mPDF

ChangeLog

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mPDF 5.4
14/02/2012
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Files changed
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mpdf.php
config.php
compress.php
classes/ttfontsuni.php
classes/barcode.php
classes/indic.php
classes/svg.php
examples/show_code.php  -----  SECURITY RISK**
examples/example49_changelog.php
examples/example57_new_mPDF_v5-3_active_forms_b (replace example57_new_mPDF_v5-3_active_forms)
includes/out.php
mpdfi/fpdi_pdf_parser.php

Files added
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classes/bmp.php
classes/directw.php
classes/form.php
classes/grad.php
classes/tocontents.php
classes/wmf.php
examples/example58_new_mPDF_v5-4_features

config.php changes
------------------
Edited: $this->allowedCSStags, $this->innerblocktags, $this->defaultCSS;  (CAPTION added in each case)
Moved: Numerous $form_.. variables are now in /classes/form.php

New config variables
--------------------
$this->bookmarkStyles = array();
$this->cacheTables = true;

New methods
-----------
function CircularText()
function SetVisibility()

New/Extended CSS
----------------
box-shadow (block elements - does NOT support "inset")
text-shadow (all text elements - does NOT support "blur")
visibility: visible|hidden|printonly|screenonly (block-level elements and images IMG only)
text-transform: capitalize|uppercase|lowercase (extended to support TD/TH)
tr|td|th:nth-child(odd|even|2n+1)
color, strikethrough, underline and background-color (extended to support rotated TD/TH)
underline and strike-through (extended to support TD/TH)
underline (line colour)  (extended to work correctly in watermark)
page-break-after: left|right|always (block elements and tables)
      NB respects $mpdf->restoreBlockPagebreaks = true; i.e. will make pagebreak act like formfeed
background[-color]: extended to support rgba|cmyka|cmyk|hsla|hsl|spot
border(extended to support inline elements)
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New HTML
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<caption>
<textcircle />


New features / Improvements
---------------------------
Tables - Zebra Stripes
Tables: overlapping rowspans (partially) supported
Tables - Disk caching
Using progress bars (or $showStats) now reports 'real' memory usage i.e. get_memory_usage(true)
Support for query string in the URLs for external stylesheets e.g. @import url("style.css?ltcyy7");
Table caption partially supported
CircularText
BookMark styling
Spread tables i.e. can split table (columns) across several pages width.
Can use chelvetica, ctimes and ccourier to specify core fonts in a non-core font document
Spread tables i.e. can split table (columns) across several pages width.
{colsum} in <tfoot> cell will insert a column total per page.
SVG embedded as island in HTML supported
Active Forms
      textarea and input (text types) now accept javascript as:
      onKeystroke, onValidate, onCalculate and onFormat
      onChange is depracated but works as onCalculate (for textarea and input)
      (PS Select still accepts onChange cf. 5.3.37)
Ledger and Tabloid added as page formats recognised. NB Ledger is same as tabloid but landscape. In
mPDF, both give the same size (portrait)
so need to add -L e.g. Ledger-L for landscape.


Internal script changes
-----------------------
Changed this->k to _MPDFK throughout all scripts
Changes to color (packed binary data in string rather than array) to reduce memory usage esp in tables
Internal variables Removed
      $usetableheader;
      $tableheadernrows;
      $tablefooternrows;
vars $ChangePage, $p_bottom_border, $img_margin_top(+) $issetcolor + other similar  removed

