['url'] . '"' . $class . '>' .
                format_string($link['content']) . '</a>';

```



```

1776         $icon = $OUTPUT->user_picture($user, array($COURSE->id));
1777         $table->data[] = array("$icon&nbsp;$linkpage");
1778     }
1779 } else {
1780     $table->data[] = array(get_string('noupdatedpages', 'wikicode'));
1781 }
1782
1783 echo html_writer::table($table);
1784 }
1785
1786 protected function render_navigation_node($items, $attrs = array(),
1787     $expansionlimit = null, $depth = 1) {
1788
1789     // exit if empty, we don't want an empty ul element
1790     if (count($items) == 0) {
1791         return '';
1792     }
1793
1794     // array of nested li elements
1795     $lis = array();
1796     foreach ($items as $item) {
1797         if (!$item->display) {
1798             continue;
1799         }
1800         $content = $item->get_content();
1801         $title = $item->get_title();
1802         if ($item->icon instanceof renderable) {
1803             $icon = $this->wikioutput->render($item->icon);
1804             $content = $icon . '&nbsp;'; . $content; // use CSS for spacing of
1805                 icons
1806         }
1807         if ($item->helpbutton !== null) {
1808             $content = trim($item->helpbutton) . html_writer::tag('span',
1809                 $content, array('class' => 'clearhelpbutton'));
1810         }
1811
1812         if ($content === '') {
1813             continue;
1814         }
1815
1816         if ($item->action instanceof action_link) {
1817             //TODO: to be replaced with something else
1818             $link = $item->action;
1819             if ($item->hidden) {
1820                 $link->add_class('dimmed');
1821             }
1822             $content = $this->output->render($link);
1823         } else if ($item->action instanceof moodle_url) {
1824             $attributes = array();
1825             if ($title !== '') {
1826                 $attributes['title'] = $title;
1827             }
1828             if ($item->hidden) {
1829                 $attributes['class'] = 'dimmed_text';

```

```

1827         }
1828         $content = html_writer::link($item->action, $content, $attributes);
1829
1830     } else if (is_string($item->action) || empty($item->action)) {
1831         $attributes = array();
1832         if ($title !== '') {
1833             $attributes['title'] = $title;
1834         }
1835         if ($item->hidden) {
1836             $attributes['class'] = 'dimmed_text';
1837         }
1838         $content = html_writer::tag('span', $content, $attributes);
1839     }
1840
1841     // this applies to the li item which contains all child lists too
1842     $liclasses = array($item->get_css_type(), 'depth_' . $depth);
1843     if ($item->has_children() && (!$item->forceopen || $item->collapse)) {
1844         $liclasses[] = 'collapsed';
1845     }
1846     if ($item->isactive === true) {
1847         $liclasses[] = 'current_branch';
1848     }
1849     $liattr = array('class' => join(' ', $liclasses));
1850     // class attribute on the div item which only contains the item content
1851     $divclasses = array('tree_item');
1852     if ((empty($expansionlimit) || $item->type != $expansionlimit) && (
1853         $item->children->count() > 0 || ($item->nodetype == navigation_node
1854             ::NODETYPE_BRANCH && $item->children->count() == 0 && isloggedin())
1855     )) {
1856         $divclasses[] = 'branch';
1857     } else {
1858         $divclasses[] = 'leaf';
1859     }
1860     if (!empty($item->classes) && count($item->classes) > 0) {
1861         $divclasses[] = join(' ', $item->classes);
1862     }
1863     $divattr = array('class' => join(' ', $divclasses));
1864     if (!empty($item->id)) {
1865         $divattr['id'] = $item->id;
1866     }
1867     $content = html_writer::tag('p', $content, $divattr) . $this->
1868         render_navigation_node($item->children, array(), $expansionlimit,
1869             $depth + 1);
1870     if (!empty($item->preceedwithhr) && $item->preceedwithhr === true) {
1871         $content = html_writer::empty_tag('hr') . $content;
1872     }
1873     $content = html_writer::tag('li', $content, $liattr);
1874     $lis[] = $content;
1875 }
1876
1877 if (count($lis)) {
1878     return html_writer::tag('ul', implode("\n", $lis), $attrs);
1879 } else {
1880     return '';
1881 }

```

```

1876     }
1877 }
1878
1879 }
1880
1881 /**
1882  * Class that models the behavior of wiki's restore version page
1883  *
1884  */
1885 class page_wikicode_restoreversion extends page_wikicode {
1886     private $version;
1887
1888     function print_header() {
1889         parent::print_header();
1890         $this->print_pagetitle();
1891     }
1892
1893     function print_content() {
1894         global $CFG, $PAGE;
1895
1896         require_capability('mod/wikicode:managewiki', $this->modcontext, NULL, true
1897             , 'nomanagewikipermission', 'wikicode');
1898
1899         $this->print_restoreversion();
1900     }
1901
1902     function set_url() {
1903         global $PAGE, $CFG;
1904         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/viewversion.php', array('
1905             pageid' => $this->page->id, 'versionid' => $this->version->id));
1906     }
1907
1908     function set_versionid($versionid) {
1909         $this->version = wikicode_get_version($versionid);
1910     }
1911
1912     protected function create_navbar() {
1913         global $PAGE, $CFG;
1914
1915         parent::create_navbar();
1916         $PAGE->navbar->add(get_string('restoreversion', 'wikicode'));
1917     }
1918
1919     protected function setup_tabs() {
1920         parent::setup_tabs(array('linkedwhenactive' => 'history', 'activetab' => '
1921             history'));
1922     }
1923
1924     /**
1925      * Prints the restore version content
1926      *
1927      * @uses $CFG
1928      *
1929      * @param page $page The page whose version will be restored

```

```

1927     * @param int   $versionid The version to be restored
1928     * @param bool  $confirm If false, shows a yes/no confirmation page.
1929     *      If true, restores the old version and redirects the user to the 'view'
1930     *      tab.
1931     */
1932     private function print_restoreversion() {
1933         global $OUTPUT;
1934
1935         $version = wikicode_get_version($this->version->id);
1936
1937         $optionsyes = array('confirm'=>1, 'pageid'=>$this->page->id, 'versionid'=>
1938             $version->id, 'sesskey'=>sesskey());
1939         $restoreurl = new moodle_url('/mod/wikicode/restoreversion.php',
1940             $optionsyes);
1941         $return = new moodle_url('/mod/wikicode/viewversion.php', array('pageid'=>
1942             $this->page->id, 'versionid'=>$version->id));
1943
1944         echo $OUTPUT->heading(get_string('restoreconfirm', 'wikicode', $version->
1945             version), 2);
1946         print_container_start(false, 'wikicode_restoreform');
1947         echo '<form class="wiki_restore_yes" action="' . $restoreurl . '" method="
1948             post" id="restoreversion">';
1949         echo '<div><input type="submit" name="confirm" value="' . get_string('yes')
1950             . '" /></div>';
1951         echo '</form>';
1952         echo '<form class="wiki_restore_no" action="' . $return . '" method="post">
1953             ';
1954         echo '<div><input type="submit" name="norestore" value="' . get_string('no'
1955             ) . '" /></div>';
1956         echo '</form>';
1957         print_container_end();
1958     }
1959 }
1960 /**
1961  * Class that models the behavior of wiki's delete comment confirmation page
1962  *
1963  */
1964 class page_wikicode_deletecomment extends page_wikicode {
1965     private $commentid;
1966
1967     function print_header() {
1968         parent::print_header();
1969         $this->print_pagetitle();
1970     }
1971
1972     function print_content() {
1973         $this->printconfirmdelete();
1974     }
1975
1976     function set_url() {
1977         global $PAGE;
1978         $PAGE->set_url('/mod/wikicode/instancecomments.php', array('pageid' =>
1979             $this->page->id, 'commentid' => $this->commentid));
1980     }

```

```

1971
1972     public function set_action($action, $commentid, $content) {
1973         $this->action = $action;
1974         $this->commentid = $commentid;
1975         $this->content = $content;
1976     }
1977
1978     protected function create_navbar() {
1979         global $PAGE;
1980
1981         parent::create_navbar();
1982         $PAGE->navbar->add(get_string('deletecommentcheck', 'wikicode'));
1983     }
1984
1985     protected function setup_tabs() {
1986         parent::setup_tabs(array('linkedwhenactive' => 'comments', 'activetab' => '
            comments'));
1987     }
1988
1989     /**
1990      * Prints the comment deletion confirmation form
1991      *
1992      * @param page $page The page whose version will be restored
1993      * @param int $versionid The version to be restored
1994      * @param bool $confirm If false, shows a yes/no confirmation page.
1995      *      If true, restores the old version and redirects the user to the 'view'
1996      *      tab.
1997      */
1998     private function printconfirmdelete() {
1999         global $OUTPUT;
2000
2001         $strdeletecheck = get_string('deletecommentcheck', 'wikicode');
2002         $strdeletecheckfull = get_string('deletecommentcheckfull', 'wikicode');
2003
2004         //ask confirmation
2005         $optionsyes = array('confirm'=>1, 'pageid'=>$this->page->id, 'action'=>
            delete', 'commentid'=>$this->commentid, 'sesskey'=>sesskey());
2006         $deleteurl = new moodle_url('/mod/wikicode/instancecomments.php',
            $optionsyes);
2007         $return = new moodle_url('/mod/wikicode/comments.php', array('pageid'=>
            $this->page->id));
2008
2009         echo $OUTPUT->heading($strdeletecheckfull);
2010         print_container_start(false, 'wikicode_deletecommentform');
2011         echo '<form class="wiki_deletecomment_yes" action="' . $deleteurl . '"
            method="post" id="deletecomment">';
2012         echo '<div><input type="submit" name="confirmdeletecomment" value="' .
            get_string('yes') . '" /></div>';
2013         echo '</form>';
2014         echo '<form class="wiki_deletecomment_no" action="' . $return . '" method="
            post">';
2015         echo '<div><input type="submit" name="norestore" value="' . get_string('no'
            ) . '" /></div>';
2016         echo '</form>';

```

```

2016         print_container_end();
2017     }
2018 }
2019
2020 /**
2021  * Class that models the behavior of wiki's
2022  * save page
2023  *
2024  */
2025 class page_wikicode_save extends page_wikicode_edit {
2026
2027     private $newcontent;
2028
2029     function print_header() {
2030     }
2031
2032     function print_content() {
2033         global $PAGE;
2034
2035         $context = get_context_instance(CONTEXT_MODULE, $PAGE->cm->id);
2036         require_capability('mod/wikicode:editpage', $context, NULL, true, '
            noeditpermission', 'wikicode');
2037
2038         $this->print_save();
2039     }
2040
2041     function set_newcontent($newcontent) {
2042         $this->newcontent = $newcontent;
2043     }
2044
2045     protected function set_session_url() {
2046     }
2047
2048     protected function print_save() {
2049         global $CFG, $USER, $OUTPUT, $PAGE;
2050
2051         $url = $CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page->id;
2052         if (!empty($this->section)) {
2053             $url .= "&section=" . urlencode($this->section);
2054         }
2055
2056         $params = array('attachmentoptions' => page_wikicode_edit::
            $attachmentoptions, 'format' => $this->format, 'version' => $this->
            versionnumber);
2057
2058         if ($this->format != 'html') {
2059             $params['fileitemid'] = $this->page->id;
2060             $params['contextid'] = $this->modcontext->id;
2061             $params['component'] = 'mod_wikicode';
2062             $params['filearea'] = 'attachments';
2063         }
2064
2065         $form = new mod_wikicode_edit_form($url, $params);
2066

```

```

2067     $save = false;
2068     $data = false;
2069     if ($data = $form->get_data()) {
2070         if ($this->format == 'html') {
2071             $data = file_postupdate_standard_editor($data, 'newcontent',
                page_wikicode_edit::$attachmentoptions, $this->modcontext, '
                mod_wikicode', 'attachments', $this->subwiki->id);
2072         }
2073
2074         if (isset($this->section)) {
2075             $save = wikicode_save_section($this->page, $this->section, $data->
                newcontent, $USER->id);
2076         } else {
2077             $save = wikicode_save_page($this->page, $data->newcontent, $USER->
                id);
2078         }
2079     }
2080
2081     if ($save && $data) {
2082         if (!empty($CFG->usetags)) {
2083             tag_set('wikicode_pages', $this->page->id, $data->tags);
2084         }
2085
2086         $message = '<p>' . get_string('saving', 'wikicode') . '</p>';
2087
2088         if (!empty($save['sections'])) {
2089             foreach ($save['sections'] as $s) {
2090                 $message .= '<p>' . get_string('repeatedsection', 'wikicode',
                    $s) . '</p>';
2091             }
2092         }
2093
2094         if ($this->versionnumber + 1 != $save['version']) {
2095             $message .= '<p>' . get_string('wrongversionsave', 'wikicode') . '
                </p>';
2096         }
2097
2098         if (isset($errors) && !empty($errors)) {
2099             foreach ($errors as $e) {
2100                 $message .= "<p>" . get_string('filenotuploadederror', '
                    wikicode', $e->get_filename()) . "</p>";
2101             }
2102         }
2103
2104         //deleting old locks
2105         wikicode_delete_locks($this->page->id, $USER->id, $this->section);
2106
2107         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?pageid=' . $this->page
            ->id);
2108     } else {
2109         print_error('savingerror', 'wikicode');
2110     }
2111 }
2112 }

```

```

2113
2114 /**
2115  * Class that models the behavior of wiki's view an old version of a page
2116  *
2117  */
2118 class page_wikicode_viewversion extends page_wikicode {
2119
2120     private $version;
2121
2122     function print_header() {
2123         parent::print_header();
2124         $this->print_pagetitle();
2125     }
2126
2127     function print_content() {
2128         global $PAGE;
2129
2130         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
            'noviewpagepermission', 'wikicode');
2131
2132         $this->print_version_view();
2133     }
2134
2135     function set_url() {
2136         global $PAGE, $CFG;
2137         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/viewversion.php', array('
            pageid' => $this->page->id, 'versionid' => $this->version->id));
2138     }
2139
2140     function set_versionid($versionid) {
2141         $this->version = wikicode_get_version($versionid);
2142     }
2143
2144     protected function create_navbar() {
2145         global $PAGE, $CFG;
2146
2147         parent::create_navbar();
2148         $PAGE->navbar->add(get_string('history', 'wikicode'), $CFG->wwwroot . '/mod
            /wikicode/history.php?pageid' . $this->page->id);
2149         $PAGE->navbar->add(get_string('versionnum', 'wikicode', $this->version->
            version));
2150     }
2151
2152     protected function setup_tabs() {
2153         parent::setup_tabs(array('linkedwhenactive' => 'history', 'activetab' => '
            history', 'inactivetabs' => array('edit')));
2154     }
2155
2156 /**
2157  * Given an old page version, output the version content
2158  *
2159  * @global object $CFG
2160  * @global object $OUTPUT
2161  * @global object $PAGE

```



```

2162     */
2163     private function print_version_view() {
2164         global $CFG, $OUTPUT, $PAGE;
2165         $pageversion = wikicode_get_version($this->version->id);
2166
2167         if ($pageversion) {
2168             $restorelink = new moodle_url('/mod/wikicode/restoreversion.php', array
2169                 ('pageid' => $this->page->id, 'versionid' => $this->version->id));
2170             echo $OUTPUT->heading(get_string('viewversion', 'wikicode',
2171                 $pageversion->version) . '<br />' . html_writer::link($restorelink
2172                     ->out(false), '(' . get_string('restorethis', 'wikicode') . ')',
2173                     array('class' => 'wikicode_restore')) . '&nbsp;', 4);
2174             $userinfo = wikicode_get_user_info($pageversion->userid);
2175             $heading = '<p><strong>' . get_string('modified', 'wikicode') . ':</
2176                 strong>&nbsp;' . userdate($pageversion->timecreated, get_string('
2177                     strftimedatetime', 'langconfig'));
2178             $viewlink = new moodle_url('/user/view.php', array('id' => $userinfo->
2179                 id));
2180             $heading .= '&nbsp;&nbsp;&nbsp;<strong>' . get_string('user') . ':</
2181                 strong>&nbsp;' . html_writer::link($viewlink->out(false), fullname(
2182                     $userinfo));
2183             $heading .= '&nbsp;&nbsp;&nbsp;&rarr;&nbsp;' . $OUTPUT->user_picture(
2184                 wikicode_get_user_info($pageversion->userid), array('popup' => true
2185                     )) . '</p>';
2186             print_container($heading, false, 'mdl-align wikicode_modifieduser
2187                 wikicode_headingtime');
2188             $options = array('swid' => $this->subwiki->id, 'pretty_print' => true,
2189                 'pageid' => $this->page->id);
2190
2191             $pageversion->content = file_rewrite_pluginfile_urls(
2192                 wikicode_remove_tags($pageversion->content), 'pluginfile.php',
2193                 $this->modcontext->id, 'mod_wikicode', 'attachments', $this->
2194                 subwiki->id);
2195             $content = format_text($pageversion->content, FORMAT_PLAIN, array('
2196                 overflowdiv'=>true));
2197
2198             echo $OUTPUT->box($content, 'generalbox wikicode_contentbox');
2199
2200         } else {
2201             print_error('versionerror', 'wikicode');
2202         }
2203     }
2204 }
2205
2206 class page_wikicode_confirmrestore extends page_wikicode_save {
2207
2208     private $version;
2209
2210     function set_url() {
2211         global $PAGE, $CFG;
2212         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/viewversion.php', array('
2213             pageid' => $this->page->id, 'versionid' => $this->version->id));
2214     }
2215 }

```

```

2198     function print_content() {
2199         global $CFG, $PAGE;
2200
2201         require_capability('mod/wikicode:managewiki', $this->modcontext, NULL, true
2202             , 'nomanagewikipermission', 'wikicode');
2203
2204         $version = wikicode_get_version($this->version->id);
2205         if (wikicode_restore_page($this->page, $version->content, $version->userid)
2206             ) {
2207             redirect($CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $this->page
2208                 ->id, get_string('restoring', 'wikicode', $version->version), 3);
2209         } else {
2210             print_error('restoreerror', 'wikicode', $version->version);
2211         }
2212     }
2213
2214     function set_versionid($versionid) {
2215         $this->version = wikicode_get_version($versionid);
2216     }
2217 }
2218
2219 class page_wikicode_prettyview extends page_wikicode {
2220
2221     function print_header() {
2222         global $CFG, $PAGE, $OUTPUT;
2223         $PAGE->set_pagelayout('embedded');
2224         echo $OUTPUT->header();
2225
2226         echo '<h1 id="wiki_printable_title">' . format_string($this->title) . '</h1
2227             >';
2228     }
2229
2230     function print_content() {
2231         global $PAGE;
2232
2233         require_capability('mod/wikicode:viewpage', $this->modcontext, NULL, true,
2234             'noviewpagepermission', 'wikicode');
2235
2236         $this->print_pretty_view();
2237     }
2238
2239     function set_url() {
2240         global $PAGE, $CFG;
2241
2242         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/prettyview.php', array('
2243             pageid' => $this->page->id));
2244     }
2245
2246     private function print_pretty_view() {
2247         $version = wikicode_get_current_version($this->page->id);
2248
2249         $content = wikicode_parse_content($version->contentformat, $version->
2250             content, array('printable' => true, 'swid' => $this->subwiki->id, '
2251             pageid' => $this->page->id, 'pretty_print' => true));

```

```

2244         echo '<div id="wiki_printable_content">';
2245         echo format_text($content['parsed_text'], FORMAT_HTML);
2246         echo '</div>';
2247     }
2248 }
2249
2250
2251 class page_wikicode_handlecomments extends page_wikicode {
2252     private $action;
2253     private $content;
2254     private $commentid;
2255     private $format;
2256
2257     function print_header() {
2258         $this->set_url();
2259     }
2260
2261     public function print_content() {
2262         global $CFG, $PAGE, $USER;
2263
2264         if ($this->action == 'add') {
2265             if (has_capability('mod/wikicode:editcomment', $this->modcontext)) {
2266                 $this->add_comment($this->content, $this->commentid);
2267             }
2268         } else if ($this->action == 'edit') {
2269             $comment = wikicode_get_comment($this->commentid);
2270             $edit = has_capability('mod/wikicode:editcomment', $this->modcontext);
2271             $owner = ($comment->userid == $USER->id);
2272             if ($owner && $edit) {
2273                 $this->add_comment($this->content, $this->commentid);
2274             }
2275         } else if ($this->action == 'delete') {
2276             $comment = wikicode_get_comment($this->commentid);
2277             $manage = has_capability('mod/wikicode:managecomment', $this->
                modcontext);
2278             $owner = ($comment->userid == $USER->id);
2279             if ($owner || $manage) {
2280                 $this->delete_comment($this->commentid);
2281                 redirect($CFG->wwwroot . '/mod/wikicode/comments.php?pageid=' .
                    $this->page->id, get_string('deletecomment', 'wikicode'), 2);
2282             }
2283         }
2284     }
2285 }
2286
2287     public function set_url() {
2288         global $PAGE, $CFG;
2289         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/comments.php', array('pageid'
            => $this->page->id));
2290     }
2291
2292     public function set_action($action, $commentid, $content) {
2293         $this->action = $action;
2294         $this->commentid = $commentid;

```

```

2295         $this->content = $content;
2296
2297         $version = wikicode_get_current_version($this->page->id);
2298         $format = $version->contentformat;
2299
2300         $this->format = $format;
2301     }
2302
2303     private function add_comment($content, $idcomment) {
2304         global $CFG, $PAGE;
2305         require_once($CFG->dirroot . "/mod/wikicode/locallib.php");
2306
2307         $pageid = $this->page->id;
2308
2309         wikicode_add_comment($this->modcontext, $pageid, $content, $this->format);
2310
2311         if (!$idcomment) {
2312             redirect($CFG->wwwroot . '/mod/wikicode/comments.php?pageid=' . $pageid
2313                 , get_string('createcomment', 'wikicode'), 2);
2314         } else {
2315             $this->delete_comment($idcomment);
2316             redirect($CFG->wwwroot . '/mod/wikicode/comments.php?pageid=' . $pageid
2317                 , get_string('editingcomment', 'wikicode'), 2);
2318         }
2319     }
2320
2321     private function delete_comment($commentid) {
2322         global $CFG, $PAGE;
2323
2324         $pageid = $this->page->id;
2325
2326         wikicode_delete_comment($commentid, $this->modcontext, $pageid);
2327     }
2328
2329     }
2330
2331     class page_wikicode_lock extends page_wikicode_edit {
2332
2333         public function print_header() {
2334             $this->set_url();
2335         }
2336
2337         protected function set_url() {
2338             global $PAGE, $CFG;
2339
2340             $params = array('pageid' => $this->page->id);
2341
2342             if ($this->section) {
2343                 $params['section'] = $this->section;
2344             }
2345
2346             $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/lock.php', $params);
2347         }
2348     }

```

```
2347     protected function set_session_url() {
2348     }
2349
2350     public function print_content() {
2351         global $USER, $PAGE;
2352
2353         require_capability('mod/wikicode:editpage', $this->modcontext, NULL, true,
            'noeditpermission', 'wikicode');
2354
2355         wikicode_set_lock($this->page->id, $USER->id, $this->section);
2356     }
2357
2358     public function print_footer() {
2359     }
2360 }
2361
2362 class page_wikicode_overridelocks extends page_wikicode_edit {
2363     function print_header() {
2364         $this->set_url();
2365     }
2366
2367     function print_content() {
2368         global $CFG, $PAGE;
2369
2370         require_capability('mod/wikicode:overridelock', $this->modcontext, NULL,
            true, 'nooverridelockpermission', 'wikicode');
2371
2372         wikicode_delete_locks($this->page->id, null, $this->section, true, true);
2373
2374         $args = "pageid=" . $this->page->id;
2375
2376         if (!empty($this->section)) {
2377             $args .= "&section=" . urlencode($this->section);
2378         }
2379
2380         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?' . $args, get_string('
            overridinglocks', 'wikicode'), 2);
2381     }
2382
2383     function set_url() {
2384         global $PAGE, $CFG;
2385
2386         $params = array('pageid' => $this->page->id);
2387
2388         if (!empty($this->section)) {
2389             $params['section'] = $this->section;
2390         }
2391
2392         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/overridelocks.php', $params);
2393     }
2394
2395     protected function set_session_url() {
2396     }
2397 }
```

```

2398     private function print_overridelocks() {
2399         global $CFG;
2400
2401         wikicode_delete_locks($this->page->id, null, $this->section, true, true);
2402
2403         $args = "pageid=" . $this->page->id;
2404
2405         if (!empty($this->section)) {
2406             $args .= "&section=" . urlencode($this->section);
2407         }
2408
2409         redirect($CFG->wwwroot . '/mod/wikicode/edit.php?' . $args, get_string('
overridinglocks', 'wikicode'), 2);
2410     }
2411
2412 }
2413
2414 /**
2415  * This class will let user to delete wiki pages and page versions
2416  *
2417  */
2418 class page_wikicode_admin extends page_wikicode {
2419
2420     public $view, $action;
2421     public $listorphan = false;
2422
2423     /**
2424      * Constructor
2425      *
2426      * @global object $PAGE
2427      * @param mixed $wiki instance of wiki
2428      * @param mixed $subwiki instance of subwiki
2429      * @param stdClass $cm course module
2430      */
2431     function __construct($wiki, $subwiki, $cm) {
2432         global $PAGE;
2433         parent::__construct($wiki, $subwiki, $cm);
2434         $PAGE->requires->js_init_call('M.mod_wikicode.deleteversion', null, true);
2435     }
2436
2437     /**
2438      * Prints header for wiki page
2439      */
2440     function print_header() {
2441         parent::print_header();
2442         $this->print_pagetitle();
2443     }
2444
2445     /**
2446      * This function will display administration view to users with managewiki
2447      * capability
2448      */
2449     function print_content() {
2450         //make sure anyone trying to access this page has managewiki capabilities

```

```

2450     require_capability('mod/wikicode:managewiki', $this->modcontext, NULL, true
2451         , 'noviewpagepermission', 'wikicode');
2452
2453     //update wiki cache if timedout
2454     $page = $this->page;
2455     if ($page->timerendered + wikicode_REFRESH_CACHE_TIME < time()) {
2456         $fresh = wikicode_refresh_cachedcontent($page);
2457         $page = $fresh['page'];
2458     }
2459
2460     //dispaly admin menu
2461     echo $this->wikioutput->menu_admin($this->page->id, $this->view);
2462
2463     //Display appropriate admin view
2464     switch ($this->view) {
2465         case 1: //delete page view
2466             $this->print_delete_content($this->listorphan);
2467             break;
2468         case 2: //delete version view
2469             $this->print_delete_version();
2470             break;
2471         default: //default is delete view
2472             $this->print_delete_content($this->listorphan);
2473             break;
2474     }
2475
2476     /**
2477      * Sets admin view option
2478      *
2479      * @param int $view page view id
2480      * @param bool $listorphan is only valid for view 1.
2481      */
2482     public function set_view($view, $listorphan = true) {
2483         $this->view = $view;
2484         $this->listorphan = $listorphan;
2485     }
2486
2487     /**
2488      * Sets page url
2489      *
2490      * @global object $PAGE
2491      * @global object $CFG
2492      */
2493     function set_url() {
2494         global $PAGE, $CFG;
2495         $PAGE->set_url($CFG->wwwroot . '/mod/wikicode/admin.php', array('pageid' =>
2496             $this->page->id));
2497     }
2498
2499     /**
2500      * sets navigation bar for the page
2501      *
2502      * @global object $PAGE

```

```

2502     */
2503     protected function create_navbar() {
2504         global $PAGE;
2505
2506         parent::create_navbar();
2507         $PAGE->navbar->add(get_string('admin', 'wikicode'));
2508     }
2509
2510     /**
2511      * Show wiki page delete options
2512      *
2513      * @param bool $showorphan
2514      */
2515     protected function print_delete_content($showorphan = true) {
2516         $contents = array();
2517         $table = new html_table();
2518         $table->head = array('', 'Page name');
2519         $table->attributes['class'] = 'generaltable mdl-align';
2520         $swid = $this->subwiki->id;
2521         if ($showorphan) {
2522             if ($orphanedpages = wikicode_get_orphaned_pages($swid)) {
2523                 $this->add_page_delete_options($orphanedpages, $swid, $table);
2524             } else {
2525                 $table->data[] = array('', get_string('noorphanedpages', 'wikicode'));
2526             }
2527         } else {
2528             if ($pages = wikicode_get_page_list($swid)) {
2529                 $this->add_page_delete_options($pages, $swid, $table);
2530             } else {
2531                 $table->data[] = array('', get_string('nopages', 'wikicode'));
2532             }
2533         }
2534
2535         ///Print the form
2536         echo html_writer::start_tag('form', array(
2537             'action' => new moodle_url('/mod/
2538                 wikicode/admin.php'),
2539             'method' => 'post'));
2540         echo html_writer::tag('div', html_writer::empty_tag('input', array(
2541             'type' =>
2542                 ,
2543                 hidden
2544                 ',
2545             'name' =>
2546                 ,
2547                 pageid
2548                 ',
2549             'value' =>
2550                 $this
2551                 ->page
2552                 ->id))
2553         ));

```



```

2544     echo html_writer::empty_tag('input', array('type' => 'hidden', 'name' => '
        option', 'value' => $this->view));
2545     echo html_writer::table($table);
2546     echo html_writer::start_tag('div', array('class' => 'mdl-align'));
2547     if (!$showorphan) {
2548         echo html_writer::empty_tag('input', array(
2549             'type'      => 'submit',
2550             'class'     => 'wikicode-form-
                button',
2551             'value'     => get_string('
                listorphan', 'wikicode'),
                'sesskey' => sesskey()));
2552     } else {
2553         echo html_writer::empty_tag('input', array('type'=>'hidden', 'name'=>'
            listall', 'value'=>'1'));
2554         echo html_writer::empty_tag('input', array(
2555             'type'      => 'submit',
2556             'class'     => 'wikicode-form-
                button',
2557             'value'     => get_string('
                listall', 'wikicode'),
                'sesskey' => sesskey()));
2558     }
2559     echo html_writer::end_tag('div');
2560     echo html_writer::end_tag('form');
2561 }
2562
2563 /**
2564  * helper function for print_delete_content. This will add data to the table.
2565  *
2566  * @global object $OUTPUT
2567  * @param array $pages objects of wiki pages in subwiki
2568  * @param int $swid id of subwiki
2569  * @param object $table reference to the table in which data needs to be added
2570  */
2571 protected function add_page_delete_options($pages, $swid, &$table) {
2572     global $OUTPUT;
2573     foreach ($pages as $page) {
2574         $link = wikicode_parser_link($page->title, array('swid' => $swid));
2575         $class = ($link['new']) ? 'class="wiki_newentry"' : '';
2576         $pagelink = '<a href="' . $link['url'] . '"' . $class . '>' .
            format_string($link['content']) . '</a>';
2577         $urledit = new moodle_url('/mod/wikicode/edit.php', array('pageid' =>
            $page->id, 'sesskey' => sesskey()));
2578         $urldelete = new moodle_url('/mod/wikicode/admin.php', array(
2579             'pageid' =>
                $this->page
                ->id,
2580             'delete' =>
                $page->id,
2581             'option' =>
                $this->view,
2582             'listall' => !
                $this->

```

```

listorphan?'
1': '',
'sesskey' =>
    sesskey()));
2585
2586
2587     $editlinks = $OUTPUT->action_icon($urledit, new pix_icon('t/edit',
        get_string('edit')));
2588     $editlinks .= $OUTPUT->action_icon($urldelete, new pix_icon('t/delete',
        get_string('delete')));
2589     $table->data[] = array($editlinks, $pagelink);
2590 }
2591 }
2592
2593 /**
2594  * Prints lists of versions which can be deleted
2595  *
2596  * @global object $OUTPUT
2597  */
2598 private function print_delete_version() {
2599     global $OUTPUT;
2600     $pageid = $this->page->id;
2601
2602     // versioncount is the latest version
2603     $versioncount = wikicode_count_wikicode_page_versions($pageid) - 1;
2604     $versions = wikicode_get_wikicode_page_versions($pageid, 0, $versioncount);
2605
2606     // We don't want version 0 to be displayed
2607     // version 0 is blank page
2608     if (end($versions)->version == 0) {
2609         array_pop($versions);
2610     }
2611
2612     $contents = array();
2613     $version0page = wikicode_get_wikicode_page_version($this->page->id, 0);
2614     $creator = wikicode_get_user_info($version0page->userid);
2615     $a = new stdClass();
2616     $a->date = userdate($this->page->timecreated, get_string('
        strftimedaydatetime', 'langconfig'));
2617     $a->username = fullname($creator);
2618     echo $OUTPUT->heading(get_string('createddate', 'wikicode', $a), 4, '
        wikicode_headingtime');
2619     if ($versioncount > 0) {
2620         /// If there is only one version, we don't need radios nor forms
2621         if (count($versions) == 1) {
2622             $row = array_shift($versions);
2623             $username = wikicode_get_user_info($row->userid);
2624             $picture = $OUTPUT->user_picture($username);
2625             $date = userdate($row->timecreated, get_string('strftimedate', '
                langconfig'));
2626             $time = userdate($row->timecreated, get_string('strftimetype', '
                langconfig'));
2627             $versionid = wikicode_get_version($row->id);
2628             $versionlink = new moodle_url('/mod/wikicode/viewversion.php',
                array('pageid' => $pageid, 'versionid' => $versionid->id));

```

```

2629         $userlink = new moodle_url('/user/view.php', array('id' =>
2630             $username->id));
2631         $picturelink = $picture . html_writer::link($userlink->out(false),
2632             fullname($username));
2633         $historydate = $OUTPUT->container($date, 'wikicode_histdate');
2634         $contents[] = array('', html_writer::link($versionlink->out(false),
2635             $row->version), $picturelink, $time, $historydate);
2636
2637         //Show current version
2638         $table = new html_table();
2639         $table->head = array('', get_string('version'), get_string('user'),
2640             get_string('modified'), '');
2641         $table->data = $contents;
2642         $table->attributes['class'] = 'mdl-align';
2643
2644         echo html_writer::table($table);
2645     } else {
2646         $lastdate = '';
2647         $rowclass = array();
2648
2649         foreach ($versions as $version) {
2650             $user = wikicode_get_user_info($version->userid);
2651             $picture = $OUTPUT->user_picture($user, array('popup' => true));
2652             ;
2653             $date = userdate($version->timecreated, get_string('
2654                 strftimedate'));
2655             if ($date == $lastdate) {
2656                 $date = '';
2657                 $rowclass[] = '';
2658             } else {
2659                 $lastdate = $date;
2660                 $rowclass[] = 'wikicode_histnewdate';
2661             }
2662
2663             $time = userdate($version->timecreated, get_string('
2664                 strftimetype', 'langconfig'));
2665             $versionid = wikicode_get_version($version->id);
2666             if ($versionid) {
2667                 $url = new moodle_url('/mod/wikicode/viewversion.php',
2668                     array('pageid' => $pageid, 'versionid' => $versionid->
2669                         id));
2670                 $viewlink = html_writer::link($url->out(false), $version->
2671                     version);
2672             } else {
2673                 $viewlink = $version->version;
2674             }
2675
2676             $userlink = new moodle_url('/user/view.php', array('id' =>
2677                 $version->userid));
2678             $picturelink = $picture . html_writer::link($userlink->out(
2679                 false), fullname($user));
2680             $historydate = $OUTPUT->container($date, 'wikicode_histdate');

```

```

2669         $radiofromelement = $this->choose_from_radio(array($version->
                version => null), 'fromversion', 'M.mod_wikicode.
                deleteversion()', $versioncount, true);
2670         $radiotoelement = $this->choose_from_radio(array($version->
                version => null), 'toversion', 'M.mod_wikicode.
                deleteversion()', $versioncount, true);
2671         $contents[] = array( $radiofromelement . $radiotoelement,
                $viewlink, $picturelink, $time, $historydate);
2672     }
2673
2674     $table = new html_table();
2675     $table->head = array(get_string('deleteversions', 'wikicode'),
        get_string('version'), get_string('user'), get_string('modified
        '), '');
2676     $table->data = $contents;
2677     $table->attributes['class'] = 'generaltable mdl-align';
2678     $table->rowclasses = $rowclass;
2679
2680     ///Print the form
2681     echo html_writer::start_tag('form', array('action'=>new moodle_url(
        '/mod/wikicode/admin.php'), 'method' => 'post'));
2682     echo html_writer::tag('div', html_writer::empty_tag('input', array(
        'type' => 'hidden', 'name' => 'pageid', 'value' => $pageid)));
2683     echo html_writer::empty_tag('input', array('type' => 'hidden', '
        name' => 'option', 'value' => $this->view));
2684     echo html_writer::empty_tag('input', array('type' => 'hidden', '
        name' => 'sesskey', 'value' => sesskey()));
2685     echo html_writer::table($table);
2686     echo html_writer::start_tag('div', array('class' => 'mdl-align'));
2687     echo html_writer::empty_tag('input', array('type' => 'submit', '
        class' => 'wikicode_form-button', 'value' => get_string('
        deleteversions', 'wikicode')));
2688     echo html_writer::end_tag('div');
2689     echo html_writer::end_tag('form');
2690 }
2691 } else {
2692     print_string('nohistory', 'wikicode');
2693 }
2694 }
2695
2696 /**
2697  * Given an array of values, creates a group of radio buttons to be part of a
        form
2698  * helper function for print_delete_version
2699  *
2700  * @param array $options An array of value-label pairs for the radio group (
        values as keys).
2701  * @param string $name Name of the radiogroup (unique in the form).
2702  * @param string $onclick Function to be executed when the radios are clicked.
2703  * @param string $checked The value that is already checked.
2704  * @param bool $return If true, return the HTML as a string, otherwise
        print it.
2705  *

```

```

2706     * @return mixed If $return is false, returns nothing, otherwise returns a
2707     string of HTML.
2708     */
2709     private function choose_from_radio($options, $name, $onclick = '', $checked = '
2710     ', $return = false) {
2711
2712         static $idcounter = 0;
2713
2714         if (!$name) {
2715             $name = 'unnamed';
2716         }
2717
2718         $output = '<span class="radiogroup ' . $name . "\">\n";
2719
2720         if (!empty($options)) {
2721             $currentradio = 0;
2722             foreach ($options as $value => $label) {
2723                 $htmlid = 'auto-rb' . sprintf('%04d', ++$idcounter);
2724                 $output .= ' <span class="radioelement ' . $name . ' rb' .
2725                     $currentradio . "\">";
2726                 $output .= ' <input name="' . $name . ' " id="' . $htmlid . ' " type="
2727                     radio" value="' . $value . '"';
2728                 if ($value == $checked) {
2729                     $output .= ' checked="checked"';
2730                 }
2731                 if ($onclick) {
2732                     $output .= ' onclick="' . $onclick . '"';
2733                 }
2734                 if ($label == '') {
2735                     $output .= ' /> <label for="' . $htmlid . '">' . $value . ' </
2736                         label></span>' . "\n";
2737                 } else {
2738                     $output .= ' /> <label for="' . $htmlid . '">' . $label . ' </
2739                         label></span>' . "\n";
2740                 }
2741                 $currentradio = ($currentradio + 1) % 2;
2742             }
2743         }
2744
2745         $output .= '</span>' . "\n";
2746
2747         if ($return) {
2748             return $output;
2749         } else {
2750             echo $output;
2751         }
2752     }
2753 }

```

3.1.18. version.php

```

1 <?php
2
3 defined('MOODLE_INTERNAL') || die();
4
5 $module->version      = 2012022100;          // The current module version (Date:
        YYYYMMDDXX)
6 $module->requires     = 2011112900;          // Requires this Moodle version
7 $module->component    = 'mod_wikicode';      // Full name of the plugin (used for
        diagnostics)
8 $module->cron          = 0;

```

3.1.19. view.php

```

1 <?php
2
3 require_once('.../config.php');
4 require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5 require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6 require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8 $id = optional_param('id', 0, PARAM_INT); // Course Module ID
9
10 $pageid = optional_param('pageid', 0, PARAM_INT); // Page ID
11
12 $wid = optional_param('wid', 0, PARAM_INT); // Wiki ID
13 $title = optional_param('title', '', PARAM_TEXT); // Page Title
14 $currentgroup = optional_param('group', 0, PARAM_INT); // Group ID
15 $userid = optional_param('uid', 0, PARAM_INT); // User ID
16 $groupanduser = optional_param('groupanduser', 0, PARAM_TEXT);
17
18 $edit = optional_param('edit', -1, PARAM_BOOL);
19
20 $action = optional_param('action', '', PARAM_ALPHA);
21 $swid = optional_param('swid', 0, PARAM_INT); // Subwiki ID
22
23 /*
24  * Case 0:
25  *
26  * User that comes from a course. First wiki page must be shown
27  *
28  * URL params: id -> course module id
29  *
30  */
31 if ($id) {
32     // Cheacking course module instance
33     if (!$cm = get_coursemodule_from_id('wikicode', $id)) {
34         print_error('invalidcoursemodule');
35     }
36
37     // Checking course instance

```

```

38     $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST
39         );
40
41     // Checking wiki instance
42     if (!$wiki = wikicode_get_wiki($cm->instance)) {
43         print_error('incorrectwikiid', 'wikicode');
44     }
45     $PAGE->set_cm($cm);
46
47     // Getting the subwiki corresponding to that wiki, group and user.
48     //
49     // Also setting the page if it exists or getting the first page title form
50     // that wiki
51
52     // Getting current group id
53     $currentgroup = groups_get_activity_group($cm);
54     $currentgroup = !empty($currentgroup) ? $currentgroup : 0;
55     // Getting current user id
56     if ($wiki->wikimode == 'individual') {
57         $userid = $USER->id;
58     } else {
59         $userid = 0;
60     }
61
62     // Getting subwiki. If it does not exists, redirecting to create page
63     if (!$subwiki = wikicode_get_subwiki_by_group($wiki->id, $currentgroup, $userid
64         )) {
65         $params = array('wid' => $wiki->id, 'gid' => $currentgroup, 'uid' =>
66             $userid, 'title' => $wiki->firstpagetitle);
67         $url = new moodle_url('/mod/wikicode/create.php', $params);
68         redirect($url);
69     }
70
71     // Getting first page. If it does not exists, redirecting to create page
72     if (!$page = wikicode_get_first_page($subwiki->id, $wiki)) {
73         $params = array('swid'=>$subwiki->id, 'title'=>$wiki->firstpagetitle);
74         $url = new moodle_url('/mod/wikicode/create.php', $params);
75         redirect($url);
76     }
77
78     /*
79     * Case 1:
80     *
81     * A user wants to see a page.
82     *
83     * URL Params: pageid -> page id
84     */
85 } elseif ($pageid) {
86
87     // Checking page instance
88     if (!$page = wikicode_get_page($pageid)) {
89         print_error('incorrectpageid', 'wikicode');
90     }

```

