mPDF

Example 58. New mPDF v5-4 features

```
<?php

ini_set("memory_limit","64M");

include("../mpdf.php");

$mpdf=new mPDF('');


//==============================================================

$html = '
<style>
.gradient {
      border:0.1mm solid #220044;
      background-color: #f0f2ff;
      background-gradient: linear #c7cdde #f0f2ff 0 1 0 0.5;
      box-shadow: 0.3em 0.3em #888888;
}
.rounded {
      border:0.1mm solid #220044;
      background-color: #f0f2ff;
      background-gradient: linear #c7cdde #f0f2ff 0 1 0 0.5;
      border-radius: 2mm;
      background-clip: border-box;
}
h4 {
      font-weight: bold;
      margin-top: 1em;
      margin-bottom: 0.3em;
      margin-top: 0;
}
div.text {
      padding:0.8em;
      margin-bottom: 0.7em;
}
p { margin: 0.25em 0; }
.code {
      font-family: monospace;
      font-size: 9pt;
      background-color: #d5d5d5;
      margin: 1em 1cm;
      padding: 0 0.3cm;
      border:0.2mm solid #000088;
      box-shadow: 0.3em 0.3em #888888;
}
table {
      overflow: visible;
      empty-cells: hide;
      border:1px solid #000000;
      font-family: sans-serif;
      font-size: 10pt;
      background-gradient: linear #c7cdde #f0f2ff 0 1 0 0.5;
}
td, th {
      border:1px solid #000000;
      text-align: left;
      font-weight: normal;
}
td.markedcell {
      text-decoration: line-through;
```

```
      color: #CC0000;
}
td.underlinedcell {
      text-decoration: underline;
      color: #CC0000;
}
td.rotatedcell {
      text-decoration: line-through;
      color: #CC0000;
      text-rotate: 45;
}
td.cost { text-align: right; }
caption.tablecaption {
      font-family: sans-serif;
      font-weight: bold;
      border: none;
      caption-side: top;
      margin-bottom: 0;
      text-align: center;
}
u.doubleu {
      text-decoration: none;
      border-bottom: 3px double #000088;
}
a.reddashed {
      text-decoration: none;
      border: 1px dashed #880000;
}
.shadowtitle {
      height: 8mm;
      background-color: #EEDDFF;
      background-gradient: linear #c7cdde #f0f2ff 0 1 0 0.5;
      padding: 0.8em;
      padding-left: 3em;
      font-family:sans;
      font-size: 26pt;
      font-weight: bold;
      border: 0.2mm solid white;
      border-radius: 0.2em;
      box-shadow: 0 0 2em 0.5em rgba(0,0,255,0.9);
      color: #AAAACC;
      text-shadow: 0.03em 0.03em #666, 0.05em 0.05em rgba(127,127,127,0.5), -0.015em -0.015em white;
}
h3 {
      margin: 3em 0 2em -15mm;
      background-color: #EEDDFF;
      background-gradient: linear #c7cdde #f0f2ff 0 1 0 0.5;
      padding: 0.5em;
      padding-left: 3em;
      width: 50%;
      font-family:sans;
      font-size: 16pt;
      font-weight: bold;
      border-left: none;
      border-radius: 0 2em 2em 0;
      box-shadow: 0 0 2em 0.5em rgba(255,0,0,1);
      text-shadow: 0.05em 0.04em rgba(127,127,127,0.5);
}
.css {
      font-family: arial;
      font-style: italic;
      color: #000088;
}
table.zebra tbody tr:nth-child(2n+1) td { background-color: rgba(255,255,127,0.6); }
table.zebra tbody tr:nth-child(2n+1) th { background-color: rgba(255,255,127,0.6); }
table.zebra thead tr { background-color: #FFBBFF; }
table.zebra tfoot tr { background-color: #BBFFFF; }


</style>
```

```
<body>


<div class="shadowtitle">New Features in mPDF v5.4</div>


<h3>Bookmark styles<bookmark content="Bookmark styles" level="0" /></h3>
<div>
<p>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.</p>
<p class="code">
$this->bookmarkStyles = array(<br />
       0 => array(\'color\'=> array(0,64,128), \'style\'=>\'B\'),<br />
       1 => array(\'color\'=> array(128,0,0), \'style\'=>\'\'),<br />
       2 => array(\'color\'=> array(0,128,0), \'style\'=>\'I\'),<br />
);
</p>
</div>

<h3>Embedded SVG code<bookmark content="Embedded SVG code" level="0" /></h3>
<p>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.</p>
<svg xmlns="http://www.w3.org/2000/svg" version="1.1" viewBox="0 0 400 200" width="400" height="200">
  <circle cx="130" cy="100" r="80" stroke="black" stroke-width="1" fill="red" />
  <circle cx="200" cy="100" r="80" stroke="black" stroke-width="1" fill="blue" />
</svg>
<p class="code">
&lt;svg xmlns="http://www.w3.org/2000/svg" version="1.1" viewBox="0 0 200 200" width="200"
height="200"&gt; <br />
   &lt;circle cx="100" cy="50" r="40" stroke="black" stroke-width="1" fill="red" /&gt;<br />
   &lt;circle cx="130" cy="50" r="40" stroke="black" stroke-width="1" fill="blue" /&gt;<br />
&lt;/svg&gt;
