

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 `<div>`:

```
<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>
```

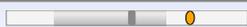
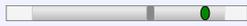
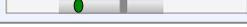
- Meter: full 
- Preferred usage 
- Too much traffic 
- Much too much traffic 

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 `` (only).

`background: url(data:image/gif;base64,...)` is now supported in CSS style sheets (gif, png and jpeg).

This `<div>` has the folder icon set as an embedded image in the CSS

```
div.folder { background:
url(data:image/gif;base64,R0lGODlhEAA0ALMAA0azToeHh0tLS/7LZv/0jvb29t/f3//Ub//ge8
WSLf/rhf/3kdbWlmxsbP//mf///yH5BAAAAAALAAAAAAQAA4AAARe8L1Ekyky67QZ1hLnjM5UUde0EC
wLJoExKcppV0aCcGCmTIHEIUEqjga0RCMxIC6e0CcgUwW6aFjsVMkkIr7g77ZKPJjPZqIyd7sJAgVGoE
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	ءـ	ءـ	ءـ	هء
U+0622	آ	ئآ	آـ	آـ	آـ	هآ
U+0623	أ	ئأ	أـ	أـ	أـ	هأ
U+0624	ؤ	ئؤ	ؤـ	ؤـ	ؤـ	هؤ
U+0625	إ	ئإ	إـ	إـ	إـ	هإ
U+0626	ئ	ئئ	ئـ	ئـ	ئـ	هئ
U+0627	ا	ئا	اـ	اـ	اـ	ها
U+0628	ب	ئب	بـ	بـ	بـ	هب
U+0629	ة	ئة	ةـ	ةـ	ةـ	هه
U+062A	ت	ئت	تـ	تـ	تـ	هت
U+062B	ث	ئث	ثـ	ثـ	ثـ	هث
U+062C	ج	ئج	جـ	جـ	جـ	هج
U+062D	ح	ئح	حـ	حـ	حـ	هح
U+062E	خ	ئخ	خـ	خـ	خـ	هخ
U+062F	د	ئد	دـ	دـ	دـ	هد
U+0630	ذ	ئذ	ذـ	ذـ	ذـ	هذ
U+0631	ر	ئر	رـ	رـ	رـ	هر
U+0632	ز	ئز	زـ	زـ	زـ	hez
U+0633	س	ئس	سـ	سـ	سـ	هس
U+0634	ش	ئش	شـ	شـ	شـ	هش
U+0635	ص	ئص	صـ	صـ	صـ	هص
U+0636	ض	ئض	ضـ	ضـ	ضـ	هض
U+0637	ط	ئط	طـ	طـ	طـ	هط
U+0638	ظ	ئظ	ظـ	ظـ	ظـ	هظ

	Isolated		Final	Medial	Initial	
U+0639	ع	عْ	ع	ع	ع	عه
U+063A	غ	غْ	غ	غ	غ	غه

	Isolated		Final	Medial	Initial	
U+0640	-	رْ	-	-	-	ه
U+0641	ف	فْ	ف	ف	ف	فه
U+0642	ق	قْ	ق	ق	ق	قه
U+0643	ك	كْ	ك	ك	ك	كه
U+0644	ل	لْ	ل	ل	ل	له
U+0645	م	مْ	م	م	م	مه
U+0646	ن	نْ	ن	ن	ن	نه
U+0647	ه	هْ	ه	ه	ه	هه
U+0648	و	وْ	و	و	و	وه
U+0649	ي	يْ	ي	ي	ي	يه
U+064A	ي	يْ	ي	ي	ي	يه

	Isolated		Final	Medial	Initial	
U+0671	◻	رْ◻	◻-	-◻-	-◻	ه◻
U+0672	◻	رْ◻	◻-	-◻-	-◻	ه◻

	Isolated		Final	Medial	Initial	
U+0674	ء	ئْ	ء	ء	ء	هء
U+0675	◻	رْ◻	◻-	-◻-	-◻	ه◻
U+0676	◻	رْ◻	◻-	-◻-	-◻	ه◻
U+0677	◻	رْ◻	◻-	-◻-	-◻	ه◻
U+0678	◻	رْ◻	◻-	ئ	رْ	ئه
U+0679	ط	طْ	ط	ط	ط	طه
U+067A	ث	ثْ	ث	ث	ث	ثه

	Isolated		Final	Medial	Initial	
U+067B	ب̣	ب̣̣	ب̣	ب̣	ب̣	به
U+067C	پ̣	پ̣̣	پ̣	پ̣	پ̣	په
U+067D	ت̣	ت̣̣	ت̣	ت̣	ت̣	ته
U+067E	پ̣̣	پ̣̣̣	پ̣̣	پ̣̣	پ̣̣	په
U+067F	ت̣̣	ت̣̣̣	ت̣̣	ت̣̣	ت̣̣	ته
U+0680	پ̣̣̣	پ̣̣̣̣	پ̣̣̣	پ̣̣̣	پ̣̣̣	په
U+0681	ح̣	ح̣̣	ح̣	ح̣	ح̣	حه
U+0682	خ̣	خ̣̣	خ̣	خ̣	خ̣	خه
U+0683	ج̣	ج̣̣	ج̣	ج̣	ج̣	جه
U+0684	چ̣	چ̣̣	چ̣	چ̣	چ̣	چه
U+0685	خ̣̣	خ̣̣̣	خ̣̣	خ̣̣	خ̣̣	خه
