

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:

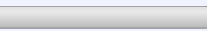
`<progress>`

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% 

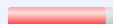
<meter>

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>
```

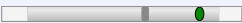
- Meter: full 
- Preferred usage 
- Too much traffic 
- Much too much traffic 

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 `<img>` (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/3kdbWlmsbP//mf///yH5BAAAAAALAAAAAAQAA4AAARe8L1Ekyky67QZ1hLnjM5UUde0EC
wLJoExKcppV0aCcGCmTIHEIUEqjga0RCMxIC6e0CcgUw6aFjsVMkkIr7g77ZKPJjPZqIyd7sJAgVGoE
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	ـءـ	ـءـ	هء
U+0622	آ	ئآ	آـ	ـآـ	ـآـ	هآ
U+0623	أ	ئأ	أـ	ـأـ	ـأـ	هأ
U+0624	ؤ	ئؤ	ؤـ	ـؤـ	ـؤـ	هؤ
U+0625	إ	ئإ	إـ	ـإـ	ـإـ	هإ
U+0626	ئ	ئئ	ئـ	ـئـ	ـئـ	هئ
U+0627	ا	ئا	اـ	ـاـ	ـاـ	ها
U+0628	ب	ئب	بـ	ـبـ	ـبـ	هب
U+0629	ة	ئة	ةـ	ـةـ	ـةـ	هه
U+062A	ت	ئت	تـ	ـتـ	ـتـ	ته
U+062B	ث	ئث	ثـ	ـثـ	ـثـ	هث
U+062C	ج	ئج	جـ	ـجـ	ـجـ	هج
U+062D	ح	ئح	حـ	ـحـ	ـحـ	هح
U+062E	خ	ئخ	خـ	ـخـ	ـخـ	هخ
U+062F	د	ئد	دـ	ـدـ	ـدـ	هد
U+0630	ذ	ئذ	ذـ	ـذـ	ـذـ	هذ
U+0631	ر	ئر	رـ	ـرـ	ـرـ	هر
U+0632	ز	ئز	زـ	ـزـ	ـزـ	hez
U+0633	س	ئس	سـ	ـسـ	ـسـ	هس
U+0634	ش	ئش	شـ	ـشـ	ـشـ	هش
U+0635	ص	ئص	صـ	ـصـ	ـصـ	هص
U+0636	ض	ئض	ضـ	ـضـ	ـضـ	هض
U+0637	ط	ئط	طـ	ـطـ	ـطـ	هط
U+0638	ظ	ئظ	ظـ	ـظـ	ـظـ	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	ﺀ	ﺀْ	ﺀ-	-ﺀ-	-ﺀ	هﺀ
U+0672	ﺀ	ﺀْ	ﺀ-	-ﺀ-	-ﺀ	هﺀ

	Isolated		Final	Medial	Initial	
U+0674	ء	ئْ	-	--	-	ه
U+0675	ﺀ	ﺀْ	ﺀ-	-ﺀ-	-ﺀ	هﺀ
