New Features in mPDF v5.6

HTML5 tags

New tags introduced in HTML5 now have basic support in mPDF, and will thus support CSS style references.

The following are treated as block elements similar to :

```
<article> <aside> <details> <figure> <figcaption> <footer> <header> <hgroup>
<nav> <section> <summary>
```

The following are treated as in-line elements:

```
<time> <mark>
```

Mark is set by default to highlight in yellow in config.php using $defaultCSS e.g. mark

Progress and meter are discussed below:

<progress>

Progress: accepts the attributes value and max. A progress element without a value is called an indeterminate progress bar. Text between the opening and closing tags is not displayed.

CSS styles properties can be applied: display, visibility, margin, padding, border, vertical-align, width, height and opacity. HTML attributes width and height are supported, although not officially part of the spec.

Example:

```
<progress value="5" max="10">50%</progress>
```

- Indeterminate
- Progress: 0%
- Progress: 100%
- Progress: 57%

<meter>

Meter: accepts the attributes min, max, value, optimum, low, and high. Text between the opening and closing tags is not displayed.

CSS styles properties can be applied: display, visibility, margin, padding, border, vertical-align, width, height and opacity. HTML attributes width and height are supported, although not officially part of the spec.

Example:

```
<meter value="5" max="10" min="1" low="2" high="8" optimum="5.6">5</meter>
```

- Meter: full
- Preferred usage
- Too much traffic
- Much too much traffic

Custom appearances for <meter> and <progress>

Meter (and to a lesser extent progress) can be used with custom appearances e.g. by using optimum to display the average, and low/high to indicate 90th centiles

Custom appearances can be written by editing the script in classes/meter.php - Use a custom attribute of type="anyname" which is passed to the class as a variable e.g.

```
<meter type="2" value="612.7" optimum="580.4" min="517.0 " max="642.7"
low="542" high="600">612.7</meter>
```

Domain	Indicator	LHB number	LHB Indicator value	Wales average	Wales range	Comparison
Deaths	Death Rates per 100,000 population	3046	**612.7**	580.4	517.0 - 642.7	
	Death Rates per 100,000 from cancer	789	**178.2**	172.7	159.5 - 182.2	
	Death Rates per 100,000 from respiratory disease	505	**60.5**	72.11	54.41 - 95.5	
	Death Rates per 100,000 from cardiovascular disease	913	**178.2**	165.0	151.8 - 179.9	

Fieldset and Legend

Fieldset and legend

Support for fieldset and legend was introduced in mPDF v5.5. Consider it experimental!

Username:

E-mail:

CSS styles

min-height, *min-width*, *max-height* and *max-width* are now supported in CSS style sheets for <img> (only).

background: url(...) is now supported in CSS style sheets (gif, png and jpeg).

 This has the folder icon set as an embedded image in the CSS

```
div.folder { background:
url(
WSLf/rhf/3kdbW1mxsbP//mf///yH5BAAAAAAALAAAAAAQAA4AAARe8L1Ekyky67QZ1hLnjM5UUde0EC
wLJoExKcppV0aCcGCmTIHEIUEqjgaORCMxIC6e0CcguWw6aFjsVMkkIr7g77ZKPJjPZqIyd7sJAgVGoE
Gv2xsBxqNgYPj/gAwXEQA7) no-repeat 4px center; padding: 5px 0 5px 25px; border:
1px solid #000000; }
```

Arabic text

The script handling Arabic text (RTL) was rewritten in mPDF 5.5 with improved support for Pashto/Sindhi/Urdu/Kurdish, especially for joining characters and added new presentation forms.

Some characters in Pashto/Sindhi/Urdu/Kurdish do not have Unicode values for the final/initial/medial forms of the characters. However, some fonts include glyphs for these characters "un-mapped" to Unicode (including XB Zar and XB Riyaz, which are bundled with mPDF).

By editing config_fonts.php and adding:

```
'unAGlyphs' => true,
```

to appropriate fonts, this will force mPDF to use unmapped glyphs. It requires the font file to include a Format 2.0 POST table which references the glyphs by name as e.g. uni067C.med or uni067C.medi

XB Riyaz, XB Zar, Arabic Typesetting (MS), Arial (MS) all contain this table. NB If you want to know if a font file is suitable, you can open a .ttf file in a text editor and search for "uni067C.med" - if it exists, it may work!