```

89
90 // Checking subwiki
91 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
92     print_error('incorrectsubwikiid', 'wikicode');
93 }
94
95 // Checking wiki instance of that subwiki
96 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
97     print_error('incorrectwikiid', 'wikicode');
98 }
99
100 // Checking course module instance
101 if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
102     print_error('invalidcoursemodule');
103 }
104
105 // Checking course instance
106 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
107
108 /*
109  * Case 2:
110  *
111  * Trying to read a page from another group or user
112  *
113  * Page can exists or not.
114  * * If it exists, page must be shown
115  * * If it does not exists, system must ask for its creation
116  *
117  * URL params: wid -> subwiki id (required)
118  *               title -> a page title (required)
119  *               group -> group id (optional)
120  *               uid -> user id (optional)
121  *               groupanduser -> (optional)
122  */
123 } elseif ($wid && $title) {
124
125     // Setting wiki instance
126     if (!$wiki = wikicode_get_wiki($wid)) {
127         print_error('incorrectwikiid', 'wikicode');
128     }
129
130     // Checking course module
131     if (!$cm = get_coursemodule_from_instance("wikicode", $wiki->id)) {
132         print_error('invalidcoursemodule');
133     }
134
135     // Checking course instance
136     if (!$course = $DB->get_record("course", array("id" => $cm->course))) {
137         print_error('coursemisconf');
138     }
139
140     $groupmode = groups_get_activity_groupmode($cm);
141     if (empty($currentgroup)) {

```



```

142     $currentgroup = groups_get_activity_group($cm);
143     $currentgroup = !empty($currentgroup) ? $currentgroup : 0;
144 }
145
146 if ($wiki->wikimode == 'individual' && ($groupmode == SEPARATEGROUPS ||
147     $groupmode == VISIBLEGROUPS)) {
148     list($gid, $uid) = explode('-', $groupanduser);
149 } else if ($wiki->wikimode == 'individual') {
150     $gid = 0;
151     $uid = $userid;
152 } else if ($groupmode == NOGROUPS) {
153     $gid = 0;
154     $uid = 0;
155 } else {
156     $gid = $currentgroup;
157     $uid = 0;
158 }
159
160 // Getting subwiki instance. If it does not exists, redirect to create page
161 if (!$subwiki = wikicode_get_subwiki_by_group($wiki->id, $gid, $uid)) {
162     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
163
164     $modeanduser = $wiki->wikimode == 'individual' && $uid != $USER->id;
165     $modeandgroupmember = $wiki->wikimode == 'collaborative' && !
166         groups_is_member($gid);
167
168     $manage = has_capability('mod/wikicode:managewiki', $context);
169     $edit = has_capability('mod/wikicode:editpage', $context);
170     $manageandedit = $manage && $edit;
171
172     if ($groupmode == VISIBLEGROUPS and ($modeanduser || $modeandgroupmember)
173         and !$manageandedit) {
174         print_error('nocontent', 'wikicode');
175     }
176
177     $params = array('wid' => $wiki->id, 'gid' => $gid, 'uid' => $uid, 'title'
178         => $title);
179     $url = new moodle_url('/mod/wikicode/create.php', $params);
180     redirect($url);
181 }
182
183 // Checking is there is a page with this title. If it does not exists, redirect
184 // to first page
185 if (!$page = wikicode_get_page_by_title($subwiki->id, $title)) {
186     $params = array('wid' => $wiki->id, 'gid' => $gid, 'uid' => $uid, 'title'
187         => $wiki->firstpagetitle);
188     $url = new moodle_url('/mod/wikicode/view.php', $params);
189     redirect($url);
190 }
191
192 //      /*
193 //      * Case 3:
194 //      *
195 //      * A user switches group when is 'reading' a non-existent page.

```

```

190 //      *
191 //      * URL Params: wid -> wiki id
192 //      *          title -> page title
193 //      *          currentgroup -> group id
194 //      *
195 //      */
196 //} elseif ($wid && $title && $currentgroup) {
197 //
198 //    // Checking wiki instance
199 //    if (!$wiki = wikicode_get_wiki($wid)) {
200 //        print_error('incorrectwikiid', 'wiki');
201 //    }
202 //
203 //    // Checking subwiki instance
204 //    // @TODO: Fix call to wikicode_get_subwiki_by_group
205 //    if (!$currentgroup = groups_get_activity_group($cm)){
206 //        $currentgroup = 0;
207 //    }
208 //    if (!$subwiki = wikicode_get_subwiki_by_group($wid, $currentgroup)) {
209 //        print_error('incorrectsubwikiid', 'wiki');
210 //    }
211 //
212 //    // Checking page instance
213 //    if ($page = wikicode_get_page_by_title($subwiki->id, $title)) {
214 //        unset($title);
215 //    }
216 //
217 //    // Checking course instance
218 //    $course = $DB->get_record('course', array('id'=>$cm->course), '*',
219 //        MUST_EXIST);
220 //
221 //    // Checking course module instance
222 //    if (!$cm = get_coursemodule_from_instance("wiki", $wiki->id, $course->id)
223 //    ) {
224 //        print_error('invalidcoursemodule');
225 //    }
226 //
227 //    $subwiki = null;
228 //    $page = null;
229 //
230 //    /*
231 //    * Case 4:
232 //    *
233 //    * Error. No more options
234 //    */
235 } else {
236     print_error('incorrectparameters');
237 }
238
239 require_login($course, true, $cm);
240
241 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
242 require_capability('mod/wikicode:viewpage', $context);
243
244 add_to_log($course->id, 'wikicode', 'view', 'view.php?id=' . $cm->id, $wiki->id);

```

```

242
243 // Update 'viewed' state if required by completion system
244 require_once($CFG->libdir . '/completionlib.php');
245 $completion = new completion_info($course);
246 $completion->set_module_viewed($cm);
247
248 if (($edit != - 1) and $PAGE->user_allowed_editing()) {
249     $USER->editing = $edit;
250 }
251
252 $wikipage = new page_wikicode_view($wiki, $subwiki, $cm);
253
254 /*The following piece of code is used in order
255  * to perform set_url correctly. It is necessary in order
256  * to make page_wikicode_view class know that this page
257  * has been called via its id.
258  */
259 if ($id) {
260     $wikipage->set_coursemodule($id);
261 }
262
263 $wikipage->set_gid($currentgroup);
264 $wikipage->set_page($page);
265
266 $wikipage->print_header();
267 $wikipage->print_content();
268
269 $wikipage->print_footer();

```

3.1.20. viewversion.php

```

1 <?php
2
3 require_once('.../config.php');
4
5 require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6 require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7 require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9 $pageid = required_param('pageid', PARAM_TEXT);
10 $versionid = required_param('versionid', PARAM_INT);
11
12 if (!$page = wikicode_get_page($pageid)) {
13     print_error('incorrectpageid', 'wikicode');
14 }
15
16 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
17     print_error('incorrectsubwikiid', 'wikicode');
18 }
19
20 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {

```

```

21     print_error('incorrectwikiid', 'wikicode');
22 }
23
24 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
25     print_error('invalidcoursemodule');
26 }
27
28 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
29
30 require_login($course->id, true, $cm);
31 add_to_log($course->id, "wikicode", "history", "history.php?id=$cm->id", "$wiki->id
    ");
32
33 /// Print the page header
34 $wikipage = new page_wikicode_viewversion($wiki, $subwiki, $cm);
35
36 $wikipage->set_page($page);
37 $wikipage->set_versionid($versionid);
38
39 $wikipage->print_header();
40 $wikipage->print_content();
41
42 $wikipage->print_footer();

```

3.2. Back-End

3.2.1. instancecomments.php

```

1  <?php
2
3  require_once('.../config.php');
4  require_once($CFG->dirroot . "/mod/wikicode/pagelib.php");
5  require_once($CFG->dirroot . "/mod/wikicode/locallib.php");
6  require_once($CFG->dirroot . "/mod/wikicode/comments_form.php");
7
8  $pageid = required_param('pageid', PARAM_TEXT);
9  $action = optional_param('action', '', PARAM_ACTION);
10 $id = optional_param('id', 0, PARAM_INT);
11 $commentid = optional_param('commentid', 0, PARAM_INT);
12 $newcontent = optional_param('newcontent', '', PARAM_CLEANHTML);
13 $confirm = optional_param('confirm', 0, PARAM_BOOL);
14
15 if (!$page = wikicode_get_page($pageid)) {
16     print_error('incorrectpageid', 'wikicode');
17 }
18
19 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
20     print_error('incorrectsubwikiid', 'wikicode');
21 }

```

```

22 if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
23     print_error('invalidcoursemodule');
24 }
25 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
26 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
27     print_error('incorrectwikiid', 'wikicode');
28 }
29 require_login($course->id, true, $cm);
30
31 if ($action == 'add' || $action == 'edit') {
32     //just check sesskey
33     if (!confirm_sesskey()) {
34         print_error(get_string('invalidsesskey', 'wikicode'));
35     }
36     $comm = new page_wikicode_handlecomments($wiki, $subwiki, $cm);
37     $comm->set_page($page);
38 } else {
39     if (!$confirm) {
40         $comm = new page_wikicode_deletcomment($wiki, $subwiki, $cm);
41         $comm->set_page($page);
42         $comm->set_url();
43     } else {
44         $comm = new page_wikicode_handlecomments($wiki, $subwiki, $cm);
45         $comm->set_page($page);
46         if (!confirm_sesskey()) {
47             print_error(get_string('invalidsesskey', 'wikicode'));
48         }
49     }
50 }
51
52 if ($action == 'delete') {
53     $comm->set_action($action, $commentid, 0);
54 } else {
55     if (empty($newcontent)) {
56         $form = new mod_wikicode_comments_form();
57         $newcomment = $form->get_data();
58         $content = $newcomment->entrycomment_editor['text'];
59     } else {
60         $content = $newcontent;
61     }
62
63     if ($action == 'edit') {
64         $comm->set_action($action, $id, $content);
65     } else {
66         $action = 'add';
67         $comm->set_action($action, 0, $content);
68     }
69 }
70
71
72 $comm->print_header();
73 $comm->print_content();
74 $comm->print_footer();

```

3.2.2. lib.php

```

1  <?php
2
3  /**
4   * Given an object containing all the necessary data,
5   * (defined by the form in mod.html) this function
6   * will create a new instance and return the id number
7   * of the new instance.
8   *
9   * @param object $instance An object from the form in mod.html
10  * @return int The id of the newly inserted wiki record
11  */
12  function wikicode_add_instance($wiki) {
13      global $DB;
14
15      $wiki->timemodified = time();
16      # May have to add extra stuff in here #
17      if (empty($wiki->forceformat)) {
18          $wiki->forceformat = 0;
19      }
20      return $DB->insert_record('wikicode', $wiki);
21  }
22
23  /**
24   * Given an object containing all the necessary data,
25   * (defined by the form in mod.html) this function
26   * will update an existing instance with new data.
27   *
28   * @param object $instance An object from the form in mod.html
29   * @return boolean Success/Fail
30  */
31  function wikicode_update_instance($wiki) {
32      global $DB;
33
34      $wiki->timemodified = time();
35      $wiki->id = $wiki->instance;
36      if (empty($wiki->forceformat)) {
37          $wiki->forceformat = 0;
38      }
39
40      # May have to add extra stuff in here #
41
42      return $DB->update_record('wikicode', $wiki);
43  }
44
45  /**
46   * Given an ID of an instance of this module,
47   * this function will permanently delete the instance
48   * and any data that depends on it.
49   *
50   * @param int $id Id of the module instance
51   * @return boolean Success/Failure

```

```

52  */
53  function wikicode_delete_instance($id) {
54      global $DB;
55
56      if (!$wiki = $DB->get_record('wikicode', array('id' => $id))) {
57          return false;
58      }
59
60      $result = true;
61
62      # Get subwiki information #
63      $subwikis = $DB->get_records('wikicode_subwikis', array('wikiid' => $wiki->id))
64          ;
65
66      foreach ($subwikis as $subwiki) {
67          # Get existing links, and delete them #
68          if (!$DB->delete_records('wikicode_links', array('subwikiid' => $subwiki->
69              id), IGNORE_MISSING)) {
70              $result = false;
71          }
72
73          # Get existing pages #
74          if ($pages = $DB->get_records('wikicode_pages', array('subwikiid' =>
75              $subwiki->id))) {
76              foreach ($pages as $page) {
77                  # Get locks, and delete them #
78                  if (!$DB->delete_records('wikicode_locks', array('pageid' => $page
79                      ->id), IGNORE_MISSING)) {
80                      $result = false;
81                  }
82
83                  # Get versions, and delete them #
84                  if (!$DB->delete_records('wikicode_versions', array('pageid' =>
85                      $page->id), IGNORE_MISSING)) {
86                      $result = false;
87                  }
88              }
89          }
90
91          # Delete pages #
92          if (!$DB->delete_records('wikicode_pages', array('subwikiid' =>
93              $subwiki->id), IGNORE_MISSING)) {
94              $result = false;
95          }
96
97          # Get existing synonyms, and delete them #
98          if (!$DB->delete_records('wikicode_synonyms', array('subwikiid' => $subwiki
99              ->id), IGNORE_MISSING)) {
100              $result = false;
101          }
102
103          # Delete any subwikis #
104          if (!$DB->delete_records('wikicode_subwikis', array('id' => $subwiki->id),
105              IGNORE_MISSING)) {

```

```

98         $result = false;
99     }
100 }
101
102 # Delete any dependent records here #
103 if (!$DB->delete_records('wikicode', array('id' => $wiki->id))) {
104     $result = false;
105 }
106
107 return $result;
108 }
109
110 function wikicode_reset_userdata($data) {
111     global $CFG,$DB;
112     require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
113     require_once($CFG->dirroot . '/tag/lib.php');
114
115     $componentstr = get_string('modulenameplural', 'wikicode');
116     $status = array();
117
118     //get the wiki(s) in this course.
119     if (!$wikis = $DB->get_records('wikicode', array('course' => $data->courseid)))
120     {
121         return false;
122     }
123     $errors = false;
124     foreach ($wikis as $wiki) {
125
126         // remove all comments
127         if (!empty($data->reset_wikicode_comments)) {
128             if (!$scm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
129                 continue;
130             }
131             $context = get_context_instance(CONTEXT_MODULE, $scm->id);
132             $DB->delete_records_select('comments', "contextid = ? AND commentarea='
133                 wikicode_page'", array($context->id));
134             $status[] = array('component'=>$componentstr, 'item'=>get_string('
135                 deleteallcomments'), 'error'=>false);
136         }
137
138         if (!empty($data->reset_wikicode_tags)) {
139             # Get subwiki information #
140             $subwikis = $DB->get_records('wikicode_subwikis', array('wikiid' =>
141                 $wiki->id));
142
143             foreach ($subwikis as $subwiki) {
144                 if ($pages = $DB->get_records('wikicode_pages', array('subwikiid'
145                     => $subwiki->id))) {
146                     foreach ($pages as $page) {
147                         $tags = tag_get_tags_array('wikicode_pages', $page->id);
148                         foreach ($tags as $tagid => $tagname) {
149                             // Delete the related tag_instances related to the wiki
150                             page.

```



```

145         $errors = tag_delete_instance('wikicode_pages', $page->
146             id, $tagid);
147         $status[] = array('component' => $componentstr, 'item'
148             => get_string('tagsdeleted', 'wikicode'), 'error'
149             => $errors);
150     }
151 }
152 }
153 return $status;
154 }
155
156
157 function wikicode_reset_course_form_definition(&$mform) {
158     $mform->addElement('header', 'wikiheader', get_string('modulenameplural', '
159         wikicode'));
160     $mform->addElement('advcheckbox', 'reset_wikicode_tags', get_string('
161         removeallwikitags', 'wikicode'));
162     $mform->addElement('advcheckbox', 'reset_wikicode_comments', get_string('
163         deleteallcomments'));
164 }
165
166 /**
167  * Return a small object with summary information about what a
168  * user has done with a given particular instance of this module
169  * Used for user activity reports.
170  * $return->time = the time they did it
171  * $return->info = a short text description
172  *
173  * @return null
174  * @todo Finish documenting this function
175  */
176 function wikicode_user_outline($course, $user, $mod, $wiki) {
177     $return = NULL;
178     return $return;
179 }
180
181 /**
182  * Print a detailed representation of what a user has done with
183  * a given particular instance of this module, for user activity reports.
184  *
185  * @return boolean
186  * @todo Finish documenting this function
187  */
188 function wikicode_user_complete($course, $user, $mod, $wiki) {
189     return true;
190 }
191
192 /**
193  * Indicates API features that the wiki supports.
194  *
195  * @uses FEATURE_GROUPS

```

```

193 * @uses FEATURE_GROUPINGS
194 * @uses FEATURE_GROUPMEMBERONLY
195 * @uses FEATURE_MOD_INTRO
196 * @uses FEATURE_COMPLETION_TRACKS_VIEWS
197 * @uses FEATURE_COMPLETION_HAS_RULES
198 * @uses FEATURE_GRADE_HAS_GRADE
199 * @uses FEATURE_GRADE_OUTCOMES
200 * @param string $feature
201 * @return mixed True if yes (some features may use other values)
202 */
203 function wikicode_supports($feature) {
204     switch ($feature) {
205         case FEATURE_GROUPS:
206             return true;
207         case FEATURE_GROUPINGS:
208             return true;
209         case FEATURE_GROUPMEMBERONLY:
210             return true;
211         case FEATURE_MOD_INTRO:
212             return true;
213         case FEATURE_COMPLETION_TRACKS_VIEWS:
214             return true;
215         case FEATURE_GRADE_HAS_GRADE:
216             return false;
217         case FEATURE_GRADE_OUTCOMES:
218             return false;
219         case FEATURE_RATE:
220             return false;
221         case FEATURE_BACKUP_MOODLE2:
222             return true;
223         case FEATURE_SHOW_DESCRIPTION:
224             return true;
225
226         default:
227             return null;
228     }
229 }
230
231 /**
232  * Given a course and a time, this module should find recent activity
233  * that has occurred in wiki activities and print it out.
234  * Return true if there was output, or false if there was none.
235  *
236  * @global $CFG
237  * @global $DB
238  * @uses CONTEXT_MODULE
239  * @uses VISIBLEGROUPS
240  * @param object $course
241  * @param bool $viewfullnames capability
242  * @param int $timestart
243  * @return boolean
244  */
245 function wikicode_print_recent_activity($course, $viewfullnames, $timestart) {
246     global $CFG, $DB, $OUTPUT;

```

```

247
248     $sql = "SELECT p.*, w.id as wikiid, sw.groupid
249             FROM {wikicode_pages} p
250             JOIN {wikicode_subwikis} sw ON sw.id = p.subwikiid
251             JOIN {wikicode} w ON w.id = sw.wikiid
252             WHERE p.timemodified > ? AND w.course = ?
253             ORDER BY p.timemodified ASC";
254     if (!$pages = $DB->get_records_sql($sql, array($timestart, $course->id))) {
255         return false;
256     }
257     $modinfo =& get_fast_modinfo($course);
258
259     $wikis = array();
260
261     $modinfo = get_fast_modinfo($course);
262
263     foreach ($pages as $page) {
264         if (!isset($modinfo->instances['wikicode'][$page->wikiid])) {
265             // not visible
266             continue;
267         }
268         $cm = $modinfo->instances['wikicode'][$page->wikiid];
269         if (!$cm->uservisible) {
270             continue;
271         }
272         $context = get_context_instance(CONTEXT_MODULE, $cm->id);
273
274         if (!has_capability('mod/wikicode:viewpage', $context)) {
275             continue;
276         }
277
278         $groupmode = groups_get_activity_groupmode($cm, $course);
279
280         if ($groupmode) {
281             if ($groupmode == SEPARATEGROUPS and !has_capability('mod/wikicode:
282                 managewiki', $context)) {
283                 // separate mode
284                 if (isguestuser()) {
285                     // shortcut
286                     continue;
287                 }
288                 if (is_null($modinfo->groups)) {
289                     $modinfo->groups = groups_get_user_groups($course->id); // load
290                                     all my groups and cache it in modinfo
291                 }
292                 if (!in_array($page->groupid, $modinfo->groups[0])) {
293                     continue;
294                 }
295             }
296         }
297         $wikis[] = $page;
298     }

```

```

299     unset($pages);
300
301     if (!$wikis) {
302         return false;
303     }
304     echo $OUTPUT->heading(get_string("updatedwikipages", 'wikicode') . ': ', 3);
305     foreach ($wikis as $wiki) {
306         $cm = $modinfo->instances['wikicode'][$wiki->wikiid];
307         $link = $CFG->wwwroot . '/mod/wikicode/view.php?pageid=' . $wiki->id;
308         print_recent_activity_note($wiki->timemodified, $wiki, $cm->name, $link,
309             false, $viewfullnames);
310     }
311     return true; // True if anything was printed, otherwise false
312 }
313 /**
314  * Function to be run periodically according to the moodle cron
315  * This function searches for things that need to be done, such
316  * as sending out mail, toggling flags etc ...
317  *
318  * @uses $CFG
319  * @return boolean
320  * @todo Finish documenting this function
321  */
322 function wikicode_cron() {
323     global $CFG;
324
325     return true;
326 }
327
328 /**
329  * Must return an array of grades for a given instance of this module,
330  * indexed by user. It also returns a maximum allowed grade.
331  *
332  * Example:
333  *     $return->grades = array of grades;
334  *     $return->maxgrade = maximum allowed grade;
335  *
336  *     return $return;
337  *
338  * @param int $wikiid ID of an instance of this module
339  * @return mixed Null or object with an array of grades and with the maximum grade
340  */
341 function wikicode_grades($wikiid) {
342     return null;
343 }
344
345 /**
346  * Must return an array of user records (all data) who are participants
347  * for a given instance of wiki. Must include every user involved
348  * in the instance, independent of his role (student, teacher, admin...)
349  * See other modules as example.
350  *
351  * @todo: deprecated - to be deleted in 2.2

```

```

352  *
353  * @param int $wikiid ID of an instance of this module
354  * @return mixed boolean/array of students
355  **/
356  function wikicode_get_participants($wikiid) {
357      return false;
358  }
359
360  /**
361   * This function returns if a scale is being used by one wiki
362   * it it has support for grading and scales. Commented code should be
363   * modified if necessary. See forum, glossary or journal modules
364   * as reference.
365   *
366   * @param int $wikiid ID of an instance of this module
367   * @return mixed
368   * @todo Finish documenting this function
369   **/
370  function wikicode_scale_used($wikiid, $scaleid) {
371      $return = false;
372
373      //$rec = get_record("wiki","id",$wikiid,"scale","-$scaleid");
374      //
375      //if (!empty($rec) && !empty($scaleid)) {
376      //    $return = true;
377      //}
378
379      return $return;
380  }
381
382  /**
383   * Checks if scale is being used by any instance of wiki.
384   * This function was added in 1.9
385   *
386   * This is used to find out if scale used anywhere
387   * @param $scaleid int
388   * @return boolean True if the scale is used by any wiki
389   */
390  function wikicode_scale_used_anywhere($scaleid) {
391      global $DB;
392
393      //if ($scaleid and $DB->record_exists('wikicode', array('grade' => -$scaleid)))
394      //    {
395      //        return true;
396      //} else {
397      //    return false;
398      //}
399
400      return false;
401  }
402
403  /**
404   * Pluginfile hook
405   *

```

```

405  * @author Josep Arus
406  */
407  function wikicode_pluginfile($course, $cm, $context, $filearea, $args,
    $forcedownload) {
408      global $CFG;
409
410      if ($context->contextlevel != CONTEXT_MODULE) {
411          return false;
412      }
413
414      require_login($course, true, $cm);
415
416      require_once($CFG->dirroot . "/mod/wikicode/locallib.php");
417
418      if ($filearea == 'attachments') {
419          $swid = (int) array_shift($args);
420
421          if (!$subwiki = wikicode_get_subwiki($swid)) {
422              return false;
423          }
424
425          require_capability('mod/wikicode:viewpage', $context);
426
427          $relativepath = implode('/', $args);
428
429          $fullpath = "$context->id/mod_wikicode/attachments/$swid/$relativepath";
430
431          $fs = get_file_storage();
432          if (!$file = $fs->get_file_by_hash(sha1($fullpath)) or $file->is_directory
            ()) {
433              return false;
434          }
435
436          $lifetime = isset($CFG->filelifetime) ? $CFG->filelifetime : 86400;
437
438          send_stored_file($file, $lifetime, 0);
439      }
440  }
441
442  function wikicode_search_form($cm, $search = '') {
443      global $CFG, $OUTPUT;
444
445      $output = '<div class="wikisearch">';
446      $output .= '<form method="post" action="' . $CFG->wwwroot . '/mod/wikicode/
        search.php" style="display:inline">';
447      $output .= '<fieldset class="invisiblefieldset">';
448      $output .= '<input name="searchstring" type="text" size="18" value="' . s(
        $search, true) . '" alt="search" />';
449      $output .= '<input name="courseid" type="hidden" value="' . $cm->course . '" />
        ';
450      $output .= '<input name="cmid" type="hidden" value="' . $cm->id . '" />';
451      $output .= '<input name="searchwikicontent" type="hidden" value="1" />';
452      $output .= '<input value="' . get_string('searchwikis', 'wikicode') . '" type
        ="submit" />';

```

```

453     $output .= '</fieldset>';
454     $output .= '</form>';
455     $output .= '</div>';
456
457     return $output;
458 }
459 function wikicode_extend_navigation(navigation_node $navref, $course, $module, $cm)
460 {
461     global $CFG, $PAGE, $USER;
462
463     require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
464
465     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
466     $url = $PAGE->url;
467     $userid = 0;
468     if ($module->wikimode == 'individual') {
469         $userid = $USER->id;
470     }
471
472     if (!$wiki = wikicode_get_wiki($cm->instance)) {
473         return false;
474     }
475
476     if (!$gid = groups_get_activity_group($cm)) {
477         $gid = 0;
478     }
479
480     if (!$subwiki = wikicode_get_subwiki_by_group($cm->instance, $gid, $userid)) {
481         return null;
482     } else {
483         $swid = $subwiki->id;
484     }
485
486     $pageid = $url->param('pageid');
487     $cmid = $url->param('id');
488     if (empty($pageid) && !empty($cmid)) {
489         // wiki main page
490         $page = wikicode_get_page_by_title($swid, $wiki->firstpagetitle);
491         $pageid = $page->id;
492     }
493
494     if (has_capability('mod/wikicode:createpage', $context)) {
495         // $link = new moodle_url('/mod/wikicode/create.php', array('action' => 'new
496             ', 'swid' => $swid));
497         // $node = $navref->add(get_string('newpage', 'wikicode'), $link,
498             navigation_node::TYPE_SETTING);
499     }
500
501     if (is_numeric($pageid)) {
502         if (has_capability('mod/wikicode:viewpage', $context)) {
503             $link = new moodle_url('/mod/wikicode/view.php', array('pageid' =>
504                 $pageid));
505             $node = $navref->add(get_string('view', 'wikicode'), $link,
506                 navigation_node::TYPE_SETTING);

```

```

502     }
503
504     if (has_capability('mod/wikicode:editpage', $context)) {
505         $link = new moodle_url('/mod/wikicode/edit.php', array('pageid' =>
506             $pageid));
507         $node = $navref->add(get_string('edit', 'wikicode'), $link,
508             navigation_node::TYPE_SETTING);
509     }
510
511     if (has_capability('mod/wikicode:viewcomment', $context)) {
512         // $link = new moodle_url('/mod/wikicode/comments.php', array('pageid'
513             => $pageid));
514         // $node = $navref->add(get_string('comments', 'wikicode'), $link,
515             navigation_node::TYPE_SETTING);
516     }
517
518     if (has_capability('mod/wikicode:viewpage', $context)) {
519         $link = new moodle_url('/mod/wikicode/history.php', array('pageid' =>
520             $pageid));
521         $node = $navref->add(get_string('history', 'wikicode'), $link,
522             navigation_node::TYPE_SETTING);
523     }
524
525     if (has_capability('mod/wikicode:viewpage', $context)) {
526         // $link = new moodle_url('/mod/wikicode/map.php', array('pageid' =>
527             $pageid));
528         // $node = $navref->add(get_string('map', 'wikicode'), $link,
529             navigation_node::TYPE_SETTING);
530     }
531
532     if (has_capability('mod/wikicode:viewpage', $context)) {
533         // $link = new moodle_url('/mod/wikicode/files.php', array('pageid' =>
534             $pageid));
535         // $node = $navref->add(get_string('files', 'wikicode'), $link,
536             navigation_node::TYPE_SETTING);
537     }
538
539     if (has_capability('mod/wikicode:viewpage', $context)) {
540         $link = new moodle_url('/mod/wikicode/log.php', array('pageid' =>
541             $pageid));
542         $node = $navref->add(get_string('log', 'wikicode'), $link,
543             navigation_node::TYPE_SETTING);
544     }
545
546     if (has_capability('mod/wikicode:managewiki', $context)) {
547         $link = new moodle_url('/mod/wikicode/admin.php', array('pageid' =>
548             $pageid));
549         $node = $navref->add(get_string('admin', 'wikicode'), $link,
550             navigation_node::TYPE_SETTING);
551     }
552 }
553
554 /**
555  * Returns all other caps used in wiki module

```



```

542  *
543  * @return array
544  */
545  function wikicode_get_extra_capabilities() {
546      return array('moodle/comment:view', 'moodle/comment:post', 'moodle/comment:
          delete');
547  }
548
549  /**
550   * Running additional permission check on plugin, for example, plugins
551   * may have switch to turn on/off comments option, this callback will
552   * affect UI display, not like pluginname_comment_validate only throw
553   * exceptions.
554   * Capability check has been done in comment->check_permissions(), we
555   * don't need to do it again here.
556   *
557   * @param stdClass $comment_param {
558   *       context => context the context object
559   *       courseid => int course id
560   *       cm       => stdClass course module object
561   *       commentarea => string comment area
562   *       itemid    => int itemid
563   * }
564   * @return array
565   */
566  function wikicode_comment_permissions($comment_param) {
567      return array('post'=>true, 'view'=>true);
568  }
569
570  /**
571   * Validate comment parameter before perform other comments actions
572   *
573   * @param stdClass $comment_param {
574   *       context => context the context object
575   *       courseid => int course id
576   *       cm       => stdClass course module object
577   *       commentarea => string comment area
578   *       itemid    => int itemid
579   * }
580   * @return boolean
581   */
582  function wikicode_comment_validate($comment_param) {
583      global $DB, $CFG;
584      require_once($CFG->dirroot . '/mod/wikicode/lib.php');
585      // validate comment area
586      if ($comment_param->commentarea != 'wikicode_page') {
587          throw new comment_exception('invalidcommentarea');
588      }
589      // validate itemid
590      if (!$record = $DB->get_record('wikicode_pages', array('id'=>$comment_param->
          itemid))) {
591          throw new comment_exception('invalidcommentitemid');
592      }
593      if (!$subwiki = wikicode_get_subwiki($record->subwikiid)) {

```

```

594         throw new comment_exception('invalidsubwikiid');
595     }
596     if (!$wiki = wikicode_get_wikicode_from_pageid($comment_param->itemid)) {
597         throw new comment_exception('invalidid', 'data');
598     }
599     if (!$course = $DB->get_record('course', array('id'=>$wiki->course))) {
600         throw new comment_exception('coursemisconf');
601     }
602     if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id, $course->id))
603     {
604         throw new comment_exception('invalidcoursemodule');
605     }
606     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
607     // group access
608     if ($subwiki->groupid) {
609         $groupmode = groups_get_activity_groupmode($cm, $course);
610         if ($groupmode == SEPARATEGROUPS and !has_capability('moodle/site:
        accessallgroups', $context)) {
611             if (!groups_is_member($subwiki->groupid)) {
612                 throw new comment_exception('notmemberofgroup');
613             }
614         }
615     }
616     // validate context id
617     if ($context->id != $comment_param->context->id) {
618         throw new comment_exception('invalidcontext');
619     }
620     // validation for comment deletion
621     if (!empty($comment_param->commentid)) {
622         if ($comment = $DB->get_record('comments', array('id'=>$comment_param->
        commentid))) {
623             if ($comment->commentarea != 'wikicode_page') {
624                 throw new comment_exception('invalidcommentarea');
625             }
626             if ($comment->contextid != $context->id) {
627                 throw new comment_exception('invalidcontext');
628             }
629             if ($comment->itemid != $comment_param->itemid) {
630                 throw new comment_exception('invalidcommentitemid');
631             }
632         } else {
633             throw new comment_exception('invalidcommentid');
634         }
635     }
636     return true;
637 }
638 /**
639  * Return a list of page types
640  * @param string $pagetype current page type
641  * @param stdClass $parentcontext Block's parent context
642  * @param stdClass $currentcontext Current context of block
643  */
644 function wikicode_page_type_list($pagetype, $parentcontext, $currentcontext) {

```

```

645     $module_pagetype = array(
646         'mod-wiki-*'=>get_string('page-mod-wiki-x', 'wikicode'),
647         'mod-wiki-view'=>get_string('page-mod-wiki-view', 'wikicode'),
648         'mod-wiki-comments'=>get_string('page-mod-wiki-comments', 'wikicode'),
649         'mod-wiki-history'=>get_string('page-mod-wiki-history', 'wikicode'),
650         'mod-wiki-map'=>get_string('page-mod-wiki-map', 'wikicode')
651     );
652     return $module_pagetype;
653 }

```

3.2.3. localib.php

```

1  <?php
2
3  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
4  require_once($CFG->dirroot . '/mod/wikicode/parser/parser.php');
5  require_once($CFG->libdir . '/filelib.php');
6
7  define('WIKI_REFRESH_CACHE_TIME', 30); // @TODO: To be deleted.
8  define('FORMAT_CREOLE', '37');
9  define('FORMAT_NWIKI', '38');
10 define('NO_VALID_RATE', '-999');
11 define('IMPROVEMENT', '+');
12 define('EQUAL', '=');
13 define('WORST', '-');
14
15 define('LOCK_TIMEOUT', 30);
16
17 /**
18  * Get a wiki instance
19  * @param int $wikiid the instance id of wiki
20  */
21 function wikicode_get_wiki($wikiid) {
22     global $DB;
23
24     return $DB->get_record('wikicode', array('id' => $wikiid));
25 }
26
27 /**
28  * Get sub wiki instances with same wiki id
29  * @param int $wikiid
30  */
31 function wikicode_get_subwikis($wikiid) {
32     global $DB;
33     return $DB->get_records('wikicode_subwikis', array('wikiid' => $wikiid));
34 }
35
36 /**
37  * Get a sub wiki instance by wiki id and group id
38  * @param int $wikiid
39  * @param int $groupid

```

```

40  * @return object
41  */
42  function wikicode_get_subwiki_by_group($wikiid, $groupid, $userid = 0) {
43      global $DB;
44      return $DB->get_record('wikicode_subwikis', array('wikiid' => $wikiid, 'groupid'
45          ' => $groupid, 'userid' => $userid));
46  }
47  /**
48   * Get a sub wiki instace by instance id
49   * @param int $subwikiid
50   * @return object
51   */
52  function wikicode_get_subwiki($subwikiid) {
53      global $DB;
54      return $DB->get_record('wikicode_subwikis', array('id' => $subwikiid));
55  }
56  /**
57   * Add a new sub wiki instance
58   * @param int $wikiid
59   * @param int $groupid
60   * @return int $insertid
61   */
62  function wikicode_add_subwiki($wikiid, $groupid, $userid = 0) {
63      global $DB;
64
65      $record = new stdClass();
66      $record->wikiid = $wikiid;
67      $record->groupid = $groupid;
68      $record->userid = $userid;
69
70      $insertid = $DB->insert_record('wikicode_subwikis', $record);
71      return $insertid;
72  }
73  /**
74   * Get a wiki instance by pageid
75   * @param int $pageid
76   * @return object
77   */
78  function wikicode_get_wikicode_from_pageid($pageid) {
79      global $DB;
80
81      $sql = "SELECT w.*
82          FROM {wikicode} w, {wikicode_subwikis} s, {wikicode_pages} p
83          WHERE p.id = ? AND
84          p.subwikiid = s.id AND
85          s.wikiid = w.id";
86
87      return $DB->get_record_sql($sql, array($pageid));
88  }
89
90
91
92

```

```
93  /**
94   * Get gcc path most appearances
95   * @return object
96   */
97  function wikicode_get_gccpath() {
98      global $DB;
99
100     $sql = "SELECT w.gccpath
101             FROM {wikicode} w
102             GROUP BY w.gccpath ORDER BY w.gccpath DESC
103             LIMIT 1";
104
105     return $DB->get_record_sql($sql);
106 }
107
108 /**
109 * Get mingw path most appearances
110 * @return object
111 */
112 function wikicode_get_mingwpath() {
113     global $DB;
114
115     $sql = "SELECT w.mingwpath
116             FROM {wikicode} w
117             GROUP BY w.mingwpath ORDER BY w.mingwpath DESC
118             LIMIT 1";
119
120     return $DB->get_record_sql($sql);
121 }
122
123 /**
124 * Get a wiki page by pageid
125 * @param int $pageid
126 * @return object
127 */
128 function wikicode_get_page($pageid) {
129     global $DB;
130     return $DB->get_record('wikicode_pages', array('id' => $pageid));
131 }
132
133 /**
134 * Get latest version of wiki page
135 * @param int $pageid
136 * @return object
137 */
138 function wikicode_get_current_version($pageid) {
139     global $DB;
140
141     // @TODO: Fix this query
142     $sql = "SELECT *
143             FROM {wikicode_versions}
144             WHERE pageid = ?
145             ORDER BY version DESC";
146     return array_pop($DB->get_records_sql($sql, array($pageid), 0, 1));
```

```

147
148 }
149
150 /**
151  * Alias of wikicode_get_current_version
152  * @TODO, does the exactly same thing as wikicode_get_current_version, should be
153    removed
154  * @param int $pageid
155  * @return object
156  */
157 function wikicode_get_last_version($pageid) {
158     return wikicode_get_current_version($pageid);
159 }
160
161 /**
162  * Get page section
163  * @param int $pageid
164  * @param string $section
165  */
166 function wikicode_get_section_page($page, $section) {
167     $version = wikicode_get_current_version($page->id);
168     return wikicode_parser_proxy::get_section($version->content, $version->
169        contentformat, $section);
170 }
171
172 /**
173  * Get a wiki page by page title
174  * @param int $swid, sub wiki id
175  * @param string $title
176  * @return object
177  */
178 function wikicode_get_page_by_title($swid, $title) {
179     global $DB;
180     return $DB->get_record('wikicode_pages', array('subwikiid' => $swid, 'title' =>
181        $title));
182 }
183
184 /**
185  * Get a version record by record id
186  * @param int $versionid, the version id
187  * @return object
188  */
189 function wikicode_get_version($versionid) {
190     global $DB;
191     return $DB->get_record('wikicode_versions', array('id' => $versionid));
192 }
193
194 /**
195  * Get first page of wiki instace
196  * @param int $subwikiid
197  * @param int $module, wiki instance object
198  */
199 function wikicode_get_first_page($subwikid, $module = null) {

```

```

198     global $DB, $USER;
199
200     $sql = "SELECT p.*
201             FROM {wikicode} w, {wikicode_subwikis} s, {wikicode_pages} p
202             WHERE s.id = ? AND
203                   s.wikiid = w.id AND
204                   w.firstpagetitle = p.title AND
205                   p.subwikiid = s.id";
206     return $DB->get_record_sql($sql, array($subwikid));
207 }
208
209 function wikicode_save_section($wikipage, $sectiontitle, $sectioncontent, $userid)
210 {
211     $wiki = wikicode_get_wikicode_from_pageid($wikipage->id);
212     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
213     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
214
215     if (has_capability('mod/wikicode:editpage', $context)) {
216         $version = wikicode_get_current_version($wikipage->id);
217         $content = wikicode_parser_proxy::get_section($version->content, $version->
218             contentformat, $sectiontitle, true);
219
220         $newcontent = $content[0] . $sectioncontent . $content[2];
221
222         return wikicode_save_page($wikipage, $newcontent, $userid);
223     } else {
224         return false;
225     }
226 }
227
228 /**
229  * Save page content
230  * @param object $wikipage
231  * @param string $newcontent
232  * @param int $userid
233  */
234 function wikicode_save_page($wikipage, $newcontent, $userid) {
235     global $DB;
236
237     $wiki = wikicode_get_wikicode_from_pageid($wikipage->id);
238     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
239     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
240
241     if (has_capability('mod/wikicode:editpage', $context)) {
242         $version = wikicode_get_current_version($wikipage->id);
243
244         $version->content = $newcontent;
245         $version->userid = $userid;
246         $version->version++;
247         $version->timecreated = time();
248         $versionid = $DB->insert_record('wikicode_versions', $version);
249
250         $wikipage->timemodified = $version->timecreated;

```

```

250     $wikipage->userid = $userid;
251     $return = wikicode_refresh_cachedcontent($wikipage, $newcontent);
252
253     return $return;
254 } else {
255     return false;
256 }
257 }
258
259 /**
260  * Compile page content
261  * @param object $wikipage
262  * @param string $newcontent
263  * @param int $userid
264  */
265 function wikicode_compile_page($wikipage, $newcontent, $userid, $download) {
266     global $DB;
267
268     $wiki = wikicode_get_wikicode_from_pageid($wikipage->id);
269     $scm = get_coursemodule_from_instance('wikicode', $wiki->id);
270     $context = get_context_instance(CONTEXT_MODULE, $scm->id);
271
272     if (has_capability('mod/wikicode:editpage', $context)) {
273
274         //Creamos el fichero
275         $fileC = fopen("code.c","w");
276         $codigo = wikicode_remove_tags($newcontent);
277         fputs($fileC,$codigo);
278         fclose($fileC);
279
280         //Detectamos el OS
281         $userAgent = $_SERVER[HTTP_USER_AGENT];
282         $userAgent = strtolower ($userAgent);
283
284         //Llamamos al compilador correspondiente
285         if(strpos($userAgent, "windows") !== false) {
286             $output=system($wiki->mingwpath . " code.c -o moodle.exe -w 2>
                output.txt");
287             $sejecutable='moodle.exe';
288         }
289         else {
290             $output=system($wiki->gccpath . " code.c -o moodle.out -w
                2> output.txt");
291             $sejecutable='moodle.out';
292         }
293
294         $file_output = fopen ("output.txt", "r");
295         $output = fread($file_output, filesize("output.txt"));
296         $output = utf8_encode($output);
297
298         if ( $output == '0' || $output == '') {
299             $output = 'Compilacion correcta';
300         } else {
301             $wikipage->errorcompile++;

```