</p>


<h3>Improved CSS support<bookmark content="Improved CSS support" level="0" /></h3>
<div class="gradient text">
<p><span class="css">border-radius</span> is now supported on fixed/absolute-positioned block
elements.</p>
<p><span class="css">visibility</span> can be set on any block-style element e.g. DIV,P or images IMG
as: visible|hidden|printonly|screenonly</p>
<p><span class="css">background-color</span> now supports rgba() and cmyka() alpha transparency
formats in tables.</p>
<p>Color, underline and strike-through are now supported in table cells, including with rotated text
(see example below of spread table)</p>
<p><span class="css">page-break-after: left|right|always</span> is supported on all block-style
elements and tables</p>
<p><span class="css">text-transform: capitalize|uppercase|lowercase</span> is supported in table
cells</p>
</div>


<div class="gradient text">
<h4>Zebra stripes in Tables<bookmark content="Zebra stripes" level="1" /></h4>
<div>
<p><span class="css">:nth-child()</span> selector can be used in tables (on TR, TD or TH) to stripe
rows or columns. Both the <i>a</i>n+<i>b</i> and odd/even forms are supported e.g.</p>

<p class="code">
tr:nth-child(2n+1) { background-color: rgba(255,255,127,0.6); }  <i>or</i><br />
tr:nth-child(odd) { background-color: rgba(255,255,127,0.6); }
</p>

<table class="zebra" align="center">
<tbody>
<tr>
<th>Row 1</th>
<td>This is data</td>
<td class="cost">167.00</td>
```

```
</tr>
<tr>
<th>Row 2</th>
<td>
<p>This is data p</p>
</td>
<td class="cost">
<p>444.53</p>
</td>
</tr>
<tr>
<th>
<p>Row 3</p>
</th>
<td>
<p>This is long data</p>
</td>
<td class="cost">14.00</td>
</tr>
<tr>
<td>
<p>Row 4</p>
</td>
<td>This is data</td>
<td class="cost">
<p>0.88</p>
</td>
</tr>
<tr>
<td>Row 5</td>
<td>Also data</td>
<td class="cost">144.00</td>
</tr>
<tr>
<td>Row 6</td>
<td>Also data</td>
<td class="cost">8089.00</td>
</tr>
</tbody></table>

<p><b>Note:</b> mPDF does NOT correctly apply specificity to all CSS. The following stylesheet:</p>
<p class="code">
table.zebra tbody tr:nth-child(2n+1) td { background-color: yellow; }<br />
table.zebra tbody td:nth-child(odd) { background-color: blue; }
</p>
<p>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:</p>
<p class="code">
table.zebra tbody tr:nth-child(2n+1) td:nth-child(1n+0) { background-color: yellow; }
</p>
<p>The :nth-child(1n+0) selector just selects every td cell.</p>

</div>
</div>


<div class="gradient text">
<p><span class="css">border</span> can now be defined on in-line elements eg SPAN</p>
<ul><li style="font-family: arial;">Cum sociis natoque <u class="doubleu">penatibus</u> et <a
class="reddashed" href="#">magnis dis parturient</a> montes</li></ul>
<p><b>Note:</b> 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 </p>
</div>
```

```
<div class="gradient text">
<h4>Shadows<bookmark content="Shadows" level="1" /></h4>
<p><span class="css">box-shadow</span> can be defined on any block-level element (P, DIV etc). It
follows the CSS3 recommendation, but <i>inset</i> is not supported.</p>
<p><span class="css">text-shadow</span> can be defined on any element. It follows the CSS3
recommendation, but <i>blur</i> is not supported.</p>
<p class="code">
&lt;span style="text-shadow: 0.03em 0.03em #666, -0.015em -0.015em white;"&gt;<br />
&lt;div style="box-shadow: 0.3em 0.3em #888888;"&gt;
</p>
</div>


<h3>Other Enhancements<bookmark content="Other Enhancements" level="0" /></h3>

<h4>Column Totals (Tables)<bookmark content="Column totals" level="1" /></h4>
<p>{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.</p>

<table class="zebra" align="center">
<caption class="tablecaption" align="bottom">Table caption goes here</caption>
<thead>
<tr>
<th>Header Row</th>
<td>Header Row</td>
<td>Header Row</td>
</tr>
</thead>
<tfoot>
<tr>
<th></th>
<td>Column total: (using colsum2 in {})</td>
<td class="cost"><b>{colsum2}</b></td>
</tr>
</tfoot>
<tbody>
<tr>
<th>Row 1</th>
<td>This is data</td>
<td class="cost">167.00</td>
</tr>
<tr>
<th>Row 2</th>
<td>
<p>This is data p</p>
</td>
<td class="cost">
<p>444.53</p>
</td>
</tr>
<tr>
<th>
<p>Row 3</p>
</th>
<td>
<p>This is long data</p>
</td>
<td class="cost">14.00</td>
</tr>
<tr>
<td>
<p>Row 4</p>
</td>
<td>This is data</td>
<td class="cost">
<p>0.88</p>
</td>
</tr>
<tr>
```

```
<td>Row 5</td>
<td>Also data</td>
<td class="cost">144.00</td>
</tr>
<tr>
<td>Row 6</td>
<td>Also data</td>
<td class="cost">8089.00</td>
</tr>
<tr>
<td>Row 7</td>