Removed a whole load of // comments
Updates to remove some more Warning Notices (not all marked in text)
Border set on TR - changed so set on each cell, rather than retrospectively at end of TR
All references to table['text'] removed as not needed - uses ['textbuffer'] instead
OpenTag(TD) changes to reduce memory usage with tables
Includes different method to set a default timezone
fn _smallCaps does not need (undefined) $space
this->chrs and this->ords replaced by chr() and ord()
Headers in out.php updated to match those used in Output()
Change to SetFont() to improve performance time
Change to GetStringWidth() to improve performance time
Corrected copying of Glyphs 0,1,2, to all subset fonts (non-SMP/SIP), and only setting 32->127 in
subset
Subset fonts (non-SMP/SIP) have additionally Unicode CMap tables (0,0,4 and 0,3,4) as well as
Microsoft (3,1,4)
Subset fonts (SMP/SIP) have CMap tables (1,0,6 and 3,0,4) - rather than 1,0,6 and 3,0,6
Subset fonts (SMP/SIP) have 'name' table changed to give 1,0 and 3,0. As it is a symbol font (not
Unicode encoded) :
      needs to have a name entry in 3,0 (e.g. symbol) - original font will have 3,1 (i.e. Unicode)
Automatically checks for HTML code length > 100000 characters and gives error warning if
       PHP < 5.2.0 (as not configurable) or increases pcre.backtrack_limit if PHP < 5.3.7

Removed/Depracated
------------------
function UseTableHeader($opt=true)  fn removed / depracated
function UsePRE($opt=true) removed
$attr['REPEAT_HEADER'] == true            CSS removed / depracated
$this->usepre=true; removed / depracated as never needed - always respects PRE whitespace
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ToC: NB Values can no longer be set directly e.g. as in example
      $mpdf->TOCheader = array();      // array as for setting header/footer
      $mpdf->TOCfooter = array();      // array as for setting header/footer
      $mpdf->TOCpreHTML = '<h2>Contents - Portrait</h2>';      // HTML text to appear before table of
contents
      $mpdf->TOCpostHTML = '';      // HTML text to appear after table of contents
      $mpdf->TOCbookmarkText = 'Content list';      // Text as it will appear in the Bookmarks (leave
blank for none)
Need to use TOCpagebreak either direct (or array version) or as HTML
OR if absolutley necessary, could use:
      $mpdf->tocontents->TOCheader = array();      // array as for setting header/footer
      $mpdf->tocontents->TOCfooter = array();      // array as for setting header/footer
      $mpdf->tocontents->TOCpreHTML = '<h2>Contents - Portrait</h2>';      // HTML text to appear
before table of contents
      $mpdf->tocontents->TOCpostHTML = '';      // HTML text to appear after table of contents
      $mpdf->tocontents->TOCbookmarkText = 'Content list';      // Text as it will appear in the
Bookmarks (leave blank for none)



Further Details
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CSS border on inline elements
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Support for CSS border (and variants) on inline elements e.g. <span style="border-bottom: 1px dashed
#000000;">
Border styles solid|dotted|dashed|double only are supported. Border radius not supported.
Nested inline elements will have repeat left|right borders on the nested content (unlike browsers)

Tables - Zebra Stripes
----------------------
TABLE - striped rows cf. http://dev.opera.com/articles/view/zebra-striping-tables-with-css3/
tr:nth-child(odd) { background-color: #99ff99; }
thead tr:nth-child(3n+2) { background-color: #FFBBFF; }
td:nth-child(2n+1) { background-color: #BBBBFF; }
table.zebraTable td:nth-child(2n+1) { background-color: #BBBBFF; }
table.zebraTable th:nth-child(2n+1) { background-color: #BBBBFF; }

NB mPDF does NOT correctly apply specificity to all CSS
table.zebra tbody tr:nth-child(2n+1) td { background-color: #FFFFBB; }
table.zebra tbody td:nth-child(odd) { background-color: #BBBBFF; }

should make every odd row yellow, and every odd coloumn blue, but with the row/yellow overriding the
column/blue.
In mPDF the td:nth-child(odd) trumps the plain td, so the column colour wins out. You can force the
effect you want by using
table.zebra tbody tr:nth-child(2n+1) td:nth-child(1n+0) { background-color: #FFFFBB; }

(The :nth-child(1n+0) selector just selects every td cell.)