U+0686	چ̣̣	چ̣̣̣	چ̣̣	چ̣̣	چ̣̣	چه
U+0687	چ̣̣̣	چ̣̣̣̣	چ̣̣̣	چ̣̣̣	چ̣̣̣	چه
U+0688	ڙ̣	ڙ̣̣	ڙ̣	ڙ̣	ڙ̣	ڙه
U+0689	ڙ̣̣	ڙ̣̣̣	ڙ̣̣	ڙ̣̣	ڙ̣̣	ڙه
U+068A	ڙ̣̣̣	ڙ̣̣̣̣	ڙ̣̣̣	ڙ̣̣̣	ڙ̣̣̣	ڙه
U+068B	ڙ̣̣̣̣	ڙ̣̣̣̣̣	ڙ̣̣̣̣	ڙ̣̣̣̣	ڙ̣̣̣̣	ڙه
U+068C	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣	ڙه
U+068D	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙه
U+068E	ڙ̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣	ڙه
U+068F	ڙ̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣	ڙه
U+0690	ڙ̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣	ڙه
U+0691	ڙ̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣	ڙه
U+0692	ڙ̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣	ڙه
U+0693	ڙ̣̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣̣̣̣̣̣	ڙه

	Isolated		Final	Medial	Initial	
U+0694	ر	رُ	-ر	-ر-	ر-	رہ
U+0695	ړ	ړُ	-ړ	-ړ-	ړ-	ړہ
U+0696	ز	زُ	-ز	-ز-	ز-	زہ
U+0697	ژ	ژُ	-ژ	-ژ-	ژ-	ژہ
U+0698	ژ	ژُ	-ژ	-ژ-	ژ-	ژہ
U+0699	ژ	ژُ	-ژ	-ژ-	ژ-	ژہ
U+069A	بب	بُب	-بب	-بب-	بب-	ببہ
U+069B	پپ	پُپ	-پپ	-پپ-	پپ-	پپہ
U+069C	پپ	پُپ	-پپ	-پپ-	پپ-	پپہ
U+069D	صص	صُص	-صص	-صص-	صص-	صصہ
U+069E	ضض	ضُض	-ضض	-ضض-	ضض-	ضضہ
U+069F	ظظ	ظُظ	-ظظ	-ظظ-	ظظ-	ظظہ
U+06A0	غغ	غُغ	-غغ	-غغ-	غغ-	غغہ
U+06A1	فف	فُف	-فف	-فف-	فف-	ففہ
U+06A2	فب	فُب	-فب	-فب-	فب-	فبہ
U+06A3	فب	فُب	-فب	-فب-	فب-	فبہ
U+06A4	فث	فُث	-فث	-فث-	فث-	فثہ
U+06A5	فپ	فُپ	-فپ	-فپ-	فپ-	فپہ
U+06A6	فق	فُق	-فق	-فق-	فق-	فقہ
U+06A7	فف	فُف	-فف	-فف-	فف-	ففہ
U+06A8	فق	فُق	-فق	-فق-	فق-	فقہ
U+06A9	کک	کُک	-کک	-کک-	کک-	ککہ
U+06AA	کک	کُک	-کک	-کک-	کک-	ککہ
U+06AB	گگ	گُگ	-گگ	-گگ-	گگ-	گگہ
U+06AC	گگ	گُگ	-گگ	-گگ-	گگ-	گگہ

	Isolated		Final	Medial	Initial	
U+06AD	ک	ڪ	ک	ک	ک	کھ
U+06AE	پ	پ	پ	پ	پ	پھ
U+06AF	گ	گ	گ	گ	گ	گھ
U+06B0	ھ	ھ	ھ	ھ	ھ	ھھ
U+06B1	گ	گ	گ	گ	گ	گھ
U+06B2	گ	گ	گ	گ	گ	گھ
U+06B3	گ	گ	گ	گ	گ	گھ
U+06B4	گ	گ	گ	گ	گ	گھ
U+06B5	ل	ل	ل	ل	ل	لھ
U+06B6	ل	ل	ل	ل	ل	لھ
U+06B7	ل	ل	ل	ل	ل	لھ
U+06B8	ل	ل	ل	ل	ل	لھ
U+06B9	ن	ن	ن	ن	ن	نھ
U+06BA	س	س	س	س	س	سھ
U+06BB	ٹ	ٹ	ٹ	ٹ	ٹ	ٹھ
U+06BC	ن	ن	ن	ن	ن	نھ
U+06BD	ث	ث	ث	ث	ث	ثھ
U+06BE	ھ	ھ	ھ	ھ	ھ	ھھ
U+06BF	چ	چ	چ	چ	چ	چھ
U+06C0	□	□	□	□	□	ہ□
U+06C1	□	□	□	□	□	ا□
U+06C2	□	□	□	□	□	و□
U+06C3	□	□	□	□	□	و□
U+06C4	□	□	□	□	□	و□
U+06C5	□	□	□	□	□	و□

	Isolated		Final	Medial	Initial	
U+06C6	ؤ	ؤء	ؤ-	-ؤ-	-ؤ	هؤ
U+06C7	□	□ء	□-	-□-	-□	ه□
U+06C8	□	□ء	□-	-□-	-□	ه□
U+06C9	□	□ء	□-	-□-	-□	ه□
U+06CA	□	□ء	□-	-□-	-□	ه□
U+06CB	□	□ء	□-	-□-	-□	ه□
U+06CC	ي	ئي	ي-	-ي-	-ي	يه
U+06CD	□	□ء	□-	-□-	-□	ه□
U+06CE	ئ	ئي	ئ-	-ئ-	-ئ	هئ
U+06CF	□	□ء	□-	-□-	-□	ه□
U+06D0	□	□ء	□-	-□-	-□	ه□
U+06D1	□	□ء	□-	پ-	-پ	په
U+06D2	□	□ء	□-	-□-	-□	ه□
U+06D3	□	□ء	□-	-□-	-□	ه□