U+0676	ﺀ	ﺀْ	ﺀ-	-ﺀ-	-ﺀ	هﺀ
U+0677	ﺀ	ﺀْ	ﺀ-	-ﺀ-	-ﺀ	هﺀ
U+0678	ﺀ	ﺀْ	ﺀ-	ئ	ئ	ئه
U+0679	ٹ	ٹْ	ٹ	ٹ	ٹ	ٹه
U+067A	ن	نْ	ن	ن	ن	نه

	Isolated		Final	Medial	Initial	
U+067B	ب̣	ب̣̣	ب̣̣	ب̣̣̣	ب̣̣̣	به
U+067C	پ̣	پ̣̣	پ̣̣	پ̣̣̣	پ̣̣̣	په
U+067D	ت̣	ت̣̣	ت̣̣	ت̣̣̣	ت̣̣̣	ته
U+067E	پ̣̣	پ̣̣̣	پ̣̣̣	پ̣̣̣̣	پ̣̣̣̣	په
U+067F	ت̣̣	ت̣̣̣	ت̣̣̣	ت̣̣̣̣	ت̣̣̣̣	ته
U+0680	پ̣̣̣	پ̣̣̣̣	پ̣̣̣̣	پ̣̣̣̣̣	پ̣̣̣̣̣	په
U+0681	خ̣	خ̣̣	خ̣̣	خ̣̣̣	خ̣̣̣	خه
U+0682	خ̣̣	خ̣̣̣	خ̣̣̣	خ̣̣̣̣	خ̣̣̣̣	خه
U+0683	ج̣	ج̣̣	ج̣̣	ج̣̣̣	ج̣̣̣	جه
U+0684	ج̣̣	ج̣̣̣	ج̣̣̣	ج̣̣̣̣	ج̣̣̣̣	جه
U+0685	خ̣̣̣	خ̣̣̣̣	خ̣̣̣̣	خ̣̣̣̣̣	خ̣̣̣̣̣	خه
U+0686	چ̣	چ̣̣	چ̣̣	چ̣̣̣	چ̣̣̣	چه
U+0687	چ̣̣	چ̣̣̣	چ̣̣̣	چ̣̣̣̣	چ̣̣̣̣	چه
U+0688	ڙ̣	ڙ̣̣	ڙ̣̣	ڙ̣̣̣	ڙ̣̣̣	ڙه
U+0689	ڙ̣̣	ڙ̣̣̣	ڙ̣̣̣	ڙ̣̣̣̣	ڙ̣̣̣̣	ڙه
U+068A	ڊ̣	ڊ̣̣	ڊ̣̣	ڊ̣̣̣	ڊ̣̣̣	ڊه
U+068B	ڊ̣̣	ڊ̣̣̣	ڊ̣̣̣	ڊ̣̣̣̣	ڊ̣̣̣̣	ڊه
U+068C	ڌ̣	ڌ̣̣	ڌ̣̣	ڌ̣̣̣	ڌ̣̣̣	ڌه
U+068D	ڌ̣̣	ڌ̣̣̣	ڌ̣̣̣	ڌ̣̣̣̣	ڌ̣̣̣̣	ڌه
U+068E	ڏ̣	ڏ̣̣	ڏ̣̣	ڏ̣̣̣	ڏ̣̣̣	ڏه
U+068F	ڏ̣̣	ڏ̣̣̣	ڏ̣̣̣	ڏ̣̣̣̣	ڏ̣̣̣̣	ڏه
U+0690	ڏ̣̣̣	ڏ̣̣̣̣	ڏ̣̣̣̣	ڏ̣̣̣̣̣	ڏ̣̣̣̣̣	ڏه
U+0691	ڙ̣̣̣	ڙ̣̣̣̣	ڙ̣̣̣̣	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣	ڙه
U+0692	ڙ̣̣̣̣	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙه
U+0693	ڙ̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣	ڙ̣̣̣̣̣̣̣	ڙه

	Isolated		Final	Medial	Initial	
U+0694	ر	رْ	-ر	-ر-	ر-	ره
U+0695	ړ	ړْ	-ړ	-ړ-	ړ-	ړه
U+0696	ز	زْ	-ز	-ز-	ز-	زه
U+0697	ژ	ژْ	-ژ	-ژ-	ژ-	ژه
U+0698	ځ	ځْ	-ځ	-ځ-	ځ-	ځه
U+0699	ښ	ښْ	-ښ	-ښ-	ښ-	ښه
U+069A	پ	پْ	-پ	-پ-	پ-	په
U+069B	پ	پْ	-پ	-پ-	پ-	په
U+069C	پ	پْ	-پ	-پ-	پ-	په
U+069D	ص	صْ	-ص	-ص-	ص-	صه
U+069E	ض	ضْ	-ض	-ض-	ض-	ضه
U+069F	ظ	ظْ	-ظ	-ظ-	ظ-	ظه
U+06A0	غ	غْ	-غ	-غ-	غ-	غه
