

# New Features in mPDF v5.4

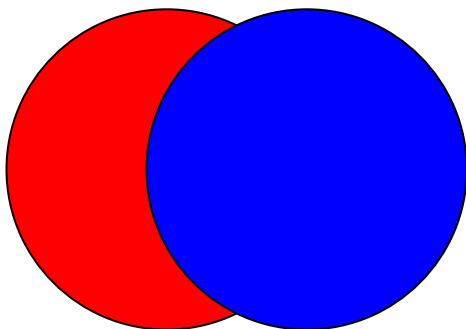
## Bookmark styles

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 {}) | <b>8885.41</b> |

**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',  
    ...  
);
```

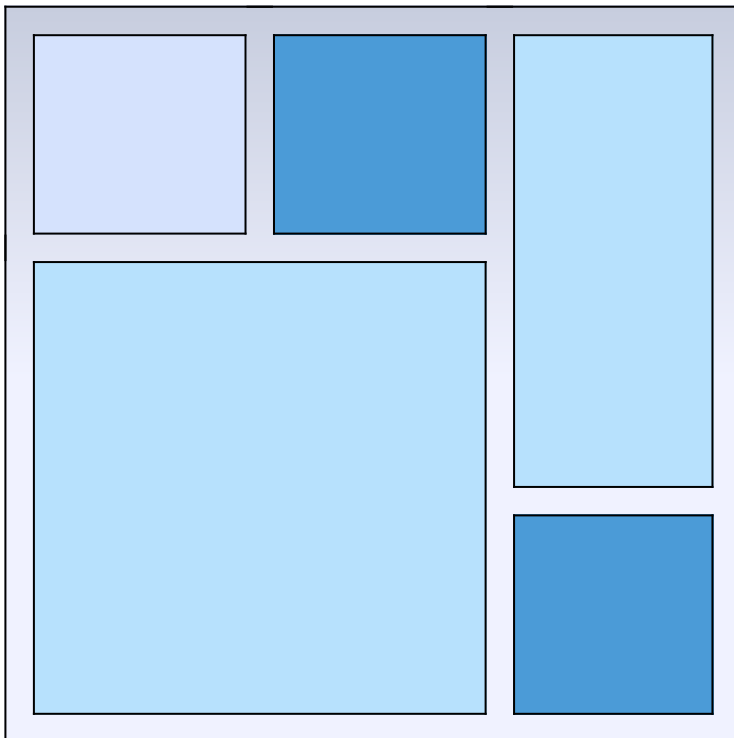
## Javascript in Forms

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!)



## Circular Text

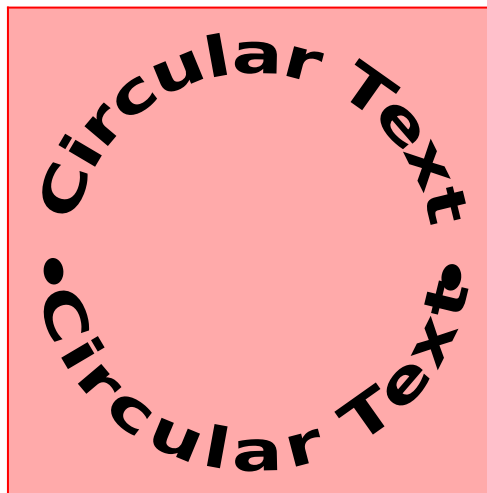
Circular Text can be included in a PDF document as a custom HTML tag (or a function)

- 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="•Circular Text Circular Text •" 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" />
```

A circular arrangement of the text "Circular Text Circular Text" in blue, italicized font. The text is curved along the top and sides of a circle.



|  |  |
|--|--|
|  |  |
|--|--|

|    |    |               |    |    |    |    |    |    |    |    |    |    |    |
|----|----|---------------|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3             | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| H  |    |               |    |    |    |    |    |    |    |    |    |    |    |
| Li | Be |               |    |    |    |    |    |    |    |    |    | B  | C  |
| Na | Mg |               |    |    |    |    |    |    |    |    |    | Al | Si |
| K  | Ca | Sc            | Ti | V  | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge |
| Rb | Sr | Y             | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn |
| Cs | Ba | <del>Lr</del> | Hf | Ta | W  | Re | Os | Ir | Pt | Au | Hg | Tl | Pb |
| Fr | Ra |               |    |    |    |    |    |    |    |    |    |    |    |

|    |    |               |    |    |    |    |    |    |    |    |    |    |    |
|----|----|---------------|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3             | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| H  |    |               |    |    |    |    |    |    |    |    |    |    |    |
| Li | Be |               |    |    |    |    |    |    |    |    |    | B  | C  |
| Na | Mg |               |    |    |    |    |    |    |    |    |    | Al | Si |
| K  | Ca | Sc            | Ti | V  | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge |
| Rb | Sr | Y             | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn |
| Cs | Ba | <del>Lr</del> | Hf | Ta | W  | Re | Os | Ir | Pt | Au | Hg | Tl | Pb |
| Fr | Ra |               |    |    |    |    |    |    |    |    |    |    |    |

|    |    |    |    |
|----|----|----|----|
| 15 | 16 | 17 | 18 |
|    |    |    | He |
| N  | O  | F  | Ne |
| P  | S  | Cl | Ar |
| As | Se | Br | Kr |
| Sb | Te | I  | Xe |
| Bi | Po | 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.