

New Features in mPDF v5.4

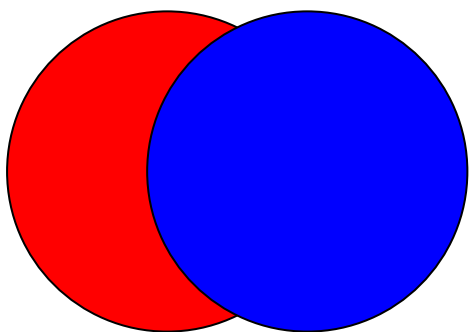
Bookmark styles

Bookmarks can be styled by adding code as below to your script. You can define a colour (array of RGB) and/or a font-style (B, I, or BI) for each level (starting at 0). Results may depend on the PDF Reader you are using.

```
$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'),
);
```

Embedded SVG code

SVG Images can be embedded in your HTML code. This is formally part of the XHTML specification and is supported by IE9+ and most other browsers.



```
<svg xmlns="http://www.w3.org/2000/svg" version="1.1" viewBox="0 0 200 200" width="200"
height="200">
  <circle cx="100" cy="50" r="40" stroke="black" stroke-width="1" fill="red" />
  <circle cx="130" cy="50" r="40" stroke="black" stroke-width="1" fill="blue" />
</svg>
```

Improved CSS support

border-radius is now supported on fixed/absolute-positioned block elements.

visibility can be set on any block-style element e.g. DIV,P or images IMG as: visible|hidden|printonly|screenonly

background-color now supports `rgba()` and `cmyka()` alpha transparency formats in tables.

Color, underline and strike-through are now supported in table cells, including with rotated text (see example below of spread table)

page-break-after: `left|right|always` is supported on all block-style elements and tables

text-transform: `capitalize|uppercase|lowercase` is supported in table cells

Zebra stripes in Tables

:nth-child() selector can be used in tables (on TR, TD or TH) to stripe rows or columns. Both the $an+b$ and odd/even forms are supported e.g.

```
tr:nth-child(2n+1) { background-color: rgba(255,255,127,0.6); } or
tr:nth-child(odd) { background-color: rgba(255,255,127,0.6); }
```

Row 1	This is data	167.00
Row 2	This is data p	444.53
Row 3	This is long data	14.00
Row 4	This is data	0.88
Row 5	Also data	144.00
Row 6	Also data	8089.00

Note: mPDF does NOT correctly apply specificity to all CSS. The following stylesheet:

```
table.zebra tbody tr:nth-child(2n+1) td { background-color: yellow; }
table.zebra tbody td:nth-child(odd) { background-color: blue; }
```

should make every odd row yellow, and every odd column 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: yellow; }
```

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

border can now be defined on in-line elements eg SPAN

- Cum sociis natoque penatibus et magnis dis parturient montes

Note: Remember that in mPDF, inside table cells, properties set on block elements are set when possible as in-line properties - so a `P` element inside a table with border set, will appear with a border around the text line as though it had been set on SPAN

Shadows

box-shadow can be defined on any block-level element (`P`, `DIV` etc). It follows the CSS3 recommendation, but *inset* is not supported.

text-shadow can be defined on any element. It follows the CSS3 recommendation, but *blur* is not supported.

```
<span style="text-shadow: 0.03em 0.03em #666, -0.015em -0.015em white;">
<div style="box-shadow: 0.3em 0.3em #888888;">
```

Other Enhancements

Column Totals (Tables)

{colsum} placed in the footer of a table will automatically display the sum of that column. If the table breaks across more than one page, the sum of the values on that page will be displayed. A number following the colsum e.g. {colsum2} will force that number of decimal places to be displayed.

Header Row	Header Row	Header Row
Row 1	This is data	167.00
Row 2	This is data p	444.53
Row 3	This is long data	14.00
Row 4	This is data	0.88
Row 5	Also data	144.00
Row 6	Also data	8089.00
Row 7	Also data	3.00
Row 8	Also data	23.00
	Column total: (using colsum2 in {})	8885.41

Table caption goes here

Table CAPTION

The caption element for tables is partially supported (see example above).

```
<caption align="top|bottom" style="caption-side: top|bottom">
```

- The caption must come immediately after <table>.
- The CSS *caption-side* or HTML *align* attribute of top|bottom supported
- Left or right placement are not supported.
- The caption is handled as a separate block element brought outside the table, so:
 - CSS will not cascade correctly from the table
 - the width of the caption block is that of page or of the block element containing the table
 - text alignment will be to the page-width not the table width
 - if table page-break-after: always, the caption will follow the pagebreak

Core fonts in non-core font document

Core fonts, which do not need to be embedded in a PDF, can now be included in a document which uses non-core fonts. The pseudo font-family names: chelvetica, ctimes and ccourier should be used.