```

302         }
303
304         //Guardamos los datos
305         $wikipage->cachedcompile = $newcontent;
306         $wikipage->cachedgcc = $output;
307         $DB->update_record('wikicode_pages', $wikipage);
308
309         //Descargamos el ejecutable
310         if ($output == 'Compilacion correcta' and $download == TRUE) {
311             echo "<script language='JavaScript'>window.open('".
312                 $ejecutable."')</script>";
313         }
314
315         return array('page' => $wikipage);
316     } else {
317         return false;
318     }
319 }
320
321 function wikicode_remove_tags($newcontent) {
322
323     $codigo = str_replace("<\/!>", "", $newcontent);
324
325     $desde = strpos($codigo, "<!");
326
327     while (is_numeric($desde)) {
328         $hasta = strpos($codigo, ">", $desde);
329         $codigo = substr_replace($codigo, '', $desde, $hasta - $desde + 1);
330
331         $desde = strpos($codigo, "<!");
332     }
333
334     return $codigo;
335 }
336
337 function wikicode_remove_tags_owner($codigo) {
338
339     global $USER;
340
341     $desde = strpos($codigo, "<!". $USER->username. ">");
342
343     while (is_numeric($desde)) {
344         $codigoaux = substr($codigo, $desde);
345         $desdeaux = strpos($codigoaux, "<\/!>");
346
347         $codigo = substr_replace($codigo, '', $desde + $desdeaux, 4);
348         $codigo = substr_replace($codigo, '', $desde, strlen("<!". $USER->
349             username. ">"));
350
351         $desde = strpos($codigo, "<!". $USER->username. ">");
352     }
353
354     return $codigo;
355 }

```

```

354
355 function wikicode_refresh_cachedcontent($page, $newcontent = null) {
356     global $DB;
357
358     $version = wikicode_get_current_version($page->id);
359     if (empty($version)) {
360         return null;
361     }
362     if (!isset($newcontent)) {
363         $newcontent = $version->content;
364     }
365
366     $options = array('swid' => $page->subwikiid, 'pageid' => $page->id);
367     $parseroutput = wikicode_parse_content($version->contentformat, $newcontent,
368         $options);
369     if ($version->contentformat == 'nwiki') {
370         $page->cachedcontent = $version->content;
371     }
372     else {
373         $page->cachedcontent = $parseroutput['toc'] . $parseroutput['
374             parsed_text'];
375     }
376
377     $page->timerendered = time();
378     $DB->update_record('wikicode_pages', $page);
379
380     wikicode_refresh_page_links($page, $parseroutput['link_count']);
381
382     return array('page' => $page, 'sections' => $parseroutput['repeated_sections'],
383         'version' => $version->version);
384 }
385 /**
386  * Restore a page
387  */
388 function wikicode_restore_page($wikipage, $newcontent, $userid) {
389     $return = wikicode_save_page($wikipage, $newcontent, $userid);
390     return $return['page'];
391 }
392
393 function wikicode_refresh_page_links($page, $links) {
394     global $DB;
395
396     $DB->delete_records('wikicode_links', array('frompageid' => $page->id));
397     foreach ($links as $linkname => $linkinfo) {
398
399         $newlink = new stdClass();
400         $newlink->subwikiid = $page->subwikiid;
401         $newlink->frompageid = $page->id;
402
403         if ($linkinfo['new']) {
404             $newlink->tomissingpage = $linkname;
405         } else {
406             $newlink->topageid = $linkinfo['pageid'];
407         }
408     }

```

```

405
406         try {
407             $DB->insert_record('wikicode_links', $newlink);
408         } catch (dml_exception $e) {
409             debugging($e->getMessage());
410         }
411
412     }
413 }
414
415 /**
416  * Create a new wiki page, if the page exists, return existing pageid
417  * @param int $swid
418  * @param string $title
419  * @param string $format
420  * @param int $userid
421  */
422 function wikicode_create_page($swid, $title, $format, $userid) {
423     global $DB, $PAGE;
424     $subwiki = wikicode_get_subwiki($swid);
425     $cm = get_coursemodule_from_instance('wikicode', $subwiki->wikiid);
426     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
427     require_capability('mod/wikicode:editpage', $context);
428     // if page exists
429     if ($page = wikicode_get_page_by_title($swid, $title)) {
430         return $page->id;
431     }
432
433     // Creating a new empty version
434     $version = new stdClass();
435     $version->content = '';
436     $version->contentformat = $format;
437     $version->version = 0;
438     $version->timecreated = time();
439     $version->userid = $userid;
440
441     $versionid = null;
442     $versionid = $DB->insert_record('wikicode_versions', $version);
443
444     // Createing a new empty page
445     $page = new stdClass();
446     $page->subwikiid = $swid;
447     $page->title = $title;
448     $page->cachedcontent = '';
449     $page->timecreated = $version->timecreated;
450     $page->timemodified = $version->timecreated;
451     $page->timerendered = $version->timecreated;
452     $page->userid = $userid;
453     $page->pageviews = 0;
454     $page->readonly = 0;
455     $page->cachedcompile = '';
456     $page->cachedgcc = '';
457     $page->errorcompile = 0;
458     $page->timestartedit = 0;

```

```

459     $page->timeendedit = 0;
460
461     $pageid = $DB->insert_record('wikicode_pages', $page);
462
463     // Setting the pageid
464     $version->id = $versionid;
465     $version->pageid = $pageid;
466     $DB->update_record('wikicode_versions', $version);
467
468     wikicode_make_cache_expire($page->title);
469     return $pageid;
470 }
471
472 function wikicode_make_cache_expire($pagename) {
473     global $DB;
474
475     $sql = "UPDATE {wikicode_pages}
476             SET timerendered = 0
477             WHERE id IN ( SELECT l.frompageid
478                           FROM {wikicode_links} l
479                           WHERE l.tomissingpage = ?
480                           )";
481     $DB->execute ($sql, array($pagename));
482 }
483
484 /**
485  * Get a specific version of page
486  * @param int $pageid
487  * @param int $version
488  */
489 function wikicode_get_wikicode_page_version($pageid, $version) {
490     global $DB;
491     return $DB->get_record('wikicode_versions', array('pageid' => $pageid, 'version'
492         => $version));
493 }
494
495 /**
496  * Get version list
497  * @param int $pageid
498  * @param int $limitfrom
499  * @param int $limitnum
500  */
501 function wikicode_get_wikicode_page_versions($pageid, $limitfrom, $limitnum) {
502     global $DB;
503     return $DB->get_records('wikicode_versions', array('pageid' => $pageid), '
504         version DESC', '*', $limitfrom, $limitnum);
505 }
506
507 /**
508  * Count the number of page version
509  * @param int $pageid
510  */
511 function wikicode_count_wikicode_page_versions($pageid) {
512     global $DB;

```

```

511     return $DB->count_records('wikicode_versions', array('pageid' => $pageid));
512 }
513
514 /**
515  * Get linked from page
516  * @param int $pageid
517  */
518 function wikicode_get_linked_to_pages($pageid) {
519     global $DB;
520     return $DB->get_records('wikicode_links', array('frompageid' => $pageid));
521 }
522
523 /**
524  * Get linked from page
525  * @param int $pageid
526  */
527 function wikicode_get_linked_from_pages($pageid) {
528     global $DB;
529     return $DB->get_records('wikicode_links', array('topageid' => $pageid));
530 }
531
532 /**
533  * Get pages which user have been edited
534  * @param int $swid
535  * @param int $userid
536  */
537 function wikicode_get_contributions($swid, $userid) {
538     global $DB;
539
540     $sql = "SELECT v.*
541             FROM {wikicode_versions} v, {wikicode_pages} p
542             WHERE p.subwikiid = ? AND
543                   v.pageid = p.id AND
544                   v.userid = ?";
545
546     return $DB->get_records_sql($sql, array($swid, $userid));
547 }
548
549 /**
550  * Get missing or empty pages in wiki
551  * @param int $swid sub wiki id
552  */
553 function wikicode_get_missing_or_empty_pages($swid) {
554     global $DB;
555
556     $sql = "SELECT DISTINCT p.title, p.id, p.subwikiid
557             FROM {wikicode} w, {wikicode_subwikis} s, {wikicode_pages} p
558             WHERE s.wikiid = w.id and
559                   s.id = ? and
560                   w.firstpagetitle != p.title and
561                   p.subwikiid = ? and
562                   1 = (SELECT count(*)
563                       FROM {wikicode_versions} v
564                       WHERE v.pageid = p.id)";

```

```

565         UNION
566         SELECT DISTINCT l.tomissingpage as title, 0 as id, l.subwikiid
567         FROM {wikicode_links} l
568         WHERE l.subwikiid = ? and
569         l.topageid = 0";
570
571     return $DB->get_records_sql($sql, array($swid, $swid, $swid));
572 }
573
574 /**
575  * Get pages list in wiki
576  * @param int $swid sub wiki id
577  */
578 function wikicode_get_page_list($swid) {
579     global $DB;
580     $records = $DB->get_records('wikicode_pages', array('subwikiid' => $swid), '
581         title ASC');
582     return $records;
583 }
584
585 /**
586  * Return a list of orphaned wikis for one specific subwiki
587  * @global object
588  * @param int $swid sub wiki id
589  */
590 function wikicode_get_orphaned_pages($swid) {
591     global $DB;
592
593     $sql = "SELECT p.id, p.title
594         FROM {wikicode_pages} p, {wikicode} w , {wikicode_subwikis} s
595         WHERE p.subwikiid = ?
596         AND s.id = ?
597         AND w.id = s.wikiid
598         AND p.title != w.firstpagetitle
599         AND p.id NOT IN (SELECT topageid FROM {wikicode_links} WHERE subwikiid
600             = ?)";
601
602     return $DB->get_records_sql($sql, array($swid, $swid, $swid));
603 }
604
605 /**
606  * Search wiki title
607  * @param int $swid sub wiki id
608  * @param string $search
609  */
610 function wikicode_search_title($swid, $search) {
611     global $DB;
612
613     return $DB->get_records_select('wikicode_pages', "subwikiid = ? AND title LIKE
614         ?", array($swid, '%'.$search.'%'));
615 }
616
617 /**
618  * Search wiki content

```

```

616 * @param int $swid sub wiki id
617 * @param string $search
618 */
619 function wikicode_search_content($swid, $search) {
620     global $DB;
621
622     return $DB->get_records_select('wikicode_pages', "subwikiid = ? AND
        cachedcontent LIKE ?", array($swid, '%'.$search.'%'));
623 }
624
625 /**
626  * Search wiki title and content
627  * @param int $swid sub wiki id
628  * @param string $search
629  */
630 function wikicode_search_all($swid, $search) {
631     global $DB;
632
633     return $DB->get_records_select('wikicode_pages', "subwikiid = ? AND (
        cachedcontent LIKE ? OR title LIKE ?)", array($swid, '%'.$search.'%', '%'.
        $search.'%'));
634 }
635
636 /**
637  * Get user data
638  */
639 function wikicode_get_user_info($userid) {
640     global $DB;
641     return $DB->get_record('user', array('id' => $userid));
642 }
643
644 /**
645  * Increase page view nubmer
646  * @param int $page, database record
647  */
648 function wikicode_increment_pageviews($page) {
649     global $DB;
650
651     $page->pageviews++;
652     $DB->update_record('wikicode_pages', $page);
653 }
654
655 //-----
656 //-----
657
658 /**
659  * Text format supported by wiki module
660  */
661 function wikicode_get_formats() {
662     return array('wcode');
663 }
664
665 /**
666  * Parses a string with the wiki markup language in $markup.

```

```

667 *
668 * @return Array or false when something wrong has happened.
669 *
670 * Returned array contains the following fields:
671 *     'parsed_text' => String. Contains the parsed wiki content.
672 *     'unparsed_text' => String. Constains the original wiki content.
673 *     'link_count' => Array of array('destination' => ..., 'new' => "is new?").
        Contains the internal wiki links found in the wiki content.
674 *     'deleted_sections' => the list of deleted sections.
675 *     '' =>
676 *
677 * @author Josep Arus Pous
678 **/
679 function wikicode_parse_content($markup, $pagecontent, $options = array()) {
680     global $PAGE;
681
682     $subwiki = wikicode_get_subwiki($options['swid']);
683     $scm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid);
684     $context = get_context_instance(CONTEXT_MODULE, $scm->id);
685
686     $parser_options = array(
687         'link_callback' => '/mod/wikicode/locallib.php:wiki_parser_link',
688         'link_callback_args' => array('swid' => $options['swid']),
689         'table_callback' => '/mod/wikicode/locallib.php:wiki_parser_table',
690         'real_path_callback' => '/mod/wikicode/locallib.php:wiki_parser_real_path',
691         'real_path_callback_args' => array(
692             'context' => $context,
693             'component' => 'mod_wikicode',
694             'filearea' => 'attachments',
695             'subwikiid' => $subwiki->id,
696             'pageid' => $options['pageid']
697         ),
698         'pageid' => $options['pageid'],
699         'pretty_print' => (isset($options['pretty_print']) && $options['
            pretty_print']),
700         'printable' => (isset($options['printable']) && $options['printable'])
701     );
702
703     return wikicode_parser_proxy::parse($pagecontent, $markup, $parser_options);
704 }
705
706 /**
707 * This function is the parser callback to parse wiki links.
708 *
709 * It returns the necessary information to print a link.
710 *
711 * NOTE: Empty pages and non-existent pages must be print in red color.
712 *
713 * @param link name of a page
714 * @param $options
715 *
716 * @return
717 *
718 * @TODO Doc return and options

```



```

719  */
720  function wikicode_parser_link($link, $options = null) {
721      global $CFG;
722
723      if (is_object($link)) {
724          $parsedlink = array('content' => $link->title, 'url' => $CFG->wwwroot . '/mod/
              wikicode/view.php?pageid=' . $link->id, 'new' => false, 'link_info'
              => array('link' => $link->title, 'pageid' => $link->id, 'new' => false
              ));
725
726          $version = wikicode_get_current_version($link->id);
727          if ($version->version == 0) {
728              $parsedlink['new'] = true;
729          }
730          return $parsedlink;
731      } else {
732          $swid = $options['swid'];
733
734          if ($page = wikicode_get_page_by_title($swid, $link)) {
735              $parsedlink = array('content' => $link, 'url' => $CFG->wwwroot . '/mod/
              wikicode/view.php?pageid=' . $page->id, 'new' => false, 'link_info'
              => array('link' => $link, 'pageid' => $page->id, 'new' => false));
736
737              $version = wikicode_get_current_version($page->id);
738              if ($version->version == 0) {
739                  $parsedlink['new'] = true;
740              }
741
742              return $parsedlink;
743          } else {
744              return array('content' => $link, 'url' => $CFG->wwwroot . '/mod/
              wikicode/create.php?swid=' . $swid . '&title=' . urlencode(
              $link) . '&action=new', 'new' => true, 'link_info' => array('
              link' => $link, 'new' => true, 'pageid' => 0));
745          }
746      }
747  }
748  }
749
750  /**
751   * Returns the table fully parsed (HTML)
752   *
753   * @return HTML for the table $table
754   * @author Josep Arus Pous
755   */
756  /**
757  function wikicode_parser_table($table) {
758      global $OUTPUT;
759
760      $htmltable = new html_table();
761
762      $headers = $table[0];
763      $htmltable->head = array();
764      foreach ($headers as $h) {

```

```

765     $htmltable->head[] = $h[1];
766 }
767
768     array_shift($table);
769     $htmltable->data = array();
770     foreach ($table as $row) {
771         $row_data = array();
772         foreach ($row as $r) {
773             $row_data[] = $r[1];
774         }
775         $htmltable->data[] = $row_data;
776     }
777
778     return html_writer::table($htmltable);
779 }
780
781 /**
782  * Returns an absolute path link, unless there is no such link.
783  *
784  * @param string $url Link's URL or filename
785  * @param stdClass $context filearea params
786  * @param string $component The component the file is associated with
787  * @param string $filearea The filearea the file is stored in
788  * @param int $swid Sub wiki id
789  *
790  * @return string URL for files full path
791  */
792
793 function wikicode_parser_real_path($url, $context, $component, $filearea, $swid) {
794     global $CFG;
795
796     if (preg_match("/^(?:http|ftp)s?\\:\\\\\/\\\/", $url)) {
797         return $url;
798     } else {
799
800         $file = 'pluginfile.php';
801         if (!$CFG->slasharguments) {
802             $file = $file . '?file=';
803         }
804         $baseurl = "$CFG->wwwroot/$file/{$context->id}/$component/$filearea/$swid/"
805             ;
806         // it is a file in current file area
807         return $baseurl . $url;
808     }
809 }
810
811 /**
812  * Returns the token used by a wiki language to represent a given tag or "object" (
813     bold -> **)
814  *
815  * @return A string when it has only one token at the beginning (f. ex. lists). An
816     array composed by 2 strings when it has 2 tokens, one at the beginning and one
817     at the end (f. ex. italics). Returns false otherwise.
818  *
819  * @author Josep Arus Pous

```

```

815  */
816  function wikicode_parser_get_token($markup, $name) {
817
818      return wikicode_parser_proxy::get_token($name, $markup);
819  }
820
821  /**
822   * Checks if current user can view a subwiki
823   *
824   * @param $subwiki
825   */
826  function wikicode_user_can_view($subwiki) {
827      global $USER;
828
829      $wiki = wikicode_get_wiki($subwiki->wikiid);
830      $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
831      $context = get_context_instance(CONTEXT_MODULE, $cm->id);
832
833      // Working depending on activity groupmode
834      switch (groups_get_activity_groupmode($cm)) {
835      case NOGROUPS:
836
837          if ($wiki->wikimode == 'collaborative') {
838              // Collaborative Mode:
839              // There is one wiki for all the class.
840              //
841              // Only view capability needed
842              return has_capability('mod/wikicode:viewpage', $context);
843          } else if ($wiki->wikimode == 'individual') {
844              // Individual Mode:
845              // Each person owns a wiki.
846              if ($subwiki->userid == $USER->id) {
847                  // Only the owner of the wiki can view it
848                  return has_capability('mod/wikicode:viewpage', $context);
849              } else { // User has special capabilities
850                  // User must have:
851                  //      mod/wiki:viewpage capability
852                  // and
853                  //      mod/wiki:managewiki capability
854                  $view = has_capability('mod/wikicode:viewpage', $context);
855                  $manage = has_capability('mod/wikicode:managewiki', $context);
856
857                  return $view && $manage;
858              }
859          } else {
860              //Error
861              return false;
862          }
863      case SEPARATEGROUPS:
864          // Collaborative and Individual Mode
865          //
866          // Collaborative Mode:
867          //      There is one wiki per group.
868          // Individual Mode:

```

```

869     //      Each person owns a wiki.
870     if ($wiki->wikimode == 'collaborative' || $wiki->wikimode == 'individual')
871     {
872         // Only members of subwiki group could view that wiki
873         if ($subwiki->groupid == groups_get_activity_group($cm)) {
874             // Only view capability needed
875             return has_capability('mod/wikicode:viewpage', $context);
876
877         } else { // User is not part of that group
878             // User must have:
879             //      mod/wiki:managewiki capability
880             // or
881             //      moodle/site:accessallgroups capability
882             // and
883             //      mod/wiki:viewpage capability
884             $view = has_capability('mod/wikicode:viewpage', $context);
885             $manage = has_capability('mod/wikicode:managewiki', $context);
886             $access = has_capability('moodle/site:accessallgroups', $context);
887             return ($manage || $access) && $view;
888         }
889     } else {
890         //Error
891         return false;
892     }
893 case VISIBLEGROUPS:
894     // Collaborative and Individual Mode
895     //
896     // Collaborative Mode:
897     //      There is one wiki per group.
898     // Individual Mode:
899     //      Each person owns a wiki.
900     if ($wiki->wikimode == 'collaborative' || $wiki->wikimode == 'individual')
901     {
902         // Everybody can read all wikis
903         //
904         // Only view capability needed
905         return has_capability('mod/wikicode:viewpage', $context);
906     } else {
907         //Error
908         return false;
909     }
910 default: // Error
911     return false;
912 }
913
914 /**
915  * Checks if current user can edit a subwiki
916  *
917  * @param $subwiki
918  */
919 function wikicode_user_can_edit($subwiki) {
920     global $USER;

```

```

921     $wiki = wikicode_get_wiki($subwiki->wikiid);
922     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
923     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
924
925     // Working depending on activity groupmode
926     switch (groups_get_activity_groupmode($cm)) {
927     case NOGROUPS:
928
929         if ($wiki->wikimode == 'collaborative') {
930             // Collaborative Mode:
931             // There is a wiki for all the class.
932             //
933             // Only edit capability needed
934             return has_capability('mod/wikicode:editpage', $context);
935         } else if ($wiki->wikimode == 'individual') {
936             // Individual Mode
937             // There is a wiki per user
938
939             // Only the owner of that wiki can edit it
940             if ($subwiki->userid == $USER->id) {
941                 return has_capability('mod/wikicode:editpage', $context);
942             } else { // Current user is not the owner of that wiki.
943
944                 // User must have:
945                 //      mod/wiki:editpage capability
946                 // and
947                 //      mod/wiki:managewiki capability
948                 $edit = has_capability('mod/wikicode:editpage', $context);
949                 $manage = has_capability('mod/wikicode:managewiki', $context);
950
951                 return $edit && $manage;
952             }
953         } else {
954             //Error
955             return false;
956         }
957     case SEPARATEGROUPS:
958         if ($wiki->wikimode == 'collaborative') {
959             // Collaborative Mode:
960             // There is one wiki per group.
961             //
962             // Only members of subwiki group could edit that wiki
963             if ($subwiki->groupid == groups_get_activity_group($cm)) {
964                 // Only edit capability needed
965                 return has_capability('mod/wikicode:editpage', $context);
966             } else { // User is not part of that group
967                 // User must have:
968                 //      mod/wiki:managewiki capability
969                 // and
970                 //      moodle/site:accessallgroups capability
971                 // and
972                 //      mod/wiki:editpage capability
973                 $manage = has_capability('mod/wikicode:managewiki', $context);
974                 $access = has_capability('moodle/site:accessallgroups', $context);

```

```

975         $edit = has_capability('mod/wikicode:editpage', $context);
976         return $manage && $access && $edit;
977     }
978 } else if ($wiki->wikimode == 'individual') {
979     // Individual Mode:
980     // Each person owns a wiki.
981     //
982     // Only the owner of that wiki can edit it
983     if ($subwiki->userid == $USER->id) {
984         return has_capability('mod/wikicode:editpage', $context);
985     } else { // Current user is not the owner of that wiki.
986         // User must have:
987         //     mod/wiki:managewiki capability
988         // and
989         //     moodle/site:accessallgroups capability
990         // and
991         //     mod/wiki:editpage capability
992         $manage = has_capability('mod/wikicode:managewiki', $context);
993         $access = has_capability('moodle/site:accessallgroups', $context);
994         $edit = has_capability('mod/wikicode:editpage', $context);
995         return $manage && $access && $edit;
996     }
997 } else {
998     //Error
999     return false;
1000 }
1001 case VISIBLEGROUPS:
1002     if ($wiki->wikimode == 'collaborative') {
1003         // Collaborative Mode:
1004         // There is one wiki per group.
1005         //
1006         // Only members of subwiki group could edit that wiki
1007         if (groups_is_member($subwiki->groupid)) {
1008             // Only edit capability needed
1009             return has_capability('mod/wikicode:editpage', $context);
1010         } else { // User is not part of that group
1011             // User must have:
1012             //     mod/wiki:managewiki capability
1013             // and
1014             //     mod/wiki:editpage capability
1015             $manage = has_capability('mod/wikicode:managewiki', $context);
1016             $edit = has_capability('mod/wikicode:editpage', $context);
1017             return $manage && $edit;
1018         }
1019     } else if ($wiki->wikimode == 'individual') {
1020         // Individual Mode:
1021         // Each person owns a wiki.
1022         //
1023         // Only the owner of that wiki can edit it
1024         if ($subwiki->userid == $USER->id) {
1025             return has_capability('mod/wikicode:editpage', $context);
1026         } else { // Current user is not the owner of that wiki.
1027             // User must have:
1028             //     mod/wiki:managewiki capability

```

```

1029         // and
1030         //      mod/wiki:editpage capability
1031         $manage = has_capability('mod/wikicode:managewiki', $context);
1032         $edit = has_capability('mod/wikicode:editpage', $context);
1033         return $manage && $edit;
1034     }
1035     } else {
1036         //Error
1037         return false;
1038     }
1039     default: // Error
1040         return false;
1041     }
1042 }
1043
1044 //-----
1045 // Locks
1046 //-----
1047
1048 /**
1049  * Checks if a page-section is locked.
1050  *
1051  * @return true if the combination of section and page is locked, FALSE otherwise.
1052  */
1053 function wikicode_is_page_section_locked($pageid, $userid, $section = null) {
1054     global $DB;
1055
1056     $sql = "pageid = ? AND lockedat > ? AND userid != ?";
1057     $params = array($pageid, time(), $userid);
1058
1059     if (!empty($section)) {
1060         $sql .= " AND (sectionname = ? OR sectionname IS null)";
1061         $params[] = $section;
1062     }
1063
1064     return $DB->record_exists_select('wikicode_locks', $sql, $params);
1065 }
1066
1067 /**
1068  * Inserts or updates a wikicode_locks record.
1069  */
1070 function wikicode_set_lock($pageid, $userid, $section = null, $insert = false) {
1071     global $DB;
1072
1073     if (wikicode_is_page_section_locked($pageid, $userid, $section)) {
1074         return false;
1075     }
1076
1077     $params = array('pageid' => $pageid, 'userid' => $userid, 'sectionname' =>
1078         $section);
1079
1080     $lock = $DB->get_record('wikicode_locks', $params);
1081
1082     if (!empty($lock)) {

```

```

1082         $DB->update_record('wikicode_locks', array('id' => $lock->id, 'lockedat' =>
1083             time() + LOCK_TIMEOUT));
1084     } else if ($insert) {
1085         $DB->insert_record('wikicode_locks', array('pageid' => $pageid, '
1086             sectionname' => $section, 'userid' => $userid, 'lockedat' => time() +
1087             30));
1088     }
1089
1090     return true;
1091 }
1092
1093 /**
1094  * Deletes wikicode_locks that are not in use. (F.Ex. after submitting the changes)
1095  * . If no userid is present, it deletes ALL the wikicode_locks of a specific
1096  * page.
1097  */
1098 function wikicode_delete_locks($pageid, $userid = null, $section = null,
1099     $delete_from_db = true, $delete_section_and_page = false) {
1100     global $DB;
1101
1102     $params = array('pageid' => $pageid);
1103
1104     if (!empty($userid)) {
1105         $params['userid'] = $userid;
1106     }
1107
1108     if (!empty($section)) {
1109         $params['sectionname'] = $section;
1110     }
1111
1112     if ($delete_from_db) {
1113         $DB->delete_records('wikicode_locks', $params);
1114         if ($delete_section_and_page && !empty($section)) {
1115             $params['sectionname'] = null;
1116             $DB->delete_records('wikicode_locks', $params);
1117         }
1118     } else {
1119         $DB->set_field('wikicode_locks', 'lockedat', time(), $params);
1120     }
1121 }
1122
1123 /**
1124  * Deletes wikicode_locks that expired 1 hour ago.
1125  */
1126 function wikicode_delete_old_locks() {
1127     global $DB;
1128
1129     $DB->delete_records_select('wikicode_locks', "lockedat < ?", array(time() -
1130         3600));
1131 }
1132
1133 /**
1134  * Deletes wikicode_links. It can be sepecific link or links attached in subwiki
1135  *

```



```

1129 * @global mixed $DB database object
1130 * @param int $linkid id of the link to be deleted
1131 * @param int $topageid links to the specific page
1132 * @param int $frompageid links from specific page
1133 * @param int $subwikiid links to subwiki
1134 */
1135 function wikicode_delete_links($linkid = null, $topageid = null, $frompageid = null
    , $subwikiid = null) {
1136     global $DB;
1137     $params = array();
1138
1139     // if link id is given then don't check for anything else
1140     if (!empty($linkid)) {
1141         $params['id'] = $linkid;
1142     } else {
1143         if (!empty($topageid)) {
1144             $params['topageid'] = $topageid;
1145         }
1146         if (!empty($frompageid)) {
1147             $params['frompageid'] = $frompageid;
1148         }
1149         if (!empty($subwikiid)) {
1150             $params['subwikiid'] = $subwikiid;
1151         }
1152     }
1153
1154     //Delete links if any params are passed, else nothing to delete.
1155     if (!empty($params)) {
1156         $DB->delete_records('wikicode_links', $params);
1157     }
1158 }
1159
1160 /**
1161  * Delete wiki synonyms related to subwikiid or page
1162  *
1163  * @param int $subwikiid id of subwiki
1164  * @param int $pageid id of page
1165  */
1166 function wikicode_delete_synonym($subwikiid, $pageid = null) {
1167     global $DB;
1168
1169     $params = array('subwikiid' => $subwikiid);
1170     if (!is_null($pageid)) {
1171         $params['pageid'] = $pageid;
1172     }
1173     $DB->delete_records('wikicode_synonyms', $params, IGNORE_MISSING);
1174 }
1175
1176 /**
1177  * Delete pages and all related data
1178  *
1179  * @param mixed $context context in which page needs to be deleted.
1180  * @param mixed $pageids id's of pages to be deleted
1181  * @param int $subwikiid id of the subwiki for which all pages should be deleted

```

```

1182 */
1183 function wikicode_delete_pages($context, $pageids = null, $subwikiid = null) {
1184     global $DB;
1185
1186     if (!empty($pageids) && is_int($pageids)) {
1187         $pageids = array($pageids);
1188     } else if (!empty($subwikiid)) {
1189         $pageids = wikicode_get_page_list($subwikiid);
1190     }
1191
1192     //If there is no pageid then return as we can't delete anything.
1193     if (empty($pageids)) {
1194         return;
1195     }
1196
1197     /// Delete page and all it's relevent data
1198     foreach ($pageids as $pageid) {
1199         if (is_object($pageid)) {
1200             $pageid = $pageid->id;
1201         }
1202
1203         //Delete page comments
1204         $comments = wikicode_get_comments($context->id, $pageid);
1205         foreach ($comments as $commentid => $commentvalue) {
1206             wikicode_delete_comment($commentid, $context, $pageid);
1207         }
1208
1209         //Delete page tags
1210         $tags = tag_get_tags_array('wikicode_pages', $pageid);
1211         foreach ($tags as $tagid => $tagvalue) {
1212             tag_delete_instance('wikicode_pages', $pageid, $tagid);
1213         }
1214
1215         //Delete Synonym
1216         wikicode_delete_synonym($subwikiid, $pageid);
1217
1218         //Delete all page versions
1219         wikicode_delete_page_versions(array($pageid=>array(0)));
1220
1221         //Delete all page locks
1222         wikicode_delete_locks($pageid);
1223
1224         //Delete all page links
1225         wikicode_delete_links(null, $pageid);
1226
1227         //Delete page
1228         $params = array('id' => $pageid);
1229         $DB->delete_records('wikicode_pages', $params);
1230     }
1231 }
1232
1233 /**
1234  * Delete specificed versions of a page or versions created by users
1235  * if version is 0 then it will remove all versions of the page

```

```

1236 *
1237 * @param array $deleteversions delete versions for a page
1238 */
1239 function wikicode_delete_page_versions($deleteversions) {
1240     global $DB;
1241
1242     /// delete page-versions
1243     foreach ($deleteversions as $id => $versions) {
1244         foreach ($versions as $version) {
1245             $params = array('pageid' => $id);
1246             //If version = 0, then remove all versions of this page, else remove
1247             //specified version
1248             if ($version != 0) {
1249                 $params['version'] = $version;
1250             }
1251             $DB->delete_records('wikicode_versions', $params, IGNORE_MISSING);
1252         }
1253     }
1254 }
1255
1256 function wikicode_get_comment($commentid){
1257     global $DB;
1258     return $DB->get_record('comments', array('id' => $commentid));
1259 }
1260
1261 /**
1262  * Returns all comments by context and pageid
1263  *
1264  * @param $context. Current context
1265  * @param $pageid. Current pageid
1266  */
1267 function wikicode_get_comments($contextid, $pageid) {
1268     global $DB;
1269
1270     return $DB->get_records('comments', array('contextid' => $contextid, 'itemid'
        => $pageid, 'commentarea' => 'wikicode_page'));
1271 }
1272
1273 /**
1274  * Add comments ro database
1275  *
1276  * @param object $context. Current context
1277  * @param int $pageid. Current pageid
1278  * @param string $content. Content of the comment
1279  * @param string editor. Version of editor we are using.
1280  */
1281 function wikicode_add_comment($context, $pageid, $content, $editor) {
1282     global $CFG;
1283     require_once($CFG->dirroot . '/comment/lib.php');
1284
1285     list($context, $course, $cm) = get_context_info_array($context->id);
1286     $cmt = new stdClass();
1287     $cmt->context = $context;
1288     $cmt->itemid = $pageid;

```

```

1289     $cmt->area = 'wikicode_page';
1290     $cmt->course = $course;
1291     $cmt->component = 'mod_wikicode';
1292
1293     $manager = new comment($cmt);
1294
1295     if ($editor == 'creole') {
1296         $manager->add($content, FORMAT_CREOLE);
1297     } else if ($editor == 'html') {
1298         $manager->add($content, FORMAT_HTML);
1299     } else if ($editor == 'nwiki') {
1300         $manager->add($content, FORMAT_NWIKI);
1301     }
1302
1303 }
1304
1305 /**
1306  * Delete comments from database
1307  *
1308  * @param $idcomment. Id of comment which will be deleted
1309  * @param $context. Current context
1310  * @param $pageid. Current pageid
1311  */
1312 function wikicode_delete_comment($idcomment, $context, $pageid) {
1313     global $CFG;
1314     require_once($CFG->dirroot . '/comment/lib.php');
1315
1316     list($context, $course, $cm) = get_context_info_array($context->id);
1317     $cmt = new stdClass();
1318     $cmt->context = $context;
1319     $cmt->itemid = $pageid;
1320     $cmt->area = 'wikicode_page';
1321     $cmt->course = $course;
1322     $cmt->component = 'mod_wikicode';
1323
1324     $manager = new comment($cmt);
1325     $manager->delete($idcomment);
1326
1327 }
1328
1329 /**
1330  * Delete all comments from wiki
1331  *
1332  */
1333 function wikicode_delete_comments_wiki() {
1334     global $PAGE, $DB;
1335
1336     $cm = $PAGE->cm;
1337     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
1338
1339     $table = 'comments';
1340     $select = 'contextid = ?';
1341
1342     $DB->delete_records_select($table, $select, array($context->id));

```

```

1343 }
1344
1345
1346 function wikicode_add_progress($pageid, $oldversionid, $versionid, $progress) {
1347     global $DB;
1348     for ($v = $oldversionid + 1; $v <= $versionid; $v++) {
1349         $user = wikicode_get_wikicode_page_id($pageid, $v);
1350
1351         $DB->insert_record('wikicode_progress', array('userid' => $user->userid, '
            pageid' => $pageid, 'versionid' => $v, 'progress' => $progress));
1352     }
1353 }
1354
1355 function wikicode_get_wikicode_page_id($pageid, $id) {
1356     global $DB;
1357     return $DB->get_record('wikicode_versions', array('pageid' => $pageid, 'id' =>
        $id));
1358 }
1359
1360 function wikicode_print_page_content($page, $context, $subwikiid) {
1361     global $OUTPUT, $CFG;
1362
1363     if ($page->timerendered + WIKI_REFRESH_CACHE_TIME < time()) {
1364         $content = wikicode_refresh_cachedcontent($page);
1365         $page = $content['page'];
1366     }
1367
1368     if (isset($content)) {
1369         $box = '';
1370         foreach ($content['sections'] as $s) {
1371             $box .= '<p>' . get_string('repeatedsection', 'wikicode', $s) . '</p>';
1372         }
1373
1374         if (!empty($box)) {
1375             echo $OUTPUT->box($box);
1376         }
1377     }
1378
1379     $html = file_rewrite_pluginfile_urls(wikicode_remove_tags($page->cachedcontent)
        , 'pluginfile.php', $context->id, 'mod_wikicode', 'attachments', $subwikiid
        );
1380     $html = format_text($html, FORMAT_PLAIN, array('overflowdiv'=>true));
1381
1382     echo $OUTPUT->box($html);
1383
1384     if (!empty($CFG->usetags)) {
1385         $tags = tag_get_tags_array('wikicode_pages', $page->id);
1386         echo $OUTPUT->container_start('wiki-tags');
1387         echo '<span class="wiki-tags-title">'.get_string('tags').': </span>';
1388         $links = array();
1389         foreach ($tags as $tagid=>$tag) {
1390             $url = new moodle_url('/tag/index.php', array('tag'=>$tag));
1391             $links[] = html_writer::link($url, $tag, array('title'=>get_string('
                tagtitle', 'wiki', $tag)));

```

```

1392     }
1393     echo join($links, ", ");
1394     echo $OUTPUT->container_end();
1395 }
1396
1397     wikicode_increment_pageviews($page);
1398 }
1399
1400 /**
1401  * This function trims any given text and returns it with some dots at the end
1402  *
1403  * @param string $text
1404  * @param string $limit
1405  *
1406  * @return string
1407  */
1408 function wikicode_trim_string($text, $limit = 25) {
1409
1410     if (textlib::strlen($text) > $limit) {
1411         $text = textlib::substr($text, 0, $limit) . '...';
1412     }
1413
1414     return $text;
1415 }
1416
1417 /**
1418  * Prints default edit form fields and buttons
1419  *
1420  * @param string $format Edit form format (html, creole...)
1421  * @param integer $version Version number. A negative number means no versioning.
1422  */
1423
1424 function wikicode_print_edit_form_default_fields($format, $pageid, $version = -1,
1425     $upload = false, $deleteuploads = array()) {
1426     global $CFG, $PAGE, $OUTPUT;
1427
1428     echo '<input type="hidden" name="sesskey" value="' . sesskey() . '" />';
1429
1430     if ($version >= 0) {
1431         echo '<input type="hidden" name="version" value="' . $version . '" />';
1432     }
1433
1434     echo '<input type="hidden" name="format" value="' . $format . '" />';
1435
1436     //attachments
1437     require_once($CFG->dirroot . '/lib/form/filemanager.php');
1438
1439     $filemanager = new MoodleQuickForm_filemanager('attachments', get_string('
1440         wikiattachments', 'wikicode'), array('id' => 'attachments'), array('subdirs
1441         ' => false, 'maxfiles' => 99, 'maxbytes' => $CFG->maxbytes));
1442
1443     $value = file_get_submitted_draft_itemid('attachments');
1444     if (!empty($value) && !$upload) {
1445         $filemanager->setValue($value);

```

```

1443     }
1444
1445     echo "<fieldset class=\"wiki-upload-section clearfix\"><legend class=\"ftoggler
        \">\" . get_string("uploadtitle", 'wikicode') . "</legend>";
1446
1447     echo $OUTPUT->container_start('mdl-align wiki-form-center aaaaa');
1448     print $filemanager->toHtml();
1449     echo $OUTPUT->container_end();
1450
1451     $cm = $PAGE->cm;
1452     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
1453
1454     echo $OUTPUT->container_start('mdl-align wiki-form-center wiki-upload-table');
1455     wikicode_print_upload_table($context, 'wikicode_upload', $pageid,
        $deleteuploads);
1456     echo $OUTPUT->container_end();
1457
1458     echo "</fieldset>";
1459
1460     echo '<input class="wiki_button" type="submit" name="editoption" value="" .
        get_string('save', 'wikicode') . '"/>';
1461     echo '<input class="wiki_button" type="submit" name="editoption" value="" .
        get_string('upload', 'wikicode') . '"/>';
1462     echo '<input class="wiki_button" type="submit" name="editoption" value="" .
        get_string('preview') . '"/>';
1463     echo '<input class="wiki_button" type="submit" name="editoption" value="" .
        get_string('cancel') . '"/>';
1464 }
1465
1466 /**
1467  * Prints a table with the files attached to a wiki page
1468  * @param object $context
1469  * @param string $filearea
1470  * @param int $fileitemid
1471  * @param array deleteuploads
1472  */
1473 function wikicode_print_upload_table($context, $filearea, $fileitemid,
    $deleteuploads = array()) {
1474     global $CFG, $OUTPUT;
1475
1476     $htmltable = new html_table();
1477
1478     $htmltable->head = array(get_string('deleteupload', 'wikicode'), get_string('
        uploadname', 'wikicode'), get_string('uploadactions', 'wiki'));
1479
1480     $fs = get_file_storage();
1481     $files = $fs->get_area_files($context->id, 'mod_wikicode', $filearea,
        $fileitemid); //TODO: this is weird (skodak)
1482
1483     foreach ($files as $file) {
1484         if (!$file->is_directory()) {
1485             $checkbox = '<input type="checkbox" name="deleteupload[]" value="" .
                $file->get_pathnamehash() . '";
1486

```

```

1487         if (in_array($file->get_pathnamehash(), $deleteuploads)) {
1488             $checkbox .= ' checked="checked"';
1489         }
1490
1491         $checkbox .= " />";
1492
1493         $htmltable->data[] = array($checkbox, '<a href="' . file_encode_url(
1494             $CFG->wwwroot . '/pluginfile.php', '/' . $context->id . '/
1495             wikicode_upload/' . $fileitemid . '/' . $file->get_filename()) . '
1496             ">' . $file->get_filename() . '</a>', "");
1497     }
1498 }
1499
1500 print '<h3 class="upload-table-title">' . get_string('uploadfiletitle', '
1501     wikicode') . "</h3>";
1502
1503 print html_writer::table($htmltable);
1504 }
1505
1506 /**
1507  * Generate wiki's page tree
1508  *
1509  * @param $page. A wiki page object
1510  * @param $node. Starting navigation_node
1511  * @param $keys. An array to store keys
1512  * @return an array with all tree nodes
1513  */
1514 function wikicode_build_tree($page, $node, &$keys) {
1515     $content = array();
1516     static $icon;
1517     $icon = new pix_icon('f/odt', '');
1518     $pages = wikicode_get_linked_pages($page->id);
1519     foreach ($pages as $p) {
1520         $key = $page->id . ':' . $p->id;
1521         if (in_array($key, $keys)) {
1522             break;
1523         }
1524         array_push($keys, $key);
1525         $l = wikicode_parser_link($p);
1526         $link = new moodle_url('/mod/wikicode/view.php', array('pageid' => $p->id));
1527
1528         $nodeaux = $node->add($p->title, $link, null, null, null, $icon);
1529         if ($l['new']) {
1530             $nodeaux->add_class('wikicode_newentry');
1531         }
1532         wikicode_build_tree($p, $nodeaux, $keys);
1533     }
1534     $content[] = $node;
1535     return $content;
1536 }
1537
1538 /**
1539  * Get linked pages from page
1540  * @param int $pageid
1541  */

```



```

1536 function wikicode_get_linked_pages($pageid) {
1537     global $DB;
1538
1539     $sql = "SELECT p.id, p.title
1540           FROM {wikicode_pages} p
1541           JOIN {wikicode_links} l ON l.topageid = p.id
1542           WHERE l.frompageid = ?
1543           ORDER BY p.title ASC";
1544     return $DB->get_records_sql($sql, array($pageid));
1545 }
1546
1547 /**
1548  * Get updated pages from wiki
1549  * @param int $pageid
1550  */
1551 function wikicode_get_updated_pages_by_subwiki($swid) {
1552     global $DB, $USER;
1553
1554     $sql = "SELECT *
1555           FROM {wikicode_pages}
1556           WHERE subwikiid = ? AND timemodified > ?
1557           ORDER BY timemodified DESC";
1558     return $DB->get_records_sql($sql, array($swid, $USER->lastlogin));
1559 }

```

3.2.4. map.php