Using "unAGlyphs" forces subsetting of fonts, and will not work with SIP/SMP fonts (using characters beyond the Unicode BMP Plane).

mPDF maps these characters to part of the Private Use Area allocated by Unicode U+F500-F7FF. This could interfere with correct use if the font already utilises these codes (unlikely).

Using Arial MS font:

	Isolated		Final	Medial	Initial	
U+0621	ء	ئء	ـء	ـءـ	ءـ	ءه
U+0622	آ	ئآ	ـآ	ـآـ	آـ	آه
U+0623	أ	ئأ	ـأ	ـأـ	أـ	أه
U+0624	ؤ	ئؤ	ـؤ	ـؤـ	ؤـ	ؤه
U+0625	إ	ئإ	ـإ	ـإـ	إـ	إه
U+0626	ئ	ئئ	ـئ	ـئـ	ئـ	ئه
U+0627	ا	ئا	ـا	ـاـ	اـ	اه
U+0628	ب	ئب	ـب	ـبـ	بـ	به
U+0629	ة	ئة	ـة	ـةـ	ةـ	ةه
U+062A	ت	ئت	ـت	ـتـ	تـ	ته
U+062B	ث	ئث	ـث	ـثـ	ثـ	ثه
U+062C	ج	ئج	ـج	ـجـ	جـ	جه
U+062D	ح	ئح	ـح	ـحـ	حـ	حه
U+062E	خ	ئخ	ـخ	ـخـ	خـ	خه
U+062F	د	ئد	ـد	ـدـ	دـ	ده
U+0630	ذ	ئذ	ـذ	ـذـ	ذـ	ذه
U+0631	ر	ئر	ـر	ـرـ	رـ	ره
U+0632	ز	ئز	ـز	ـزـ	زـ	زه
U+0633	س	ئس	ـس	ـسـ	سـ	سه
U+0634	ش	ئش	ـش	ـشـ	شـ	شه
U+0635	ص	ئص	ـص	ـصـ	صـ	صه
U+0636	ض	ئض	ـض	ـضـ	ضـ	ضه
U+0637	ط	ئط	ـط	ـطـ	طـ	طه
U+0638	ظ	ئظ	ـظ	ـظـ	ظـ	ظه
U+0639	ع	ئع	ـع	ـعـ	عـ	عه
U+063A	غ	ئغ	ـغ	ـغـ	غـ	غه

	Isolated		Final	Medial	Initial	
U+0640	ـ	ئـ	ــ	ـــ	ــ	ـه
U+0641	ف	ئف	ـف	ـفـ	فـ	فه
U+0642	ق	ئق	ـق	ـقـ	قـ	قه
U+0643	ك	ئك	ـك	ـكـ	كـ	كه
U+0644	ل	ئل	ـل	ـلـ	لـ	له
U+0645	م	ئم	ـم	ـمـ	مـ	مه
U+0646	ن	ئن	ـن	ـنـ	نـ	نه
U+0647	ه	ئه	ـه	ـهـ	هـ	هه
U+0648	و	ئو	ـو	ـوـ	وـ	وه
U+0649	ى	ئى	ـى	ـىـ	ىـ	ىه
U+064A	ي	ئي	ـي	ـيـ	يـ	يه

	Isolated		Final	Medial	Initial	
U+0671	ٱ	ئٱ	ـٱ	ـٱـ	ٱـ	ٱه
U+0672	ٲ	ئٲ	ـٲ	ـٲـ	ٲـ	ٲه

	Isolated		Final	Medial	Initial	
U+0674	ٴ	ئٴ	ـٴ	ـٴـ	ٴـ	ٴه
U+0675	ٵ	ئٵ	ـٵ	ـٵـ	ٵـ	ٵه
U+0676	ٶ	ئٶ	ـٶ	ـٶـ	ٶـ	ٶه
U+0677	ٷ	ئٷ	ـٷ	ـٷـ	ٷـ	ٷه
U+0678	ٸ	ئٸ	ـٸ	ـٸـ	ٸـ	ٸه
U+0679	ٹ	ئٹ	ـٹ	ـٹـ	ٹـ	ٹه
U+067A	ٺ	ئٺ	ـٺ	ـٺـ	ٺـ	ٺه
U+067B	ٻ	ئٻ	ـٻ	ـٻـ	ٻـ	ٻه
U+067C	ټ	ئټ	ـټ	ـټـ	ټـ	ټه
U+067D	ٽ	ئٽ	ـٽ	ـٽـ	ٽـ	ٽه
U+067E	پ	ئپ	ـپ	ـپـ	پـ	په
U+067F	ٿ	ئٿ	ـٿ	ـٿـ	ٿـ	ٿه
U+0680	ڀ	ئڀ	ـڀ	ـڀـ	ڀـ	ڀه
U+0681	ځ	ئځ	ـځ	ـځـ	ځـ	ځه
U+0682	ڂ	ئڂ	ـڂ	ـڂـ	ڂـ	ڂه
U+0683	ڃ	ئڃ	ـڃ	ـڃـ	ڃـ	ڃه