```
<div style="font-family: chelvetica">
```

NB You could force mPDF to always use core fonts when Arial/Helvetica/Courier are specified, by editing \$this->fonttrans in config_fonts.php:

```
$this->fonttrans = array(  
'arial' => 'chelvetica',  
'helvetica' => 'chelvetica',  
'timesnewroman' => 'ctimes',  
'times' => 'ctimes',  
'couriernew' => 'ccourier',  
'courier' => 'ccourier',  
...  
)
```

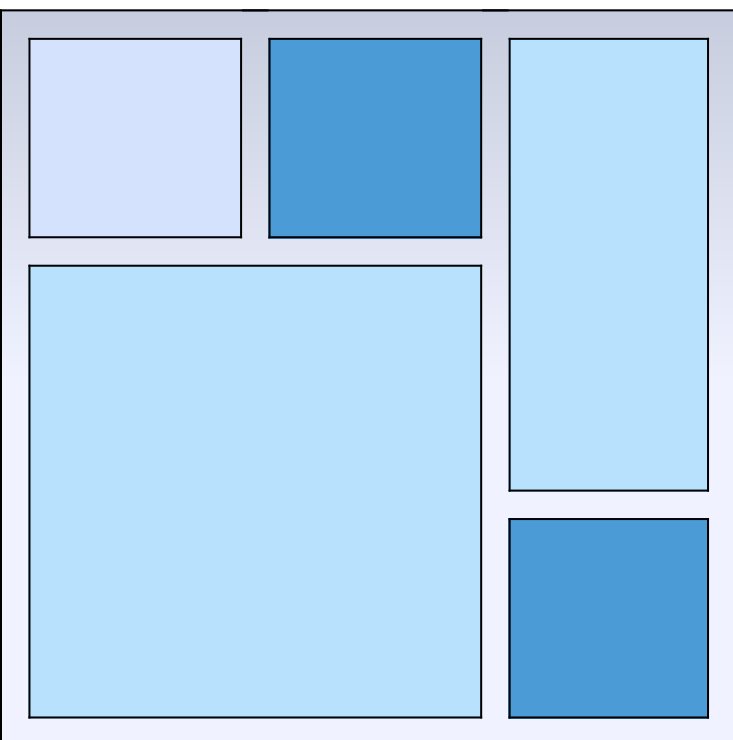
Javascript in Forms

Javascript used in (active) forms has been altered to reflect the Adobe Acrobat specification for Javascript in PDF documents.

textarea and input (text-types) now accept javascript as: onKeystroke, onValidate, onCalculate and onFormat. onChange is deprecated but is not ignored; it works as though for onCalculate. (PS Select still accepts onChange)

Overlapping Rows in Tables

Support for overlapping rowspans in tables has been improved (although probably not foolproof!)



The diagram shows a table with a light blue background. It has two rows and three columns. The top row contains three cells: a light blue square, a medium blue square, and a light blue rectangle. The bottom row contains a large light blue rectangle that overlaps the first two cells of the top row, and a medium blue square in the third column.

Circular Text

Circular Text can be included in a PDF document as a custom HTML tag (or a function)

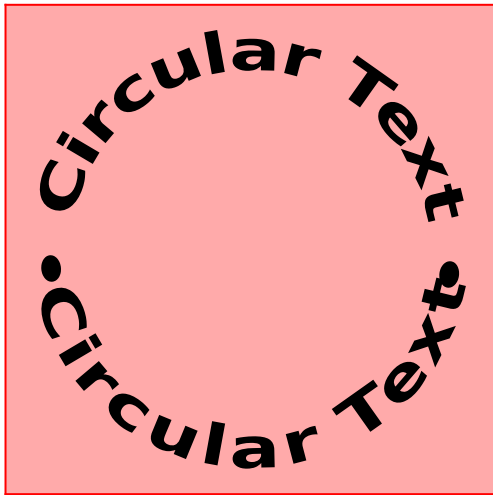
- top-text and/or bottom-text can be specified
- Radius (r) and font-size (using CSS) are user-defined
- Width and height are calculated from radius and font-size
- Other CSS styles supported on Circular Text: border, margin, padding, color, background-color, font-family, font-size, font-weight, font-style, display, visibility, and opacity
- space-width should be specified as an integer defining the letter-spacing as a percentage of normal (default 120)
- char-width should be specified as an integer defining the width of each character as a percentage of normal (default 100)
- Circular Text is displayed as though an in-line element

NB If `$mpdf->useKerning` is true then automatic kerning will be used on Circular Text.

```
<textcircle r="30mm" top-text="Circular Text Circular Text" style="color: blue; font-size: 34pt; font-style: italic" />
```

```
<textcircle r="30mm" space-width="120" char-width="150" top-text="&bull; Circular Text &bull;" bottom-text="Circular Text" style="background-color: #FFAAAA; border:1px solid red; padding: 0.3em; margin: 0.3em; color: #000000; font-size: 21pt; font-weight:bold; font-family: Arial" />
```

Circular Text Circular Text



Spread tables

Setting the CSS property "overflow: visible" on a table now has the effect of cancelling resizing, and allowing tables to split columns across multiple pages. The maximum width for a column (or group of columns set by colspan) is the page width. It is recommended to specify absolute values of width on each column (not percentages).

Periodic Table (table caption)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
H															
Li	Be											B	C	N	O
Na	Mg											Al	Si	P	S
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se
Rb	Sr	Y	Zr	Nb	Mo	Tc	<u>Ru</u>	Rh	Pd	Ag	Cd	In	Sn	Sb	Te
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po
Fr	Ra														

17	18
	He
F	Ne
Cl	Ar
Br	Kr
I	Xe
At	Rn

Limitations of Spread tables

Spread tables cannot be used with: keep-headings-with-table (`$mpdf->use_kwt`), table rotate, table page-break-inside:avoid, columns, CJK (chinese-japanese-korean) or RTL (right-to-left) languages. They will also cause problems with `$mpdf->forcePortraitHeaders` or `$mpdf->forcePortraitMargins`.

Warning: If a table row is too tall to fit on a page, mPDF will crash with an error message.

If the width settings within the table cause conflicts, it will override some of these settings.