```

1  <?php
2
3  require_once('.../config.php');
4  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8  $pageid = required_param('pageid', PARAM_INT); // Page ID
9  $option = optional_param('option', 0, PARAM_INT); // Option ID
10
11  if (!$page = wikicode_get_page($pageid)) {
12      print_error('incorrectpageid', 'wikicode');
13  }
14  if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
15      print_error('incorrectsubwikiid', 'wikicode');
16  }
17  if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
18      print_error('invalidcoursemodule');
19  }
20  $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
21  if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
22      print_error('incorrectwikiid', 'wikicode');
23  }
24

```

```

25 require_login($course->id, true, $cm);
26 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
27 require_capability('mod/wikicode:viewpage', $context);
28 add_to_log($course->id, "wiki", "map", "map.php?id=$cm->id", "$wiki->id");
29
30 /// Print page header
31
32 /// Finish the page
33 $wikipage = new page_wikicode_map($wiki, $subwiki, $cm);
34
35 $wikipage->set_view($option);
36 $wikipage->set_page($page);
37 $wikipage->print_header();
38 $wikipage->print_content();
39
40 $wikipage->print_footer();

```

3.2.5. overridelocks.php

```

1  <?php
2
3  require_once('.../.../config.php');
4
5  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
7  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
8
9  $pageid = required_param('pageid', PARAM_INT);
10 $section = optional_param('section', '', PARAM_TEXT);
11
12 if (!$page = wikicode_get_page($pageid)) {
13     print_error('incorrectpageid', 'wikicode');
14 }
15
16 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
17     print_error('incorrectsubwikiid', 'wikicode');
18 }
19
20 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
21     print_error('incorrectwikiid', 'wikicode');
22 }
23
24 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
25     print_error('invalidcoursemodule');
26 }
27
28 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
29
30 if (!empty($section) && !$sectioncontent = wikicode_get_section_page($page,
31     $section)) {
32     print_error('invalidsection', 'wikicode');

```

```

32 }
33
34 require_login($course->id, true, $cm);
35
36 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
37 require_capability('mod/wikicode:overridelock', $context);
38
39 add_to_log($course->id, "wikicode", "overridelocks", "overridelocks.php?id=$cm->id"
40     , "$wiki->id");
41
42 if (!confirm_sesskey()) {
43     print_error(get_string('invalidsesskey', 'wikicode'));
44 }
45
46 $wikipage = new page_wikicode_overridelocks($wiki, $subwiki, $cm);
47 $wikipage->set_page($page);
48
49 if (!empty($section)) {
50     $wikipage->set_section($sectioncontent, $section);
51 }
52
53 $wikipage->print_header();
54
55 $wikipage->print_content();
56
57 $wikipage->print_footer();

```

3.2.6. prettyview.php

```

1  <?php
2
3  require_once('.../config.php');
4  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8  $pageid = required_param('pageid', PARAM_INT); // Page ID
9
10 if (!$page = wikicode_get_page($pageid)) {
11     print_error('incorrectpageid', 'wikicode');
12 }
13
14 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
15     print_error('incorrectsubwikiid', 'wikicode');
16 }
17
18 if (!$cm = get_coursemodule_from_instance("wikicode", $subwiki->wikiid)) {
19     print_error('invalidcoursemodule');
20 }
21
22 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
23
24 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
25     print_error('incorrectwikiid', 'wikicode');
26 }

```

```

23
24 require_login($course->id, true, $cm);
25
26 $context = get_context_instance(CONTEXT_MODULE, $cm->id);
27 require_capability('mod/wikicode:viewpage', $context);
28
29 add_to_log($course->id, "wikicode", "view", "prettyview.php?pageid=$pageid", "$wiki
    ->id");
30
31 $wikipage = new page_wikicode_prettyview($wiki, $subwiki, $cm);
32
33 $wikipage->set_page($page);
34
35 $wikipage->print_header();
36 $wikipage->print_content();
37 $wikipage->print_footer();

```

3.2.7. renderer.php

```

1 <?php
2
3 /**
4  * Moodle Wiki 2.0 Renderer
5  *
6  * @package    mod-wikicode
7  * @copyright  2010 Dongsheng Cai <dongsheng@moodle.com>
8  * @license    http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
9  */
10
11 defined('MOODLE_INTERNAL') || die();
12
13 class mod_wikicode_renderer extends plugin_renderer_base {
14     public function page_index() {
15         global $CFG;
16         $output = '';
17         // Checking wiki instance
18         if (!$wiki = wikicode_get_wiki($this->page->cm->instance)) {
19             return false;
20         }
21
22         // @TODO: Fix call to wikicode_get_subwiki_by_group
23         $gid = groups_get_activity_group($this->page->cm);
24         $gid = !empty($gid) ? $gid : 0;
25         if (!$subwiki = wikicode_get_subwiki_by_group($this->page->cm->instance,
26             $gid)) {
27             return false;
28         }
29         $swid = $subwiki->id;
30         $pages = wikicode_get_page_list($swid);
31         $selectoptions = array();
32         foreach ($pages as $page) {

```

```

32     $selectoptions[$page->id] = $page->title;
33 }
34 $label = get_string('pageindex', 'wikicode') . ': ';
35 $select = new single_select(new moodle_url('/mod/wikicode/view.php'), '
    pageid', $selectoptions);
36 $select->label = $label;
37 return $this->output->container($this->output->render($select), '
    wikicode_index');
38 }
39
40 public function search_result($records, $subwiki) {
41     global $CFG, $PAGE;
42     $table = new html_table();
43     $context = get_context_instance(CONTEXT_MODULE, $PAGE->cm->id);
44     $strsearchresults = get_string('searchresult', 'wikicode');
45     $totalcount = count($records);
46     $html = $this->output->heading("$strsearchresults $totalcount");
47     foreach ($records as $page) {
48         $table->head = array('title' => format_string($page->title) . ' (' .
            html_writer::link($CFG->wwwroot . '/mod/wikicode/view.php?pageid='
            . $page->id, get_string('view', 'wikicode')) . ')');
49         $table->align = array('title' => 'left');
50         $table->width = '100%';
51         $table->data = array(array(file_rewrite_pluginfile_urls(format_text(
            $page->cachedcontent, FORMAT_HTML), 'pluginfile.php', $context->id,
            'mod_wikicode', 'attachments', $subwiki->id)));
52         $table->colclasses = array('wikisearchresults');
53         $html .= html_writer::table($table);
54     }
55     $html = html_writer::tag('div', $html, array('class'=>'no-overflow'));
56     return $this->output->container($html);
57 }
58
59 public function diff($pageid, $old, $new, $options = array()) {
60     global $CFG;
61     if (!empty($options['total'])) {
62         $total = $options['total'];
63     } else {
64         $total = 0;
65     }
66     $diff1 = format_text($old->diff, FORMAT_HTML, array('overflowdiv'=>true));
67     $diff2 = format_text($new->diff, FORMAT_HTML, array('overflowdiv'=>true));
68     $strdatetime = get_string('strftimedatetime', 'langconfig');
69
70     $olduser = $old->user;
71     $versionlink = new moodle_url('/mod/wikicode/viewversion.php', array('
        pageid' => $pageid, 'versionid' => $old->id));
72     $restorelink = new moodle_url('/mod/wikicode/restoreversion.php', array('
        pageid' => $pageid, 'versionid' => $old->id));
73     $userlink = new moodle_url('/user/view.php', array('id' => $olduser->id));
74     // view version link
75     $oldversionview = ' ';
76     $oldversionview .= html_writer::link($versionlink->out(false), get_string('
        view', 'wikicode'), array('class' => 'wikicode_diffview'));

```

```

77     $oldversionview .= ' ';
78     // restore version link
79     $oldversionview .= html_writer::link($restorelink->out(false), get_string('
    restore', 'wikicode'), array('class' => 'wikicode_diffview'));
80
81     // userinfo container
82     $oldheading = $this->output->container_start('wikicode_diffuserleft');
83     // username
84     $oldheading .= html_writer::link($CFG->wwwroot . '/user/view.php?id=' .
    $olduser->id, fullname($olduser)) . '&nbsp;';
85     // user picture
86     $oldheading .= html_writer::link($userlink->out(false), $this->output->
    user_picture($olduser, array('popup' => true)), array('class' => '
    notunderlined'));
87     $oldheading .= $this->output->container_end();
88
89     // version number container
90     $oldheading .= $this->output->container_start('wikicode_diffversion');
91     $oldheading .= get_string('version') . ' ' . $old->version .
    $oldversionview;
92     $oldheading .= $this->output->container_end();
93     // userdate container
94     $oldheading .= $this->output->container_start('wikicode_diffftime');
95     $oldheading .= userdate($old->timecreated, $strdatetime);
96     $oldheading .= $this->output->container_end();
97
98     $newuser = $new->user;
99     $versionlink = new moodle_url('/mod/wikicode/viewversion.php', array('
    pageid' => $pageid, 'versionid' => $new->id));
100    $restorelink = new moodle_url('/mod/wikicode/restoreversion.php', array('
    pageid' => $pageid, 'versionid' => $new->id));
101    $userlink = new moodle_url('/user/view.php', array('id' => $newuser->id));
102
103    $newversionview = ' ';
104    $newversionview .= html_writer::link($versionlink->out(false), get_string('
    view', 'wikicode'), array('class' => 'wikicode_diffview'));
105    // new user info
106    $newheading = $this->output->container_start('wikicode_diffuserright');
107    $newheading .= $this->output->user_picture($newuser, array('popup' => true)
    );
108
109    $newheading .= html_writer::link($userlink->out(false), fullname($newuser),
    array('class' => 'notunderlined'));
110    $newheading .= $this->output->container_end();
111
112    // version
113    $newheading .= $this->output->container_start('wikicode_diffversion');
114    $newheading .= get_string('version') . '&nbsp;' . $new->version .
    $newversionview;
115    $newheading .= $this->output->container_end();
116    // userdate
117    $newheading .= $this->output->container_start('wikicode_diffftime');
118    $newheading .= userdate($new->timecreated, $strdatetime);
119    $newheading .= $this->output->container_end();

```

```

120
121     $oldheading = html_writer::tag('div', $oldheading, array('class'=>'wiki-
        diff-heading header clearfix'));
122     $newheading = html_writer::tag('div', $newheading, array('class'=>'wiki-
        diff-heading header clearfix'));
123
124     $output = '';
125     $output .= html_writer::start_tag('div', array('class'=>'wiki-diff-
        container clearfix'));
126     $output .= html_writer::tag('div', $oldheading.$diff1, array('class'=>'wiki-
        diff-leftside'));
127     $output .= html_writer::tag('div', $newheading.$diff2, array('class'=>'wiki-
        diff-rightside'));
128     $output .= html_writer::end_tag('div');
129
130     if (!empty($total)) {
131         $output .= '<div class="wikicode_diff_paging">';
132         $output .= $this->output->container($this->diff_paging_bar(1, $new->
            version - 1, $old->version, $CFG->wwwroot . '/mod/wikicode/diff.php
            ?pageid=' . $pageid . '&comparewith=' . $new->version . '&';
            , 'compare', false, true), 'wikicode_diff_oldpaging');
133         $output .= $this->output->container($this->diff_paging_bar($old->
            version + 1, $total, $new->version, $CFG->wwwroot . '/mod/wikicode/
            diff.php?pageid=' . $pageid . '&compare=' . $old->version . '&
            amp;', 'comparewith', false, true), 'wikicode_diff_newpaging');
134         $output .= '</div>';
135     }
136
137     return $output;
138 }
139
140 /**
141  * Prints a single paging bar to provide access to other versions
142  *
143  * @param int $minpage First page to be displayed in the bar
144  * @param int $maxpage Last page to be displayed in the bar
145  * @param int $page The page you are currently viewing
146  * @param mixed $baseurl If this is a string then it is the url which will be
        appended with $pagevar, an equals sign and the page number.
147  *
        If this is a moodle_url object then the pagevar
        param will be replaced by the page no, for each page.
148  * @param string $pagevar This is the variable name that you use for the page
        number in your code (ie. 'tablepage', 'blogpage', etc)
149  * @param bool $nocurr do not display the current page as a link
150  * @param bool $return whether to return an output string or echo now
151  * @return bool or string
152  */
153 public function diff_paging_bar($minpage, $maxpage, $page, $baseurl, $pagevar =
        'page', $nocurr = false) {
154     $totalcount = $maxpage - $minpage;
155     $maxdisplay = 2;
156     $output = '';
157
158     if ($totalcount > 0) {

```

```

159     $output .= '<div class="paging">';
160     $output .= get_string('version', 'wikicode') . ':';
161     if ($page - $minpage > 0) {
162         $pagenum = $page - 1;
163         if (!is_a($baseurl, 'moodle_url')) {
164             $output .= '&nbsp;<a class="previous" href="' . $baseurl .
                $pagevar . '=' . $pagenum . '>' . get_string('previous') .
                '</a>&nbsp;';
165         } else {
166             $output .= '&nbsp;<a class="previous" href="' . $baseurl->out(
                false, array($pagevar => $pagenum)) . '>' . get_string('
                previous') . '</a>&nbsp;';
167         }
168     }
169
170     if ($page - $minpage > 4) {
171         $startpage = $page - 3;
172         if (!is_a($baseurl, 'moodle_url')) {
173             $output .= '&nbsp;<a href="' . $baseurl . $pagevar . '=' .
                $minpage . '>' . $minpage . '</a>&nbsp;...';
174         } else {
175             $output .= '&nbsp;<a href="' . $baseurl->out(false, array(
                $pagevar => $minpage)) . '>' . $minpage . '</a>&nbsp;...';
176         }
177     } else {
178         $startpage = $minpage;
179     }
180     $currpage = $startpage;
181     $displaycount = 0;
182     while ($displaycount < $maxdisplay and $currpage <= $maxpage) {
183         if ($page == $currpage && empty($nocurr)) {
184             $output .= '&nbsp;&nbsp;';
185         } else {
186             if (!is_a($baseurl, 'moodle_url')) {
187                 $output .= '&nbsp;&nbsp;<a href="' . $baseurl . $pagevar .
                    '=' . $currpage . '>' . $currpage . '</a>';
188             } else {
189                 $output .= '&nbsp;&nbsp;<a href="' . $baseurl->out(false,
                    array($pagevar => $currpage)) . '>' . $currpage . '</a
                    >';
190             }
191
192             $displaycount++;
193             $currpage++;
194         }
195     }
196     if ($currpage < $maxpage) {
197         if (!is_a($baseurl, 'moodle_url')) {
198             $output .= '&nbsp;...<a href="' . $baseurl . $pagevar . '=' .
                $maxpage . '>' . $maxpage . '</a>&nbsp;';
199         } else {
200             $output .= '&nbsp;...<a href="' . $baseurl->out(false, array(
                $pagevar => $maxpage)) . '>' . $maxpage . '</a>&nbsp;';
201         }

```



```

202         } else if ($currpage == $maxpage) {
203             if (!is_a($baseurl, 'moodle_url')) {
204                 $output .= '&nbsp;&nbsp;&nbsp;<a href="' . $baseurl . $pagevar . '='
                        . $currpage . '">' . $currpage . '</a>';
205             } else {
206                 $output .= '&nbsp;&nbsp;&nbsp;<a href="' . $baseurl->out(false, array
                        ($pagevar => $currpage)) . '">' . $currpage . '</a>';
207             }
208         }
209         $pagenum = $page + 1;
210         if ($page != $maxpage) {
211             if (!is_a($baseurl, 'moodle_url')) {
212                 $output .= '&nbsp;&nbsp;&nbsp;<a class="next" href="' . $baseurl .
                        $pagevar . '=' . $pagenum . '">' . get_string('next') . '</
                        a>';
213             } else {
214                 $output .= '&nbsp;&nbsp;&nbsp;<a class="next" href="' . $baseurl->
                        out(false, array($pagevar => $pagenum)) . '">' . get_string
                        ('next') . '</a>';
215             }
216         }
217         $output .= '</div>';
218     }
219
220     return $output;
221 }
222 public function wikicode_info() {
223     global $PAGE;
224     return $this->output->box(format_module_intro('wikicode', $this->page->
        activityrecord, $PAGE->cm->id), 'generalbox', 'intro');
225 }
226
227 public function tabs($page, $stabitems, $options) {
228     global $CFG;
229     $tabs = array();
230     $baseurl = $CFG->wwwroot . '/mod/wikicode/';
231     $context = get_context_instance(CONTEXT_MODULE, $this->page->cm->id);
232
233     $pageid = null;
234     if (!empty($page)) {
235         $pageid = $page->id;
236     }
237
238     $selected = $options['activetab'];
239
240     // make specific tab linked even it is active
241     if (!empty($options['linkedwhenactive'])) {
242         $linked = $options['linkedwhenactive'];
243     } else {
244         $linked = '';
245     }
246
247     if (!empty($options['inactivetabs'])) {
248         $inactive = $options['inactivetabs'];

```

```

249     } else {
250         $inactive = array();
251     }
252
253     foreach ($stabitems as $stab) {
254         if ($stab == 'edit' && !has_capability('mod/wikicode:editpage', $context
255             )) {
256             continue;
257         }
258         if ($stab == 'comments' && !has_capability('mod/wikicode:viewcomment',
259             $context)) {
260             continue;
261         }
262         if ($stab == 'files' && !has_capability('mod/wikicode:viewpage',
263             $context)) {
264             continue;
265         }
266         if (($stab == 'view' || $stab == 'map' || $stab == 'history') && !
267             has_capability('mod/wikicode:viewpage', $context)) {
268             continue;
269         }
270         if ($stab == 'admin' && !has_capability('mod/wikicode:managewiki',
271             $context)) {
272             continue;
273         }
274         $link = $baseurl . $stab . '.php?pageid=' . $pageid;
275         if ($linked == $stab) {
276             $tabs[] = new tabobject($stab, $link, get_string($stab, 'wikicode'),
277                 '', true);
278         } else {
279             $tabs[] = new tabobject($stab, $link, get_string($stab, 'wikicode'));
280         }
281     }
282
283     return print_tabs(array($tabs), $selected, $inactive, null, true);
284 }
285
286 public function prettyview_link($page) {
287     $html = '';
288     $link = new moodle_url('/mod/wikicode/prettyview.php', array('pageid' =>
289         $page->id));
290     $html .= $this->output->container_start('wikicode_right');
291     $html .= $this->output->action_link($link, get_string('prettyprint', '
292         wikicode'), new popup_action('click', $link));
293     $html .= $this->output->container_end();
294     return $html;
295 }
296
297 public function wikicode_print_subwiki_selector($wiki, $subwiki, $page,
298     $pagetype = 'view') {
299     global $CFG, $USER;
300     require_once($CFG->dirroot . '/user/lib.php');
301     switch ($pagetype) {
302         case 'files':

```

```

294         $baseurl = new moodle_url('/mod/wikicode/files.php');
295         break;
296     case 'view':
297     default:
298         $baseurl = new moodle_url('/mod/wikicode/view.php');
299         break;
300     }
301
302     $cm = get_coursemodule_from_instance('wikicode', $wiki->id);
303     $context = get_context_instance(CONTEXT_MODULE, $cm->id);
304     // @TODO: A plenty of duplicated code below this lines.
305     // Create private functions.
306     switch (groups_get_activity_groupmode($cm)) {
307     case NOGROUPS:
308         if ($wiki->wikimode == 'collaborative') {
309             // No need to print anything
310             return;
311         } else if ($wiki->wikimode == 'individual') {
312             // We have private wikis here
313
314             $view = has_capability('mod/wikicode:viewpage', $context);
315             $manage = has_capability('mod/wikicode:managewiki', $context);
316
317             // Only people with these capabilities can view all wikis
318             if ($view && $manage) {
319                 // @TODO: Print here a combo that contains all users.
320                 $users = get_enrolled_users($context);
321                 $options = array();
322                 foreach ($users as $user) {
323                     $options[$user->id] = fullname($user);
324                 }
325
326                 echo $this->output->container_start('wikicode_right');
327                 $params = array('wid' => $wiki->id, 'title' => $page->title);
328                 if ($pagetype == 'files') {
329                     $params['pageid'] = $page->id;
330                 }
331                 $baseurl->params($params);
332                 $name = 'uid';
333                 $selected = $subwiki->userid;
334                 echo $this->output->single_select($baseurl, $name, $options,
335                     $selected);
336                 echo $this->output->container_end();
337             }
338             return;
339         } else {
340             // error
341             return;
342         }
343     case SEPARATEGROUPS:
344         if ($wiki->wikimode == 'collaborative') {
345             // We need to print a select to choose a course group
346
347             $params = array('wid'=>$wiki->id, 'title'=>$page->title);

```

```

347         if ($pagetype == 'files') {
348             $params['pageid'] = $page->id;
349         }
350         $baseurl->params($params);
351
352         echo $this->output->container_start('wikicode_right');
353         groups_print_activity_menu($cm, $baseurl->out());
354         echo $this->output->container_end();
355         return;
356     } else if ($wiki->wikimode == 'individual') {
357         // @TODO: Print here a combo that contains all users of that
358             subwiki.
359         $view = has_capability('mod/wikicode:viewpage', $context);
360         $manage = has_capability('mod/wikicode:managewiki', $context);
361
362         // Only people with these capabilities can view all wikis
363         if ($view && $manage) {
364             $users = get_enrolled_users($context);
365             $options = array();
366             foreach ($users as $user) {
367                 $groups = groups_get_all_groups($cm->course, $user->id);
368                 if (!empty($groups)) {
369                     foreach ($groups as $group) {
370                         $options[$group->id][$group->name][$group->id . '-' .
371                             $user->id] = fullname($user);
372                     }
373                 } else {
374                     $name = get_string('notingroup', 'wikicode');
375                     $options[0][$name]['0' . '-' . $user->id] = fullname(
376                         $user);
377                 }
378             }
379         } else {
380             $group = groups_get_group($subwiki->groupid);
381             $users = groups_get_members($subwiki->groupid);
382             foreach ($users as $user) {
383                 $options[$group->id][$group->name][$group->id . '-' . $user
384                     ->id] = fullname($user);
385             }
386         }
387         echo $this->output->container_start('wikicode_right');
388         $params = array('wid' => $wiki->id, 'title' => $page->title);
389         if ($pagetype == 'files') {
390             $params['pageid'] = $page->id;
391         }
392         $baseurl->params($params);
393         $name = 'groupanduser';
394         $selected = $subwiki->groupid . '-' . $subwiki->userid;
395         echo $this->output->single_select($baseurl, $name, $options,
396             $selected);
397         echo $this->output->container_end();
398
399         return;

```

```

396         } else {
397             // error
398             return;
399         }
400     CASE VISIBLEGROUPS:
401         if ($wiki->wikimode == 'collaborative') {
402             // We need to print a select to choose a course group
403             $params = array('wid'=>$wiki->id, 'title'=>urlencode($page->title))
404             ;
405             if ($pagetype == 'files') {
406                 $params['pageid'] = $page->id;
407             }
408             $baseurl->params($params);
409
410             echo $this->output->container_start('wikicode_right');
411             groups_print_activity_menu($cm, $baseurl->out());
412             echo $this->output->container_end();
413             return;
414         } else if ($wiki->wikimode == 'individual') {
415             $users = get_enrolled_users($context);
416             $options = array();
417             foreach ($users as $user) {
418                 $groups = groups_get_all_groups($cm->course, $user->id);
419                 if (!empty($groups)) {
420                     foreach ($groups as $group) {
421                         $options[$group->id][$group->name][$group->id . '-' .
422                             $user->id] = fullname($user);
423                     }
424                 } else {
425                     $name = get_string('notingroup', 'wikicode');
426                     $options[0][$name]['0' . '-' . $user->id] = fullname($user);
427                 }
428             }
429
430             echo $this->output->container_start('wikicode_right');
431             $params = array('wid' => $wiki->id, 'title' => $page->title);
432             if ($pagetype == 'files') {
433                 $params['pageid'] = $page->id;
434             }
435             $baseurl->params($params);
436             $name = 'groupanduser';
437             $selected = $subwiki->groupid . '-' . $subwiki->userid;
438             echo $this->output->single_select($baseurl, $name, $options,
439                 $selected);
440             echo $this->output->container_end();
441
442             return;
443         } else {
444             // error
445             return;
446         }

```

```

446         default:
447             // error
448             return;
449
450     }
451
452 }
453
454 function menu_map($pageid, $currentselect) {
455     $options = array('contributions', 'links', 'orphaned', 'pageindex', '
456         pagelist', 'updatedpages');
457     $items = array();
458     foreach ($options as $opt) {
459         $items[] = get_string($opt, 'wikicode');
460     }
461     $selectoptions = array();
462     foreach ($items as $key => $item) {
463         $selectoptions[$key + 1] = $item;
464     }
465     $select = new single_select(new moodle_url('/mod/wikicode/map.php', array('
466         pageid' => $pageid)), 'option', $selectoptions, $currentselect);
467     $select->label = get_string('mapmenu', 'wikicode') . ': ';
468     return $this->output->container($this->output->render($select), 'midpad');
469 }
470
471 public function wikicode_files_tree($context, $subwiki) {
472     return $this->render(new wikicode_files_tree($context, $subwiki));
473 }
474
475 public function render_wikicode_files_tree(wikicode_files_tree $tree) {
476     if (empty($tree->dir['subdirs']) && empty($tree->dir['files'])) {
477         $html = $this->output->box(get_string('nofilesavailable', 'repository')
478             );
479     } else {
480         $htmlid = 'wikicode_files_tree_' . uniqid();
481         $module = array('name'=>'mod_wikicode', 'fullpath'=>'/mod/wikicode/
482             module.js');
483         $this->page->requires->js_init_call('M.mod_wikicode.init_tree', array(
484             false, $htmlid), false, $module);
485         $html = '<div id="' . $htmlid . '>';
486         $html .= $this->htmlize_tree($tree, $tree->dir);
487         $html .= '</div>';
488     }
489     return $html;
490 }
491
492 function menu_admin($pageid, $currentselect) {
493     $options = array('removepages', 'deleteversions');
494     $items = array();
495     foreach ($options as $opt) {
496         $items[] = get_string($opt, 'wikicode');
497     }
498     $selectoptions = array();
499     foreach ($items as $key => $item) {
500         $selectoptions[$key + 1] = $item;
501     }

```

```

495     $select = new single_select(new moodle_url('/mod/wikicode/admin.php', array
496         ('pageid' => $pageid)), 'option', $selectoptions, $currentselect);
497     $select->label = get_string('adminmenu', 'wikicode') . ':' . ' ';
498     return $this->output->container($this->output->render($select), 'midpad');
499 }
500 /**
501  * Internal function - creates htmls structure suitable for YUI tree.
502  */
503 protected function htмлlize_tree($tree, $dir) {
504     global $CFG;
505     $yuiconfig = array();
506     $yuiconfig['type'] = 'html';
507
508     if (empty($dir['subdirs']) and empty($dir['files'])) {
509         return '';
510     }
511     $result = '<ul>';
512     foreach ($dir['subdirs'] as $subdir) {
513         $image = $this->output->pix_icon("f/folder", $subdir['dirname'], '
514             moodle', array('class'=>'icon'));
515         $result .= '<li yuiConfig=\'\' . json_encode($yuiconfig) . '\'\><div>'. $image
516             . ' '.s($subdir['dirname']).'</div> '. $this->htмлlize_tree($tree,
517                 $subdir).'</li>';
518     }
519     foreach ($dir['files'] as $file) {
520         $url = file_encode_url("$CFG->wwwroot/pluginfile.php", '/' . $tree->
521             context->id . '/mod_wiki/attachments/' . $tree->subwiki->id . '/' .
522             $file->get_filepath() . $file->get_filename(), true);
523         $filename = $file->get_filename();
524         $icon = mimeinfo("icon", $filename);
525         $image = $this->output->pix_icon("f/$icon", $filename, 'moodle', array(
526             'class'=>'icon'));
527         $result .= '<li yuiConfig=\'\' . json_encode($yuiconfig) . '\'\><div>'. $image
528             . ' '.html_writer::link($url, $filename).'</div></li>';
529     }
530     $result .= '</ul>';
531
532     return $result;
533 }
534
535 class wikicode_files_tree implements renderable {
536     public $context;
537     public $dir;
538     public $subwiki;
539     public function __construct($context, $subwiki) {
540         $fs = get_file_storage();
541         $this->context = $context;
542         $this->subwiki = $subwiki;
543         $this->dir = $fs->get_area_tree($context->id, 'mod_wikicode', 'attachments'
544             , $subwiki->id);
545     }
546 }

```

3.2.8. restoreversion.php

```

1  <?php
2
3  require_once('.../config.php');
4  require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6  require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8  $pageid = required_param('pageid', PARAM_INT);
9  $versionid = required_param('versionid', PARAM_INT);
10 $confirm = optional_param('confirm', 0, PARAM_BOOL);
11
12 if (!$page = wikicode_get_page($pageid)) {
13     print_error('incorrectpageid', 'wikicode');
14 }
15
16 if (!$subwiki = wikicode_get_subwiki($page->subwikiid)) {
17     print_error('incorrectsubwikiid', 'wikicode');
18 }
19
20 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
21     print_error('incorrectwikiid', 'wikicode');
22 }
23
24 if (!$cm = get_coursemodule_from_instance('wikicode', $wiki->id)) {
25     print_error('invalidcoursemodule');
26 }
27
28 $course = $DB->get_record('course', array('id' => $cm->course), '*', MUST_EXIST);
29
30 require_login($course->id, true, $cm);
31
32 add_to_log($course->id, "restore", "restore", "view.php?id=$cm->id", "$wiki->id");
33
34 if ($confirm) {
35     if (!confirm_sesskey()) {
36         print_error(get_string('invalidsesskey', 'wikicode'));
37     }
38     $wikipage = new page_wikicode_confirmrestore($wiki, $subwiki, $cm);
39     $wikipage->set_page($page);
40     $wikipage->set_versionid($versionid);
41 } else {
42
43     $wikipage = new page_wikicode_restoreversion($wiki, $subwiki, $cm);
44     $wikipage->set_page($page);
45     $wikipage->set_versionid($versionid);
46
47

```



```
48 }
49
50 $wikipage->print_header();
51 $wikipage->print_content();
52
53 $wikipage->print_footer();
```

3.2.9. search.php

```
1 <?php
2
3 require_once('.../config.php');
4 require_once($CFG->dirroot . '/mod/wikicode/lib.php');
5 require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
6 require_once($CFG->dirroot . '/mod/wikicode/pagelib.php');
7
8 $search = optional_param('searchstring', null, PARAM_ALPHANUMEXT);
9 $courseid = optional_param('courseid', 0, PARAM_INT);
10 $searchcontent = optional_param('searchwikicontent', 0, PARAM_INT);
11 $cmid = optional_param('cmid', 0, PARAM_INT);
12
13 if (!$course = $DB->get_record('course', array('id' => $courseid))) {
14     print_error('invalidcourseid');
15 }
16 if (!$cm = get_coursemodule_from_id('wikicode', $cmid)) {
17     print_error('invalidcoursemodule');
18 }
19
20 require_login($course, true, $cm);
21
22 // @TODO: Fix call to wikicode_get_subwiki_by_group
23 if (!$gid = groups_get_activity_group($cm)) {
24     $gid = 0;
25 }
26 if (!$subwiki = wikicode_get_subwiki_by_group($cm->instance, $gid)) {
27     return false;
28 }
29 if (!$wiki = wikicode_get_wiki($subwiki->wikiid)) {
30     print_error('incorrectwikiid', 'wikicode');
31 }
32
33 $wikipage = new page_wikicode_search($wiki, $subwiki, $cm);
34
35 $wikipage->set_search_string($search, $searchcontent);
36
37 $wikipage->set_title(get_string('search'));
38
39 $wikipage->print_header();
40
41 $wikipage->print_content();
42
```

```
43 | $wikiPage->print_footer();
```

Capítulo 4

Módulo para Moodle 1.x

4.1. Front-End

4.1.1. wikichat.php

```
1  <?php
2
3  require_once($CFG->dirroot.'/lib/formslib.php');
4  require_once($CFG->dirroot.'/lib/form/text.php');
5
6  class MoodleQuickForm_Wikichat extends MoodleQuickForm_text {
7
8      private $itemid;
9
10     function MoodleQuickForm_Wikichat($elementName = null, $elementLabel = null,
11         $attributes = null) {
12         $this->itemid = $attributes['itemid'];
13     }
14
15     function setWikiFormat($wikiFormat) {
16         $this->wikiFormat = $wikiFormat;
17     }
18
19     function toHtml() {
20         $chat = $this->getChat();
21
22         return $chat;
23     }
24
25     private function getChat() {
26         global $PAGE, $OUTPUT, $CFG, $USER;
27
28         $itemid = $this->itemid;
```

```

29     $html = "<link type=\"text/css\" rel=\"stylesheet\" href=\"chat/style.
        css\" />";
30
31     $html .= "<div id=\"wrapper\">";
32     $html .= "<div id=\"menu\">";
33     $html .= "    <div style=\"clear:both\"></div>";
34     $html .= "</div>";
35     $html .= "<div id=\"chatbox\">";
36
37     if(file_exists("chat/logs/log_".$itemid.".html") && filesize("chat/logs
        /log_".$itemid.".html") > 0){
38
39         $handle = fopen("chat/logs/log_".$itemid.".html", "r");
40         $contents = fread($handle, filesize("chat/logs/log_".
            $itemid.".html"));
41         fclose($handle);
42
43         $html .= $contents;
44     }
45
46     $html .= "</div>
47 ";
48
49     $html .= "        <input name=\"usermsg\" type=\"text\" id=\"usermsg
        \" />
50 ";
51     $html .= "        <input name=\"submitmsg\" type=\"submit\" id=\"
        submitmsg\" value=\"Send\" />
52 ";
53
54     $html .= "</div>
55 ";
56
57     /*$html .= "<script type=\"text/javascript\" src=\"http://ajax.
        googleapis.com/ajax/libs/jquery/1.3/jquery.min.js\"></script>
58 ";*/
59     $html .= "<script type=\"text/javascript\">
60 ";
61     // jQuery Document
62     $html .= "$(document).ready(function(){
63         ";
64
65     //If user submits the form
66     $html .= "        \"$(\"#submitmsg\").click(function(){
67         ";
68     $html .= "            \"var clientmsg = $(\"#usermsg\").val();
69     ";
70     $html .= "            \"$.post(\"chat/post.php\", {text: clientmsg
        , itemid: \"\".$itemid.\"\", user: \"\".$USER->username.\"\"});
71     ";
72     $html .= "            \"$(\"#usermsg\").attr(\"value\", \"\");
73     ";
74     $html .= "            \"return false;
75     ";

```

```

76         $html .=         "});";
77         ";
78
79         //Load the file containing the chat log
80         $html .=         "function loadLog(){
81         ";
82         $html .=         "var oldscrollHeight = $('\"#chatbox\"").attr
83         (\"scrollHeight\") - 20;
84         ";
85         $html .=         "$.ajax({
86         ";
87         $html .=         "url: \"chat/logs/log_\".$itemid.\".
88         html\",
89         ";
90         $html .=         "cache: false,
91         ";
92         $html .=         "success: function(html){
93         ";
94         $html .=         "    \"$(\"#chatbox\").html(html)
95         ";
96         ";
97         $html .=         "    //Insert chat log into the #chatbox div
98         $html .=         "var newscrollHeight = $
99         (\"#chatbox\").attr(\"scrollHeight\") - 20;
100        ";
101        $html .=         "if(newscrollHeight >
102        oldscrollHeight){
103        ";
104        $html .=         "    \"$(\"#chatbox\").
105        animate({ scrollTop: newscrollHeight }, 'normal');
106        "; //Autoscroll to bottom of div
107        $html .=         "    }
108        ";
109        $html .=         "},
110        ";
111        $html .=         "});
112        ";
113        $html .=         "setInterval (loadLog , 2500);
114        "; //Reload file every 2.5 seconds
115        $html .=         "});";
116        ";
117        $html .=         "</script>
118        ";
119        return $html;
120    }
121
122    //register wikieditor
123    MoodleQuickForm::registerElementType('wikicodechat', $CFG->dirroot."/mod/wikicode/
    editors/wikichat.php", 'MoodleQuickForm_Wikichat');

```

4.1.2. wikieditor.php

```
1  <?php
2
3  require_once($CFG->dirroot.'/lib/formslib.php');
4  require_once($CFG->dirroot.'/lib/form/textarea.php');
5
6  class MoodleQuickForm_Wikieditor extends MoodleQuickForm_textarea {
7
8      private $files;
9
10     function MoodleQuickForm_Wikieditor($elementName = null, $elementLabel = null,
11         $attributes = null) {
12         if (isset($attributes['Wiki_format'])) {
13             $this->wikiFormat = $attributes['Wiki_format'];
14             unset($attributes['Wiki_format']);
15         }
16         if (isset($attributes['files'])) {
17             $this->files = $attributes['files'];
18             unset($attributes['files']);
19         }
20         parent::MoodleQuickForm_textarea($elementName, $elementLabel, $attributes);
21     }
22
23     function setWikiFormat($wikiFormat) {
24         $this->wikiFormat = $wikiFormat;
25     }
26
27     function toHtml() {
28         $textarea = parent::toHtml();
29
30         return $this->{
31             $this->wikiFormat."Editor"
32         }($textarea);
33     }
34
35     function creoleEditor($textarea) {
36         return $this->printWikiEditor($textarea);
37     }
38
39     function nwikiEditor($textarea) {
40         return $this->printWikiEditor($textarea);
41     }
42
43     function wcodeEditor($textarea) {
44         global $OUTPUT;
45
46         $textarea = $OUTPUT->container_start().$textarea.$OUTPUT->container_end();
47         $editor = $this->getEditor();
48
49         return $textarea.$editor;
50     }
```

```

51     }
52
53     private function printWikiEditor($textarea) {
54         global $OUTPUT;
55
56         $textarea = $OUTPUT->container_start().$textarea.$OUTPUT->container_end();
57
58         $buttons = $this->getButtons();
59
60         return $buttons.$textarea;
61     }
62
63     private function getEditor() {
64         global $PAGE, $OUTPUT, $CFG;
65
66         $editor = $this->wikiFormat;
67
68         $PAGE->requires->js('/mod/wikicode/js/php.js');
69         $PAGE->requires->js('/mod/wikicode/js/codemirror.js');
70
71
72         $html .= "<script src=\"js/php.js\" type=\"text/javascript\"></script>";
73         $html .= "<script src=\"js/jquery.js\" type=\"text/javascript\"></script>";
74         $html .= "<script src=\"js/unlock.js\" type=\"text/javascript\"></script>";
75
76         $html .= "<link rel=\"stylesheet\" type=\"text/css\"/>";
77         $html .= "<style type=\"text/css\">";
78         $html .= " .CodeMirror-line-numbers {";
79         $html .= "     width: 2.2em;";
80         $html .= "     color: #aaa;";
81         $html .= "     background-color: #eee;";
82         $html .= "     text-align: right;";
83         $html .= "     padding-right: .3em;";
84         $html .= "     font-size: 10pt;";
85         $html .= "     font-family: monospace;";
86         $html .= "     padding-top: .5em;";
87         $html .= "}";
88         $html .= "</style>";
89
90         $html .= "<script type=\"text/javascript\">";
91         $html .= "var editor = CodeMirror.fromTextArea('";
92             id_newcontent', {";
93             parserfile: \"parseC.js\",";
94             stylesheet: \"css/Ccolors.css\",";
95             path: \"js/\",";
96             continuousScanning: 500,\"";
97         $html .= "height: \"450px\",";
98         $html .= "lineNumbers: true\"";
99         $html .= "});";
100        $html .= "</script>";

```

```

101         return $html;
102
103     }
104
105     private function getButtons() {
106         global $PAGE, $OUTPUT, $CFG;
107
108         $editor = $this->wikiformat;
109
110         $tag = $this->getTokens($editor, 'bold');
111         $Wiki_editor['bold'] = array('ed_bold.gif', get_string('wikiboldtext', 'Wikicode'), $tag[0], $tag[1], get_string('wikiboldtext', 'Wikicode'));
112
113         $Wiki_editor['italic'] = array('ed_italic.gif', get_string('wikiitalictext', 'Wikicode'), $tag[0], $tag[1], get_string('wikiitalictext', 'Wikicode'));
114
115         $Wiki_editor['image'] = array('ed_img.gif', get_string('wikiimage', 'Wikicode'), $imasetag[0], $imasetag[1], get_string('wikiimage', 'Wikicode'));
116
117         $Wiki_editor['internal'] = array('ed_internal.gif', get_string('wikiinternalurl', 'Wikicode'), $tag[0], $tag[1], get_string('wikiinternalurl', 'Wikicode'));
118
119         $Wiki_editor['external'] = array('ed_external.gif', get_string('wikiexternalurl', 'Wikicode'), $tag, "", get_string('wikiexternalurl', 'Wikicode'));
120
121         $Wiki_editor['u_list'] = array('ed_ul.gif', get_string('wikiunorderedlist', 'Wikicode'), '\\n'. $tag[0], '', '');
122         $Wiki_editor['o_list'] = array('ed_ol.gif', get_string('wikiorderedlist', 'Wikicode'), '\\n'. $tag[1], '', '');
123
124         $Wiki_editor['h1'] = array('ed_h1.gif', get_string('wikiheader', 'Wikicode', 1), '\\n'. $tag.' ', ' '. $tag.'\\n', get_string('wikiheader', 'Wikicode', 1));
125         $Wiki_editor['h2'] = array('ed_h2.gif', get_string('wikiheader', 'Wikicode', 2), '\\n'. $tag.$tag.' ', ' '. $tag.$tag.'\\n', get_string('wikiheader', 'Wikicode', 2));
126         $Wiki_editor['h3'] = array('ed_h3.gif', get_string('wikiheader', 'Wikicode', 3), '\\n'. $tag.$tag.$tag.' ', ' '. $tag.$tag.$tag.'\\n', get_string('wikiheader', 'Wikicode', 3));
127
128         $Wiki_editor['hr'] = array('ed_hr.gif', get_string('wikihr', 'Wikicode'), '\\n'. $tag.'\\n', '', '');
129
130         $Wiki_editor['nowiki'] = array('ed_nowiki.gif', get_string('wikiplaintext', 'Wikicode'), $tag[0], $tag[1], get_string('wikiplaintext', 'Wikicode'));
131
132         $PAGE->requires->js('/mod/wikicode/editors/wikicode/buttons.js');
133
134         $html = '<div class="wikieditor-toolbar">';

```