<td>Also data</td>
<td class="cost">3.00</td>
</tr>
<tr>
<td>Row 8</td>
<td>Also data</td>
<td class="cost">23.00</td>
</tr>
</tbody></table>
<br />

<h4>Table <span style="font-variant: small-caps">caption</span><bookmark content="Table caption"
level="1" /></h4>
<p>The caption element for tables is partially supported (see example above).</p>
<p class="code">
&lt;caption align="top|bottom" style="caption-side: top|bottom"&gt;
</p>
<ul>
<li>The caption must come immediately after &lt;table&gt;.</li>
<li>The CSS <span class="css">caption-side</span> or HTML <span class="css">align</span> attribute of
top|bottom supported</li>
<li>Left or right placement are not supported.</li>
<li>The caption is handled as a separate block element brought outside the table, so:
<ul>
      <li>CSS will not cascade correctly from the table</li>
      <li>the width of the caption block is that of page or of the block element containing the
table</li>
      <li>text alignment will be to the page-width not the table width</li>
      <li>if table page-break-after: always, the caption will follow the pagebreak</li>
</ul></li>
</ul>


<h4>Core fonts in non-core font document<bookmark content="Core fonts" level="1" /></h4>

<p>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: <span style="font-family: chelvetica">chelvetica</span>,
<span style="font-family: ctimes">ctimes</span> and <span style="font-family:
ccourier">ccourier</span> should be used.</p>
<p class="code">
&lt;div style="font-family: chelvetica"&gt;
</p>
<p>NB You could force mPDF to always use core fonts when Arial/Helvetica/Courier are specified, by
editing $this->fonttrans in config_fonts.php:</p>
<p class="code">
$this->fonttrans = array(<br />
      \'arial\' => \'chelvetica\',<br />
      \'helvetica\' => \'chelvetica\',<br />
      \'timesnewroman\' => \'ctimes\',<br />
      \'times\' => \'ctimes\',<br />
      \'couriernew\' => \'ccourier\',<br />
      \'courier\' => \'ccourier\',<br />
...
</p>
<br />

<h4>Javascript in Forms<bookmark content="Javascript in Forms" level="1" /></h4>

<p>Javascript used in (active) forms has been altered to reflect the Adobe Acrobat specification for
```

```
Javascript in PDF documents.</p>
<p>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)</p>


<br />



<h4>Overlapping Rows in Tables<bookmark content="Overlapping Table Rows" level="1" /></h4>
<p> Support for overlapping rowspans in tables has been improved (although probably not
foolproof!)</p>
<table style="border-collapse: separate; border-spacing: 3.5mm;">
<tr>
<td style="width: 30mm; height: 30mm; background-color: rgb(213,226,253)"> </td>
<td style="width: 30mm; height: 30mm; background-color: rgb(75,155,215)"> </td>
<td rowspan="2" style="width: 30mm; height: 63.5mm; background-color: rgb(183,225,253)"> </td>
</tr>
<tr>
<td colspan="2" rowspan="2" style="width: 63.5mm; height: 63.5mm; background-color:
rgb(183,225,253)"> </td>
</tr>
<tr>
<td style="width: 30mm; height: 30mm; background-color: rgb(75,155,215)"> </td>
</tr>
</table>

<br />



<h3>Circular Text<bookmark content="Circular Text" level="0" /></h3>
<p>Circular Text can be included in a PDF document as a custom HTML tag (or a function)</p>
<ul>
<li>top-text and/or bottom-text can be specified</li>
<li>Radius (r) and font-size (using CSS) are user-defined</li>
<li>Width and height are calculated from radius and font-size</li>
<li>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</li>
<li>space-width should be specified as an integer defining the letter-spacing as a percentage of
normal (default 120)</li>
<li>char-width should be specified as an integer defining the width of each character as a percentage
of normal (default 100)</li>
<li>Circular Text is displayed as though an in-line element</li>
</ul>
<p>NB If $mpdf->useKerning is true then automatic kerning will be used on Circular Text.</p>

<p class="code">
&lt;textcircle r="30mm" top-text="Circular Text Circular Text" style="color: blue; font-size: 34pt;
font-style: italic" /&gt;<br /><br />
&lt;textcircle r="30mm" space-width="120" char-width="150" top-text="&amp;bull; Circular Text
&amp;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"
/&gt;
</p>

<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" />





<h3 style="page-break-before: left;">Spread tables<bookmark content="Spread Tables" level="0" /></h3>
<div class="gradient text">
```

```
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).
