

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:

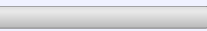
`<progress>`

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% 

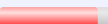
<meter>

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>
```

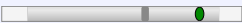
- Meter: full 
- Preferred usage 
- Too much traffic 
- Much too much traffic 

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:

[illegible][illegible]

	Initial		True		False		Initial
codeHex2utf('0671',0)	codeHex2utf('626',0)codeHex2utf('0671',0)	codeHex2utf('640',0)codeHex2utf('0671',0)	codeHex2utf('640',0)codeHex2utf('0671',0)	codeHex2utf('640',0)codeHex2utf('0671',0)	codeHex2utf('640',0)	codeHex2utf('0671',0)codeHex2utf('640',0)	codeHex2utf('0671',0)codeHex2utf('647',0)
codeHex2utf('0672',0)	codeHex2utf('626',0)codeHex2utf('0672',0)	codeHex2utf('640',0)codeHex2utf('0672',0)	codeHex2utf('640',0)codeHex2utf('0672',0)	codeHex2utf('640',0)codeHex2utf('0672',0)	codeHex2utf('640',0)	codeHex2utf('0672',0)codeHex2utf('640',0)	codeHex2utf('0672',0)codeHex2utf('647',0)

[illegible][illegible]

0x00				0x01				0x02				0x03				0x04				0x05				0x06				0x07				0x08				0x09				0x0A				0x0B				0x0C				0x0D				0x0E				0x0F				0x10				0x11				0x12				0x13				0x14				0x15				0x16				0x17				0x18				0x19				0x1A				0x1B				0x1C				0x1D				0x1E				0x1F				0x20				0x21				0x22				0x23				0x24				0x25				0x26				0x27				0x28				0x29				0x2A				0x2B				0x2C				0x2D				0x2E				0x2F				0x30				0x31				0x32				0x33				0x34				0x35				0x36				0x37				0x38				0x39				0x3A				0x3B				0x3C				0x3D				0x3E				0x3F				0x40				0x41				0x42				0x43				0x44				0x45				0x46				0x47				0x48				0x49				0x4A				0x4B				0x4C				0x4D				0x4E				0x4F				0x50				0x51				0x52				0x53				0x54				0x55				0x56				0x57				0x58				0x59				0x5A				0x5B				0x5C				0x5D				0x5E				0x5F				0x60				0x61				0x62				0x63				0x64				0x65				0x66				0x67				0x68				0x69				0x6A				0x6B				0x6C				0x6D				0x6E				0x6F				0x70				0x71				0x72				0x73				0x74				0x75				0x76				0x77				0x78				0x79				0x7A				0x7B				0x7C				0x7D				0x7E				0x7F				0x80				0x81				0x82				0x83				0x84				0x85				0x86				0x87				0x88				0x89				0x8A				0x8B				0x8C				0x8D				0x8E				0x8F				0x90				0x91				0x92				0x93				0x94				0x95				0x96				0x97				0x98				0x99				0x9A				0x9B				0x9C				0x9D				0x9E				0x9F				0xA0				0xA1				0xA2				0xA3				0xA4				0xA5				0xA6				0xA7				0xA8				0xA9				0xAA				0xAB				0xAC				0xAD				0xAE				0xAF				0xB0				0xB1				0xB2				0xB3				0xB4				0xB5				0xB6				0xB7				0xB8				0xB9				0xBA				0xBB				0xBC				0xBD				0xBE				0xBF				0xC0				0xC1				0xC2				0xC3				0xC4				0xC5				0xC6				0xC7				0xC8				0xC9				0xCA				0xCB				0xCC				0xCD				0xCE				0xCF				0xD0				0xD1				0xD2				0xD3				0xD4				0xD5				0xD6				0xD7				0xD8				0xD9				0xDA				0xDB				0xDC				0xDD				0xDE				0xDF				0xE0				0xE1				0xE2				0xE3				0xE4				0xE5				0xE6				0xE7				0xE8				0xE9				0xEA				0xEB				0xEC				0xED				0xEE				0xEF				0xF0				0xF1				0xF2				0xF3				0xF4				0xF5				0xF6				0xF7				0xF8				0xF9				0xFA				0xFB				0xFC				0xFD				0xFE				0xFF			
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