```

135     foreach ($Wiki_editor as $button) {
136         $html .= "<a href=\"javascript:insertTags\";
137         $html .= \"('\".$button[2].\"'\", '\".$button[3].\"'\", '\".$button[4].\"'\");\">\";
138         $html .= html_writer::empty_tag('img', array('alt' => $button[1], 'src'
            => $CFG->wwwroot . '/mod/wikicode/editors/wikicode/images/' .
            $button[0]));
139         $html .= "</a>\";
140     }
141     $html .= "<select onchange=\"insertTags('{$_imagetag[0]}', '{$_imagetag[1]}',
        this.value)\">\";
142     $html .= "<option value=\"\" . s(get_string('wikiimage', 'Wikicode')) . \">\"
        . get_string('insertimage', 'Wikicode') . \"</option>\";
143     foreach ($this->files as $filename) {
144         $html .= "<option value=\"\".s($filename).\">\";
145         $html .= $filename;
146         $html .= \"</option>\";
147     }
148     $html .= \"</select>\";
149     $html .= $OUTPUT->help_icon('insertimage', 'Wikicode');
150     $html .= \"</div>\";
151
152     return $html;
153 }
154
155 private function getTokens($format, $token) {
156     $tokens = Wikicode_parser_get_token($format, $token);
157
158     if (is_array($tokens)) {
159         foreach ($tokens as &$t) {
160             $this->escapeToken($t);
161         }
162     } else {
163         $this->escapeToken($tokens);
164     }
165
166     return $tokens;
167 }
168
169 private function escapeToken(&$token) {
170     $token = urlencode(str_replace("\"", "\"'", $token));
171 }
172 }
173
174 //register wikieditor
175 MoodleQuickForm::registerElementType('wikicodeeditor', $CFG->dirroot."/mod/wikicode
    /editors/wikieditor.php", 'MoodleQuickForm_Wikieditor');

```

4.2. Back-End PHP

4.2.1. chat/post.php

```

1 <?php
2     $text = $_POST['text'];
3
4     if (file_exists("logs/log_".$_POST['itemid'].".html")) {
5         $fp = fopen("logs/log_".$_POST['itemid'].".html", 'a');
6     }
7     else {
8         $fp = fopen("logs/log_".$_POST['itemid'].".html", 'w');
9     }
10    fwrite($fp, "<div class='msgln'>(".date("g:i A").") <b>".$_POST['user']. "</b>: ".stripslashes(htmlspecialchars($text))."<br></div>");
11    fclose($fp);
12 ?>

```

4.2.2. editorlib.php

```

1 <?php
2
3 /**
4  * @author Antonio J. Gonzalez
5  * @package mod-wikicode
6  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
7  */
8 require_once('.../config.php');
9 require_once($CFG->dirroot . '/mod/wikicode/editorlibfn.php');
10
11 $editorCode = $_GET["codigo"];
12 $position = $_GET["position"];
13 $pageid = $_GET["pageid"];
14 $mode = $_GET["mode"];
15 $del = $_GET["del"];
16 $char_del = $_GET["char_del"];
17
18 if ($char_del == '}' || $char_del == '{') {
19     $mode = 2;
20 }
21
22 switch ($mode) {
23     case 0:
24         $return["code"] = "test";
25         break;
26     case 1: //Procedure when user push a key into the editor
27         $return = keyPress($editorCode, $position, $pageid, $del);
28         break;
29     case 2: //Procedure when user remove a need-part

```

```

30         $return = removePairKey($editorCode, $position, $pageid, $char_del);
31         break;
32     case 3: //Unlock function
33         $return = unlockFunctionDB($editorCode, $pageid);
34         break;
35 }
36
37 echo json_encode($return);
38
39 ?>

```

4.2.3. editorlibfn.php

```

1  <?php
2
3  /**
4   * @author Antonio J. Gonzalez
5   * @package mod-wikicode
6   * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
7   */
8
9  require_once('.../config.php');
10 require_once($CFG->dirroot . '/mod/wikicode/lib.php');
11
12 function salto_linea() {echo "<br>";}
13 function mostrar_variable($variable, $titulo) {echo $titulo.: ".$variable;
14     salto_linea(); }
15
16 function escribir_fichero($cadena) {$file = fopen("fichero_prueba.txt","a"); fputs(
17     $file, $cadena); fclose($file); }
18
19 /**
20 * @param string $codigo
21 *
22 * @return string New code
23 */
24 function deleteEnterRepeat($codigo) {
25
26     $codigo = str_replace(chr(13) . chr(10), chr(10), $codigo);
27
28     $return = "";
29
30     for($i=0; $i<strlen($codigo); $i++) {
31         if (substr($codigo, $i - 1, 1) != chr(10) || substr($codigo, $i, 1)
32             != chr(10) || substr($codigo, $i+1, 1) != chr(10) || substr(
33                 $codigo, $i+2, 1) != chr(10)) {
34             $return = $return . substr($codigo, $i, 1);
35         }
36     }
37
38     $return = str_replace(chr(10), chr(13) . chr(10), $return);
39
40 }

```

```

35         return $return;
36     }
37
38     /**
39      * Return function name in a determinate cursor position
40      *
41      * @param string $codigo Full source code
42      * @param int $posicion Character Position
43      */
44     function getFunction($codigo, $posicion) {
45
46         //First. Level of the character.
47         $level = getLevel($codigo, $posicion);
48         $help_cursor = $posicion;
49
50         //When level=0, cursor is out any function. Get next function.
51         if ($level == 0) {
52             while ($level == 0 && $help_cursor <= strlen($codigo)) {
53                 $help_cursor++;
54                 $level = getLevel($codigo, $help_cursor);
55             }
56         }
57
58         if ($level == 0) {return FALSE;} //There isnt any function in the code
59
60         //Function Start
61         while (getLevel($codigo, $help_cursor) > 0) {
62
63             $cursor_lu = strrpos(substr($codigo, 0, $help_cursor), "{");
64             $cursor_ld = strrpos(substr($codigo, 0, $help_cursor), "}");
65
66             if (!$cursor_lu) {$cursor_lu=0;}
67             if (!$cursor_ld) {$cursor_ld=0;}
68
69             if ($cursor_lu > $cursor_ld) {
70                 $help_cursor = $cursor_lu;
71             }
72             else {
73                 $help_cursor = $cursor_ld;
74             }
75
76         }
77
78         //Get function name
79         $end_cursor = strrpos(substr($codigo, 0, $help_cursor), "(");
80         while (substr($codigo, $end_cursor-1, 1) == " ") {
81             $end_cursor = $end_cursor - 1;
82         }
83
84         $init_cursor = strrpos(substr($codigo, 0, $end_cursor), " ");
85         $init_cursor_aux = strrpos(substr($codigo, 0, $end_cursor), chr(10));
86
87         if ($init_cursor_aux > $init_cursor) {$init_cursor = $init_cursor_aux;} //
            When main declaration have not object type

```

```

88
89     $function_name = substr($codigo, $init_cursor, $end_cursor-$init_cursor);
90
91     return trim($function_name);
92 }
93
94 /**
95  * Return level indexation in a determinate cursor position
96  *
97  * @param string $codigo Full source code
98  * @param int $posicion Character Position
99  */
100 function getLevel($codigo, $posicion) {
101
102     $subcodigo = substr($codigo, 0, $posicion);
103
104     $levelup = substr_count($subcodigo, "{");
105     $leveldown = substr_count($subcodigo, "}");
106
107     $level = $levelup - $leveldown;
108
109     return $level;
110 }
111
112 /**
113  * Return True is a determinated function is locked.
114  *
115  * @param string $codigo Full source code
116  * @param string $function Function name
117  */
118 function isLocked($codigo, $function) {
119
120     //Starting code in main function, ignoring declarations
121     $pos_main = strpos(strtolower($codigo), "main");
122     $subcodigo = substr($codigo, $pos_main);
123
124     //Special case: Main function
125     if (strtolower($function) == "main") {
126
127         $lock = strpos(substr($codigo, 0, $pos_main), "<!");
128
129         if (is_numeric($lock)) {
130             return TRUE;
131         }
132         return FALSE;
133     }
134
135     //Get position of function start
136     $end_cursor = strpos($subcodigo, $function);
137     $level = getLevel($codigo, $pos_main + $end_cursor);
138
139     while ($level > 0) {
140         $end_cursor = strpos($subcodigo, $function, $end_cursor + 1);
141         $level = getLevel($codigo, $pos_main + $end_cursor);

```

```

142     }
143
144     $init_cursor = strrpos(substr($subcodigo,0,$end_cursor),"}");
145     $subcadena = substr($subcodigo, $init_cursor, $end_cursor - $init_cursor);
146
147     //Search the locking-tag
148     $lock = strpos($subcadena, "<!");
149
150     if (is_numeric($lock)) {
151         return TRUE;
152     }
153
154     return FALSE;
155 }
156
157 /**
158  * Return True is a determinated function is locked by the user.
159  *
160  * @param string $codigo Full source code
161  * @param string $function Function name
162  */
163 function isLockedByUser($codigo, $function) {
164
165     global $USER;
166
167     //Starting code in main function, ignoring declarations
168     $pos_main = strpos(strtolower($codigo),"main");
169     $subcodigo = substr($codigo, $pos_main);
170
171     //Special case: Main function
172     if (strtolower($function) == "main") {
173
174         $lock = strpos(substr($codigo, 0, $pos_main), "<!". $USER->username)
175             ;
176
177         if (is_numeric($lock)) {
178             return TRUE;
179         }
180         return FALSE;
181     }
182
183     //Get position of function start
184     $end_cursor = strpos($subcodigo, $function);
185     $level = getLevel($codigo, $pos_main + $end_cursor);
186
187     while ($level > 0) {
188         $end_cursor = strpos($subcodigo, $function, $end_cursor + 1);
189         $level = getLevel($codigo, $pos_main + $end_cursor);
190     }
191
192     $init_cursor = strrpos(substr($subcodigo,0,$end_cursor),"}");
193     $subcadena = substr($subcodigo, $init_cursor, $end_cursor - $init_cursor);
194
195     //Search the locking-tag

```

```

195     $lock = strpos($subcadena, "<!". $USER->username);
196
197     if (is_numeric($lock)) {
198         return TRUE;
199     }
200
201     return FALSE;
202 }
203
204 /**
205  * Lock a determinate function into a source-code
206  *
207  * @param string $codigo Full source-code
208  * @param string $function Function name
209  * @param string $user User who is blocking function
210  * @param int $pos_end Optional Param. Force cursor position end_lock.
211  *
212  * @return Source-code with new lock tag. False if is not possible.
213  */
214 function lockFunction($codigo, $function, $user, $pos_end="") {
215
216     $obviar=array(chr(10), chr(13), chr(32));
217
218     if (isLocked($codigo, $function)) {
219         return FALSE;
220     }
221
222     if (strtolower($function) == 'main') {
223
224         $init_cursor = 0;
225         $pos_main = 0;
226
227         while (in_array(substr($codigo,$init_cursor, 1),$obviar) ) {
228             $init_cursor++;
229         }
230
231         $end_cursor = strpos($codigo, "}", $init_cursor);
232         if ($end_cursor==FALSE) {$end_cursor=strlen($codigo);}
233
234         $level = getLevel($codigo, $end_cursor);
235
236         while ($level > 0) {
237             $end_cursor = strpos($codigo, "}", $end_cursor) + 1;
238             $level = getLevel($codigo, $end_cursor);
239         }
240     }
241     else
242     {
243         //Starting code in main function, ignoring declarations
244         $pos_main = strpos(strtolower($codigo),"main");
245         $subcodigo = substr($codigo, $pos_main);
246
247         //Get position of function start
248

```

```

249         $end_cursor = strpos($subcodigo, $function);
250         $level = getLevel($codigo, $pos_main + $end_cursor);
251
252         while ($level > 0) {
253             $end_cursor = strpos($subcodigo, $function, $end_cursor +
254                                   1);
255             $level = getLevel($codigo, $pos_main + $end_cursor);
256         }
257
258         $init_cursor = strrpos(substr($subcodigo, 0, $end_cursor), "}");
259
260         if (substr($codigo, $pos_main + $init_cursor + 1, 4) == "</!>") {
261             $init_cursor = $init_cursor + 4;}
262
263         while (in_array(substr($codigo, $pos_main + $init_cursor + 1, 1),
264                       $obviar) ) {
265             $init_cursor++;
266         }
267
268         $end_cursor = $pos_main + $end_cursor;
269         $end_cursor = strpos($codigo, "}", $end_cursor);
270         if ($end_cursor==FALSE) {
271             $end_cursor=strlen($codigo);
272         } else {
273             $end_cursor = $end_cursor + 1;
274         }
275
276         $level = getLevel($codigo, $end_cursor);
277
278         while ($level > 0) {
279             $end_cursor = strpos($codigo, "}", $end_cursor) + 1;
280             $level = getLevel($codigo, $end_cursor);
281         }
282
283         $init_cursor++;
284     }
285
286     if ($pos_end != "") {$end_cursor = $pos_end;}
287
288     $return = substr($codigo, 0, $init_cursor + $pos_main);
289     $return .= "<!";
290     $return .= $user;
291     $return .= ">";
292     $return .= substr($codigo, $init_cursor + $pos_main, $end_cursor -
293                       $init_cursor - $pos_main);
294     $return .= "</!>";
295     $return .= substr($codigo, $end_cursor);
296
297     return $return;
298 }
299
300 /**
301  * Unlock a determinate function into a source-code

```



```

299  *
300  * @param string $codigo Full source-code
301  * @param string $function Function name
302  *
303  * @return string Source-code without lock tag. False if is not locked.
304  */
305  function unlockFunction($codigo, $function) {
306
307      if (!isLocked($codigo, $function)) {
308          return FALSE;
309      }
310
311      $pos_main = strpos(strtolower($codigo), "main");
312
313      if (strtolower($function) == "main") {
314          $init_start = strrpos(substr($codigo, 0, $pos_main), "<!");
315          $end_start = strpos($codigo, ">", $init_start);
316          $init_ending = strpos($codigo, "</!>", $pos_main);
317      }
318      else {
319          $subcodigo = substr($codigo, $pos_main);
320
321          $init_start = strpos($subcodigo, $function);
322          $level = getLevel($codigo, $pos_main + $init_start);
323
324          while ($level > 0) {
325              $init_start = strpos($subcodigo, $function, $init_start +
326                                  1);
327              $level = getLevel($codigo, $pos_main + $init_start);
328          }
329
330          $init_start = strrpos(substr($codigo, 0, $pos_main + $init_start),
331                                "<!");
332          $end_start = strpos($codigo, ">", $init_start);
333          $init_ending = strpos($codigo, "</!>", $end_start);
334
335          $return = substr($codigo, 0, $init_start);
336          $return .= substr($codigo, $end_start + 1, $init_ending - $end_start - 1);
337          $return .= substr($codigo, $init_ending + 4);
338
339          return $return;
340      }
341
342  /**
343   * Returned all functions that are being locked by a determined user
344   *
345   * @param string $codigo Full source-code
346   * @param string $user Username
347   *
348   * @return array Function names
349   */
350  function getLocksByUser($codigo, $user) {
351      $functions = array();

```

```

351
352     $lock = strpos($codigo, "<!". $user.">");
353
354     if (is_bool($lock)) {return false;}
355
356     while (is_numeric($lock)) {
357         array_push($functions, getFunction($codigo, $lock));
358         $lock = strpos($codigo, "<!". $user.">", $lock + 1);
359     }
360
361     return $functions;
362 }
363
364 /**
365  * Return init char-position of a function locked
366  *
367  * @param string $codigo Full source-code
368  * @param string $function Function name
369  *
370  * @return int Character position
371  */
372 function getInitFunctionLock($codigo, $function) {
373
374     if (!isLocked($codigo, $function)) {return false;}
375
376     if (strtolower($function) == 'main') {
377         $pos = strpos($codigo, "<!");
378     }
379     else {
380         $pos_main = strpos(strtolower($codigo), "main");
381         $subcode = substr($codigo, $pos_main);
382
383         $pos = strpos($subcode, $function);
384         $level = getLevel($codigo, $pos + $pos_main);
385
386         while ($level > 0) {
387             $pos = strpos($subcode, $function, $pos + 1);
388             $level = getLevel($codigo, $pos + $pos_main);
389         }
390         $pos = strrpos(substr($codigo, 0, $pos_main + $pos), "<!");
391
392     }
393
394     return $pos;
395 }
396
397 /**
398  * Return ending char-position of a function locked
399  *
400  * @param string $codigo Full source-code
401  * @param string $function Function name
402  *
403  * @return int Character position
404  */

```

```

405 function getEndFunctionLock($codigo, $function) {
406
407     if (!isLocked($codigo, $function)) {return false;}
408
409     if (strtolower($function) == 'main') {
410         $pos = strpos($codigo, "</!>");
411     }
412     else {
413         $pos_main = strpos(strtolower($codigo), "main");
414
415         $subcode = substr($codigo, $pos_main);
416
417         $pos = strpos($subcode, $function);
418         $level = getLevel($codigo, $pos + $pos_main);
419
420         while ($level > 0) {
421             $pos = strpos($subcode, $function, $pos + 1);
422             $level = getLevel($codigo, $pos + $pos_main);
423         }
424
425         $subcodigo = substr($codigo, $pos_main + $pos);
426         $pos = strpos($subcodigo, "</!>") + $pos_main + $pos;
427     }
428
429     return $pos + 4;
430 }
431
432 /**
433  * Return locked function with the tag-lock delimiters
434  *
435  * @param string $codigo Full source-code
436  * @param string $function Function name
437  *
438  * @return string Function source-code
439  */
440 function getFunctionLock($codigo, $function) {
441
442     if (!isLocked($codigo, $function)) {return false;}
443
444     return substr($codigo, getInitFunctionLock($codigo, $function),
445         getEndFunctionLock($codigo, $function) - getInitFunctionLock($codigo,
446             $function));
447 }
448
449 /**
450  * Return locked function with the tag-lock delimiters
451  *
452  * @param string $codigo Full source-code
453  * @param string $function Function name
454  * @param string $newfunction New source-code of the function
455  *
456  * @return string Function source-code
457  */
458 function changeFunctionLock($codigo, $function, $newfunction) {

```

```

457         if (!isLocked($codigo, $function)) {return false;}
458
459
460         $init_function = getInitFunctionLock($codigo, $function);
461         $end_function = getEndFunctionLock($codigo, $function);
462
463         $return = substr($codigo, 0, $init_function);
464         $return .= $newfunction;
465         $return .= substr($codigo, $end_function);
466
467         return $return;
468     }
469
470
471     /*****
472     * DATABASE FUNCTIONS *
473     *****/
474
475     /**
476     * Return original source-code from DB
477     *
478     * @param int $pageid
479     *
480     * @return string Original source-code
481     */
482     function getCodigofromDB($pageid) {
483
484         $version = wikicode_get_current_version($pageid);
485
486         $resultado = $version->content;
487
488         return $resultado;
489     }
490
491     /**
492     * Save new source-code into DB
493     *
494     * @param int $pageid
495     * @param string $newcode
496     */
497     function saveCodigoToDB($pageid, $newcode) {
498
499         global $DB;
500
501         $page = wikicode_get_page($pageid);
502         $page->cachedcontent = $newcode;
503
504         $page->timerendered = time();
505         if ($page->timestartedit == 0) {
506             $page->timestartedit = time();
507         }
508         $page->timeendedit = time();
509         $DB->update_record('wikicode_pages', $page);
510

```

```

511     $version = wikicode_get_current_version($pageid);
512     $version->content = $newcode;
513     $DB->update_record('wikicode_versions', $version);
514
515     return TRUE;
516 }
517
518 /*****
519 *** PROCEDURES ***
520 *****/
521
522 /**
523  * Procedure to exec when push a key into editor
524  *
525  * @param string $newcode
526  * @param int $position
527  * @param int $pageid
528  * @param string $del
529  *
530  * @return object
531  */
532 function keyPress($newcode, $position, $pageid, $del) {
533     global $USER;
534
535     $return = array();
536
537     $code = $newcode;
538     $position++;
539
540     if ($del==1) {$position = $position - 2;}
541
542     //In first place, change the double quotes for simple quotes.
543     $code = str_replace("\\"", "'", $code);
544     $code = str_replace("\"\\", "", $code);
545
546     //Get the original code
547     $originalcode = getCodigofromDB($pageid);
548     $dbcode = $originalcode;
549     $originalcode = str_replace("\"\"", "'", $originalcode);
550     $originalcode = str_replace("\"\\", "", $originalcode);
551
552     //Get the function name which are modifying
553     $function = getFunction($code, $position);
554     escribir_fichero($function);
555
556     //There is not any function in the code
557     if (is_bool($function)) {
558         $newcodelock = $code;
559         $endcode = $code;
560
561         $last_function = strrpos($code, "}");
562
563         if (!is_bool($last_function)) {
564             if ($del==0) {

```

```

565             // $endcode = $originalcode . substr($code,
                    $position - 1, 1);
566         }
567         elseif (
568             $endcode = substr($originalcode, 0, strlen(
                    $originalcode) - 1);
569         }
570     }
571
572     escribir_fichero($endcode);
573
574     $return["position"] = $position;
575 }
576 elseif (isLocked($originalcode, $function) && !isLockedByUser($originalcode
    , $function)) //Function is blocked by other user
577 {
578     $endcode = $originalcode;
579 }
580 else {
581     //Locking function into the original source-code if this is not
        locked
582     if (!isLocked($originalcode, $function)){
583         $originalcode = lockFunction($originalcode, $function,
            $USER->username);
584     }
585
586     //Insert lock tags into the new source-code
587     $newcodeLock = lockFunction($code, $function, $USER->username);
588
589     //Change original function by the new function
590     $newfunction = getFunctionLock($newcodeLock, $function);
591     $endcode = changeFunctionLock($originalcode, $function,
        $newfunction);
592 }
593
594 //Saving into DB
595 $returncode = str_replace("'", "\'", $endcode);
596
597 if (trim($returncode) == "" && strlen($dbcode) > 1) {$returncode = $dbcode
    ;}
598 $returncode = deleteEnterRepeat($returncode);
599
600 if (saveCodigoToDB($pageid, $returncode)) {
601     $return["code"] = wikicode_remove_tags_owner($returncode);
602 }
603
604 //Get new cursor position
605 if (!is_bool($function)) {
606     $lenght_user = strlen($USER->username) + 3;
607     $pos_inside = $position - $lenght_user - getInitFunctionLock(
        $newcodeLock, $function);
608     $str_search = deleteEnterRepeat(substr($newcodeLock,
        getInitFunctionLock($newcodeLock, $function) + $lenght_user,
        $pos_inside + $lenght_user));

```

```

609         $newposition = strpos($return["code"], $str_search) + strlen(
610             $str_search);
611         $return["position"] = $newposition;
612     } else {
613         $return["position"] = $position;
614     }
615     return $return;
616 }
617
618 /**
619  * Procedure to exec when user removed a need-part
620  *
621  * @param string $newcode
622  * @param int $position
623  * @param int $pageid
624  * @param string $char_del
625  *
626  * @return object
627  */
628 function removePairKey($newcode, $position, $pageid, $char_del) {
629     global $USER;
630
631     $code = $newcode;
632     $position = $position - 1;
633
634     //In first place, change the double quotes for simple quotes.
635     $code = str_replace("\"", "'", $code);
636     $code = str_replace("\n", chr(10), $code);
637     $code = str_replace("\\", "", $code);
638
639     //Get the original code
640     $dbcode = getCodigofromDB($pageid);
641     $dbcode = str_replace("\"", "'", $dbcode);
642     $dbcode = str_replace("\\", "", $dbcode);
643
644     //Code before remove any character
645     $originalcode = substr($code, 0, $position) . $char_del . substr($code,
646         $position);
647
648     if ($char_del == "{") {
649         $positionlevel = $position;
650     } else {
651         $positionlevel = $position + 1;
652     }
653
654     $level = getLevel($originalcode, $positionlevel);
655     $function = getFunction($originalcode, $position);
656
657     if ($level == 0) {
658         if ($char_del == "{" && substr($originalcode, $position + 1, 1) ==
659             "}") {
660             $newfunction = "";

```

```

659         } else if ($char_del == "}" && substr($originalcode, $position - 1,
660             1) == "{") {
661             $newfunction = "";
662         } else {
663             //Insert lock tags into the new source-code
664             $newcodeLock = lockFunction($originalcode, $function, $USER
665                 ->username);
666             $newfunction = getFunctionLock($newcodeLock, $function);
667         }
668     } else {
669         $found = 1;
670         $pos_pair = 0;
671
672         if ($char_del == "{") {
673             for ($i=$position; $found != 0; $i++) {
674                 if (substr($originalcode, $i + 1, 1) == "{") {
675                     $found++;
676                 } else if (substr($originalcode, $i + 1, 1) == "}") {
677                     $found--;
678                 }
679                 $pos_pair = $i + 1;
680             }
681         } else if ($char_del == "}") {
682             for ($i=1; $found != 0; $i++) {
683                 if (substr($originalcode, $position - $i, 1) == "}") {
684                     $found++;
685                 } else if (substr($originalcode, $position - $i, 1)
686                     == "{") {
687                     $found--;
688                 }
689                 $pos_pair = $position - $i;
690             }
691         }
692         if ($position < $pos_pair) {
693             $newcode = substr($originalcode, 0, $position) . substr(
694                 $originalcode, $position + 1, $pos_pair - $position -
695                 1) . substr($originalcode, $pos_pair + 1);
696         } else {
697             $newcode = substr($originalcode, 0, $pos_pair) . substr(
698                 $originalcode, $pos_pair + 1, $position - $pos_pair -
699                 1) . substr($originalcode, $position + 1);
700         }
701
702         $newcodeLock = lockFunction($newcode, $function, $USER->username);
703         $newfunction = getFunctionLock($newcodeLock, $function);
704     }
705
706     //Locking function into the original source-code if this is not locked
707     if (!isLocked($dbcode, $function)){
708         $dbcode = lockFunction($dbcode, $function, $USER->username);

```



```

704     }
705
706     //Change original function by the new function
707     $endcode = changeFunctionLock($dbcode, $function, $newfunction);
708
709     //Saving into DB
710     $returncode = str_replace("'", "\'", $endcode);
711     $returncode = deleteEnterRepeat($returncode);
712
713     if (saveCodigoToDB($pageid, $returncode)) {
714         $return["code"] = wikicode_remove_tags_owner($returncode);
715     }
716
717     return $return;
718
719 }
720
721 /**
722  * Procedure to exec when user removed a need-part
723  *
724  * @param string $function
725  * @param int $pageid
726  *
727  * @return object
728  */
729 function unlockFunctionDB($function, $pageid) {
730
731     //Get the original code
732     $dbcode = getCodigofromDB($pageid);
733
734     //Unlock the function
735     $savecode = unlockFunction($dbcode, $function);
736
737     //Save newcode
738     if (saveCodigoToDB($pageid, $savecode)) {
739         $return["code"] = wikicode_remove_tags_owner($savecode);
740     }
741
742     return $return;
743
744 }
745
746 ?>

```

4.2.4. unlock.php

```

1  <?php
2
3  /**
4   * @author Antonio J. Gonzalez
5   * @package mod-wikicode

```

```
6  * @license http://www.gnu.org/copyleft/gpl.html GNU GPL v3 or later
7  */
8
9  global $USER, $DB;
10
11  $pageid = $_GET["pageid"];
12
13  require_once('.../config.php');
14  require_once($CFG->dirroot . '/mod/wikicode/locallib.php');
15  require_once($CFG->dirroot . '/mod/wikicode/editorlibfn.php');
16
17  $version = wikicode_get_current_version($pageid);
18  $codigo = $version->content;
19
20  $funciones = getLocksByUser($codigo, $USER->username);
21
22  echo '<link rel="stylesheet" type="text/css"/>
23      <style type="text/css">
24          div#checks {
25              text-align:left;
26                  margin:0 auto;
27                  padding:10px;
28                  background:#fff;
29                  height:auto;
30                  width:430px;
31                  border:1px solid #ACD8F0;
32                  overflow:auto;
33                  font-family:arial;
34                  font-size:9pt;
35          }
36          div#button {
37              text-align:left;
38                  margin:0 auto;
39                  padding:10px;
40                  background:#ACD8F0;
41                  height:auto;
42                  width:430px;
43                  border:1px solid #ACD8F0;
44                  overflow:auto;
45                  font-family:arial;
46                  font-size:9pt;
47          }
48          div#titulo {
49              text-align:left;
50                  margin:0 auto;
51                  padding:10px;
52                  background:#ACD8F0;
53                  height:auto;
54                  width:430px;
55                  border:1px solid #ACD8F0;
56                  overflow:auto;
57                  font-family:arial;
58                  font-size:10pt;
59          }
```

```

60     </style>';
61
62
63     echo '<div id="titulo"><h4>Funciones</h4></div>';
64     echo '<div id="checks">';
65
66     foreach ($funciones as $variable => $valor){
67         echo '
68 <input type="checkbox" name="'. $valor. '" value="'. $valor. '" />'. $valor. '<br>';
69     }
70
71     echo '</div>';
72     echo '<div id="button"><button type="button" class="unlock">Desbloquear</button>
73         <button type="cancel" class="cancelUnlock">Cancelar</button></div>';
74
75     echo '<script src="js/jquery.js"></script>';
76     echo '<script src="js/php.js"></script>';
77     echo '<script src="js/unlock.js"></script>';
78
79     ?>

```

4.3. Back-End JS

4.3.1. codemirror.js

```

1  /* CodeMirror main module
2   *
3   * Implements the CodeMirror constructor and prototype, which take care
4   * of initializing the editor frame, and providing the outside interface.
5   */
6
7  // The CodeMirrorConfig object is used to specify a default
8  // configuration. If you specify such an object before loading this
9  // file, the values you put into it will override the defaults given
10 // below. You can also assign to it after loading.
11 var CodeMirrorConfig = window.CodeMirrorConfig || {};
12
13 var CodeMirror = (function(){
14     function setDefaults(object, defaults) {
15         for (var option in defaults) {
16             if (!object.hasOwnProperty(option))
17                 object[option] = defaults[option];
18         }
19     }
20     function forEach(array, action) {
21         for (var i = 0; i < array.length; i++)
22             action(array[i]);
23     }

```

```
24
25 // These default options can be overridden by passing a set of
26 // options to a specific CodeMirror constructor. See manual.html for
27 // their meaning.
28 setDefaults(CodeMirrorConfig, {
29     stylesheet: "",
30     path: "",
31     parserfile: [],
32     basefiles: ["util.js", "stringstream.js", "select.js", "undo.js", "editor.js",
33         "tokenize.js", "jquery.js", "lock.js", "php.js"],
34     iframeClass: null,
35     passDelay: 200,
36     passTime: 50,
37     lineNumberDelay: 200,
38     lineNumberTime: 50,
39     continuousScanning: false,
40     saveFunction: null,
41     onChange: null,
42     undoDepth: 50,
43     undoDelay: 800,
44     disableSpellcheck: true,
45     textWrapping: true,
46     readOnly: false,
47     width: "",
48     height: "",
49     autoMatchParens: false,
50     parserConfig: null,
51     tabMode: "indent", // or "spaces", "default", "shift"
52     reindentOnLoad: false,
53     activeTokens: null,
54     cursorActivity: null,
55     lineNumbers: false,
56     indentUnit: 2,
57     domain: null
58 });
59
60 function addLineNumberDiv(container) {
61     var nums = document.createElement("DIV"),
62         scroller = document.createElement("DIV");
63     nums.style.position = "absolute";
64     nums.style.height = "100%";
65     if (nums.style.setExpression) {
66         try {nums.style.setExpression("height", "this.previousSibling.offsetHeight +
67             'px'");}
68         catch(e) {} // Seems to throw 'Not Implemented' on some IE8 versions
69     }
70     nums.style.top = "0px";
71     nums.style.overflow = "hidden";
72     container.appendChild(nums);
73     scroller.className = "CodeMirror-line-numbers";
74     nums.appendChild(scroller);
75     return nums;
76 }
```

```

76 function frameHTML(options) {
77     if (typeof options.parserfile == "string")
78         options.parserfile = [options.parserfile];
79     if (typeof options.stylesheet == "string")
80         options.stylesheet = [options.stylesheet];
81
82     var html = ["<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\" \"
            http://www.w3.org/TR/html4/loose.dtd\"><html><head>"];
83     // Hack to work around a bunch of IE8-specific problems.
84     html.push("<meta http-equiv=\"X-UA-Compatible\" content=\"IE=EmulateIE7\"/>");
85     forEach(options.stylesheet, function(file) {
86         html.push("<link rel=\"stylesheet\" type=\"text/css\" href=\"" + file +
            "\"/>");
87     });
88     forEach(options.basefiles.concat(options.parserfile), function(file) {
89         html.push("<script type=\"text/javascript\" src=\"" + options.path + file +
            "\"><\" + \"/script>");
90     });
91     html.push("</head><body style=\"border-width: 0;\" class=\"editbox\" spellcheck
        =\"\" +
92         (options.disableSpellcheck ? "false" : "true") + "\"></body></html>");
93     return html.join("");
94 }
95
96 var internetExplorer = document.selection && window.ActiveXObject && /MSIE/.test(
    navigator.userAgent);
97
98 function CodeMirror(place, options) {
99     // Backward compatibility for deprecated options.
100     if (options.dumbTabs) options.tabMode = "spaces";
101     else if (options.normalTab) options.tabMode = "default";
102
103     // Use passed options, if any, to override defaults.
104     this.options = options = options || {};
105     setDefaults(options, CodeMirrorConfig);
106
107     var frame = this.frame = document.createElement("IFRAME");
108     if (options.iframeClass) frame.className = options.iframeClass;
109     frame.frameBorder = 0;
110     frame.style.border = "0";
111     frame.style.width = '100%';
112     frame.style.height = '100%';
113     // display: block occasionally suppresses some Firefox bugs, so we
114     // always add it, redundant as it sounds.
115     frame.style.display = "block";
116     frame.id = "iframeid";
117
118     var div = this.wrapping = document.createElement("DIV");
119     div.style.position = "relative";
120     div.className = "CodeMirror-wrapping";
121     div.style.width = options.width;
122     div.style.height = options.height;
123     // This is used by Editor.reroutePasteEvent

```

```

124     var teHack = this.textareaHack = document.createElement("TEXTAREA");
125     div.appendChild(teHack);
126     teHack.style.position = "absolute";
127     teHack.style.left = "-10000px";
128     teHack.style.width = "10px";
129
130     //Hidden
131     var inHack = this.textareaInsert = document.createElement("TEXTAREA");
132     div.appendChild(inHack);
133     inHack.style.position = "absolute";
134     inHack.style.left = "-10000px";
135     inHack.style.width = "10px";
136     inHack.value = "1";
137
138     // Link back to this object, so that the editor can fetch options
139     // and add a reference to itself.
140     frame.CodeMirror = this;
141     if (options.domain && internetExplorer) {
142         this.html = frameHTML(options);
143         frame.src = "javascript:(function(){document.open();" +
144             (options.domain ? "document.domain=\"\" + options.domain + "\";" : "") +
145             "document.write(window.frameElement.CodeMirror.html);document.close();})();"
146     }
147     else {
148         frame.src = "javascript:false";
149     }
150
151     if (place.appendChild) place.appendChild(div);
152     else place(div);
153     div.appendChild(frame);
154     if (options.lineNumbers) this.lineNumbers = addLineNumberDiv(div);
155
156     this.win = frame.contentWindow;
157     if (!options.domain || !internetExplorer) {
158         this.win.document.open();
159         this.win.document.write(frameHTML(options));
160         this.win.document.close();
161     }
162 }
163
164 CodeMirror.prototype = {
165     init: function() {
166         if (this.options.initCallback) this.options.initCallback(this);
167         if (this.options.lineNumbers) this.activateLineNumbers();
168         if (this.options.reindentOnLoad) this.reindent();
169     },
170
171     getCode: function() {
172         return this.editor.getCode();
173     },
174     setCode: function(code) {this.editor.importCode(code);},
175     selection: function() {this.focusIfIE(); return this.editor.selectedText();},
176     reindent: function() {this.editor.reindent();},

```

```

177     reindentSelection: function() {this.focusIfIE(); this.editor.reindentSelection(
178         null);},
179
180     focusIfIE: function() {
181         // in IE, a lot of selection-related functionality only works when the frame
182         // is focused
183         if (this.win.select.ie_selection) this.focus();
184     },
185     focus: function() {
186         this.win.focus();
187         if (this.editor.selectionSnapshot) // IE hack
188             this.win.select.setBookmark(this.win.document.body, this.editor.
189                 selectionSnapshot);
190     },
191     replaceSelection: function(text) {
192         this.focus();
193         this.editor.replaceSelection(text);
194         return true;
195     },
196     replaceChars: function(text, start, end) {
197         this.editor.replaceChars(text, start, end);
198     },
199     getSearchCursor: function(string, fromCursor, caseFold) {
200         return this.editor.getSearchCursor(string, fromCursor, caseFold);
201     },
202
203     undo: function() {this.editor.history.undo();},
204     redo: function() {this.editor.history.redo();},
205     historySize: function() {return this.editor.history.historySize();},
206     clearHistory: function() {this.editor.history.clear();},
207
208     grabKeys: function(callback, filter) {this.editor.grabKeys(callback, filter);},
209     ungrabKeys: function() {this.editor.ungrabKeys();},
210
211     setParser: function(name) {this.editor.setParser(name);},
212     setSpellcheck: function(on) {this.win.document.body.spellcheck = on;},
213     setStylesheet: function(names) {
214         if (typeof names === "string") names = [names];
215         var activeStylesheets = {};
216         var matchedNames = {};
217         var links = this.win.document.getElementsByTagName("link");
218         // Create hashes of active stylesheets and matched names.
219         // This is O(n^2) but n is expected to be very small.
220         for (var x = 0, link; link = links[x]; x++) {
221             if (link.rel.indexOf("stylesheet") !== -1) {
222                 for (var y = 0; y < names.length; y++) {
223                     var name = names[y];
224                     if (link.href.substring(link.href.length - name.length) === name) {
225                         activeStylesheets[link.href] = true;
226                         matchedNames[name] = true;
227                     }
228                 }
229             }
230         }
231     }

```

```

228     // Activate the selected stylesheets and disable the rest.
229     for (var x = 0, link; link = links[x]; x++) {
230         if (link.rel.indexOf("stylesheet") !== -1) {
231             link.disabled = !(link.href in activeStylesheets);
232         }
233     }
234     // Create any new stylesheets.
235     for (var y = 0; y < names.length; y++) {
236         var name = names[y];
237         if (!(name in matchedNames)) {
238             var link = this.win.document.createElement("link");
239             link.rel = "stylesheet";
240             link.type = "text/css";
241             link.href = name;
242             this.win.document.getElementsByTagName('head')[0].appendChild(link);
243         }
244     }
245 },
246 setTextWrapping: function(on) {
247     if (on == this.options.textWrapping) return;
248     this.win.document.body.style.whiteSpace = on ? "" : "nowrap";
249     this.options.textWrapping = on;
250     if (this.lineNumbers) {
251         this.setLineNumbers(false);
252         this.setLineNumbers(true);
253     }
254 },
255 setIndentUnit: function(unit) {this.win.indentUnit = unit;},
256 setUndoDepth: function(depth) {this.editor.history.maxDepth = depth;},
257 setTabMode: function(mode) {this.options.tabMode = mode;},
258 setLineNumbers: function(on) {
259     if (on && !this.lineNumbers) {
260         this.lineNumbers = addLineNumberDiv(this.wrapping);
261         this.activateLineNumbers();
262     }
263     else if (!on && this.lineNumbers) {
264         this.wrapping.removeChild(this.lineNumbers);
265         this.wrapping.style.marginLeft = "";
266         this.lineNumbers = null;
267     }
268 },
269
270 cursorPosition: function(start) {this.focusIfIE(); return this.editor.
    cursorPosition(start);},
271 firstLine: function() {return this.editor.firstLine();},
272 lastLine: function() {return this.editor.lastLine();},
273 nextLine: function(line) {return this.editor.nextLine(line);},
274 prevLine: function(line) {return this.editor.prevLine(line);},
275 lineContent: function(line) {return this.editor.lineContent(line);},
276 setLineContent: function(line, content) {this.editor.setLineContent(line,
    content);},
277 removeLine: function(line){this.editor.removeLine(line);},
278 insertIntoLine: function(line, position, content) {this.editor.insertIntoLine(
    line, position, content);},

```



```

279     selectLines: function(startLine, startOffset, endLine, endOffset) {
280         this.win.focus();
281         this.editor.selectLines(startLine, startOffset, endLine, endOffset);
282     },
283     nthLine: function(n) {
284         var line = this.firstLine();
285         for (; n > 1 && line !== false; n--)
286             line = this.nextLine(line);
287         return line;
288     },
289     lineNumber: function(line) {
290         var num = 0;
291         while (line !== false) {
292             num++;
293             line = this.prevLine(line);
294         }
295         return num;
296     },
297     jumpToLine: function(line) {
298         if (typeof line == "number") line = this.nthLine(line);
299         this.selectLines(line, 0);
300         this.win.focus();
301     },
302     currentLine: function() { // Deprecated, but still there for backward
        compatibility
303         return this.lineNumber(this.cursorLine());
304     },
305     cursorLine: function() {
306         return this.cursorPosition().line;
307     },
308
309     activateLineNumbers: function() {
310         var frame = this.frame, win = frame.contentWindow, doc = win.document, body =
            doc.body,
311             nums = this.lineNumbers, scroller = nums.firstChild, self = this;
312         var barWidth = null;
313
314         function sizeBar() {
315             if (frame.offsetWidth == 0) return;
316             for (var root = frame; root.parentNode; root = root.parentNode);
317             if (!nums.parentNode || root != document || !win.Editor) {
318                 // Clear event handlers (their nodes might already be collected, so try/
                    catch)
319                 try{clear();}catch(e){}
320                 clearInterval(sizeInterval);
321                 return;
322             }
323
324             if (nums.offsetWidth != barWidth) {
325                 barWidth = nums.offsetWidth;
326                 nums.style.left = "-" + (frame.parentNode.style.marginLeft + barWidth + "
                    px");
327             }
328         }

```

```

329     function doScroll() {
330         nums.scrollTop = body.scrollTop || doc.documentElement.scrollTop || 0;
331     }
332     // Cleanup function, registered by nonWrapping and wrapping.
333     var clear = function(){};
334     sizeBar();
335     var sizeInterval = setInterval(sizeBar, 500);
336
337     function nonWrapping() {
338         var nextNum = 1, pending;
339         function update() {
340             var target = 50 + Math.max(body.offsetHeight, Math.max(frame.offsetHeight
341                 , body.scrollHeight || 0));
342             var endTime = new Date().getTime() + self.options.lineNumberTime;
343             while (scroller.offsetHeight < target && (!scroller.firstChild ||
344                 scroller.offsetHeight)) {
345                 scroller.appendChild(document.createElement("DIV"));
346                 scroller.lastChild.innerHTML = nextNum++;
347                 if (new Date().getTime() > endTime) {
348                     if (pending) clearTimeout(pending);
349                     pending = setTimeout(update, self.options.lineNumberDelay);
350                     break;
351                 }
352             }
353             doScroll();
354         }
355         var onScroll = win.addEventHandler(win, "scroll", update, true),
356             onResize = win.addEventHandler(win, "resize", update, true);
357         clear = function(){onScroll(); onResize(); if (pending) clearTimeout(
358             pending);};
359         update();
360     }
361     function wrapping() {
362         var node, lineNum, next, pos;
363
364         function addNum(n) {
365             if (!lineNum) lineNum = scroller.appendChild(document.createElement("DIV
366                 "));
367             lineNum.innerHTML = n;
368             pos = lineNum.offsetHeight + lineNum.offsetTop;
369             lineNum = lineNum.nextSibling;
370         }
371         function work() {
372             if (!scroller.parentNode || scroller.parentNode != self.lineNumbers)
373                 return;
374
375             var endTime = new Date().getTime() + self.options.lineNumberTime;
376             while (node) {
377                 addNum(next++);
378                 for (; node && !win.isBR(node); node = node.nextSibling) {
379                     var bott = node.offsetTop + node.offsetHeight;
380                     while (scroller.offsetHeight && bott - 3 > pos) addNum("&nbsp;");
381                 }
382                 if (node) node = node.nextSibling;

```