	Isolated		Final	Medial	Initial	
U+0684	ڄ	ئڄ	ـڄ	ـڄـ	ڄـ	ڄه
U+0685	څ	ئڅ	ـڅ	ـڅـ	څـ	څه
U+0686	چ	ئچ	ـچ	ـچـ	چـ	چه
U+0687	ڇ	ئڇ	ـڇ	ـڇـ	ڇـ	ڇه
U+0688	ڈ	ئڈ	ـڈ	ـڈـ	ڈـ	ڈه
U+0689	ډ	ئډ	ـډ	ـډـ	ډـ	ډه
U+068A	ڊ	ئڊ	ـڊ	ـڊـ	ڊـ	ڊه
U+068B	ڋ	ئڋ	ـڋ	ـڋـ	ڋـ	ڋه
U+068C	ڌ	ئڌ	ـڌ	ـڌـ	ڌـ	ڌه
U+068D	ڍ	ئڍ	ـڍ	ـڍـ	ڍـ	ڍه
U+068E	ڎ	ئڎ	ـڎ	ـڎـ	ڎـ	ڎه
U+068F	ڏ	ئڏ	ـڏ	ـڏـ	ڏـ	ڏه
U+0690	ڐ	ئڐ	ـڐ	ـڐـ	ڐـ	ڐه
U+0691	ڑ	ئڑ	ـڑ	ـڑـ	ڑـ	ڑه
U+0692	ڒ	ئڒ	ـڒ	ـڒـ	ڒـ	ڒه
U+0693	ړ	ئړ	ـړ	ـړـ	ړـ	ړه
U+0694	ڔ	ئڔ	ـڔ	ـڔـ	ڔـ	ڔه
U+0695	ڕ	ئڕ	ـڕ	ـڕـ	ڕـ	ڕه
U+0696	ږ	ئږ	ـږ	ـږـ	ږـ	ږه
U+0697	ڗ	ئڗ	ـڗ	ـڗـ	ڗـ	ڗه
U+0698	ژ	ئژ	ـژ	ـژـ	ژـ	ژه
U+0699	ڙ	ئڙ	ـڙ	ـڙـ	ڙـ	ڙه
U+069A	ښ	ئښ	ـښ	ـښـ	ښـ	ښه
U+069B	ڛ	ئڛ	ـڛ	ـڛـ	ڛـ	ڛه
U+069C	ڜ	ئڜ	ـڜ	ـڜـ	ڜـ	ڜه
U+069D	ڝ	ئڝ	ـڝ	ـڝـ	ڝـ	ڝه
U+069E	ڞ	ئڞ	ـڞ	ـڞـ	ڞـ	ڞه
U+069F	ڟ	ئڟ	ـڟ	ـڟـ	ڟـ	ڟه
U+06A0	ڠ	ئڠ	ـڠ	ـڠـ	ڠـ	ڠه
U+06A1	ڡ	ئڡ	ـڡ	ـڡـ	ڡـ	ڡه
U+06A2	ڢ	ئڢ	ـڢ	ـڢـ	ڢـ	ڢه
U+06A3	ڣ	ئڣ	ـڣ	ـڣـ	ڣـ	ڣه
U+06A4	ڤ	ئڤ	ـڤ	ـڤـ	ڤـ	ڤه
U+06A5	ڥ	ئڥ	ـڥ	ـڥـ	ڥـ	ڥه
U+06A6	ڦ	ئڦ	ـڦ	ـڦـ	ڦـ	ڦه
U+06A7	ڧ	ئڧ	ـڧ	ـڧـ	ڧـ	ڧه
U+06A8	ڨ	ئڨ	ـڨ	ـڨـ	ڨـ	ڨه
U+06A9	ک	ئک	ـک	ـکـ	کـ	که
U+06AA	ڪ	ئڪ	ـڪ	ـڪـ	ڪـ	ڪه
U+06AB	ګ	ئګ	ـګ	ـګـ	ګـ	ګه
U+06AC	ڬ	ئڬ	ـڬ	ـڬـ	ڬـ	ڬه
U+06AD	ڭ	ئڭ	ـڭ	ـڭـ	ڭـ	ڭه
U+06AE	ڮ	ئڮ	ـڮ	ـڮـ	ڮـ	ڮه
U+06AF	گ	ئگ	ـگ	ـگـ	گـ	گه
U+06B0	ڰ	ئڰ	ـڰ	ـڰـ	ڰـ	ڰه
U+06B1	ڱ	ئڱ	ـڱ	ـڱـ	ڱـ	ڱه
U+06B2	ڲ	ئڲ	ـڲ	ـڲـ	ڲـ	ڲه
U+06B3	ڳ	ئڳ	ـڳ	ـڳـ	ڳـ	ڳه
U+06B4	ڴ	ئڴ	ـڴ	ـڴـ	ڴـ	ڴه
U+06B5	ڵ	ئڵ	ـڵ	ـڵـ	ڵـ	ڵه
U+06B6	ڶ	ئڶ	ـڶ	ـڶـ	ڶـ	ڶه
U+06B7	ڷ	ئڷ	ـڷ	ـڷـ	ڷـ	ڷه
U+06B8	ڸ	ئڸ	ـڸ	ـڸـ	ڸـ	ڸه
U+06B9	ڹ	ئڹ	ـڹ	ـڹـ	ڹـ	ڹه
U+06BA	ں	ئں	ـں	ـںـ	ںـ	ںه
U+06BB	ڻ	ئڻ	ـڻ	ـڻـ	ڻـ	ڻه
U+06BC	ڼ	ئڼ	ـڼ	ـڼـ	ڼـ	ڼه
U+06BD	ڽ	ئڽ	ـڽ	ـڽـ	ڽـ	ڽه
U+06BE	ھ	ئھ	ـھ	ـھـ	ھـ	ھه
U+06BF	ڿ	ئڿ	ـڿ	ـڿـ	ڿـ	ڿه
U+06C0	ۀ	ئۀ	ـۀ	ـۀـ	ۀـ	ۀه
U+06C1	ہ	ئہ	ـہ	ـہـ	ہـ	ہه