Tables - Disk caching
---------------------
TABLES: using disk caching
// Using disk to cache table data can reduce memory usage dramatically, but at a cost of increased
// executon time and disk access (read and write)
$this->cacheTables = true;
NB          $this->packTableData will be overridden to => true;      // required for cacheTables
            $this->simpleTables will be overridden to => false;  // Cannot co-exist with cacheTables


Table caption
-------------
Must come immediately after <table...>
CSS caption-side and HTML align attribute of top|bottom supported (not attribute left|right)
Handled as a separate block element brought outside the table, so:
      CSS will not cascade correctly on the table
      width of caption block is that of page or of the block element containing the table
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      so alignment will be to the page-width not the table width
      if table page-break-after: always, the caption will follow the pagebreak.
This does work:
<style>
.tablecaption { caption-side: bottom; text-align: left; font-weight: bold; color: green; }
</style>
...
<table>
<caption class="tablecaption">Caption title here</caption>
<tbody>

CSS visibility: printonly, screenonly
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Roughly based on CSS

Works on Block elements P, DIV etc, or Image
Cannot nest / layer.
Inner blocks/image with set visibility are ignored if already set on enclosing block element.
(Block element) does not work inside table (image does)
So 'visible' does nothing but is set as default
(NB Changes output to PDF version 1.5)
Incompatible with PDFA / PDFX

'visibility'
    Value:        visible | hidden | (collapse | inherit)
    Initial:      visible
    Applies to:   all elements
    Inherited:    yes

The 'visibility' property specifies whether the boxes generated by an element are rendered.
Invisible boxes still affect layout (set the 'display' property to 'none' to suppress box generation
altogether).
Values have the following meanings:

visible
    The generated box is visible.
hidden
    The generated box is invisible (fully transparent, nothing is drawn), but still affects layout.
      Furthermore, descendants of the element will be visible if they have 'visibility: visible'.
collapse | inherit
    NOT supported in mPDF

CUSTOM:
printonly | screenonly


Added VISIBILITY function
$mpdf->SetVisibility('screenonly'); or 'printonly' 'visible' or 'hidden'
(NB Changes output to PDF version 1.5)
Incompatible with PDFA / PDFX

CircularText
------------
function CircularText($x, $y, $r, $text, $align='top', $kerning=120, $fontwidth=100) {
x: abscissa of center
y: ordinate of center
r: radius of circle
text: text to be printed
align: text alignment: top or bottom. Default value: top
kerning: spacing between letters in percentage. Default value: 120. Zero is not allowed.
fontwidth: width of letters in percentage. Default value: 100. Zero is not allowed

- now uses Kerning between letters if useKerning == true (set manually see example)

BookMark styling
----------------
New configurable variable to control appearance of Bookmarks e.g.
$this->bookmarkStyles = array(
      0 => array('color'=> array(0,64,128), 'style'=>'B'),
      1 => array('color'=> array(128,0,0), 'style'=>''),
```

```
      2 => array('color'=> array(0,128,0), 'style'=>'I'),
);

Column sums
-----------
(Also changed some preg_replace to str_replace to improve performance)
To use: just add {colsum} to any cells of the table footer <tfoot>
Add a number to specify a fixed number of decimal points e.g. <td>£{colsum2}</td>  will give you
£123.40
The width of the column will be calculated using the actual string {colsum} as a placeholder.
If you need the column to be wider, use underscores "_" to pad it e.g. {colsum2_____}


Spread tables
-------------
i.e. can split table (columns) across several pages width.
CSS <table style="overflow: visible">
Cannot use with:
$this->kwt - ignored
$this->table_rotate - ignored
$this->table_keep_together - ignored
$this->ColActive  - cancels spread tables

Messes up with:
$mpdf->forcePortraitHeaders = true;
$mpdf->forcePortraitMargins = true;
Problems with CJK, and RTL

Will do no resizing of fonts at all.
Maximum width of column = page width i.e. will not split columns across pages - NB will keep colspan>1
on one page
If table row too high for page will die with error message.
Will override some specs for width if this creates conflicts
Recommended to specify absolute value of width on each column.




