Adding new fonts to mPDF (<=v3.2) - Archived

> **Note:** A new utility is included with mPDF >= 4.0 to generate new fonts on a Windows platform.

Only Open Source or GPL fonts have been included with mPDF for copyright reasons. You can add your own fonts to use in mPDF, but you have to create appropriate files. These instructions are for a Windows XP PC. If you need versions for Linux, please see TTF2PT1 and the modified version for unicode fonts by Steven Wittens at UFPDF.

On your (Windows) PC

1) From the *downloaded_mpdf/makefonts/* directory, copy *ttf2pt1.exe* and *ttf2ufm.exe* to *C:\windows* (or somewhere on your PC which is included in the configured PATH).

2) Select the font you want to use for mPDF - usually in *C:\windows\fonts*. Find the actual file names for each variant (normal, **bold**, *italic* and **bold-italic**). Note that if you view Fonts via the Windows Control panel, it shows the Font Name for display; you need to look for the actual file names e.g. for Times, the files are *times.ttf*, *timesbd.ttf*, *timesi.ttf*, *timesbi.ttf*

Note: The size of the font file will give you some indication of the likely coverage of different codepages; a font file size of 50kB or so will probably have limited coverage beyond win-1252; files between 150kB and 300kB are most likely to give useful coverage.

3) Edit the file *downloaded_mpdf/makefonts/font/mpdffont.bat* using Notepad or other plain-text editor. **Note:** Windows PCs will run/execute a .bat file if you double-click the filename. Use right-click and Edit - not "Open" which executes the file.

Choose a new font name to use in mPDF. If possible use the first word of the Display Name of the file i.e. the font "Lucida Sans" is in *lsans.ttf*; use "lucida" as the new font name for mPDF.

New font names should be all lowercase, with bold, italic and bold-italic forms followed by "b", "i", and "bi".

Edit the file as appropriate to look like below.

The original font file names should be as they are.

Note that the newfontname for the default win-1252 mapping does not have any extension.

```
ttf2pt1 -b -L win-1252.map c:\windows\fonts\OriginalFontName.ttf newfont
ttf2pt1 -b -L win-1252.map c:\windows\fonts\OriginalFontName-Bold.ttf newfontb
ttf2pt1 -b -L win-1252.map c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti
ttf2pt1 -b -L win-1252.map c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi

ttf2pt1 -b -L iso-8859-2.map c:\windows\fonts\OriginalFontName.ttf newfont-iso-8859-2
ttf2pt1 -b -L iso-8859-2.map c:\windows\fonts\OriginalFontName-Bold.ttf newfontb-iso-8859-2
ttf2pt1 -b -L iso-8859-2.map c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti-iso-8859-2
ttf2pt1 -b -L iso-8859-2.map c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi-
iso-8859-2

ttf2pt1 -b -L win-1251.map c:\windows\fonts\OriginalFontName.ttf newfont-win-1251
ttf2pt1 -b -L win-1251.map c:\windows\fonts\OriginalFontName-Bold.ttf newfontb-win-1251
ttf2pt1 -b -L win-1251.map c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti-win-1251
ttf2pt1 -b -L win-1251.map c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi-win-1251

ttf2pt1 -b -L iso-8859-4.map c:\windows\fonts\OriginalFontName.ttf newfont-iso-8859-4
ttf2pt1 -b -L iso-8859-4.map c:\windows\fonts\OriginalFontName-Bold.ttf newfontb-iso-8859-4
ttf2pt1 -b -L iso-8859-4.map c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti-iso-8859-4
ttf2pt1 -b -L iso-8859-4.map c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi-
iso-8859-4

ttf2pt1 -b -L iso-8859-7.map c:\windows\fonts\OriginalFontName.ttf newfont-iso-8859-7
ttf2pt1 -b -L iso-8859-7.map c:\windows\fonts\OriginalFontName-Bold.ttf newfontb-iso-8859-7
ttf2pt1 -b -L iso-8859-7.map c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti-iso-8859-7
ttf2pt1 -b -L iso-8859-7.map c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi-
iso-8859-7

ttf2pt1 -b -L iso-8859-9.map c:\windows\fonts\OriginalFontName.ttf newfont-iso-8859-9
ttf2pt1 -b -L iso-8859-9.map c:\windows\fonts\OriginalFontName-Bold.ttf newfontb-iso-8859-9
ttf2pt1 -b -L iso-8859-9.map c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti-iso-8859-9
ttf2pt1 -b -L iso-8859-9.map c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi-
iso-8859-9
```

Save, then run/execute the .bat file by double-clicking (the option "Open" will execute the file).