</div>
<br />
<input type="button" name="javascriptButton" value="Show 2 pages" onClick="TwoPages()" />
<input type="button" name="javascriptButton2" value="Show 1 page" onClick="OnePage()" />


<br /><br />

<table cellPadding="9" style="font-size: 16pt;">
<caption class="tablecaption">Periodic Table (table caption)</caption>
<thead>
<tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</
th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th></tr></thea
d>
<tbody>
<tr>
<td>H
</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></t
d><td></td>
<td></td><td></td><td></td><td></td><td>He </td>
</tr>
<tr>
<td>Li </td><td>Be
</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>
<td>B </td><td>C </td><td>N </td><td>O </td><td>F </td><td>Ne </td>
</tr>
<tr>
<td>Na </td><td>Mg
</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>
<td>Al </td><td>Si </td><td>P </td><td>S </td><td>Cl </td><td>Ar </td>
</tr>
<tr>
<td>K </td><td>Ca </td><td>Sc </td><td>Ti </td><td>V </td><td class="markedcell">Cr </td><td>Mn
</td><td>Fe </td><td>Co </td><td>Ni </td>
<td>Cu </td><td>Zn </td><td>Ga </td><td>Ge </td><td>As </td><td>Se </td><td>Br </td><td>Kr </td>
</tr>
<tr>
<td>Rb </td><td>Sr </td><td>Y </td><td>Zr </td><td>Nb </td><td>Mo </td><td>Tc </td><td
class="underlinedcell">Ru </td><td>Rh </td>
<td>Pd </td><td>Ag </td><td>Cd </td><td>In </td><td>Sn </td><td>Sb </td><td>Te </td><td>I </td><td>Xe
</td>
</tr>
<tr>
<td>Cs </td><td>Ba </td><td class="rotatedcell">Lu </td><td>Hf </td><td>Ta </td><td>W </td><td>Re
</td><td>Os </td><td>Ir </td><td>Pt </td>
<td>Au </td><td>Hg </td><td>Tl </td><td>Pb </td><td>Bi </td><td>Po </td><td>At </td><td>Rn </td>
</tr>
<tr>
<td>Fr </td><td>Ra </td><td>
</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>
<td></td><td></td><td></td><td></td><td></td><td></td>
</tr>
</tbody></table>

<br /><br />

<div class="gradient text">
<h4>Limitations of Spread tables<bookmark content="Limitations" level="1" /></h4>
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.<br />
Warning: If a table row is too tall to fit on a page, mPDF will crash with an error message.<br />
If the width settings within the table cause conflicts, it will override some of these settings.
</div>
<br />
```

```
';

//==============================================================
if ($_REQUEST['html']) { echo $html; exit; }
if ($_REQUEST['source']) {
      $file = __FILE__;
      header("Content-Type: text/plain");
      header("Content-Length: ". filesize($file));
      header("Content-Disposition: attachment; filename='".$file."'");
      readfile($file);
      exit;
}

//==============================================================
$mpdf->useActiveForms = true;

$mpdf->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'),
);

$mpdf->useKerning=true;    // set this to improve appearance of Circular text
                        // must be set before the font is first loaded

$mpdf->WriteHTML($html);

// JAVASCRIPT FOR WHOLE DOCUMENT
$mpdf->SetJS('
function TwoPages() {
      this.layout="TwoColumnRight";
      this.zoomType = zoomtype.fitW;
}
function OnePage() {
      this.layout="SinglePage";
      this.zoom = 100;
}
');

// OUTPUT
$mpdf->Output(); exit;


//==============================================================
//==============================================================
//==============================================================
//==============================================================


?>
```