# New Features in mPDF v5.4

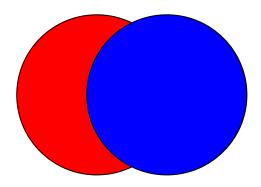
## **Bookmark styles**

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**

: n+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.

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 .
- 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',
  ...
```

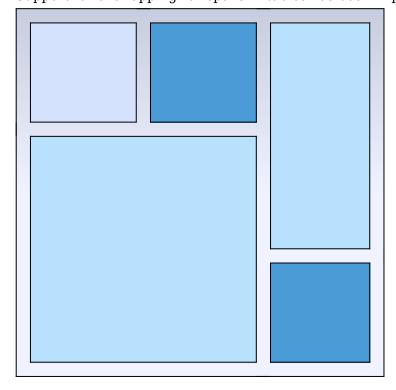
### Javascript in Forms

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 depracated 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!)



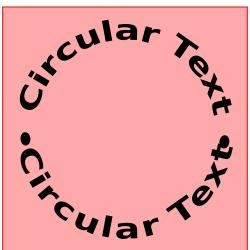
## **Circular Text**

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.





# **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
Н													
Li	Be							В	С				
Na	Mg											Al	Si
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Со	Ni	Cu	Zn	Ga	Ge
Rb	Sr	Υ	Zr	Nb	Мо	Тс	Ru	Rh	Pd	Ag	Cd	In	Sn
Cs	Ва	^ <sub>X</sub>	Hf	Та	W	Re	Os	Ir	Pt	Au	Hg	TI	Pb
Fr	Ra												

15	16	17	18		
15	16	17	10		
	Не				
N	0	F	Ne		
Р	S	CI	Ar		
As	Se	Br	Kr		
Sb	Те	I	Xe		
Bi	Ро	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.