4) Check - You should find the following files in *downloaded_mpdf/makefonts/font/* directory:

```
newfont.afm
newfont.pfb
newfontb.afm
newfontb.pfb
newfonti.afm
newfonti.pfb
newfontbi.afm
newfonti.pfb
```

```
newfont-iso-8859-2.afm
newfont-iso-8859-2.pfb

.. and so on for each codepage, and for each variant.
```

5) Now change directory and edit the file *downloaded_mpdf/makefonts/unifont/mpdffontuni.bat*

Edit the file as appropriate to look like below.

```
ttf2ufm -a c:\windows\fonts\OriginalFontName.ttf newfont
ttf2ufm -a c:\windows\fonts\OriginalFontName-Bold.ttf newfontb
ttf2ufm -a c:\windows\fonts\OriginalFontName-Oblique.ttf newfonti
ttf2ufm -a c:\windows\fonts\OriginalFontName-Bold-Italic.ttf newfontbi
```

Save, then run/execute the .bat file by double-clicking (the option "Open" will execute the file).

6) Check - You should find the following files in *downloaded_mpdf/makefonts/unifont/* directory:

```
newfont.afm
newfont.t1a
newfont.ufm

newfontb.afm
newfontb.t1a
newfontb.ufm

newfonti.afm
newfonti.t1a
newfonti.ufm

newfontbi.afm
newfontbi.t1a
newfontbi.ufm
```

7) Edit the file *downloaded_mpdf/makefonts/font/mpdffont.php* adding the new font name.

8) Edit the file *downloaded_mpdf/makefonts/unifont/mpdffontuni.php* adding the new font name, and original filenames.

9) Now Upload to your server all contents of folders *downloaded_mpdf/makefonts/unifont/* and *downloaded_mpdf/makefonts/font/*

10) Upload copies of the original .ttf font files to *path_to_mpdf/makefonts/unifont/* (only)

On your website (or local PHP host):

11) Execute the files:

```
http://www.yourdomain.com/path_to_mpdf/makefonts/font/mpdffont.php
```

```
http://www.yourdomain.com/path_to_mpdf/makefonts/unifont/mpdffontuni.php
```

12) Check in folder *path_to_mpdf/makefonts/font/* There should be 2 new files for each codepage and each variant i.e.

```
newfont.z
newfont.php
newfontb.z
newfontb.php
newfonti.z
newfonti.php
newfontbi.z
newfonti.php

newfont-iso-8859-2.z
newfont-iso-8859-2.php

.. and so on for each codepage, and for each variant.
```

Move all the font files with *.z* or *.php* extensions to the folder *path_to_mpdf/font/*

13) (Optionally) Tidy up folder *path_to_mpdf/makefonts/font/* by deleting *.afm* and *.pfb* files - take care not to delete *.map*, *mpdffont.bat*, *makefont.php* or *mpdffont.php* files.

14) Check in folder *path_to_mpdf/makefonts/unifont/* There should be 3 new files for each font variant i.e.

```
newfont.ctg.z
newfont.z
newfont.php

newfontb.ctg.z
newfontb.z
newfontb.php

newfonti.ctg.z
newfonti.z
newfonti.php
```

```
newfontbi.ctg.z
newfontbi.z
newfonti.php
```

Move all the font files with *.ctg.z .z* or *.php* extensions to the folder *path_to_mpdf/unifont/*

15) (Optionally) Tidy up folder *path_to_mpdf/makefonts/unifont/* by deleting *.afm* , *.t1a* and *.ufm* files, and the *.ttf* font files - take care not to delete *mpdffontuni.bat*, *makefontuni.php* or *mpdffontuni.php*

16) Finally you need to edit *path_to_mpdf/mpdf_config.php*

- Add to *$available_fonts* (note this time the I, B and BI are capitalised) e.g.

```
$this->available_fonts = array(
        'newfontname','newfontnameB','newfontnameI','newfontnameBI',
...
```

- Add to *$available_unifonts* (note this time the I, B and BI are capitalised) e.g.

```
$this->available_unifonts = array(
        'newfontname','newfontnameB','newfontnameI','newfontnameBI',
...
```

- Add to one of: *$sans_fonts $serif_fonts* or *$mono_fonts* depending what type of font-face it is. You do not need to add the variants here. Add it first in the array if you want it to become your default font; otherwise the order/positioning is not important.

```
$this->sans_fonts = array(.... 'newfontname');
```

You have now finished, and mPDF should recognise the font when named (case-insensitive).

If you called your font e.g. "trebuchet", it will recognise:

```
$mpdf->WriteHTML('<p style="font-family:trebuchet">Hallo World</p>');

$mpdf->WriteHTML('<p style="font-family:Trebuchet">Hallo World</p>');

// In CSS it will recognise the first word of a font name:
$mpdf->WriteHTML('<p style="font-family:Trebuchet MS">Hallo World</p>');
```

> **Note:** If you are following these (old) instructions, and want to use embedded font subsets, you now have to produce [fontname].uni2gn.php files for all Unicode fonts, as well as optionally updating MySQL database. See the newer utility included with mPDF v4.0.

Printed on Wed 05 Aug 2015 12:37:34 GMT +0100 (DST)