Bug fixes
=========
Dottab - if text after dottab is hyperlinked <a></a> then dots are underlined

page-break-before now respects $mpdf->restoreBlockPagebreaks = true; i.e. will make pagebreak act like
formfeed
Annotation() function called directly with colorarray(r,g,b)

Added urldecode to _getImage to cope with ../name%20of%20image.jpg
Added urldecode AND htmlspecials_decode to href in <a> link e.g.
https://www.google.com/search?hl=en&amp;q=mpdf&amp;filename=name%20of%20file
[barcode.php] Allow   in C39 codes - will be changed to spaces

<table> inside a <div position:fixed, left:300px;> not calculating table width correctly
      - leading to either upside down table or error width less than 1 character

Depracated magic_quotes_runtime() in compress.php

DIRECTW included twice in compress.php
FORMS mark up for compress.php corrected

double backslashes not preserved inside <pre> or <textarea>

font-weight and font-style not recognised in <pageheader>

Progress bars causing corrupt PDF file (out.php) changed fopen from "r" mode to "rb" (binary)
Target around image - <a href="#internaltarget"><img ... /></a> - not working

SmallCaps in <thead> error

Fonts with "name" table in format 1 not recognised correctly
Rotated table which does not fit on remaining page, forces a new page even if already at top of page
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Locale causing problems - all instances of sprintf() using %.3f changed to %.3F so not locale aware

CSS border radius not implemented on fixed/absolute positioned block element

Background color in rotated table extending way beyond bottom of table

Nested table containing <thead> or <tfoot> was confused with <thead> or <tfoot> of parent table

Correct handling of spaces, < or & in textarea

<option> and <input ..> attributes value/title decoded with fn lesser_entity_decode instead of
htmlspecialchars_decode to include &apos;

line width not restored to correct value after "line-through" text in Cell()

Kannada - incorrect positioning of Reph

Forms - In <input> or <option> (select) not correctly handling HTML named entities e.g. &lt; in value
or title
Active forms -   as Value or Title incorrectly showing as Euro - PDFDocEncoding fixed

Unicode data in embedded fonts not encrypted when doc encrypted

Nested block elements which are empty including innermost one, top margin of innermost block was
ignored

font-size: xx% inside a block was setting on block's parent font-size

Active forms - radio buttons (removed name from Widget - leave on Radio group)
      causing problems accessing field for radio buttons

When using simple tables and border-collapse, if table border set, but cell borders not set, should
display table border (fixed)
position:fixed block - if neither top nor bottom nor height specified, was positioned incorrectly (y)
Leave - if top, bottom, margin-top, margiin-bottom and height are all left unspecified (or auto), will
centre vertically
on the page (specific to mPDF - not consistent with CSS2.1)
But if any one of them are specified (including e.g. margin-top=0), follows CSS spec, so top is the
current "static" position

background-image-opacity=0 not working on BODY or BLOCK

Lists - if LI continues after a nested List, would add as a new LI item (should continue as part of
earlier LI item)

fn WriteCell() converts to 'windows-1252' when required
if multiple calls to mPDF used, cannot redefine function cmp()
internal link targets <a name="xx" /> in ToC not moved when using: page-break-inside:avoid
internal link targets <a name="xx" /> not moved when using: columns, page-break-inside:avoid,
keep-with-table or table rotate

Active Forms - onChange not working for SELECT (cf. 5.3.25) Example 57 only worked by chance as JS was
carried over from Select to Text field
Bug is fixed, but example file needed updating to onCalculate for the display field.

Table cell: if height set as %, currently sets it as % of page-width; instead this now ignores it.

Bengali letter Khanda Ta (U+09CE) character not recognised; was added in Unicode v4.1 and prior to
this, (U+09A4 U+09CD U+200D)
      so mPDF converts to this string and seems to work.

OCR characters wrong size in barcodes if using different ocr font
```