```

378         if (new Date().getTime() > endTime) {
379             pending = setTimeout(work, self.options.lineNumberDelay);
380             return;
381         }
382     }
383     // While there are un-processed number DIVs, or the scroller is smaller
        than the frame...
384     var target = 50 + Math.max(body.offsetHeight, Math.max(frame.offsetHeight
        , body.scrollHeight || 0));
385     while (lineNum || (scroller.offsetHeight < target && (!scroller.
        firstChild || scroller.offsetHeight)))
386         addNum(next++);
387     doScroll();
388 }
389 function start() {
390     doScroll();
391     node = body.firstChild;
392     lineNum = scroller.firstChild;
393     pos = 0;
394     next = 1;
395     work();
396 }
397
398 start();
399 var pending = null;
400 function update() {
401     if (pending) clearTimeout(pending);
402     if (self.editor.allClean()) start();
403     else pending = setTimeout(update, 200);
404 }
405 self.updateNumbers = update;
406 var onScroll = win.addEventHandler(win, "scroll", doScroll, true),
407     onResize = win.addEventHandler(win, "resize", update, true);
408 clear = function(){
409     if (pending) clearTimeout(pending);
410     if (self.updateNumbers == update) self.updateNumbers = null;
411     onScroll();
412     onResize();
413 };
414 }
415 (this.options.textWrapping ? wrapping : nonWrapping)();
416 }
417 };
418
419 CodeMirror.InvalidLineHandle = {toString: function(){return "CodeMirror.
        InvalidLineHandle"}};
420
421 CodeMirror.replace = function(element) {
422     if (typeof element == "string")
423         element = document.getElementById(element);
424     return function(newElement) {
425         element.parentNode.replaceChild(newElement, element);
426     };
427 };

```

```
428
429 CodeMirror.fromTextArea = function(area, options) {
430     if (typeof area == "string")
431         area = document.getElementById(area);
432
433     options = options || {};
434     if (area.style.width && options.width == null)
435         options.width = area.style.width;
436     if (area.style.height && options.height == null)
437         options.height = area.style.height;
438     if (options.content == null) options.content = area.value;
439
440     if (area.form) {
441         function updateField() {
442             area.value = mirror.getCode();
443         }
444         if (typeof area.form.addEventListener == "function")
445             area.form.addEventListener("submit", updateField, false);
446         else
447             area.form.attachEvent("onsubmit", updateField);
448     }
449
450     function insert(frame) {
451         if (area.nextSibling)
452             area.parentNode.insertBefore(frame, area.nextSibling);
453         else
454             area.parentNode.appendChild(frame);
455     }
456
457     area.style.display = "none";
458     var mirror = new CodeMirror(insert, options);
459     return mirror;
460 };
461 CodeMirror.isProbablySupported = function() {
462     // This is rather awful, but can be useful.
463     var match;
464     if (window.opera)
465         return Number(window.opera.version()) >= 9.52;
466     else if (/Apple Computers, Inc/.test(navigator.vendor) && (match = navigator.
         userAgent.match(/Version\/(\d+(?:\.\d+)?)\./)))
467         return Number(match[1]) >= 3;
468     else if (document.selection && window.ActiveXObject && (match = navigator.
         userAgent.match(/MSIE (\d+(?:\.\d*)?)\b/)))
469         return Number(match[1]) >= 6;
470     else if (match = navigator.userAgent.match(/gecko\/(\d{8})/i))
471         return Number(match[1]) >= 20050901;
472     else if (match = navigator.userAgent.match(/AppleWebKit\/(\d+)/))
473         return Number(match[1]) >= 525;
474     else
475         return null;
476 };
477 return CodeMirror;
478 })();
```

4.3.2. editor.js

```

1  /* The Editor object manages the content of the editable frame. It
2   * catches events, colours nodes, and indents lines. This file also
3   * holds some functions for transforming arbitrary DOM structures into
4   * plain sequences of <span> and <br> elements
5   */
6
7  var internetExplorer = document.selection && window.ActiveXObject && /MSIE/.test(
    navigator.userAgent);
8  var webkit = /AppleWebKit/.test(navigator.userAgent);
9  var safari = /Apple Computers, Inc/.test(navigator.vendor);
10 var gecko = /gecko\/(\d{8})/i.test(navigator.userAgent);
11
12 // Make sure a string does not contain two consecutive 'collapseable'
13 // whitespace characters.
14 function makeWhiteSpace(n) {
15     var buffer = [], nb = true;
16     for (; n > 0; n--) {
17         buffer.push((nb || n == 1) ? nbsp : " ");
18         nb = !nb;
19     }
20     return buffer.join("");
21 }
22
23 // Create a set of white-space characters that will not be collapsed
24 // by the browser, but will not break text-wrapping either.
25 function fixSpaces(string) {
26     if (string.charAt(0) == " ") string = nbsp + string.slice(1);
27     return string.replace(/\t/g, function(){return makeWhiteSpace(indentUnit);})
28         .replace(/[ \u00a0]{2,}/g, function(s){return makeWhiteSpace(s.length);});
29 }
30
31 function cleanText(text) {
32     return text.replace(/\u00a0/g, " ").replace(/\u200b/g, "");
33 }
34
35 // Create a SPAN node with the expected properties for document part
36 // spans.
37 function makePartSpan(value, doc) {
38     var text = value;
39     if (value.nodeType == 3) text = value.nodeValue;
40     else value = doc.createTextNode(text);
41
42     var span = doc.createElement("SPAN");
43     span.isPart = true;
44     span.appendChild(value);
45     span.currentText = text;
46     return span;
47 }
48
49 // On webkit, when the last BR of the document does not have text
50 // behind it, the cursor can not be put on the line after it. This

```

```

51 // makes pressing enter at the end of the document occasionally do
52 // nothing (or at least seem to do nothing). To work around it, this
53 // function makes sure the document ends with a span containing a
54 // zero-width space character. The traverseDOM iterator filters such
55 // character out again, so that the parsers won't see them. This
56 // function is called from a few strategic places to make sure the
57 // zwsp is restored after the highlighting process eats it.
58 var webkitLastLineHack = webkit ?
59     function(container) {
60         var last = container.lastChild;
61         if (!last || !last.isPart || last.textContent != "\u200b")
62             container.appendChild(makePartSpan("\u200b", container.ownerDocument));
63     } : function() {};
64
65 var Editor = (function(){
66     // The HTML elements whose content should be suffixed by a newline
67     // when converting them to flat text.
68     var newlineElements = {"P": true, "DIV": true, "LI": true};
69
70     function asEditorLines(string) {
71         var tab = makeWhiteSpace(indentUnit);
72         return map(string.replace(/\t/g, tab).replace(/\u00a0/g, " ").replace(/\r\n?/g,
73             "\n").split("\n"), fixSpaces);
74     }
75
76     // Helper function for traverseDOM. Flattens an arbitrary DOM node
77     // into an array of textnodes and <br> tags.
78     function simplifyDOM(root, atEnd) {
79         var doc = root.ownerDocument;
80         var result = [];
81         var leaving = true;
82
83         function simplifyNode(node, top) {
84             if (node.nodeType == 3) {
85                 var text = node.nodeValue = fixSpaces(node.nodeValue.replace(/\r\u200b/g,
86                     "").replace(/\n/g, " "));
87                 if (text.length) leaving = false;
88                 result.push(node);
89             }
90             else if (isBR(node) && node.childNodes.length == 0) {
91                 leaving = true;
92                 result.push(node);
93             }
94             else {
95                 forEach(node.childNodes, simplifyNode);
96                 if (!leaving && newlineElements.hasOwnProperty(node.nodeName.toUpperCase())) {
97                     leaving = true;
98                     if (!atEnd || !top)
99                         result.push(doc.createElement("BR"));
100                 }
101             }
102         }
103     }
104 }

```

```

102     simplifyNode(root, true);
103     return result;
104 }
105
106 // Creates a MochiKit-style iterator that goes over a series of DOM
107 // nodes. The values it yields are strings, the textual content of
108 // the nodes. It makes sure that all nodes up to and including the
109 // one whose text is being yielded have been 'normalized' to be just
110 // <span> and <br> elements.
111 // See the story.html file for some short remarks about the use of
112 // continuation-passing style in this iterator.
113 function traverseDOM(start){
114     function _yield(value, c){cc = c; return value;}
115     function push(fun, arg, c){return function(){return fun(arg, c);};}
116     function stop(){cc = stop; throw StopIteration;};
117     var cc = push(scanNode, start, stop);
118     var owner = start.ownerDocument;
119     var nodeQueue = [];
120
121     // Create a function that can be used to insert nodes after the
122     // one given as argument.
123     function pointAt(node){
124         var parent = node.parentNode;
125         var next = node.nextSibling;
126         return function(newnode) {
127             parent.insertBefore(newnode, next);
128         };
129     }
130     var point = null;
131
132     // This an Opera-specific hack -- always insert an empty span
133     // between two BRs, because Opera's cursor code gets terribly
134     // confused when the cursor is between two BRs.
135     var afterBR = true;
136
137     // Insert a normalized node at the current point. If it is a text
138     // node, wrap it in a <span>, and give that span a currentText
139     // property -- this is used to cache the nodeValue, because
140     // directly accessing nodeValue is horribly slow on some browsers.
141     // The dirty property is used by the highlighter to determine
142     // which parts of the document have to be re-highlighted.
143     function insertPart(part){
144         var text = "\n";
145         if (part.nodeType == 3) {
146             select.snapshotChanged();
147             part = makePartSpan(part, owner);
148             text = part.currentText;
149             afterBR = false;
150         }
151         else {
152             if (afterBR && window.opera)
153                 point(makePartSpan("", owner));
154             afterBR = true;
155         }

```

```

156     part.dirty = true;
157     nodeQueue.push(part);
158     point(part);
159     return text;
160 }
161
162 // Extract the text and newlines from a DOM node, insert them into
163 // the document, and yield the textual content. Used to replace
164 // non-normalized nodes.
165 function writeNode(node, c, end) {
166     var toYield = [];
167     forEach(simplifyDOM(node, end), function(part) {
168         toYield.push(insertPart(part));
169     });
170     return _yield(toYield.join(""), c);
171 }
172
173 // Check whether a node is a normalized <span> element.
174 function partNode(node){
175     if (node.isPart && node.childNodes.length == 1 && node.firstChild.nodeType ==
176         3) {
177         node.currentText = node.firstChild.nodeValue;
178         return !/[\\n\\t\\r]/.test(node.currentText);
179     }
180     return false;
181 }
182
183 // Handle a node. Add its successor to the continuation if there
184 // is one, find out whether the node is normalized. If it is,
185 // yield its content, otherwise, normalize it (writeNode will take
186 // care of yielding).
187 function scanNode(node, c){
188     if (node.nextSibling)
189         c = push(scanNode, node.nextSibling, c);
190
191     if (partNode(node)){
192         nodeQueue.push(node);
193         afterBR = false;
194         return _yield(node.currentText, c);
195     }
196     else if (isBR(node)) {
197         if (afterBR && window.opera)
198             node.parentNode.insertBefore(makePartSpan("", owner), node);
199         nodeQueue.push(node);
200         afterBR = true;
201         return _yield("\\n", c);
202     }
203     else {
204         var end = !node.nextSibling;
205         point = pointAt(node);
206         removeElement(node);
207         return writeNode(node, c, end);
208     }
209 }

```



```

209
210     // MochiKit iterators are objects with a next function that
211     // returns the next value or throws StopIteration when there are
212     // no more values.
213     return {next: function(){return cc();}, nodes: nodeQueue};
214 }
215
216 // Determine the text size of a processed node.
217 function nodeSize(node) {
218     return isBR(node) ? 1 : node.currentText.length;
219 }
220
221 // Search backwards through the top-level nodes until the next BR or
222 // the start of the frame.
223 function startOfLine(node) {
224     while (node && !isBR(node)) node = node.previousSibling;
225     return node;
226 }
227 function endOfLine(node, container) {
228     if (!node) node = container.firstChild;
229     else if (isBR(node)) node = node.nextSibling;
230
231     while (node && !isBR(node)) node = node.nextSibling;
232     return node;
233 }
234
235 function time() {return new Date().getTime();}
236
237 // Client interface for searching the content of the editor. Create
238 // these by calling CodeMirror.getSearchCursor. To use, call
239 // findNext on the resulting object -- this returns a boolean
240 // indicating whether anything was found, and can be called again to
241 // skip to the next find. Use the select and replace methods to
242 // actually do something with the found locations.
243 function SearchCursor(editor, string, fromCursor, caseFold) {
244     this.editor = editor;
245     this.caseFold = caseFold;
246     if (caseFold) string = string.toLowerCase();
247     this.history = editor.history;
248     this.history.commit();
249
250     // Are we currently at an occurrence of the search string?
251     this.atOccurrence = false;
252     // The object stores a set of nodes coming after its current
253     // position, so that when the current point is taken out of the
254     // DOM tree, we can still try to continue.
255     this.fallbackSize = 15;
256     var cursor;
257     // Start from the cursor when specified and a cursor can be found.
258     if (fromCursor && (cursor = select.cursorPos(this.editor.container))) {
259         this.line = cursor.node;
260         this.offset = cursor.offset;
261     }
262     else {

```

```

263     this.line = null;
264     this.offset = 0;
265 }
266 this.valid = !!string;
267
268 // Create a matcher function based on the kind of string we have.
269 var target = string.split("\n"), self = this;
270 this.matches = (target.length == 1) ?
271     // For one-line strings, searching can be done simply by calling
272     // indexOf on the current line.
273     function() {
274         var line = cleanText(self.history.textAfter(self.line).slice(self.offset));
275         var match = (self.caseFold ? line.toLowerCase() : line).indexOf(string);
276         if (match > -1)
277             return {from: {node: self.line, offset: self.offset + match},
278                 to: {node: self.line, offset: self.offset + match + string.length
279                     }};
280     } :
281     // Multi-line strings require internal iteration over lines, and
282     // some clunky checks to make sure the first match ends at the
283     // end of the line and the last match starts at the start.
284     function() {
285         var firstLine = cleanText(self.history.textAfter(self.line).slice(self.
286             offset));
287         var match = (self.caseFold ? firstLine.toLowerCase() : firstLine).
288             lastIndexOf(target[0]);
289         if (match == -1 || match != firstLine.length - target[0].length)
290             return false;
291         var startOffset = self.offset + match;
292
293         var line = self.history.nodeAfter(self.line);
294         for (var i = 1; i < target.length - 1; i++) {
295             var lineText = cleanText(self.history.textAfter(line));
296             if ((self.caseFold ? lineText.toLowerCase() : lineText) != target[i])
297                 return false;
298             line = self.history.nodeAfter(line);
299         }
300
301         var lastLine = cleanText(self.history.textAfter(line));
302         if ((self.caseFold ? lastLine.toLowerCase() : lastLine).indexOf(target[
303             target.length - 1]) != 0)
304             return false;
305
306         return {from: {node: self.line, offset: startOffset},
307             to: {node: line, offset: target[target.length - 1].length}};
308     };
309 }
310
311 SearchCursor.prototype = {
312     findNext: function() {
313         if (!this.valid) return false;
314         this.atOccurrence = false;
315         var self = this;

```

```
313     // Go back to the start of the document if the current line is
314     // no longer in the DOM tree.
315     if (this.line && !this.line.parentNode) {
316         this.line = null;
317         this.offset = 0;
318     }
319
320     // Set the cursor's position one character after the given
321     // position.
322     function saveAfter(pos) {
323         if (self.history.textAfter(pos.node).length > pos.offset) {
324             self.line = pos.node;
325             self.offset = pos.offset + 1;
326         }
327         else {
328             self.line = self.history.nodeAfter(pos.node);
329             self.offset = 0;
330         }
331     }
332
333     while (true) {
334         var match = this.matches();
335         // Found the search string.
336         if (match) {
337             this.atOccurrence = match;
338             saveAfter(match.from);
339             return true;
340         }
341         this.line = this.history.nodeAfter(this.line);
342         this.offset = 0;
343         // End of document.
344         if (!this.line) {
345             this.valid = false;
346             return false;
347         }
348     }
349 },
350
351 select: function() {
352     if (this.atOccurrence) {
353         select.setCursorPos(this.editor.container, this.atOccurrence.from, this.
354             atOccurrence.to);
355         select.scrollToCursor(this.editor.container);
356     }
357 },
358
359 replace: function(string) {
360     if (this.atOccurrence) {
361         var end = this.editor.replaceRange(this.atOccurrence.from, this.
362             atOccurrence.to, string);
363         this.line = end.node;
364         this.offset = end.offset;
365         this.atOccurrence = false;
366     }
367 }
```

```

365     }
366 };
367
368 // The Editor object is the main inside-the-iframe interface.
369 function Editor(options) {
370     this.options = options;
371     window.indentUnit = options.indentUnit;
372     this.parent = parent;
373     this.doc = document;
374     var container = this.container = this.doc.body;
375     this.win = window;
376     this.history = new History(container, options.undoDepth, options.undoDelay,
377         this);
378     var self = this;
379
380     if (!Editor.Parser)
381         throw "No parser loaded.";
382     if (options.parserConfig && Editor.Parser.configure)
383         Editor.Parser.configure(options.parserConfig);
384
385     if (!options.readOnly)
386         select.setCursorPos(container, {node: null, offset: 0});
387
388     this.dirty = [];
389     this.importCode(options.content || "");
390     this.history.onChange = options.onChange;
391
392     if (!options.readOnly) {
393         if (options.continuousScanning !== false) {
394             this.scanner = this.documentScanner(options.passTime);
395             this.delayScanning();
396         }
397
398         function setEditable() {
399             // In IE, designMode frames can not run any scripts, so we use
400             // contentEditable instead.
401             if (document.body.contentEditable !== undefined && internetExplorer)
402                 document.body.contentEditable = "true";
403             else
404                 document.designMode = "on";
405
406             document.documentElement.style.borderWidth = "0";
407             if (!options.textWrapping)
408                 container.style.whiteSpace = "nowrap";
409         }
410
411         // If setting the frame editable fails, try again when the user
412         // focus it (happens when the frame is not visible on
413         // initialisation, in Firefox).
414         try {
415             setEditable();
416         }
417         catch(e) {
418             var focusEvent = addEventHandler(document, "focus", function() {

```

```

418         focusEvent();
419         setEditable();
420     }, true);
421 }
422
423 //addEventHandler(document, "keydown", method(this, "keyDown"));
424 //addEventHandler(document, "keypress", method(this, "keyPress"));
425 //addEventHandler(document, "keyup", method(this, "keyUp"));
426
427 function cursorActivity() {self.cursorActivity(false);}
428 addEventHandler(document.body, "mouseup", cursorActivity);
429 addEventHandler(document.body, "cut", cursorActivity);
430
431 // workaround for a gecko bug [?] where going forward and then
432 // back again breaks designmode (no more cursor)
433 if (gecko)
434     addEventHandler(this.win, "pagehide", function(){self.unloaded = true;});
435
436 addEventHandler(document.body, "paste", function(event) {
437     cursorActivity();
438     var text = null;
439     try {
440         var clipboardData = event.clipboardData || window.clipboardData;
441         if (clipboardData) text = clipboardData.getData('Text');
442     }
443     catch(e) {}
444     if (text !== null) {
445         event.stop();
446         self.replaceSelection(text);
447         select.scrollToCursor(self.container);
448     }
449 });
450
451 if (this.options.autoMatchParens)
452     addEventHandler(document.body, "click", method(this, "
453         scheduleParenHighlight"));
454
455 else if (!options.textWrapping) {
456     container.style.whiteSpace = "nowrap";
457 }
458
459 function isSafeKey(code) {
460     return (code >= 16 && code <= 18) || // shift, control, alt
461         (code >= 33 && code <= 40); // arrows, home, end
462 }
463
464 Editor.prototype = {
465     // Import a piece of code into the editor.
466     importCode: function(code) {
467         this.history.push(null, null, asEditorLines(code));
468         this.history.reset();
469     },
470

```

```
471 // Extract the code from the editor.
472 getCode: function() {
473     if (!this.container.firstChild)
474         return "";
475
476     var accum = [];
477     select.markSelection(this.win);
478     forEach(traverseDOM(this.container.firstChild), method(accum, "push"));
479     webkitLastLineHack(this.container);
480     select.selectMarked();
481     return cleanText(accum.join(""));
482 },
483
484 afterPaste: function(line, pos, character) {
485     var newLine = this.cursorPosition().line;
486     var back = this.currentLine() - line;
487
488     for (i=0; i<back; i++) {
489         newLine = this.prevLine(newLine);
490     }
491
492     if (pos == -0.1)
493         pos = strlen(this.lineContent(newLine));
494     else if (pos < 0)
495         pos = strlen(this.lineContent(newLine)) + pos;
496
497     select.setCursorPos(this.container, {node: newLine, offset: pos});
498     select.scrollToCursor(this.container);
499
500 },
501
502 checkLine: function(node) {
503     if (node === false || !(node == null || node.parentNode == this.container))
504         throw parent.CodeMirror.InvalidLineHandle;
505 },
506
507 currentLine: function() {
508     var i = 0;
509     var line = this.cursorPosition().line;
510     while (line != false) {
511         i = i + 1;
512         line = this.prevLine(line);
513     }
514     return i;
515 },
516
517 currentPos: function() {
518     var pos = this.cursorPosition().character;
519     var line = this.cursorPosition().line;
520     while (line != false) {
521         line = this.prevLine(line);
522     }
523     return pos;
524 },
```

```

525
526     cursorPosition: function(start) {
527         if (start == null) start = true;
528         var pos = select.cursorPos(this.container, start);
529         if (pos) return {line: pos.node, character: pos.offset};
530         else return {line: null, character: 0};
531     },
532
533     firstLine: function() {
534         return null;
535     },
536
537     lastLine: function() {
538         if (this.container.lastChild) return startOfLine(this.container.lastChild);
539         else return null;
540     },
541
542     nextLine: function(line) {
543         this.checkLine(line);
544         var end = endOfLine(line, this.container);
545         return end || false;
546     },
547
548     prevLine: function(line) {
549         this.checkLine(line);
550         if (line == null) return false;
551         return startOfLine(line.previousSibling);
552     },
553
554     visibleLineCount: function() {
555         var line = this.container.firstChild;
556         while (line && isBR(line)) line = line.nextSibling; // BR heights are
557             unreliable
558         if (!line) return false;
559         var innerHeight = (window.innerHeight
560             || document.documentElement.clientHeight
561             || document.body.clientHeight);
562         return Math.floor(innerHeight / line.offsetHeight);
563     },
564
565     selectLines: function(startLine, startOffset, endLine, endOffset) {
566         this.checkLine(startLine);
567         var start = {node: startLine, offset: startOffset}, end = null;
568         if (endOffset !== undefined) {
569             this.checkLine(endLine);
570             end = {node: endLine, offset: endOffset};
571         }
572         select.setCursorPos(this.container, start, end);
573         select.scrollToCursor(this.container);
574     },
575
576     lineContent: function(line) {
577         var accum = [];
578         for (line = line ? line.nextSibling : this.container.firstChild;

```

```

578         line && !isBR(line); line = line.nextSibling)
579         accum.push(nodeText(line));
580         return cleanText(accum.join(""));
581     },
582
583     setLineContent: function(line, content) {
584         this.history.commit();
585         this.replaceRange({node: line, offset: 0},
586                         {node: line, offset: this.history.textAfter(line).length},
587                         content);
588         this.addDirtyNode(line);
589         this.scheduleHighlight();
590     },
591
592     removeLine: function(line) {
593         var node = line ? line.nextSibling : this.container.firstChild;
594         while (node) {
595             var next = node.nextSibling;
596             removeElement(node);
597             if (isBR(node)) break;
598             node = next;
599         }
600         this.addDirtyNode(line);
601         this.scheduleHighlight();
602     },
603
604     insertIntoLine: function(line, position, content) {
605         var before = null;
606         if (position == "end") {
607             before = endOfLine(line, this.container);
608         }
609         else {
610             for (var cur = line ? line.nextSibling : this.container.firstChild; cur;
611                 cur = cur.nextSibling) {
612                 if (position == 0) {
613                     before = cur;
614                     break;
615                 }
616                 var text = nodeText(cur);
617                 if (text.length > position) {
618                     before = cur.nextSibling;
619                     content = text.slice(0, position) + content + text.slice(position);
620                     removeElement(cur);
621                     break;
622                 }
623                 position -= text.length;
624             }
625
626             var lines = asEditorLines(content), doc = this.container.ownerDocument;
627             for (var i = 0; i < lines.length; i++) {
628                 if (i > 0) this.container.insertBefore(doc.createElement("BR"), before);
629                 this.container.insertBefore(makePartSpan(lines[i], doc), before);
630             }

```



```

631     this.addDirtyNode(line);
632     this.scheduleHighlight();
633 },
634
635 // Retrieve the selected text.
636 selectedText: function() {
637     var h = this.history;
638     h.commit();
639
640     var start = select.cursorPos(this.container, true),
641         end = select.cursorPos(this.container, false);
642     if (!start || !end) return "";
643
644     if (start.node == end.node)
645         return h.textAfter(start.node).slice(start.offset, end.offset);
646
647     var text = [h.textAfter(start.node).slice(start.offset)];
648     for (var pos = h.nodeAfter(start.node); pos != end.node; pos = h.nodeAfter(
649         pos))
650         text.push(h.textAfter(pos));
651     text.push(h.textAfter(end.node).slice(0, end.offset));
652     return cleanText(text.join("\n"));
653 },
654
655 // Replace the selection with another piece of text.
656 replaceSelection: function(text) {
657     this.history.commit();
658
659     var start = select.cursorPos(this.container, true),
660         end = select.cursorPos(this.container, false);
661     if (!start || !end) return;
662
663     end = this.replaceRange(start, end, text);
664     select.setCursorPos(this.container, end);
665     webkitLastLineHack(this.container);
666 },
667
668 reroutePasteEvent: function() {
669     if (this.capturingPaste || window.opera) return;
670     this.capturingPaste = true;
671     var te = window.frameElement.CodeMirror.textareaHack;
672     parent.focus();
673     te.value = "";
674     te.focus();
675
676     var self = this;
677     this.parent.setTimeout(function() {
678         self.capturingPaste = false;
679         self.win.focus();
680         if (self.selectionSnapshot) // IE hack
681             self.win.select.setBookmark(self.container, self.selectionSnapshot);
682         var text = te.value;
683         if (text) {
684             self.replaceSelection(text);

```

```

684         select.scrollToCursor(self.container);
685     }
686     }, 10);
687 },
688
689 replaceRange: function(from, to, text) {
690     var lines = asEditorLines(text);
691     lines[0] = this.history.textAfter(from.node).slice(0, from.offset) + lines
692         [0];
693     var lastLine = lines[lines.length - 1];
694     lines[lines.length - 1] = lastLine + this.history.textAfter(to.node).slice(to
695         .offset);
696     var end = this.history.nodeAfter(to.node);
697     this.history.push(from.node, end, lines);
698     return {node: this.history.nodeBefore(end),
699         offset: lastLine.length};
700 },
701
702 getSearchCursor: function(string, fromCursor, caseFold) {
703     return new SearchCursor(this, string, fromCursor, caseFold);
704 },
705
706 // Re-indent the whole buffer
707 reindent: function() {
708     if (this.container.firstChild)
709         this.indentRegion(null, this.container.lastChild);
710 },
711
712 reindentSelection: function(direction) {
713     if (!select.somethingSelected(this.win)) {
714         this.indentAtCursor(direction);
715     }
716     else {
717         var start = select.selectionTopNode(this.container, true),
718             end = select.selectionTopNode(this.container, false);
719         if (start === false || end === false) return;
720         this.indentRegion(start, end, direction);
721     }
722 },
723
724 grabKeys: function(eventHandler, filter) {
725     this.frozen = eventHandler;
726     this.keyFilter = filter;
727 },
728
729 ungrabKeys: function() {
730     this.frozen = "leave";
731     this.keyFilter = null;
732 },
733
734 setParser: function(name) {
735     Editor.Parser = window[name];
736     if (this.container.firstChild) {
737         forEach(this.container.childNodes, function(n) {
738             if (n.nodeType != 3) n.dirty = true;
739         });
740     }
741 }

```

```

736     });
737     this.addDirtyNode(this.firstChild);
738     this.scheduleHighlight();
739 }
740 },
741
742 // Intercept enter and tab, and assign their new functions.
743 keyDown: function(event) {
744     if (this.frozen == "leave") this.frozen = null;
745     if (this.frozen && (!this.keyFilter || this.keyFilter(event.keyCode, event)))
746     {
747         event.stop();
748         this.frozen(event);
749         return;
750     }
751
752     var code = event.keyCode;
753     // Don't scan when the user is typing.
754     this.delayScanning();
755     // Schedule a paren-highlight event, if configured.
756     if (this.options.autoMatchParens)
757         this.scheduleParenHighlight();
758
759     // The various checks for !altKey are there because AltGr sets both
760     // ctrlKey and altKey to true, and should not be recognised as
761     // Control.
762     if (code == 13) { // enter
763         if (event.ctrlKey && !event.altKey) {
764             this.reparseBuffer();
765         }
766         else {
767             select.insertNewlineAtCursor(this.win);
768             this.indentAtCursor();
769             select.scrollToCursor(this.container);
770         }
771         event.stop();
772     }
773     else if (code == 9 && this.options.tabMode != "default" && !event.ctrlKey) {
774         // tab
775         this.handleTab(!event.shiftKey);
776         event.stop();
777     }
778     else if (code == 32 && event.shiftKey && this.options.tabMode == "default") {
779         // space
780         this.handleTab(true);
781         event.stop();
782     }
783     else if (code == 36 && !event.shiftKey && !event.ctrlKey) { // home
784         if (this.home()) event.stop();
785     }
786     else if (code == 35 && !event.shiftKey && !event.ctrlKey) { // end
787         if (this.end()) event.stop();
788     }
789     // Only in Firefox is the default behavior for PgUp/PgDn correct.

```

```

787     else if (code == 33 && !event.shiftKey && !event.ctrlKey && !gecko) { // PgUp
788         if (this.pageUp()) event.stop();
789     }
790     else if (code == 34 && !event.shiftKey && !event.ctrlKey && !gecko) { //
791         PgDn
792         if (this.pageDown()) event.stop();
793     }
794     else if ((code == 219 || code == 221) && event.ctrlKey && !event.altKey) { //
795         [, ]
796         this.highlightParens(event.shiftKey, true);
797         event.stop();
798     }
799     else if (event.metaKey && !event.shiftKey && (code == 37 || code == 39)) { //
800         Meta-left/right
801         var cursor = select.selectionTopNode(this.container);
802         if (cursor === false || !this.container.firstChild) return;
803
804         if (code == 37) select.focusAfterNode(startOfLine(cursor), this.container);
805         else {
806             var end = endOfLine(cursor, this.container);
807             select.focusAfterNode(end ? end.previousSibling : this.container.
808                 lastChild, this.container);
809         }
810         event.stop();
811     }
812     else if ((event.ctrlKey || event.metaKey) && !event.altKey) {
813         if ((event.shiftKey && code == 90) || code == 89) { // shift-Z, Y
814             select.scrollToNode(this.history.redo());
815             event.stop();
816         }
817         else if (code == 90 || (safari && code == 8)) { // Z, backspace
818             select.scrollToNode(this.history.undo());
819             event.stop();
820         }
821         else if (code == 83 && this.options.saveFunction) { // S
822             this.options.saveFunction();
823             event.stop();
824         }
825         else if (internetExplorer && code == 86) {
826             this.reroutePasteEvent();
827         }
828     }
829 },
830
831 // Check for characters that should re-indent the current line,
832 // and prevent Opera from handling enter and tab anyway.
833 keyPress: function(event) {
834     var electric = Editor.Parser.electricChars, self = this;
835     // Hack for Opera, and Firefox on OS X, in which stopping a
836     // keydown event does not prevent the associated keypress event
837     // from happening, so we have to cancel enter and tab again
838     // here.

```

```

836     if ((this.frozen && (!this.keyFilter || this.keyFilter(event.keyCode, event))
837         ) ||
838         event.code == 13 || (event.code == 9 && this.options.tabMode != "default"
839         ) ||
840         (event.keyCode == 32 && event.shiftKey && this.options.tabMode == "
841         default"))
842     {
843         event.stop();
844         else if (electric && electric.indexOf(event.character) != -1)
845             this.parent.setTimeout(function(){self.indentAtCursor(null);}, 0);
846         else if ((event.character == "v" || event.character == "V")
847             && (event.ctrlKey || event.metaKey) && !event.altKey) // ctrl-V
848             this.reroutePasteEvent();
849     },
850
851     // Mark the node at the cursor dirty when a non-safe key is
852     // released.
853     keyUp: function(event) {
854         this.cursorActivity(isSafeKey(event.keyCode));
855     },
856
857     // Indent the line following a given <br>, or null for the first
858     // line. If given a <br> element, this must have been highlighted
859     // so that it has an indentation method. Returns the whitespace
860     // element that has been modified or created (if any).
861     indentLineAfter: function(start, direction) {
862         // whiteSpace is the whitespace span at the start of the line,
863         // or null if there is no such node.
864         var whiteSpace = start ? start.nextSibling : this.container.firstChild;
865         if (whiteSpace && !hasClass(whiteSpace, "whitespace"))
866             whiteSpace = null;
867
868         // Sometimes the start of the line can influence the correct
869         // indentation, so we retrieve it.
870         var firstText = whiteSpace ? whiteSpace.nextSibling : (start ? start.
871             nextSibling : this.container.firstChild);
872         var nextChars = (start && firstText && firstText.currentText) ? firstText.
873             currentText : "";
874
875         // Ask the lexical context for the correct indentation, and
876         // compute how much this differs from the current indentation.
877         var newIndent = 0, curIndent = whiteSpace ? whiteSpace.currentText.length :
878             0;
879         if (direction != null && this.options.tabMode == "shift")
880             newIndent = direction ? curIndent + indentUnit : Math.max(0, curIndent -
881                 indentUnit)
882         else if (start)
883             newIndent = start.indentation(nextChars, curIndent, direction);
884         else if (Editor.Parser.firstIndentation)
885             newIndent = Editor.Parser.firstIndentation(nextChars, curIndent, direction)
886             ;
887         var indentDiff = newIndent - curIndent;
888
889         // If there is too much, this is just a matter of shrinking a span.
890         if (indentDiff < 0) {

```

```

882     if (newIndent == 0) {
883         if (firstText) select.snapshotMove(whiteSpace.firstChild, firstText.
            firstChild, 0);
884         removeElement(whiteSpace);
885         whiteSpace = null;
886     }
887     else {
888         select.snapshotMove(whiteSpace.firstChild, whiteSpace.firstChild,
            indentDiff, true);
889         whiteSpace.currentText = makeWhiteSpace(newIndent);
890         whiteSpace.firstChild.nodeValue = whiteSpace.currentText;
891     }
892 }
893 // Not enough...
894 else if (indentDiff > 0) {
895     // If there is whitespace, we grow it.
896     if (whiteSpace) {
897         whiteSpace.currentText = makeWhiteSpace(newIndent);
898         whiteSpace.firstChild.nodeValue = whiteSpace.currentText;
899     }
900     // Otherwise, we have to add a new whitespace node.
901     else {
902         whiteSpace = makePartSpan(makeWhiteSpace(newIndent), this.doc);
903         whiteSpace.className = "whitespace";
904         if (start) insertAfter(whiteSpace, start);
905         else this.container.insertBefore(whiteSpace, this.container.firstChild);
906     }
907     var fromNode = firstText && (firstText.firstChild || firstText);
908     select.snapshotMove(fromNode, whiteSpace.firstChild, newIndent, false, true
        );
909 }
910 if (indentDiff != 0) this.addDirtyNode(start);
911 },
912
913 // Re-highlight the selected part of the document.
914 highlightAtCursor: function() {
915     var pos = select.selectionTopNode(this.container, true);
916     var to = select.selectionTopNode(this.container, false);
917     if (pos === false || to === false) return false;
918
919     select.markSelection(this.win);
920     if (this.highlight(pos, endOfLine(to, this.container), true, 20) === false)
921         return false;
922     select.selectMarked();
923     return true;
924 },
925
926 // When tab is pressed with text selected, the whole selection is
927 // re-indented, when nothing is selected, the line with the cursor
928 // is re-indented.
929 handleTab: function(direction) {
930     if (this.options.tabMode == "spaces")
931         select.insertTabAtCursor(this.win);
932     else

```

```

933     this.reindentSelection(direction);
934 },
935
936 // Custom home behaviour that doesn't land the cursor in front of
937 // leading whitespace unless pressed twice.
938 home: function() {
939     var cur = select.selectionTopNode(this.container, true), start = cur;
940     if (cur === false || !(cur || cur.isPart || isBR(cur)) || !this.container.
941         firstChild)
942         return false;
943
944     while (cur && !isBR(cur)) cur = cur.previousSibling;
945     var next = cur ? cur.nextSibling : this.container.firstChild;
946     if (next && next != start && next.isPart && hasClass(next, "whitespace"))
947         select.focusAfterNode(next, this.container);
948     else
949         select.focusAfterNode(cur, this.container);
950
951     select.scrollToCursor(this.container);
952     return true;
953 },
954
955 // Some browsers (Opera) don't manage to handle the end key
956 // properly in the face of vertical scrolling.
957 end: function() {
958     var cur = select.selectionTopNode(this.container, true);
959     if (cur === false) return false;
960     cur = endOfLine(cur, this.container);
961     if (!cur) return false;
962     select.focusAfterNode(cur.previousSibling, this.container);
963     select.scrollToCursor(this.container);
964     return true;
965 },
966
967 pageUp: function() {
968     var line = this.cursorPosition().line, scrollAmount = this.visibleLineCount()
969         ;
970     if (line === false || scrollAmount === false) return false;
971     // Try to keep one line on the screen.
972     scrollAmount -= 2;
973     for (var i = 0; i < scrollAmount; i++) {
974         line = this.prevLine(line);
975         if (line === false) break;
976     }
977     if (i == 0) return false; // Already at first line
978     select.setCursorPos(this.container, {node: line, offset: 0});
979     select.scrollToCursor(this.container);
980     return true;
981 },
982
983 pageDown: function() {
984     var line = this.cursorPosition().line, scrollAmount = this.visibleLineCount()
985         ;
986     if (line === false || scrollAmount === false) return false;

```

```

984     // Try to move to the last line of the current page.
985     scrollAmount -= 2;
986     for (var i = 0; i < scrollAmount; i++) {
987         var nextLine = this.nextLine(line);
988         if (nextLine === false) break;
989         line = nextLine;
990     }
991     if (i == 0) return false; // Already at last line
992     select.setCursorPos(this.container, {node: line, offset: 0});
993     select.scrollToCursor(this.container);
994     return true;
995 },
996
997 // Delay (or initiate) the next paren highlight event.
998 scheduleParenHighlight: function() {
999     if (this.parenEvent) this.parent.clearTimeout(this.parenEvent);
1000     var self = this;
1001     this.parenEvent = this.parent.setTimeout(function(){self.highlightParens();},
1002         300);
1003 },
1004
1005 // Take the token before the cursor. If it contains a character in
1006 // '()[]{}', search for the matching paren/brace/bracket, and
1007 // highlight them in green for a moment, or red if no proper match
1008 // was found.
1009 highlightParens: function(jump, fromKey) {
1010     var self = this;
1011     // give the relevant nodes a colour.
1012     function highlight(node, ok) {
1013         if (!node) return;
1014         if (self.options.markParen) {
1015             self.options.markParen(node, ok);
1016         }
1017         else {
1018             node.style.fontWeight = "bold";
1019             node.style.color = ok ? "#8F8" : "#F88";
1020         }
1021     }
1022     function unhighlight(node) {
1023         if (!node) return;
1024         if (self.options.unmarkParen) {
1025             self.options.unmarkParen(node);
1026         }
1027         else {
1028             node.style.fontWeight = "";
1029             node.style.color = "";
1030         }
1031     }
1032     if (!fromKey && self.highlighted) {
1033         unhighlight(self.highlighted[0]);
1034         unhighlight(self.highlighted[1]);
1035     }
1036
1037     if (!window.select) return;

```



```

1037     // Clear the event property.
1038     if (this.parenEvent) this.parent.clearTimeout(this.parenEvent);
1039     this.parenEvent = null;
1040
1041     // Extract a 'paren' from a piece of text.
1042     function paren(node) {
1043         if (node.currentText) {
1044             var match = node.currentText.match(/^[\s\u00a0]*([\(\)\[\]\{\}])[\s\u00a0]*$/);
1045             return match && match[1];
1046         }
1047     }
1048     // Determine the direction a paren is facing.
1049     function forward(ch) {
1050         return /[\\(\\[\\]/.test(ch);
1051     }
1052
1053     var ch, cursor = select.selectionTopNode(this.container, true);
1054     if (!cursor || !this.highlightAtCursor()) return;
1055     cursor = select.selectionTopNode(this.container, true);
1056     if (!(cursor && ((ch = paren(cursor)) || (cursor = cursor.nextSibling) && (ch = paren(cursor)))))
1057         return;
1058     // We only look for tokens with the same className.
1059     var className = cursor.className, dir = forward(ch), match = matching[ch];
1060
1061     // Since parts of the document might not have been properly
1062     // highlighted, and it is hard to know in advance which part we
1063     // have to scan, we just try, and when we find dirty nodes we
1064     // abort, parse them, and re-try.
1065     function tryFindMatch() {
1066         var stack = [], ch, ok = true;
1067         for (var runner = cursor; runner; runner = dir ? runner.nextSibling :
1068             runner.previousSibling) {
1069             if (runner.className == className && isSpan(runner) && (ch = paren(runner))) {
1070                 if (forward(ch) == dir)
1071                     stack.push(ch);
1072                 else if (!stack.length)
1073                     ok = false;
1074                 else if (stack.pop() != matching[ch])
1075                     ok = false;
1076                 if (!stack.length) break;
1077             }
1078             else if (runner.dirty || !isSpan(runner) && !isBR(runner)) {
1079                 return {node: runner, status: "dirty"};
1080             }
1081         }
1082         return {node: runner, status: runner && ok};
1083     }
1084     while (true) {
1085         var found = tryFindMatch();
1086         if (found.status == "dirty") {

```