U+06A1	ف	فْ	-ف	-ف-	ف-	فه
U+06A2	ف	فْ	-ف	-ف-	ف-	فه
U+06A3	ف	فْ	-ف	-ف-	ف-	فه
U+06A4	ق	قْ	-ق	-ق-	ق-	قه
U+06A5	پ	پْ	-پ	-پ-	پ-	په
U+06A6	ق	قْ	-ق	-ق-	ق-	قه
U+06A7	ف	فْ	-ف	-ف-	ف-	فه
U+06A8	ق	قْ	-ق	-ق-	ق-	قه
U+06A9	ک	کْ	-ک	-ک-	ک-	که
U+06AA	ک	کْ	-ک	-ک-	ک-	که
U+06AB	گ	گْ	-گ	-گ-	گ-	گه
U+06AC	ل	لْ	-ل	-ل-	ل-	له

	Isolated		Final	Medial	Initial	
U+06AD	ڙ	ڙ	ڙ	ڙ	ڙ	ڙه
U+06AE	ڙ	ڙ	ڙ	ڙ	ڙ	ڙه
U+06AF	گ	گ	گ	گ	گ	گه
U+06B0	گ	گ	گ	گ	گ	گه
U+06B1	گ	گ	گ	گ	گ	گه
U+06B2	گ	گ	گ	گ	گ	گه
U+06B3	گ	گ	گ	گ	گ	گه
U+06B4	گ	گ	گ	گ	گ	گه
U+06B5	ڙ	ڙ	ڙ	ڙ	ڙ	ڙه
U+06B6	ڙ	ڙ	ڙ	ڙ	ڙ	ڙه
U+06B7	ڙ	ڙ	ڙ	ڙ	ڙ	ڙه
U+06B8	ڙ	ڙ	ڙ	ڙ	ڙ	ڙه
U+06B9	ڻ	ڻ	ڻ	ڻ	ڻ	ڻه
U+06BA	ڻ	ڻ	ڻ	ڻ	ڻ	ڻه
U+06BB	ڻ	ڻ	ڻ	ڻ	ڻ	ڻه
U+06BC	ڻ	ڻ	ڻ	ڻ	ڻ	ڻه
U+06BD	ڻ	ڻ	ڻ	ڻ	ڻ	ڻه
U+06BE	ه	ه	ه	ه	ه	هه
U+06BF	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه
U+06C0	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه
U+06C1	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه
U+06C2	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه
U+06C3	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه
U+06C4	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه
U+06C5	ڇ	ڇ	ڇ	ڇ	ڇ	ڇه

	Isolated		Final	Medial	Initial	
U+06C6	ۆ	ئۆ	ۆ-	-ۆ-	-ۆ	هۆ
U+06C7	□	□ ^ء	□-	-□-	-□	ه□
U+06C8	□	□ ^ء	□-	-□-	-□	ه□
U+06C9	□	□ ^ء	□-	-□-	-□	ه□
U+06CA	□	□ ^ء	□-	-□-	-□	ه□
U+06CB	□	□ ^ء	□-	-□-	-□	ه□
U+06CC	ى	ئى	ى-	-ى-	-ى	هه
U+06CD	□	□ ^ء	□-	-□-	-□	ه□
U+06CE	ئ	ئئ	ئ-	-ئ-	-ئ	هئ
U+06CF	□	□ ^ء	□-	-□-	-□	ه□
U+06D0	□	□ ^ء	□-	-□-	-□	ه□
U+06D1	□	□ ^ء	□-	پ-	-پ	هپ
U+06D2	□	□ ^ء	□-	-□-	-□	ه□
U+06D3	□	□ ^ء	□-	-□-	-□	ه□