	Isolated		Final	Medial	Initial	
U+06C2	ۂ	ئۂ	ـۂ	ـۂـ	ۂـ	ۂه
U+06C3	ۃ	ئۃ	ـۃ	ـۃـ	ۃـ	ۃه
U+06C4	ۄ	ئۄ	ـۄ	ـۄـ	ۄـ	ۄه
U+06C5	ۅ	ئۅ	ـۅ	ـۅـ	ۅـ	ۅه
U+06C6	ۆ	ئۆ	ـۆ	ـۆـ	ۆـ	ۆه
U+06C7	ۇ	ئۇ	ـۇ	ـۇـ	ۇـ	ۇه
U+06C8	ۈ	ئۈ	ـۈ	ـۈـ	ۈـ	ۈه
U+06C9	ۉ	ئۉ	ـۉ	ـۉـ	ۉـ	ۉه
U+06CA	ۊ	ئۊ	ـۊ	ـۊـ	ۊـ	ۊه
U+06CB	ۋ	ئۋ	ـۋ	ـۋـ	ۋـ	ۋه
U+06CC	ی	ئی	ـی	ـیـ	یـ	یه
U+06CD	ۍ	ئۍ	ـۍ	ـۍـ	ۍـ	ۍه
U+06CE	ێ	ئێ	ـێ	ـێـ	ێـ	ێه
U+06CF	ۏ	ئۏ	ـۏ	ـۏـ	ۏـ	ۏه
U+06D0	ې	ئې	ـې	ـېـ	ېـ	ېه
U+06D1	ۑ	ئۑ	ـۑ	ـۑـ	ۑـ	ۑه
U+06D2	ے	ئے	ـے	ـےـ	ےـ	ےه
U+06D3	ۓ	ئۓ	ـۓ	ـۓـ	ۓـ	ۓه