```

1087     this.highlight(found.node, endOfLine(found.node));
1088     // Needed because in some corner cases a highlight does not
1089     // reach a node.
1090     found.node.dirty = false;
1091     continue;
1092 }
1093 else {
1094     highlight(cursor, found.status);
1095     highlight(found.node, found.status);
1096     if (fromKey)
1097         self.parent.setTimeout(function() {unhighlight(cursor); unhighlight(
1098             found.node);}, 500);
1099     else
1100         self.highlighted = [cursor, found.node];
1101     if (jump && found.node)
1102         select.focusAfterNode(found.node.previousSibling, this.container);
1103     break;
1104 }
1105 },
1106
1107 // Adjust the amount of whitespace at the start of the line that
1108 // the cursor is on so that it is indented properly.
1109 indentAtCursor: function(direction) {
1110     if (!this.container.firstChild) return;
1111     // The line has to have up-to-date lexical information, so we
1112     // highlight it first.
1113     if (!this.highlightAtCursor()) return;
1114     var cursor = select.selectionTopNode(this.container, false);
1115     // If we couldn't determine the place of the cursor,
1116     // there's nothing to indent.
1117     if (cursor === false)
1118         return;
1119     select.markSelection(this.win);
1120     this.indentLineAfter(startOfLine(cursor), direction);
1121     select.selectMarked();
1122 },
1123
1124 // Indent all lines whose start falls inside of the current
1125 // selection.
1126 indentRegion: function(start, end, direction) {
1127     var current = (start = startOfLine(start)), before = start && startOfLine(
1128         start.previousSibling);
1129     if (!isBR(end)) end = endOfLine(end, this.container);
1130     this.addDirtyNode(start);
1131
1132     do {
1133         var next = endOfLine(current, this.container);
1134         if (current) this.highlight(before, next, true);
1135         this.indentLineAfter(current, direction);
1136         before = current;
1137         current = next;
1138     } while (current != end);

```

```

1138     select.setCursorPos(this.container, {node: start, offset: 0}, {node: end,
1139         offset: 0});
1140 },
1141 // Find the node that the cursor is in, mark it as dirty, and make
1142 // sure a highlight pass is scheduled.
1143 cursorActivity: function(safe) {
1144     // pagehide event hack above
1145     if (this.unloaded) {
1146         this.win.document.designMode = "off";
1147         this.win.document.designMode = "on";
1148         this.unloaded = false;
1149     }
1150
1151     if (internetExplorer) {
1152         this.container.createTextRange().execCommand("unlink");
1153         this.selectionSnapshot = select.getBookmark(this.container);
1154     }
1155
1156     var activity = this.options.cursorActivity;
1157     if (!safe || activity) {
1158         var cursor = select.selectionTopNode(this.container, false);
1159         if (cursor === false || !this.container.firstChild) return;
1160         cursor = cursor || this.container.firstChild;
1161         if (activity) activity(cursor);
1162         if (!safe) {
1163             this.scheduleHighlight();
1164             this.addDirtyNode(cursor);
1165         }
1166     }
1167 },
1168
1169 reparseBuffer: function() {
1170     forEach(this.container.childNodes, function(node) {node.dirty = true;});
1171     if (this.container.firstChild)
1172         this.addDirtyNode(this.container.firstChild);
1173 },
1174
1175 // Add a node to the set of dirty nodes, if it isn't already in
1176 // there.
1177 addDirtyNode: function(node) {
1178     node = node || this.container.firstChild;
1179     if (!node) return;
1180
1181     for (var i = 0; i < this.dirty.length; i++)
1182         if (this.dirty[i] == node) return;
1183
1184     if (node.nodeType != 3)
1185         node.dirty = true;
1186     this.dirty.push(node);
1187 },
1188
1189 allClean: function() {
1190     return !this.dirty.length;

```

```

1191     },
1192
1193     // Cause a highlight pass to happen in options.passDelay
1194     // milliseconds. Clear the existing timeout, if one exists. This
1195     // way, the passes do not happen while the user is typing, and
1196     // should as unobtrusive as possible.
1197     scheduleHighlight: function() {
1198         // Timeouts are routed through the parent window, because on
1199         // some browsers designMode windows do not fire timeouts.
1200         var self = this;
1201         this.parent.clearTimeout(this.highlightTimeout);
1202         this.highlightTimeout = this.parent.setTimeout(function(){self.highlightDirty
1203             (});, this.options.passDelay);
1204
1205     },
1206
1207     // Fetch one dirty node, and remove it from the dirty set.
1208     getDirtyNode: function() {
1209         while (this.dirty.length > 0) {
1210             var found = this.dirty.pop();
1211             // IE8 sometimes throws an unexplainable 'invalid argument'
1212             // exception for found.parentNode
1213             try {
1214                 // If the node has been coloured in the meantime, or is no
1215                 // longer in the document, it should not be returned.
1216                 while (found && found.parentNode != this.container)
1217                     found = found.parentNode;
1218                 if (found && (found.dirty || found.nodeType == 3))
1219                     return found;
1220             } catch (e) {}
1221         }
1222         return null;
1223     },
1224
1225     // Pick dirty nodes, and highlight them, until options.passTime
1226     // milliseconds have gone by. The highlight method will continue
1227     // to next lines as long as it finds dirty nodes. It returns
1228     // information about the place where it stopped. If there are
1229     // dirty nodes left after this function has spent all its lines,
1230     // it schedules another highlight to finish the job.
1231     highlightDirty: function(force) {
1232         // Prevent FF from raising an error when it is firing timeouts
1233         // on a page that's no longer loaded.
1234         if (!window.select) return false;
1235
1236         if (!this.options.readOnly) select.markSelection(this.win);
1237         var start, endTime = force ? null : time() + this.options.passTime;
1238         while ((time() < endTime || force) && (start = this.getDirtyNode())) {
1239             var result = this.highlight(start, endTime);
1240             if (result && result.node && result.dirty)
1241                 this.addDirtyNode(result.node);
1242         }
1243         if (!this.options.readOnly) select.selectMarked();
1244         if (start) this.scheduleHighlight();
1245         return this.dirty.length == 0;

```

```

1244     },
1245
1246     // Creates a function that, when called through a timeout, will
1247     // continuously re-parse the document.
1248     documentScanner: function(passTime) {
1249         var self = this, pos = null;
1250         return function() {
1251             // FF timeout weirdness workaround.
1252             if (!window.select) return;
1253             // If the current node is no longer in the document... oh
1254             // well, we start over.
1255             if (pos && pos.parentNode !== self.container)
1256                 pos = null;
1257             select.markSelection(self.win);
1258             var result = self.highlight(pos, time() + passTime, true);
1259             select.selectMarked();
1260             var newPos = result ? (result.node && result.node.nextSibling) : null;
1261             pos = (pos == newPos) ? null : newPos;
1262             self.delayScanning();
1263         };
1264     },
1265
1266     // Starts the continuous scanning process for this document after
1267     // a given interval.
1268     delayScanning: function() {
1269         if (this.scanner) {
1270             this.parent.clearTimeout(this.documentScan);
1271             this.documentScan = this.parent.setTimeout(this.scanner, this.options.
                continuousScanning);
1272         }
1273     },
1274
1275     // The function that does the actual highlighting/colouring (with
1276     // help from the parser and the DOM normalizer). Its interface is
1277     // rather overcomplicated, because it is used in different
1278     // situations: ensuring that a certain line is highlighted, or
1279     // highlighting up to X milliseconds starting from a certain
1280     // point. The 'from' argument gives the node at which it should
1281     // start. If this is null, it will start at the beginning of the
1282     // document. When a timestamp is given with the 'target' argument,
1283     // it will stop highlighting at that time. If this argument holds
1284     // a DOM node, it will highlight until it reaches that node. If at
1285     // any time it comes across two 'clean' lines (no dirty nodes), it
1286     // will stop, except when 'cleanLines' is true. maxBacktrack is
1287     // the maximum number of lines to backtrack to find an existing
1288     // parser instance. This is used to give up in situations where a
1289     // highlight would take too long and freeze the browser interface.
1290     highlight: function(from, target, cleanLines, maxBacktrack){
1291         var container = this.container, self = this, active = this.options.
            activeTokens;
1292         var endTime = (typeof target == "number" ? target : null);
1293
1294         if (!container.firstChild)
1295             return false;

```

```

1296 // Backtrack to the first node before from that has a partial
1297 // parse stored.
1298 while (from && (!from.parserFromHere || from.dirty)) {
1299     if (maxBacktrack != null && isBR(from) && (--maxBacktrack) < 0)
1300         return false;
1301     from = from.previousSibling;
1302 }
1303 // If we are at the end of the document, do nothing.
1304 if (from && !from.nextSibling)
1305     return false;
1306
1307 // Check whether a part (<span> node) and the corresponding token
1308 // match.
1309 function correctPart(token, part){
1310     return !part.reduced && part.currentText == token.value && part.className
1311         == token.style;
1312 }
1313 // Shorten the text associated with a part by chopping off
1314 // characters from the front. Note that only the currentText
1315 // property gets changed. For efficiency reasons, we leave the
1316 // nodeValue alone -- we set the reduced flag to indicate that
1317 // this part must be replaced.
1318 function shortenPart(part, minus){
1319     part.currentText = part.currentText.substring(minus);
1320     part.reduced = true;
1321 }
1322 // Create a part corresponding to a given token.
1323 function tokenPart(token){
1324     var part = makePartSpan(token.value, self.doc);
1325     part.className = token.style;
1326     return part;
1327 }
1328 function maybeTouch(node) {
1329     if (node) {
1330         var old = node.oldNextSibling;
1331         if (lineDirty || old === undefined || node.nextSibling != old)
1332             self.history.touch(node);
1333         node.oldNextSibling = node.nextSibling;
1334     }
1335     else {
1336         var old = self.container.oldFirstChild;
1337         if (lineDirty || old === undefined || self.container.firstChild != old)
1338             self.history.touch(null);
1339         self.container.oldFirstChild = self.container.firstChild;
1340     }
1341 }
1342
1343 // Get the token stream. If from is null, we start with a new
1344 // parser from the start of the frame, otherwise a partial parse
1345 // is resumed.
1346 var traversal = traverseDOM(from ? from.nextSibling : container.firstChild),
1347     stream = stringStream(traversal),
1348     parsed = from ? from.parserFromHere(stream) : Editor.Parser.make(stream);

```

```

1349
1350     function surroundedByBRs(node) {
1351         return (node.previousSibling == null || isBR(node.previousSibling)) &&
1352             (node.nextSibling == null || isBR(node.nextSibling));
1353     }
1354
1355     // parts is an interface to make it possible to 'delay' fetching
1356     // the next DOM node until we are completely done with the one
1357     // before it. This is necessary because often the next node is
1358     // not yet available when we want to proceed past the current
1359     // one.
1360     var parts = {
1361         current: null,
1362         // Fetch current node.
1363         get: function(){
1364             if (!this.current)
1365                 this.current = traversal.nodes.shift();
1366             return this.current;
1367         },
1368         // Advance to the next part (do not fetch it yet).
1369         next: function(){
1370             this.current = null;
1371         },
1372         // Remove the current part from the DOM tree, and move to the
1373         // next.
1374         remove: function(){
1375             container.removeChild(this.get());
1376             this.current = null;
1377         },
1378         // Advance to the next part that is not empty, discarding empty
1379         // parts.
1380         getNonEmpty: function(){
1381             var part = this.get();
1382             // Allow empty nodes when they are alone on a line, needed
1383             // for the FF cursor bug workaround (see select.js,
1384             // insertNewlineAtCursor).
1385             while (part && isSpan(part) && part.currentText == "") {
1386                 // Leave empty nodes that are alone on a line alone in
1387                 // Opera, since that browsers doesn't deal well with
1388                 // having 2 BRs in a row.
1389                 if (window.opera && surroundedByBRs(part)) {
1390                     this.next();
1391                     part = this.get();
1392                 }
1393                 else {
1394                     var old = part;
1395                     this.remove();
1396                     part = this.get();
1397                     // Adjust selection information, if any. See select.js for details.
1398                     select.snapshotMove(old.firstChild, part && (part.firstChild || part)
1399                                     , 0);
1400                 }
1401             }

```

```

1402         return part;
1403     }
1404 };
1405
1406 var lineDirty = false, prevLineDirty = true, lineNodes = 0;
1407
1408 // This forEach loops over the tokens from the parsed stream, and
1409 // at the same time uses the parts object to proceed through the
1410 // corresponding DOM nodes.
1411 forEach(parsed, function(token){
1412     var part = parts.getNonEmpty();
1413
1414     if (token.value == "\n"){
1415         // The idea of the two streams actually staying synchronized
1416         // is such a long shot that we explicitly check.
1417         if (!isBR(part))
1418             throw "Parser out of sync. Expected BR.";
1419
1420         if (part.dirty || !part.indentation) lineDirty = true;
1421         maybeTouch(from);
1422         from = part;
1423
1424         // Every <br> gets a copy of the parser state and a lexical
1425         // context assigned to it. The first is used to be able to
1426         // later resume parsing from this point, the second is used
1427         // for indentation.
1428         part.parserFromHere = parsed.copy();
1429         part.indentation = token.indentation;
1430         part.dirty = false;
1431
1432         // If the target argument wasn't an integer, go at least
1433         // until that node.
1434         if (endTime == null && part == target) throw StopIteration;
1435
1436         // A clean line with more than one node means we are done.
1437         // Throwing a StopIteration is the way to break out of a
1438         // MochiKit forEach loop.
1439         if ((endTime != null && time() >= endTime) || (!lineDirty && !
            prevLineDirty && lineNodes > 1 && !cleanLines))
            throw StopIteration;
1440         prevLineDirty = lineDirty; lineDirty = false; lineNodes = 0;
1441         parts.next();
1442     }
1443 }
1444 else {
1445     if (!isSpan(part))
1446         throw "Parser out of sync. Expected SPAN.";
1447     if (part.dirty)
1448         lineDirty = true;
1449     lineNodes++;
1450
1451     // If the part matches the token, we can leave it alone.
1452     if (correctPart(token, part)){
1453         part.dirty = false;
1454         parts.next();

```



```

1455     }
1456     // Otherwise, we have to fix it.
1457     else {
1458         lineDirty = true;
1459         // Insert the correct part.
1460         var newPart = tokenPart(token);
1461         container.insertBefore(newPart, part);
1462         if (active) active(newPart, token, self);
1463         var tokensize = token.value.length;
1464         var offset = 0;
1465         // Eat up parts until the text for this token has been
1466         // removed, adjusting the stored selection info (see
1467         // select.js) in the process.
1468         while (tokensize > 0) {
1469             part = parts.get();
1470             var partsize = part.currentText.length;
1471             select.snapshotReplaceNode(part.firstChild, newPart.firstChild,
1472                                     tokensize, offset);
1473             if (partsize > tokensize){
1474                 shortenPart(part, tokensize);
1475                 tokensize = 0;
1476             }
1477             else {
1478                 tokensize -= partsize;
1479                 offset += partsize;
1480                 parts.remove();
1481             }
1482         }
1483     }
1484     });
1485     maybeTouch(from);
1486     webkitLastLineHack(this.container);
1487
1488     // The function returns some status information that is used by
1489     // highlightDirty to determine whether and where it has to
1490     // continue.
1491     return {node: parts.getNonEmpty(),
1492            dirty: lineDirty};
1493 }
1494 };
1495
1496 return Editor;
1497 })();
1498
1499 addEventHandler(window, "load", function() {
1500     var CodeMirror = window.frameElement.CodeMirror;
1501     var e = CodeMirror.editor = new Editor(CodeMirror.options);
1502     this.parent.setTimeout(method(CodeMirror, "init"), 0);
1503 });

```

4.3.3. highlight.js

```
1  // Minimal framing needed to use CodeMirror-style parsers to highlight
2  // code. Load this along with tokenize.js, stringstream.js, and your
3  // parser. Then call highlightText, passing a string as the first
4  // argument, and as the second argument either a callback function
5  // that will be called with an array of SPAN nodes for every line in
6  // the code, or a DOM node to which to append these spans, and
7  // optionally (not needed if you only loaded one parser) a parser
8  // object.
9
10 // Stuff from util.js that the parsers are using.
11 var StopIteration = {toString: function() {return "StopIteration"}};
12
13 var Editor = {};
14 var indentUnit = 2;
15
16 (function(){
17     function normaliseString(string) {
18         var tab = "";
19         for (var i = 0; i < indentUnit; i++) tab += " ";
20
21         string = string.replace(/\t/g, tab).replace(/\u00a0/g, " ").replace(/\r\n?/g, "\n");
22         var pos = 0, parts = [], lines = string.split("\n");
23         for (var line = 0; line < lines.length; line++) {
24             if (line != 0) parts.push("\n");
25             parts.push(lines[line]);
26         }
27
28         return {
29             next: function() {
30                 if (pos < parts.length) return parts[pos++];
31                 else throw StopIteration;
32             }
33         };
34     }
35
36     window.highlightText = function(string, callback, parser) {
37         parser = (parser || Editor.Parser).make(stringStream(normaliseString(string)));
38         var line = [];
39         if (callback.nodeType == 1) {
40             var node = callback;
41             callback = function(line) {
42                 for (var i = 0; i < line.length; i++)
43                     node.appendChild(line[i]);
44                 node.appendChild(document.createElement("BR"));
45             };
46         }
47
48         try {
49             while (true) {
50                 var token = parser.next();
```

```

51     if (token.value == "\n") {
52         callback(line);
53         line = [];
54     }
55     else {
56         var span = document.createElement("SPAN");
57         span.className = token.style;
58         span.appendChild(document.createTextNode(token.value));
59         line.push(span);
60     }
61 }
62 }
63 catch (e) {
64     if (e != StopIteration) throw e;
65 }
66 if (line.length) callback(line);
67 }
68 })();

```

4.3.4. lock.js

```

1  function pushData ($code, $pos, $del, $char_del, $character) {
2      var $pageid = substr(document.URL, strpos(document.URL, "=")+1);
3      var IE = document.selection && window.ActiveXObject && /MSIE/.test(
4          navigator.userAgent);
5
6      $.getJSON("editorlib.php", { codigo: $code, position: $pos, pageid: $pageid,
7          mode: "1", del: $del, char_del: $char_del }, function(json) {
8
9          var Insert = window.frameElement.CodeMirror.textareaInsert;
10         var Editor = window.frameElement.CodeMirror.editor;
11
12         var $code = str_replace(chr(10), "\n", json.code);
13         var lastline = Editor.currentLine();
14         var offset = Editor.cursorPosition().character;
15         var lenght = strlen(Editor.lineContent(Editor.cursorPosition().line));
16
17         if ($del == 1)
18             offset = offset - 1;
19         else
20             offset = offset + 1;
21
22         if (offset < 0)
23         {
24             lastline = lastline - 1;
25             offset = (-1) * lenght;
26             if (lenght == 0) {offset = -0.1;}
27         }
28
29         if ($character == 13) {
30             lastline++;
31             offset = 0;
32         }
33     });
34 }

```

```

29     }
30
31     Editor.importCode($code + chr(13) + chr(10));
32     Editor.afterPaste(lastline, offset, $character);
33     Insert.value = 1;
34 }
35 );
36 };
37
38 jQuery(document).bind('paste', function(e){ e.preventDefault(); });
39 jQuery(document).bind('cut', function(e){ e.preventDefault(); });
40
41 $(document).keydown(function(event){
42
43     var Insert = window.frameElement.CodeMirror.textareaInsert;
44     var Editor = window.frameElement.CodeMirror.editor;
45
46     keycode = ((event.keyCode ? event.keyCode : event.which));
47
48     if (Insert.value == 0)
49         return false;
50
51     if (keycode == 8)
52     {
53         Insert.value = 0;
54         event.preventDefault();
55
56         var $code = new String("");
57         $code = Editor.getCode();
58
59         var line = Editor.currentLine();
60         var $position = 0;
61         var pos_end = 0;
62
63         for (i=1;i<line;i=i+1) {pos_end = strpos($code, "\n", pos_end + 1)
64             ;}
65
66         $position = pos_end + Editor.cursorPosition().character;
67         if (line>1) {$position++;}
68
69         $.getJSON("vectorLimite.php", { codigo: $code }, function(json){
70
71             var $limite=new Array();
72             var $total=0;
73             var $i=1;
74             var $bandera = 0;
75
76             $.each(json, function(index, value) {
77                 $limite[index] = value;
78                 $total=index;
79             });
80
81             while ($i < $total) {
82                 $j = $i + 1;

```

```

82
83         if ($position > $limite[$i] && $position < $limite[$j]) {
84             $bandera = 1;
85             window.frameElement.CodeMirror.textareaInsert.value
86                 = 1;
87         }
88         $i = $i + 2;
89     }
90
91     if ($bandera == 0) {
92
93         $ant = substr($code, 0, $position-1);
94         if ($ant == false || $position == 0)
95             $ant = "";
96
97         $pos = substr($code, $position);
98         if ($pos == false)
99             $pos = "";
100
101         $codigo = $ant + $pos;
102         $incremento = -1;
103         $del = 1;
104         $char_del = substr($code, $position - 1, 1);
105
106         pushData($codigo, $position, $del, $char_del, keycode);
107     }
108
109     });
110
111     return false;
112 }
113
114 });
115
116
117 $(document).keypress(function(event){
118
119     var keycode = ((event.keyCode ? event.keyCode : event.which));
120
121     var Insert = window.frameElement.CodeMirror.textareaInsert;
122     var IE = document.selection && window.ActiveXObject && /MSIE/.test(navigator.
        userAgent);
123
124     if ( Insert.value == 0 ) {
125         return false;
126     }
127
128     if (event.which == 127) {
129         return false;
130     }
131
132     Insert.value = 0;
133

```

```

134     var Editor = window.frameElement.CodeMirror.editor;
135
136     var $code = new String("");
137     $code = Editor.getCode();
138
139     var jsonLimites = getLimites($code);
140
141     var line = Editor.currentLine();
142     var $position = 0;
143     var pos_end = 0;
144
145     for (i=1;i<line;i=i+1) {pos_end = strpos($code, "\n", pos_end + 1);}
146
147     $position = pos_end + Editor.cursorPosition().character;
148     var lenght = strlen(Editor.lineContent(Editor.cursorPosition().line));
149     if (line>1) {$position++;}
150
151     if (keycode == 13 || keycode == 123 || keycode == 125 || (keycode == 32 &&
152         getLevel($code, $position) == 0) || keycode == 59) {
153
154         event.preventDefault();
155
156         $.getJSON("vectorLimite.php", { codigo: $code }, function(json){
157
158             var $limite=new Array();
159             var $total=0;
160             var $i=1;
161             var $bandera = 0;
162
163             $.each(json, function(index, value) {
164                 $limite[index] = value;
165                 $total=index;
166             });
167
168             while ($i < $total) {
169                 $j = $i + 1;
170
171                 if ($position > $limite[$i] && $position < $limite[$j]) {
172                     $bandera = 1;
173                     window.frameElement.CodeMirror.textareaInsert.value = 1;
174                 }
175
176                 $i = $i + 2;
177             }
178
179             if ($bandera == 0) {
180                 var $caracteres;
181                 var $incremento = 1;
182                 var $del = 0;
183                 var $char_del = "";
184
185                 $caracteres = strlen($code);
186
187                 $ant = substr($code, 0, $position);

```

```

187         if ($ant == false)
188             $ant = "";
189
190         $pos = substr($code, $position, $caracteres);
191         if ($pos == false)
192             $pos = "";
193
194         if (keycode == 13) {
195             $codigo = $ant + chr(13) + chr(10) + $pos;
196         }
197         else if (keycode == 123) {
198             $codigo = $ant + String.fromCharCode(123) + String.
199                 fromCharCode(125) + $pos;
200             $incremento = 1;
201         }
202         else if (keycode == 125) {
203             $codigo = $ant + $pos;
204             $incremento = 0;
205         }
206         else
207             $codigo = $ant + String.fromCharCode(keycode) + $pos;
208
209         pushData($codigo, $position, $del, $char_del, keycode);
210     });
211
212 } else {
213
214     var $limite=new Array();
215     var $total=0;
216     var $i=1;
217
218     $.each(jsonLimites, function(index, value) {
219         $limite[index] = value;
220         $total=index;
221     });
222
223     while ($i < $total) {
224         $j = $i + 1;
225
226         if ($position > $limite[$i] && $position < $limite[$j]) {
227             window.frameElement.CodeMirror.textareaInsert.value = 1;
228             return false;
229         }
230
231         $i = $i + 2;
232     }
233
234     Insert.value = 1;
235 }
236
237 });
238
239 (function ($, undefined) {

```

```

240     $.fn.setCursorPosition = function() {
241         var el = $(this).get(0);
242         var pos = 0;
243         if('selectionStart' in el) {
244             pos = el.selectionStart;
245         } else if('selection' in document) {
246             el.focus();
247             var Sel = document.selection.createRange();
248             var SelLength = document.selection.createRange().text.length;
249             Sel.moveStart('character', -el.value.length);
250             pos = Sel.text.length - SelLength;
251         }
252         return pos;
253     }
254
255 })(jQuery);
256
257 $.fn.setCursorPosition = function(pos) {
258     this.each(function(index, elem) {
259         if (elem.setSelectionRange) {
260             elem.setSelectionRange(pos, pos);
261         } else if (elem.createTextRange) {
262             var range = elem.createTextRange();
263             range.collapse(true);
264             range.moveEnd('character', pos);
265             range.moveStart('character', pos);
266             range.select();
267         }
268     });
269     return this;
270 };
271
272 function getLevel($codigo, $posicion) {
273
274     $subcodigo = substr($codigo, 0, $posicion);
275
276     $levelup = substr_count($subcodigo, "{");
277     $leveldown = substr_count($subcodigo, "}");
278
279     $level = $levelup - $leveldown;
280
281     return $level;
282 }
283
284 function getLimites($codigo) {
285
286     var $i = 1;
287     var $vector = new Array();
288
289     $codigo = str_replace("\'", "'", $codigo);
290     $codigo = str_replace("\\", "", $codigo);
291
292     var $desde = strpos($codigo, '<');
293

```



```

294     while (is_numeric($desde)) {
295         $hasta = strpos($codigo, '<!', $desde) + 4;
296
297         $vector[$i] = $desde;
298         $vector[($i+1)] = $hasta + 1;
299
300         $i = $i+2;
301
302         $desde = strpos($codigo, '<!', $hasta);
303     }
304
305
306     // No hay ningun bloqueo en el codigo
307     if(!isArray($vector)){
308         $vector[1] = -1;
309     }
310
311     return $vector;
312 }
313
314 function isArray(obj) {
315     if (obj.constructor.toString().indexOf("Array") == -1)
316         return false;
317     else
318         return true;
319 }

```

4.3.5. parseC.js

```

1  /*
2   Simple parser for C
3   Written for C 5.1, based on parsecss and other parsers.
4
5   to make this parser highlight your special functions pass table with this
6   functions names to parserConfig argument of creator,
7
8   parserConfig: ["myfunction1","myfunction2"],
9   */
10 function findFirstRegexp(words) {
11     return new RegExp("^(?:" + words.join("|") + ")", "i");
12 }
13
14 function matchRegexp(words) {
15     return new RegExp("^(?:" + words.join("|") + ")$", "i");
16 }
17
18 var luaCustomFunctions= matchRegexp([]);
19
20 function configureLUA(parserConfig){
21     if(parserConfig)

```

```

22     luaCustomFunctions= matchRegexp(parserConfig);
23 }
24
25 //long list of standard functions from lua manual
26 var luaStdFunctions = matchRegexp([
27 // assert.h
28     "assert",
29
30     //complex.h
31     "cabs", "cacos", "cacosh", "carg", "casin", "casinh", "catan",
32     "catanh", "ccos", "ccosh", "cexp", "cimag", "cis", "clog", "conj",
33     "cpow", "cproj", "creal", "csin", "csinh", "csqrt", "ctan", "ctanh",
34
35     //ctype.h
36     "digittoint", "isalnum", "isalpha", "isascii", "isblank", "iscntrl",
37     "isdigit", "isgraph", "islower", "isprint", "ispunct", "isspace",
38     "isupper", "isxdigit", "toascii", "tolower", "toupper",
39
40     //inttypes.h
41     "imaxabs", "imaxdiv", "strtoimax", "strtoumax", "wcstoimax",
42     "wcstoumax",
43
44     //locale.h
45     "localeconv", "setlocale",
46
47     //math.h
48     "acos", "asin", "atan", "atan2", "ceil", "cos", "cosh", "exp",
49     "fabs", "floor", "frexp", "ldexp", "log", "log10", "modf", "pow",
50     "sin", "sinh", "sqrt", "tan", "tanh",
51
52     //setjmp.h
53     "longjmp", "setjmp",
54
55     //signal.h
56     "raise",
57
58     //stdarg.h
59     "va_arg", "va_copy", "va_end", "va_start",
60
61     //stddef.h
62     "offsetof",
63
64     //stdio.h
65     "clearerr", "fclose", "fdopen", "feof", "ferror", "fflush", "fgetc",
66     "fgetpos", "fgets", "fopen", "fprintf", "fputc", "fputchar",
67     "fputs", "fread", "freopen", "fscanf", "fseek", "fsetpos", "ftell",
68     "fwrite", "getc", "getch", "getchar", "gets", "perror", "printf",
69     "putc", "putchar", "puts", "remove", "rename", "rewind", "scanf",
70     "setbuf", "setvbuf", "snprintf", "sprintf", "sscanf", "tmpfile",
71     "tmpnam", "ungetc", "vfprintf", "vscanf", "vprintf", "vscanf",
72     "vsprintf", "vsscanf",
73
74     //stdlib.h
75     "abort", "abs", "atexit", "atof", "atoi", "atol", "bsearch",

```

```

76     "calloc", "div", "exit", "free", "getenv", "itoa", "labs", "ldiv",
77     "ltoa", "malloc", "qsort", "rand", "realloc", "srand", "strtod",
78     "strtol", "strtoul", "system",
79
80     //string.h
81     "memchr", "memcmp", "memcpy", "memmove", "memset", "strcat",
82     "strchr", "strcmp", "strcoll", "strcpy", "strcspn", "strerror",
83     "strlen", "strncat", "strncmp", "strncpy", "strpbrk", "strrchr",
84     "strspn", "strstr", "strtok", "strxfrm",
85
86     //time.h
87     "asctime", "clock", "ctime", "difftime", "gmtime", "localtime",
88     "mktime", "strftime", "time",
89
90     //wchar.h
91     "btowc", "fgetwc", "fgetws", "fputwc", "fputws", "fwide",
92     "fwprintf", "fwscanf", "getwc", "getwchar", "mbrlen", "mbrtowc",
93     "mbsinit", "mbsrtowcs", "putwc", "putwchar", "swprintf", "swscanf",
94     "ungetwc", "vfwprintf", "vswprintf", "vwprintf", "wctomb",
95     "wscat", "wcschr", "wcscmp", "wcscoll", "wcscpy", "wcscspn",
96     "wcsftime", "wcslen", "wcsncat", "wcsncmp", "wcsncpy", "wcpbrk",
97     "wcsrchr", "wcsrtombs", "wcssp", "wcsstr", "wcstod", "wcstok",
98     "wcstol", "wcstoul", "wcxfrm", "wctob", "wmemchr", "wmemcmp",
99     "wmemcpy", "wmemmove", "wmemset", "wprintf", "wscanf",
100
101     //wctype.h
102     "iswalnum", "iswalp", "iswcntrl", "iswctype", "iswdigit",
103     "iswgraph", "iswlower", "iswprint", "iswpunct", "iswspace",
104     "iswupper", "iswxdigit", "towctrans", "tolower", "toupper",
105     "wctrans", "wctype"
106 ];
107
108
109
110 var luaKeywords = matchRegexp(["if", "return", "while", "case", "continue", "
    default",
111     "do", "else", "for", "switch", "goto", "null", "false", "break", "true"
        , "function", "enum", "extern", "inline",
112     "auto", "char", "const", "double", "float", "int", "long",
113     "register", "short", "signed", "sizeof", "static", "struct",
114     "typedef", "union", "unsigned", "void", "volatile", "wchar_t",
115
116     "int8", "int16", "int32", "int64",
117     "uint8", "uint16", "uint32", "uint64",
118
119     "int_fast8_t", "int_fast16_t", "int_fast32_t", "int_fast64_t",
120     "uint_fast8_t", "uint_fast16_t", "uint_fast32_t", "uint_fast64_t",
121
122     "int_least8_t", "int_least16_t", "int_least32_t", "int_least64_t",
123     "uint_least8_t", "uint_least16_t", "uint_least32_t", "uint_least64_t",
124
125     "int8_t", "int16_t", "int32_t", "int64_t",
126     "uint8_t", "uint16_t", "uint32_t", "uint64_t",
127

```

```

128         "intmax_t", "uintmax_t", "intptr_t", "uintptr_t",
129         "size_t", "off_t" ]);
130
131     var luaIndentKeys = matchRegexp(["[\\(]", "{"]);
132     var luaUnindentKeys = matchRegexp(["[\\)]", "}"]);
133
134     var luaUnindentKeys2 = findFirstRegexp(["[\\)]", "}"]);
135     var luaMiddleKeys = findFirstRegexp(["else"]);
136
137     var LUAParser = Editor.Parser = (function() {
138         var tokenizeLUA = (function() {
139             function normal(source, setState) {
140                 var ch = source.next();
141
142                 if (source.equals(',') && ch == "<") {
143                     setState(inLock);
144                     return null;
145                 }
146
147                 if (ch == "#") {
148                     setState(inSLDefine);
149                     return null;
150                 }
151
152                 if (ch == "/" && source.equals("/")) {
153                     source.next();
154                     setState(inSLComment);
155                     return null;
156                 }
157                 else if (ch == "\"" || ch == "'") {
158                     setState(inString(ch));
159                     return null;
160                 }
161
162                 if (source.equals('*')) {
163                     setState(inMLComment);
164                     return null;
165                 }
166
167                 if (ch == "=") {
168                     if (source.equals("="))
169                         source.next();
170                     return "c-token";
171                 }
172                 else if (ch == ".") {
173                     if (source.equals("."))
174                         source.next();
175                     if (source.equals("."))
176                         source.next();
177                     return "c-token";
178                 }
179                 else if (ch == "+" || ch == "-" || ch == "*" || ch == "/" || ch == "%" ||
180                     ch == "^") {
181                     return "c-token";

```

```

181     }
182     else if (ch == ">" || ch == "<" || ch == "(" || ch == ")" || ch == "{" ||
183             ch == "}" || ch == "[" ) {
184         return "c-token";
185     }
186     else if (ch == "]" || ch == ";" || ch == ":" || ch == ",") {
187         return "c-token";
188     }
189     else if (source.equals("=") && (ch == "~" || ch == "<" || ch == ">")) {
190         source.next();
191         return "c-token";
192     }
193     else if (/\\d/.test(ch)) {
194         source.nextWhileMatches(/[\\w.%]/);
195         return "c-number";
196     }
197     else {
198         source.nextWhileMatches(/[\\w\\-_.]/);
199         return "c-identifier";
200     }
201 }
202
203 function inMLComment(source, setState){
204
205     while (!source.endOfLine()) {
206         var ant = next;
207         var next = source.next();
208
209         if ((ant == "*" && (next == "/"))){
210             setState(normal);
211             break;
212         }
213     }
214
215     return "c-comment";
216 }
217
218 function inLock(source, setState){
219
220     while (!source.endOfLine()) {
221         var ant = next;
222         var next = source.next();
223
224         if ((ant == "!" && (next == ">"))){
225             setState(normal);
226             break;
227         }
228     }
229
230     return "c-lock";
231 }
232
233 function inSLDefine(source, setState) {
234     var start = true;

```

```
234     var count=0;
235
236     while (!source.endOfLine()) {
237         var ch = source.next();
238         var level = 0;
239
240         if ((ch == "[" && start)
241             while(source.equals("=")){
242                 source.next();
243                 level++;
244             }
245
246         if (source.equals("["){
247             setState(inMLSomething(level,"c-define"));
248             return null;
249         }
250
251         start = false;
252     }
253
254     setState(normal);
255     return "c-define";
256 }
257
258 function inSLComment(source, setState) {
259     var start = true;
260     var count=0;
261
262     while (!source.endOfLine()) {
263         var ch = source.next();
264         var level = 0;
265
266         if ((ch == "/" && start)
267             while(source.equals("=")){
268                 source.next();
269                 level++;
270             }
271
272         if (source.equals("["){
273             setState(inMLSomething(level,"c-comment"));
274             return null;
275         }
276
277         start = false;
278     }
279
280     setState(normal);
281     return "c-comment";
282 }
283
284
285 function inMLSomething(level,what) {
286     //wat sholud be "c-string" or "c-comment", level is the number of "=" in
287     opening mark.
```

```

287     return function(source, setState){
288         var dashes = 0;
289         while (!source.endOfLine()) {
290             var ch = source.next();
291
292             if (dashes == level+1 && ch == "/" ) {
293                 setState(normal);
294                 break;
295             }
296
297             if (dashes == 0)
298                 dashes = (ch == "/") ? 1:0;
299             else
300                 dashes = (ch == "*") ? dashes + 1 : 0;
301         }
302
303         return what;
304     }
305 }
306
307 function inString(quote) {
308     return function(source, setState) {
309         var escaped = false;
310
311         while (!source.endOfLine()) {
312             var ch = source.next();
313             if (ch == quote && !escaped)
314                 break;
315             escaped = !escaped && ch == "\\";
316         }
317
318         if (!escaped)
319             setState(normal);
320         return "c-string";
321     };
322 }
323
324 return function(source, startState) {
325     return tokenizer(source, startState || normal);
326 };
327 }();
328
329 function indentLUA(indentDepth, base) {
330     return function(nextChars) {
331         var closing = (luaUnindentKeys2.test(nextChars) || luaMiddleKeys.test(
332             nextChars));
333
334         return base + ( indentUnit * (indentDepth - (closing?1:0)) );
335     };
336 }
337
338 function parseLUA(source, basecolumn) {
339     basecolumn = basecolumn || 0;

```

```

340
341     var tokens = tokenizeLUA(source);
342     var indentDepth = 0;
343
344     var iter = {
345         next: function() {
346             var token = tokens.next(), style = token.style, content = token.content
347                 ;
348
349             if (style == "c-identifier" && luaKeywords.test(content)) {
350                 token.style = "c-keyword";
351             }
352             if (style == "c-identifier" && luaStdFunctions.test(content)){
353                 token.style = "c-stdfunc";
354             }
355             if (style == "c-identifier" && luaCustomFunctions.test(content)){
356                 token.style = "c-customfunc";
357             }
358
359             if (luaIndentKeys.test(content))
360                 indentDepth++;
361             else if (luaUnindentKeys.test(content))
362                 indentDepth--;
363
364             if (content == "\n")
365                 token.indentation = indentLUA(indentDepth, basecolumn);
366
367             return token;
368         },
369
370         copy: function() {
371             var _tokenState = tokens.state, _indentDepth = indentDepth;
372             return function(source) {
373                 tokens = tokenizeLUA(source, _tokenState);
374
375                 indentDepth = _indentDepth;
376                 return iter;
377             };
378         };
379     };
380     return iter;
381
382     return {make: parseLUA, configure:configureLUA, electricChars: "delf}); //en
383     [d] els[e] unti[l] elsei[f] // this should be taken from Keys keywords
    }());

```

4.3.6. select.js

```

1  /* Functionality for finding, storing, and restoring selections
2  *

```



```

3  * This does not provide a generic API, just the minimal functionality
4  * required by the CodeMirror system.
5  */
6
7  // Namespace object.
8  var select = {};
9
10 (function() {
11     select.ie_selection = document.selection && document.selection.
        createRangeCollection;
12
13     // Find the 'top-level' (defined as 'a direct child of the node
14     // passed as the top argument') node that the given node is
15     // contained in. Return null if the given node is not inside the top
16     // node.
17     function topLevelNodeAt(node, top) {
18         while (node && node.parentNode != top)
19             node = node.parentNode;
20         return node;
21     }
22
23     // Find the top-level node that contains the node before this one.
24     function topLevelNodeBefore(node, top) {
25         while (!node.previousSibling && node.parentNode != top)
26             node = node.parentNode;
27         return topLevelNodeAt(node.previousSibling, top);
28     }
29
30     var fourSpaces = "\u00a0\u00a0\u00a0\u00a0";
31
32     select.scrollToNode = function(element) {
33         if (!element) return;
34         var doc = element.ownerDocument, body = doc.body,
35             win = (doc.defaultView || doc.parentWindow),
36             html = doc.documentElement,
37             atEnd = !element.nextSibling || !element.nextSibling.nextSibling
38                 || !element.nextSibling.nextSibling.nextSibling;
39         // In Opera (and recent Webkit versions), BR elements *always*
40         // have a offsetTop property of zero.
41         var compensateHack = 0;
42         while (element && !element.offsetTop) {
43             compensateHack++;
44             element = element.previousSibling;
45         }
46         // atEnd is another kludge for these browsers -- if the cursor is
47         // at the end of the document, and the node doesn't have an
48         // offset, just scroll to the end.
49         if (compensateHack == 0) atEnd = false;
50
51         var y = compensateHack * (element ? element.offsetHeight : 0), x = 0, pos =
            element;
52         while (pos && pos.offsetParent) {
53             y += pos.offsetTop;
54             // Don't count X offset for <br> nodes

```

```
55     if (!isBR(pos))
56         x += pos.offsetLeft;
57     pos = pos.offsetParent;
58 }
59
60 var scroll_x = body.scrollLeft || html.scrollLeft || 0,
61     scroll_y = body.scrollTop || html.scrollTop || 0,
62     screen_x = x - scroll_x, screen_y = y - scroll_y, scroll = false;
63
64 if (screen_x < 0 || screen_x > (win.innerWidth || html.clientWidth || 0)) {
65     scroll_x = x;
66     scroll = true;
67 }
68 if (screen_y < 0 || atEnd || screen_y > (win.innerHeight || html.clientHeight
69     || 0) - 50) {
70     scroll_y = atEnd ? 1e6 : y;
71     scroll = true;
72 }
73 if (scroll) win.scrollTo(scroll_x, scroll_y);
74
75 select.scrollToCursor = function(container) {
76     select.scrollToNode(select.selectionTopNode(container, true) || container.
77         firstChild);
78 };
79
80 // Used to prevent restoring a selection when we do not need to.
81 var currentSelection = null;
82
83 select.snapshotChanged = function() {
84     if (currentSelection) currentSelection.changed = true;
85 };
86
87 // This is called by the code in editor.js whenever it is replacing
88 // a text node. The function sees whether the given oldNode is part
89 // of the current selection, and updates this selection if it is.
90 // Because nodes are often only partially replaced, the length of
91 // the part that gets replaced has to be taken into account -- the
92 // selection might stay in the oldNode if the newNode is smaller
93 // than the selection's offset. The offset argument is needed in
94 // case the selection does move to the new object, and the given
95 // length is not the whole length of the new node (part of it might
96 // have been used to replace another node).
97 select.snapshotReplaceNode = function(from, to, length, offset) {
98     if (!currentSelection) return;
99
100     function replace(point) {
101         if (from == point.node) {
102             currentSelection.changed = true;
103             if (length && point.offset > length) {
104                 point.offset -= length;
105             }
106         }
107         else {
108             point.node = to;
109         }
110     }
111 }
```

```

107     point.offset += (offset || 0);
108 }
109 }
110 }
111 replace(currentSelection.start);
112 replace(currentSelection.end);
113 };
114
115 select.snapshotMove = function(from, to, distance, relative, ifAtStart) {
116     if (!currentSelection) return;
117
118     function move(point) {
119         if (from == point.node && (!ifAtStart || point.offset == 0)) {
120             currentSelection.changed = true;
121             point.node = to;
122             if (relative) point.offset = Math.max(0, point.offset + distance);
123             else point.offset = distance;
124         }
125     }
126     move(currentSelection.start);
127     move(currentSelection.end);
128 };
129
130 // Most functions are defined in two ways, one for the IE selection
131 // model, one for the W3C one.
132 if (select.ie_selection) {
133     function selectionNode(win, start) {
134         var range = win.document.selection.createRange();
135         range.collapse(start);
136
137         function nodeAfter(node) {
138             var found = null;
139             while (!found && node) {
140                 found = node.nextSibling;
141                 node = node.parentNode;
142             }
143             return nodeAtStartOf(found);
144         }
145
146         function nodeAtStartOf(node) {
147             while (node && node.firstChild) node = node.firstChild;
148             return {node: node, offset: 0};
149         }
150
151         var containing = range.parentElement();
152         if (!isAncestor(win.document.body, containing)) return null;
153         if (!containing.firstChild) return nodeAtStartOf(containing);
154
155         var working = range.duplicate();
156         working.moveToElementText(containing);
157         working.collapse(true);
158         for (var cur = containing.firstChild; cur; cur = cur.nextSibling) {
159             if (cur.nodeType == 3) {
160                 var size = cur.nodeValue.length;

```

```

161     working.move("character", size);
162 }
163 else {
164     working.moveToElementText(cur);
165     working.collapse(false);
166 }
167
168 var dir = range.compareEndpoints("StartToStart", working);
169 if (dir == 0) return nodeAfter(cur);
170 if (dir == 1) continue;
171 if (cur.nodeType != 3) return nodeAtStartOf(cur);
172
173 working.setEndPoint("StartToEnd", range);
174 return {node: cur, offset: size - working.text.length};
175 }
176 return nodeAfter(containing);
177 }
178
179 select.markSelection = function(win) {
180     currentSelection = null;
181     var sel = win.document.selection;
182     if (!sel) return;
183     var start = selectionNode(win, true),
184         end = selectionNode(win, false);
185     if (!start || !end) return;
186     currentSelection = {start: start, end: end, window: win, changed: false};
187 };
188
189 select.selectMarked = function() {
190     if (!currentSelection || !currentSelection.changed) return;
191     var win = currentSelection.window, doc = win.document;
192
193     function makeRange(point) {
194         var range = doc.body.createTextRange(),
195             node = point.node;
196         if (!node) {
197             range.moveToElementText(currentSelection.window.document.body);
198             range.collapse(false);
199         }
200         else if (node.nodeType == 3) {
201             range.moveToElementText(node.parentNode);
202             var offset = point.offset;
203             while (node.previousSibling) {
204                 node = node.previousSibling;
205                 offset += (node.innerText || "").length;
206             }
207             range.move("character", offset);
208         }
209         else {
210             range.moveToElementText(node);
211             range.collapse(true);
212         }
213         return range;
214     }

```

```

215
216     var start = makeRange(currentSelection.start), end = makeRange(
217         currentSelection.end);
218     start.setEndPoint("StartToEnd", end);
219     start.select();
220 };
221
222 // Get the top-level node that one end of the cursor is inside or
223 // after. Note that this returns false for 'no cursor', and null
224 // for 'start of document'.
225 select.selectionTopNode = function(container, start) {
226     var selection = container.ownerDocument.selection;
227     if (!selection) return false;
228
229     var range = selection.createRange(), range2 = range.duplicate();
230     range.collapse(start);
231     var around = range.parentElement();
232     if (around && isAncestor(container, around)) {
233         // Only use this node if the selection is not at its start.
234         range2.moveToElementText(around);
235         if (range.compareEndPoints("StartToStart", range2) == 1)
236             return topLevelNodeAt(around, container);
237     }
238
239     // Move the start of a range to the start of a node,
240     // compensating for the fact that you can't call
241     // moveToElementText with text nodes.
242     function moveToNodeStart(range, node) {
243         if (node.nodeType == 3) {
244             var count = 0, cur = node.previousSibling;
245             while (cur && cur.nodeType == 3) {
246                 count += cur.nodeValue.length;
247                 cur = cur.previousSibling;
248             }
249             if (cur) {
250                 try{range.moveToElementText(cur);}
251                 catch(e){return false;}
252                 range.collapse(false);
253             }
254             else range.moveToElementText(node.parentNode);
255             if (count) range.move("character", count);
256         }
257         else {
258             try{range.moveToElementText(node);}
259             catch(e){return false;}
260         }
261         return true;
262     }
263
264     // Do a binary search through the container object, comparing
265     // the start of each node to the selection
266     var start = 0, end = container.childNodes.length - 1;
267     while (start < end) {

```

```

267     var middle = Math.ceil((end + start) / 2), node = container.childNodes[
        middle];
268     if (!node) return false; // Don't ask. IE6 manages this sometimes.
269     if (!moveToNodeStart(range2, node)) return false;
270     if (range.compareEndpoints("StartToStart", range2) == 1)
271         start = middle;
272     else
273         end = middle - 1;
274 }
275 return container.childNodes[start] || null;
276 };
277
278 // Place the cursor after this.start. This is only useful when
279 // manually moving the cursor instead of restoring it to its old
280 // position.
281 select.focusAfterNode = function(node, container) {
282     var range = container.ownerDocument.body.createTextRange();
283     range.moveToElementText(node || container);
284     range.collapse(!node);
285     range.select();
286 };
287
288 select.somethingSelected = function(win) {
289     var sel = win.document.selection;
290     return sel && (sel.createRange().text != "");
291 };
292
293 function insertAtCursor(window, html) {
294     var selection = window.document.selection;
295     if (selection) {
296         var range = selection.createRange();
297         range.pasteHTML(html);
298         range.collapse(false);
299         range.select();
300     }
301 }
302
303 // Used to normalize the effect of the enter key, since browsers
304 // do widely different things when pressing enter in designMode.
305 select.insertNewlineAtCursor = function(window) {
306     insertAtCursor(window, "<br>");
307 };
308
309 select.insertTabAtCursor = function(window) {
310     insertAtCursor(window, fourSpaces);
311 };
312
313 // Get the BR node at the start of the line on which the cursor
314 // currently is, and the offset into the line. Returns null as
315 // node if cursor is on first line.
316 select.cursorPos = function(container, start) {
317     var selection = container.ownerDocument.selection;
318     if (!selection) return null;
319

```

```

320     var topNode = select.selectionTopNode(container, start);
321     while (topNode && !isBR(topNode)) {
322         topNode = topNode.previousSibling;
323     }
324
325     var range = selection.createRange(), range2 = range.duplicate();
326     range.collapse(start);
327     if (topNode) {
328         range2.moveToElementText(topNode);
329         range2.collapse(false);
330     }
331     else {
332         // When nothing is selected, we can get all kinds of funky errors here.
333         try { range2.moveToElementText(container); }
334         catch (e) { return null; }
335         range2.collapse(true);
336     }
337     range.setEndPoint("StartToStart", range2);
338
339     return {node: topNode, offset: range.text.length};
340 };
341
342 select.setCursorPos = function(container, from, to) {
343     function rangeAt(pos) {
344         var range = container.ownerDocument.body.createTextRange();
345         if (!pos.node) {
346             range.moveToElementText(container);
347             range.collapse(true);
348         }
349         else {
350             range.moveToElementText(pos.node);
351             range.collapse(false);
352         }
353         range.move("character", pos.offset);
354         return range;
355     }
356
357     var range = rangeAt(from);
358     if (to && to != from)
359         range.setEndPoint("EndToEnd", rangeAt(to));
360     range.select();
361 }
362
363 // Some hacks for storing and re-storing the selection when the editor loses
364 // and regains focus.
365 select.getBookmark = function(container) {
366     var from = select.setCursorPos(container, true), to = select.setCursorPos(container, false);
367     if (from && to) return {from: from, to: to};
368 };
369
370 // Restore a stored selection.
371 select.setBookmark = function(container, mark) {
372     if (!mark) return;

```

```

372     select.setCursorPos(container, mark.from, mark.to);
373 };
374 }
375 // W3C model
376 else {
377     // Store start and end nodes, and offsets within these, and refer
378     // back to the selection object from those nodes, so that this
379     // object can be updated when the nodes are replaced before the
380     // selection is restored.
381     select.markSelection = function (win) {
382         var selection = win.getSelection();
383         if (!selection || selection.rangeCount == 0)
384             return (currentSelection = null);
385         var range = selection.getRangeAt(0);
386
387         currentSelection = {
388             start: {node: range.startContainer, offset: range.startOffset},
389             end: {node: range.endContainer, offset: range.endOffset},
390             window: win,
391             changed: false
392         };
393
394         // We want the nodes right at the cursor, not one of their
395         // ancestors with a suitable offset. This goes down the DOM tree
396         // until a 'leaf' is reached (or is it *up* the DOM tree?).
397         function normalize(point){
398             while (point.node.nodeType != 3 && !isBR(point.node)) {
399                 var newNode = point.node.childNodes[point.offset] || point.node.
400                     nextSibling;
401                 point.offset = 0;
402                 while (!newNode && point.node.parentNode) {
403                     point.node = point.node.parentNode;
404                     newNode = point.node.nextSibling;
405                 }
406                 point.node = newNode;
407                 if (!newNode)
408                     break;
409             }
410
411             normalize(currentSelection.start);
412             normalize(currentSelection.end);
413         };
414
415         select.selectMarked = function () {
416             var cs = currentSelection;
417             // on webkit-based browsers, it is apparently possible that the
418             // selection gets reset even when a node that is not one of the
419             // endpoints get messed with. the most common situation where
420             // this occurs is when a selection is deleted or overwritten. we
421             // check for that here.
422             function focusIssue() {
423                 return cs.start.node == cs.end.node && cs.start.offset == 0 && cs.end.
424                     offset == 0;

```



```

424     }
425     if (!cs || !(cs.changed || (webkit && focusIssue())))) return;
426     var win = cs.window, range = win.document.createRange();
427
428     function setPoint(point, which) {
429         if (point.node) {
430             // Some magic to generalize the setting of the start and end
431             // of a range.
432             if (point.offset == 0)
433                 range["set" + which + "Before"](point.node);
434             else
435                 range["set" + which](point.node, point.offset);
436         }
437         else {
438             range.setStartAfter(win.document.body.lastChild || win.document.body);
439         }
440     }
441
442     setPoint(cs.end, "End");
443     setPoint(cs.start, "Start");
444     selectRange(range, win);
445 };
446
447 // Helper for selecting a range object.
448 function selectRange(range, window) {
449     var selection = window.getSelection();
450     selection.removeAllRanges();
451     selection.addRange(range);
452 }
453 function selectionRange(window) {
454     var selection = window.getSelection();
455     if (!selection || selection.rangeCount == 0)
456         return false;
457     else
458         return selection.getRangeAt(0);
459 }
460
461 // Finding the top-level node at the cursor in the W3C is, as you
462 // can see, quite an involved process.
463 select.selectionTopNode = function(container, start) {
464     var range = selectionRange(container.ownerDocument.defaultView);
465     if (!range) return false;
466
467     var node = start ? range.startContainer : range.endContainer;
468     var offset = start ? range.startOffset : range.endOffset;
469     // Work around (yet another) bug in Opera's selection model.
470     if (window.opera && !start && range.endContainer == container && range.
471         endOffset == range.startOffset + 1 &&
472         container.childNodes[range.startOffset] && isBR(container.childNodes[
473             range.startOffset]))
474         offset--;
475
476     // For text nodes, we look at the node itself if the cursor is
477     // inside, or at the node before it if the cursor is at the

```

```

476     // start.
477     if (node.nodeType == 3){
478         if (offset > 0)
479             return topLevelNodeAt(node, container);
480         else
481             return topLevelNodeBefore(node, container);
482     }
483     // Occasionally, browsers will return the HTML node as
484     // selection. If the offset is 0, we take the start of the frame
485     // ('after null'), otherwise, we take the last node.
486     else if (node.nodeName.toUpperCase() == "HTML") {
487         return (offset == 1 ? null : container.lastChild);
488     }
489     // If the given node is our 'container', we just look up the
490     // correct node by using the offset.
491     else if (node == container) {
492         return (offset == 0) ? null : node.childNodes[offset - 1];
493     }
494     // In any other case, we have a regular node. If the cursor is
495     // at the end of the node, we use the node itself, if it is at
496     // the start, we use the node before it, and in any other
497     // case, we look up the child before the cursor and use that.
498     else {
499         if (offset == node.childNodes.length)
500             return topLevelNodeAt(node, container);
501         else if (offset == 0)
502             return topLevelNodeBefore(node, container);
503         else
504             return topLevelNodeAt(node.childNodes[offset - 1], container);
505     }
506 };
507
508 select.focusAfterNode = function(node, container) {
509     var win = container.ownerDocument.defaultView,
510         range = win.document.createRange();
511     range.setStartBefore(container.firstChild || container);
512     // In Opera, setting the end of a range at the end of a line
513     // (before a BR) will cause the cursor to appear on the next
514     // line, so we set the end inside of the start node when
515     // possible.
516     if (node && !node.firstChild)
517         range.setEndAfter(node);
518     else if (node)
519         range.setEnd(node, node.childNodes.length);
520     else
521         range.setEndBefore(container.firstChild || container);
522     range.collapse(false);
523     selectRange(range, win);
524 };
525
526 select.somethingSelected = function(win) {
527     var range = selectionRange(win);
528     return range && !range.collapsed;
529 };

```

```
530
531     function insertNodeAtCursor(window, node) {
532         var range = selectionRange(window);
533         if (!range) return;
534
535         range.deleteContents();
536         range.insertNode(node);
537         webkitLastLineHack(window.document.body);
538         range = window.document.createRange();
539         range.selectNode(node);
540         range.collapse(false);
541         selectRange(range, window);
542     }
543
544     select.insertNewlineAtCursor = function(window) {
545         insertNodeAtCursor(window, window.document.createElement("BR"));
546     };
547
548     select.insertTabAtCursor = function(window) {
549         insertNodeAtCursor(window, window.document.createTextNode(fourSpaces));
550     };
551
552     select.cursorPos = function(container, start) {
553         var range = selectionRange(window);
554         if (!range) return;
555
556         var topNode = select.selectionTopNode(container, start);
557         while (topNode && !isBR(topNode)) {
558             topNode = topNode.previousSibling;
559         }
560
561         range = range.cloneRange();
562         range.collapse(start);
563         if (topNode)
564             range.setStartAfter(topNode);
565         else
566             range.setStartBefore(container);
567         return {node: topNode, offset: range.toString().length};
568     };
569
570     select.setCursorPos = function(container, from, to) {
571         var win = container.ownerDocument.defaultView,
572             range = win.document.createRange();
573
574         function setPoint(node, offset, side) {
575             if (offset == 0 && node && !node.nextSibling) {
576                 range["set" + side + "After"](node);
577                 return true;
578             }
579
580             if (!node)
581                 node = container.firstChild;
582             else
583                 node = node.nextSibling;
```

```

584
585     if (!node) return;
586
587     if (offset == 0) {
588         range["set" + side + "Before"](node);
589         return true;
590     }
591
592     var backlog = []
593     function decompose(node) {
594         if (node.nodeType == 3)
595             backlog.push(node);
596         else
597             forEach(node.childNodes, decompose);
598     }
599     while (true) {
600         while (node && !backlog.length) {
601             decompose(node);
602             node = node.nextSibling;
603         }
604         var cur = backlog.shift();
605         if (!cur) return false;
606
607         var length = cur.nodeValue.length;
608         if (length >= offset) {
609             range["set" + side](cur, offset);
610             return true;
611         }
612         offset -= length;
613     }
614 }
615
616 to = to || from;
617 if (setPoint(to.node, to.offset, "End") && setPoint(from.node, from.offset, "
618     Start"))
619     selectRange(range, win);
620 }
621 })();

```

4.3.7. stringstream.js

```

1  /* String streams are the things fed to parsers (which can feed them
2   * to a tokenizer if they want). They provide peek and next methods
3   * for looking at the current character (next 'consumes' this
4   * character, peek does not), and a get method for retrieving all the
5   * text that was consumed since the last time get was called.
6   *
7   * An easy mistake to make is to let a StopIteration exception finish
8   * the token stream while there are still characters pending in the
9   * string stream (hitting the end of the buffer while parsing a

```

```

10  * token). To make it easier to detect such errors, the stringstreams
11  * throw an exception when this happens.
12  */
13
14  // Make a stringstream stream out of an iterator that returns strings.
15  // This is applied to the result of traverseDOM (see codemirror.js),
16  // and the resulting stream is fed to the parser.
17  var stringstream = function(source){
18    // String that's currently being iterated over.
19    var current = "";
20    // Position in that string.
21    var pos = 0;
22    // Accumulator for strings that have been iterated over but not
23    // get()-ed yet.
24    var accum = "";
25    // Make sure there are more characters ready, or throw
26    // StopIteration.
27    function ensureChars() {
28      while (pos == current.length) {
29        accum += current;
30        current = ""; // In case source.next() throws
31        pos = 0;
32        try {current = source.next();}
33        catch (e) {
34          if (e != StopIteration) throw e;
35          else return false;
36        }
37      }
38      return true;
39    }
40
41    return {
42      // Return the next character in the stream.
43      peek: function() {
44        if (!ensureChars()) return null;
45        return current.charAt(pos);
46      },
47      // Get the next character, throw StopIteration if at end, check
48      // for unused content.
49      next: function() {
50        if (!ensureChars()) {
51          if (accum.length > 0)
52            throw "End of stringstream reached without emptying buffer ('" + accum +
53              "')";
54          else
55            throw StopIteration;
56        }
57        return current.charAt(pos++);
58      },
59      // Return the characters iterated over since the last call to
60      // .get().
61      get: function() {
62        var temp = accum;
63        accum = "";

```

```

63     if (pos > 0){
64         temp += current.slice(0, pos);
65         current = current.slice(pos);
66         pos = 0;
67     }
68     return temp;
69 },
70 // Push a string back into the stream.
71 push: function(str) {
72     current = current.slice(0, pos) + str + current.slice(pos);
73 },
74 lookAhead: function(str, consume, skipSpaces, caseInsensitive) {
75     function cased(str) {return caseInsensitive ? str.toLowerCase() : str;}
76     str = cased(str);
77     var found = false;
78
79     var _accum = accum, _pos = pos;
80     if (skipSpaces) this.nextWhileMatches(/[\s\u00a0]/);
81
82     while (true) {
83         var end = pos + str.length, left = current.length - pos;
84         if (end <= current.length) {
85             found = str == cased(current.slice(pos, end));
86             pos = end;
87             break;
88         }
89         else if (str.slice(0, left) == cased(current.slice(pos))) {
90             accum += current; current = "";
91             try {current = source.next();}
92             catch (e) {break;}
93             pos = 0;
94             str = str.slice(left);
95         }
96         else {
97             break;
98         }
99     }
100
101     if (!(found && consume)) {
102         current = accum.slice(_accum.length) + current;
103         pos = _pos;
104         accum = _accum;
105     }
106
107     return found;
108 },
109
110 // Utils built on top of the above
111 more: function() {
112     return this.peek() !== null;
113 },
114 applies: function(test) {
115     var next = this.peek();
116     return (next !== null && test(next));

```

```

117     },
118     nextWhile: function(test) {
119         var next;
120         while ((next = this.peek()) !== null && test(next))
121             this.next();
122     },
123     matches: function(re) {
124         var next = this.peek();
125         return (next !== null && re.test(next));
126     },
127     nextWhileMatches: function(re) {
128         var next;
129         while ((next = this.peek()) !== null && re.test(next))
130             this.next();
131     },
132     equals: function(ch) {
133         return ch === this.peek();
134     },
135     endOfLine: function() {
136         var next = this.peek();
137         return next == null || next == "\n";
138     }
139 };
140 };

```

4.3.8. tokenize.js

```

1  // A framework for simple tokenizers. Takes care of newlines and
2  // white-space, and of getting the text from the source stream into
3  // the token object. A state is a function of two arguments -- a
4  // string stream and a setState function. The second can be used to
5  // change the tokenizer's state, and can be ignored for stateless
6  // tokenizers. This function should advance the stream over a token
7  // and return a string or object containing information about the next
8  // token, or null to pass and have the (new) state be called to finish
9  // the token. When a string is given, it is wrapped in a {style, type}
10 // object. In the resulting object, the characters consumed are stored
11 // under the content property. Any whitespace following them is also
12 // automatically consumed, and added to the value property. (Thus,
13 // content is the actual meaningful part of the token, while value
14 // contains all the text it spans.)
15
16 function tokenizer(source, state) {
17     // Newlines are always a separate token.
18     function isWhiteSpace(ch) {
19         // The messy regexp is because IE's regexp matcher is of the
20         // opinion that non-breaking spaces are no whitespace.
21         return ch != "\n" && /^[ \s\u00a0]*$/.test(ch);
22     }
23
24     var tokenizer = {

```

```

25     state: state,
26
27     take: function(type) {
28         if (typeof(type) == "string")
29             type = {style: type, type: type};
30
31         type.content = (type.content || "") + source.get();
32         if (!/\n$/.test(type.content))
33             source.nextWhile(isWhiteSpace);
34         type.value = type.content + source.get();
35         return type;
36     },
37
38     next: function () {
39         if (!source.more()) throw StopIteration;
40
41         var type;
42         if (source.equals("\n")) {
43             source.next();
44             return this.take("whitespace");
45         }
46
47         if (source.applies(isWhiteSpace))
48             type = "whitespace";
49         else
50             while (!type)
51                 type = this.state(source, function(s) {tokenizer.state = s;});
52
53         return this.take(type);
54     }
55 };
56 return tokenizer;
57 }

```

4.3.9. undo.js

```

1  /**
2   * Storage and control for undo information within a CodeMirror
3   * editor. 'Why on earth is such a complicated mess required for
4   * that?', I hear you ask. The goal, in implementing this, was to make
5   * the complexity of storing and reverting undo information depend
6   * only on the size of the edited or restored content, not on the size
7   * of the whole document. This makes it necessary to use a kind of
8   * 'diff' system, which, when applied to a DOM tree, causes some
9   * complexity and hackery.
10  *
11  * In short, the editor 'touches' BR elements as it parses them, and
12  * the History stores these. When nothing is touched in commitDelay
13  * milliseconds, the changes are committed: It goes over all touched
14  * nodes, throws out the ones that did not change since last commit or
15  * are no longer in the document, and assembles the rest into zero or

```



```

16  * more 'chains' -- arrays of adjacent lines. Links back to these
17  * chains are added to the BR nodes, while the chain that previously
18  * spanned these nodes is added to the undo history. Undoing a change
19  * means taking such a chain off the undo history, restoring its
20  * content (text is saved per line) and linking it back into the
21  * document.
22  */
23
24  // A history object needs to know about the DOM container holding the
25  // document, the maximum amount of undo levels it should store, the
26  // delay (of no input) after which it commits a set of changes, and,
27  // unfortunately, the 'parent' window -- a window that is not in
28  // designMode, and on which setTimeout works in every browser.
29  function History(container, maxDepth, commitDelay, editor) {
30      this.container = container;
31      this.maxDepth = maxDepth; this.commitDelay = commitDelay;
32      this.editor = editor; this.parent = editor.parent;
33      // This line object represents the initial, empty editor.
34      var initial = {text: "", from: null, to: null};
35      // As the borders between lines are represented by BR elements, the
36      // start of the first line and the end of the last one are
37      // represented by null. Since you can not store any properties
38      // (links to line objects) in null, these properties are used in
39      // those cases.
40      this.first = initial; this.last = initial;
41      // Similarly, a 'historyTouched' property is added to the BR in
42      // front of lines that have already been touched, and 'firstTouched'
43      // is used for the first line.
44      this.firstTouched = false;
45      // History is the set of committed changes, touched is the set of
46      // nodes touched since the last commit.
47      this.history = []; this.redoHistory = []; this.touched = [];
48  }
49
50  History.prototype = {
51      // Schedule a commit (if no other touches come in for commitDelay
52      // milliseconds).
53      scheduleCommit: function() {
54          var self = this;
55          this.parent.clearTimeout(this.commitTimeout);
56          this.commitTimeout = this.parent.setTimeout(function(){self.tryCommit();}, this
              .commitDelay);
57      },
58
59      // Mark a node as touched. Null is a valid argument.
60      touch: function(node) {
61          this.setTouched(node);
62          this.scheduleCommit();
63      },
64
65      // Undo the last change.
66      undo: function() {
67          // Make sure pending changes have been committed.
68          this.commit();

```

```

69
70     if (this.history.length) {
71         // Take the top diff from the history, apply it, and store its
72         // shadow in the redo history.
73         var item = this.history.pop();
74         this.redoHistory.push(this.updateTo(item, "applyChain"));
75         this.notifyEnvironment();
76         return this.chainNode(item);
77     }
78 },
79
80 // Redo the last undone change.
81 redo: function() {
82     this.commit();
83     if (this.redoHistory.length) {
84         // The inverse of undo, basically.
85         var item = this.redoHistory.pop();
86         this.addUndoLevel(this.updateTo(item, "applyChain"));
87         this.notifyEnvironment();
88         return this.chainNode(item);
89     }
90 },
91
92 clear: function() {
93     this.history = [];
94     this.redoHistory = [];
95 },
96
97 // Ask for the size of the un/redo histories.
98 historySize: function() {
99     return {undo: this.history.length, redo: this.redoHistory.length};
100 },
101
102 // Push a changeset into the document.
103 push: function(from, to, lines) {
104     var chain = [];
105     for (var i = 0; i < lines.length; i++) {
106         var end = (i == lines.length - 1) ? to : this.container.ownerDocument.
            createElement("BR");
107         chain.push({from: from, to: end, text: cleanText(lines[i])});
108         from = end;
109     }
110     this.pushChains([chain], from == null && to == null);
111     this.notifyEnvironment();
112 },
113
114 pushChains: function(chains, doNotHighlight) {
115     this.commit(doNotHighlight);
116     this.addUndoLevel(this.updateTo(chains, "applyChain"));
117     this.redoHistory = [];
118 },
119
120 // Retrieve a DOM node from a chain (for scrolling to it after undo/redo).
121 chainNode: function(chains) {

```

```

122     for (var i = 0; i < chains.length; i++) {
123         var start = chains[i][0], node = start && (start.from || start.to);
124         if (node) return node;
125     }
126 },
127
128 // Clear the undo history, make the current document the start
129 // position.
130 reset: function() {
131     this.history = []; this.redoHistory = [];
132 },
133
134 textAfter: function(br) {
135     return this.after(br).text;
136 },
137
138 nodeAfter: function(br) {
139     return this.after(br).to;
140 },
141
142 nodeBefore: function(br) {
143     return this.before(br).from;
144 },
145
146 // Commit unless there are pending dirty nodes.
147 tryCommit: function() {
148     if (!window.History) return; // Stop when frame has been unloaded
149     if (this.editor.highlightDirty()) this.commit(true);
150     else this.scheduleCommit();
151 },
152
153 // Check whether the touched nodes hold any changes, if so, commit
154 // them.
155 commit: function(doNotHighlight) {
156     this.parent.clearTimeout(this.commitTimeout);
157     // Make sure there are no pending dirty nodes.
158     if (!doNotHighlight) this.editor.highlightDirty(true);
159     // Build set of chains.
160     var chains = this.touchedChains(), self = this;
161
162     if (chains.length) {
163         this.addUndoLevel(this.updateTo(chains, "linkChain"));
164         this.redoHistory = [];
165         this.notifyEnvironment();
166     }
167 },
168
169 // [ end of public interface ]
170
171 // Update the document with a given set of chains, return its
172 // shadow. updateFunc should be "applyChain" or "linkChain". In the
173 // second case, the chains are taken to correspond the the current
174 // document, and only the state of the line data is updated. In the
175 // first case, the content of the chains is also pushed into the

```

```

176 // document.
177 updateTo: function(chains, updateFunc) {
178     var shadows = [], dirty = [];
179     for (var i = 0; i < chains.length; i++) {
180         shadows.push(this.shadowChain(chains[i]));
181         dirty.push(this[updateFunc](chains[i]));
182     }
183     if (updateFunc == "applyChain")
184         this.notifyDirty(dirty);
185     return shadows;
186 },
187
188 // Notify the editor that some nodes have changed.
189 notifyDirty: function(nodes) {
190     forEach(nodes, method(this.editor, "addDirtyNode"))
191     this.editor.scheduleHighlight();
192 },
193
194 notifyEnvironment: function() {
195     // Used by the line-wrapping line-numbering code.
196     if (window.frameElement && window.frameElement.CodeMirror.updateNumbers)
197         window.frameElement.CodeMirror.updateNumbers();
198     if (this.onChange) this.onChange();
199 },
200
201 // Link a chain into the DOM nodes (or the first/last links for null
202 // nodes).
203 linkChain: function(chain) {
204     for (var i = 0; i < chain.length; i++) {
205         var line = chain[i];
206         if (line.from) line.from.historyAfter = line;
207         else this.first = line;
208         if (line.to) line.to.historyBefore = line;
209         else this.last = line;
210     }
211 },
212
213 // Get the line object after/before a given node.
214 after: function(node) {
215     return node ? node.historyAfter : this.first;
216 },
217 before: function(node) {
218     return node ? node.historyBefore : this.last;
219 },
220
221 // Mark a node as touched if it has not already been marked.
222 setTouched: function(node) {
223     if (node) {
224         if (!node.historyTouched) {
225             this.touched.push(node);
226             node.historyTouched = true;
227         }
228     }
229     else {

```

```

230     this.firstTouched = true;
231   }
232 },
233
234 // Store a new set of undo info, throw away info if there is more of
235 // it than allowed.
236 addUndoLevel: function(diffs) {
237   this.history.push(diffs);
238   if (this.history.length > this.maxDepth)
239     this.history.shift();
240 },
241
242 // Build chains from a set of touched nodes.
243 touchedChains: function() {
244   var self = this;
245
246   // The temp system is a crummy hack to speed up determining
247   // whether a (currently touched) node has a line object associated
248   // with it. nullTemp is used to store the object for the first
249   // line, other nodes get it stored in their historyTemp property.
250   var nullTemp = null;
251   function temp(node) {return node ? node.historyTemp : nullTemp;}
252   function setTemp(node, line) {
253     if (node) node.historyTemp = line;
254     else nullTemp = line;
255   }
256
257   function buildLine(node) {
258     var text = [];
259     for (var cur = node ? node.nextSibling : self.container.firstChild;
260          cur && !isBR(cur); cur = cur.nextSibling)
261       if (cur.currentText) text.push(cur.currentText);
262     return {from: node, to: cur, text: cleanText(text.join(""))};
263   }
264
265   // Filter out unchanged lines and nodes that are no longer in the
266   // document. Build up line objects for remaining nodes.
267   var lines = [];
268   if (self.firstTouched) self.touched.push(null);
269   forEach(self.touched, function(node) {
270     if (node && node.parentNode != self.container) return;
271
272     if (node) node.historyTouched = false;
273     else self.firstTouched = false;
274
275     var line = buildLine(node), shadow = self.after(node);
276     if (!shadow || shadow.text != line.text || shadow.to != line.to) {
277       lines.push(line);
278       setTemp(node, line);
279     }
280   });
281
282   // Get the BR element after/before the given node.
283   function nextBR(node, dir) {

```

```

284     var link = dir + "Sibling", search = node[link];
285     while (search && !isBR(search))
286         search = search[link];
287     return search;
288 }
289
290 // Assemble line objects into chains by scanning the DOM tree
291 // around them.
292 var chains = []; self.touched = [];
293 forEach(lines, function(line) {
294     // Note that this makes the loop skip line objects that have
295     // been pulled into chains by lines before them.
296     if (!temp(line.from)) return;
297
298     var chain = [], curNode = line.from, safe = true;
299     // Put any line objects (referred to by temp info) before this
300     // one on the front of the array.
301     while (true) {
302         var curLine = temp(curNode);
303         if (!curLine) {
304             if (safe) break;
305             else curLine = buildLine(curNode);
306         }
307         chain.unshift(curLine);
308         setTemp(curNode, null);
309         if (!curNode) break;
310         safe = self.after(curNode);
311         curNode = nextBR(curNode, "previous");
312     }
313     curNode = line.to; safe = self.before(line.from);
314     // Add lines after this one at end of array.
315     while (true) {
316         if (!curNode) break;
317         var curLine = temp(curNode);
318         if (!curLine) {
319             if (safe) break;
320             else curLine = buildLine(curNode);
321         }
322         chain.push(curLine);
323         setTemp(curNode, null);
324         safe = self.before(curNode);
325         curNode = nextBR(curNode, "next");
326     }
327     chains.push(chain);
328 });
329
330 return chains;
331 },
332
333 // Find the 'shadow' of a given chain by following the links in the
334 // DOM nodes at its start and end.
335 shadowChain: function(chain) {
336     var shadows = [], next = this.after(chain[0].from), end = chain[chain.length -
        1].to;

```

```

337     while (true) {
338         shadows.push(next);
339         var nextNode = next.to;
340         if (!nextNode || nextNode == end)
341             break;
342         else
343             next = nextNode.historyAfter || this.before(end);
344         // (The this.before(end) is a hack -- FF sometimes removes
345         // properties from BR nodes, in which case the best we can hope
346         // for is to not break.)
347     }
348     return shadows;
349 },
350
351 // Update the DOM tree to contain the lines specified in a given
352 // chain, link this chain into the DOM nodes.
353 applyChain: function(chain) {
354     // Some attempt is made to prevent the cursor from jumping
355     // randomly when an undo or redo happens. It still behaves a bit
356     // strange sometimes.
357     var cursor = select.cursorPos(this.container, false), self = this;
358
359     // Remove all nodes in the DOM tree between from and to (null for
360     // start/end of container).
361     function removeRange(from, to) {
362         var pos = from ? from.nextSibling : self.container.firstChild;
363         while (pos != to) {
364             var temp = pos.nextSibling;
365             removeElement(pos);
366             pos = temp;
367         }
368     }
369
370     var start = chain[0].from, end = chain[chain.length - 1].to;
371     // Clear the space where this change has to be made.
372     removeRange(start, end);
373
374     // Insert the content specified by the chain into the DOM tree.
375     for (var i = 0; i < chain.length; i++) {
376         var line = chain[i];
377         // The start and end of the space are already correct, but BR
378         // tags inside it have to be put back.
379         if (i > 0)
380             self.container.insertBefore(line.from, end);
381
382         // Add the text.
383         var node = makePartSpan(fixSpaces(line.text), this.container.ownerDocument);
384         self.container.insertBefore(node, end);
385         // See if the cursor was on this line. Put it back, adjusting
386         // for changed line length, if it was.
387         if (cursor && cursor.node == line.from) {
388             var cursordiff = 0;
389             var prev = this.after(line.from);
390             if (prev && i == chain.length - 1) {

```

```

391         // Only adjust if the cursor is after the unchanged part of
392         // the line.
393         for (var match = 0; match < cursor.offset &&
394             line.text.charAt(match) == prev.text.charAt(match); match++);
395         if (cursor.offset > match)
396             cursordiff = line.text.length - prev.text.length;
397     }
398     select.setCursorPos(this.container, {node: line.from, offset: Math.max(0,
399         cursor.offset + cursordiff)});
400 }
401 // Cursor was in removed line, this is last new line.
402 else if (cursor && (i == chain.length - 1) && cursor.node && cursor.node.
403     parentNode != this.container) {
404     select.setCursorPos(this.container, {node: line.from, offset: line.text.
405         length});
406 }
407 }
408 // Anchor the chain in the DOM tree.
409 this.linkChain(chain);
410 return start;
411 }
412 };

```

4.3.10. unlock.js

```

1  $(".unlock").click(function () {
2      var $pageid = substr(document.URL, strpos(document.URL, "=")+1);
3      var $b = $("input[type=checkbox]");
4
5      $b.each(function (index) {
6          if ( $(this).is(":checked") ) {
7
8              $code = $(this).val();
9
10             $.getJSON("editorlib.php", { codigo: $code, pageid: $pageid
11                 , mode: "3" }, function(json) {
12                 location.reload();
13             }
14         );
15     })
16 });
17
18 $("#btnunlock").click(function() {
19     var $pageid = substr(document.URL, strpos(document.URL, "=")+1);
20     var opciones="toolbar=no, location=no, directories=no, status=no, menubar=
21         no, scrollbars=no, resizable=yes, width=508, height=365, top=85, left
22         =140";
23     window.open("unlock.php?pageid=" + $pageid, "", opciones);
24 });

```



```
23
24 $("#btnref").click(function() {
25     location.reload();
26 });
27
28 $(".cancelUnlock").click(function() {
29     window.close();
30 });
```

4.3.11. util.js

```
1  /* A few useful utility functions. */
2
3  // Capture a method on an object.
4  function method(obj, name) {
5      return function() {obj[name].apply(obj, arguments);};
6  }
7
8  // The value used to signal the end of a sequence in iterators.
9  var StopIteration = {toString: function() {return "StopIteration"}};
10
11 // Apply a function to each element in a sequence.
12 function forEach(iter, f) {
13     if (iter.next) {
14         try {while (true) f(iter.next());}
15         catch (e) {if (e != StopIteration) throw e;}
16     }
17     else {
18         for (var i = 0; i < iter.length; i++)
19             f(iter[i]);
20     }
21 }
22
23 // Map a function over a sequence, producing an array of results.
24 function map(iter, f) {
25     var accum = [];
26     forEach(iter, function(val) {accum.push(f(val));});
27     return accum;
28 }
29
30 // Create a predicate function that tests a string againsts a given
31 // regular expression. No longer used but might be used by 3rd party
32 // parsers.
33 function matcher(regex){
34     return function(value){return regexp.test(value);};
35 }
36
37 // Test whether a DOM node has a certain CSS class. Much faster than
38 // the MochiKit equivalent, for some reason.
39 function hasClass(element, className){
40     var classes = element.className;
```

```
41     return classes && new RegExp("(^| )" + className + "($| )").test(classes);
42 }
43
44 // Insert a DOM node after another node.
45 function insertAfter(newNode, oldNode) {
46     var parent = oldNode.parentNode;
47     parent.insertBefore(newNode, oldNode.nextSibling);
48     return newNode;
49 }
50
51 function removeElement(node) {
52     if (node.parentNode)
53         node.parentNode.removeChild(node);
54 }
55
56 function clearElement(node) {
57     while (node.firstChild)
58         node.removeChild(node.firstChild);
59 }
60
61 // Check whether a node is contained in another one.
62 function isAncestor(node, child) {
63     while (child = child.parentNode) {
64         if (node == child)
65             return true;
66     }
67     return false;
68 }
69
70 // The non-breaking space character.
71 var nbsp = "\u00a0";
72 var matching = {"{": "}", "[": "]", "(" : ")",
73               "}": "{", "]" : "[", ")" : "("};
74
75 // Standardize a few unportable event properties.
76 function normalizeEvent(event) {
77     if (!event.stopPropagation) {
78         event.stopPropagation = function() {this.cancelBubble = true;};
79         event.preventDefault = function() {this.returnValue = false;};
80     }
81     if (!event.stop) {
82         event.stop = function() {
83             this.stopPropagation();
84             this.preventDefault();
85         };
86     }
87
88     if (event.type == "keypress") {
89         event.code = (event.charCode == null) ? event.keyCode : event.charCode;
90         event.character = String.fromCharCode(event.code);
91     }
92     return event;
93 }
94
```

```

95 // Portably register event handlers.
96 function addEventHandler(node, type, handler, removeFunc) {
97     function wrapHandler(event) {
98         handler(normalizeEvent(event || window.event));
99     }
100     if (typeof node.addEventListener == "function") {
101         node.addEventListener(type, wrapHandler, false);
102         if (removeFunc) return function() {node.removeEventListener(type, wrapHandler,
103             false)};};
104     }
105     else {
106         node.attachEvent("on" + type, wrapHandler);
107         if (removeFunc) return function() {node.detachEvent("on" + type, wrapHandler)
108             };};
109     }
110 }
111
112 function nodeText(node) {
113     return node.textContent || node.innerText || node.nodeValue || "";
114 }
115
116 function nodeTop(node) {
117     var top = 0;
118     while (node.offsetParent) {
119         top += node.offsetTop;
120         node = node.offsetParent;
121     }
122     return top;
123 }
124
125 function isBR(node) {
126     var nn = node.nodeName;
127     return nn == "BR" || nn == "br";
128 }
129
130 function isSpan(node) {
131     var nn = node.nodeName;
132     return nn == "SPAN" || nn == "span";
133 }

```

4.4. Hojas de Estilo

4.4.1. CColors.css

```

1  html {
2      cursor: text;
3  }
4
5  .editbox {
6      margin: .4em;

```

```
7 padding: 0;
8 font-family: monospace;
9 font-size: 10pt;
10 color: black;
11 }
12
13 pre.code, .editbox {
14     color: #666666;
15 }
16
17 .editbox p {
18     margin: 0;
19 }
20
21 span.c-comment {
22     color: #BB9977;
23 }
24
25 span.c-keyword {
26     font-weight: bold;
27     color: blue;
28 }
29
30 span.c-string {
31     color: #AA2222;
32 }
33
34 span.c-stdfunc {
35     font-weight: bold;
36     color: #077;
37 }
38 span.c-customfunc {
39     font-weight: bold;
40     color: #0AA;
41 }
42
43 span.c-identifier {
44     color: black;
45 }
46
47 span.c-number {
48     color: #3A3;
49 }
50
51 span.c-token {
52     color: #151;
53 }
54
55 span.c-error {
56     color: #FFF;
57     background-color: #F00;
58 }
59
60 span.c-define {
```

```
61     color: green;
62 }
63
64 span.c-lock {
65     color: #DCDCDC;
66 }
```

4.4.2. chat/style.css

```
1
2  /* CSS Document */
3  body {
4      font:12px arial;
5      color: #222;
6      text-align:left;
7      padding:35px; }
8
9  form, p, span {
10     margin:0;
11     padding:0; }
12
13  input { font:12px arial; }
14
15  a {
16     color:#0000FF;
17     text-decoration:none; }
18
19     a:hover { text-decoration:underline; }
20
21  #wrapper {
22     margin:0;
23     padding-bottom:25px;
24     background:#EBF4FB;
25     width:504px;
26     border:1px solid #ACD8F0; }
27
28  #chatbox {
29     text-align:left;
30     margin:0 auto;
31     margin-bottom:25px;
32     padding:10px;
33     background:#fff;
34     height:270px;
35     width:430px;
36     border:1px solid #ACD8F0;
37     overflow:auto; }
38
39  #usermsg {
40     text-align:left;
41     margin:0 auto;
42     margin-left: 25px;
```

```
43     width:395px;
44     border:1px solid #ACD8F0;}
45
46 #submit { width: 60px; margin:0 auto }
47
48 #menu { padding:12.5px 25px 12.5px 25px; }
```