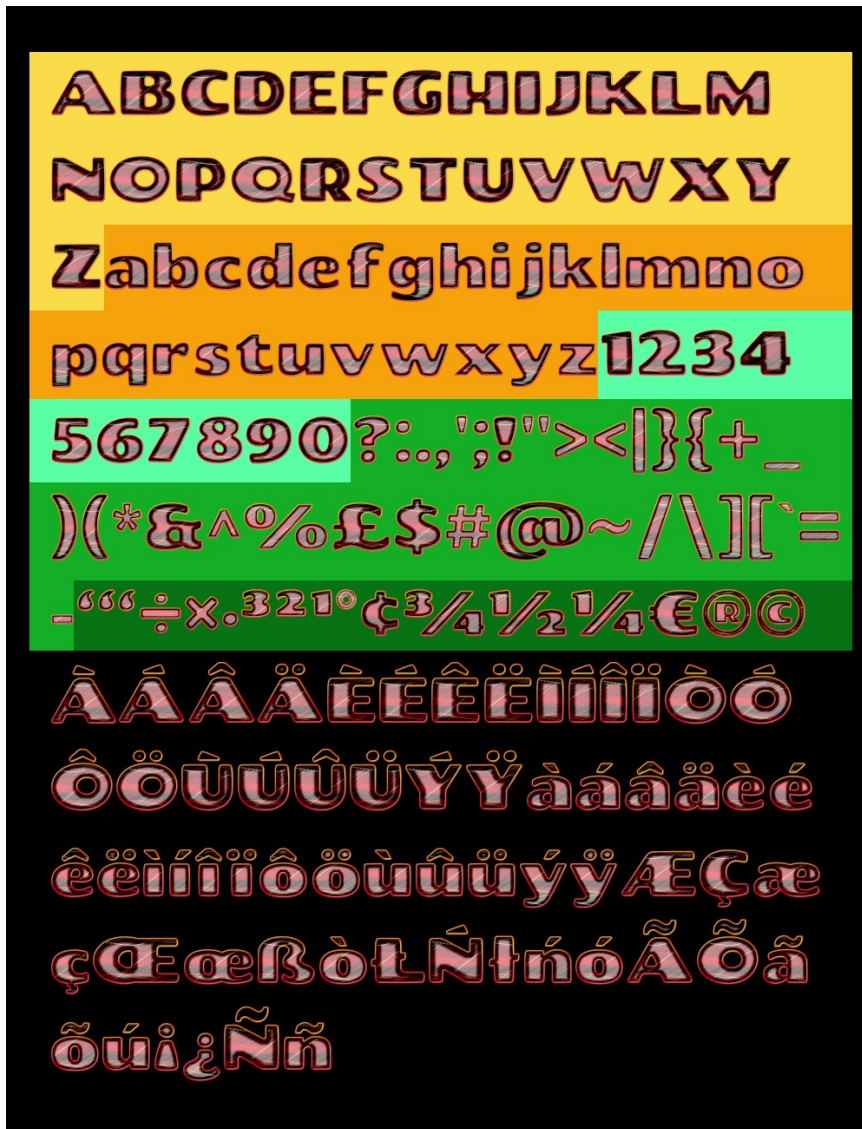


De-Assembler and Re-Assembler

The issue

I wanted to upload a 28Mb custom font file (15Mb when compressed) to a website with a 6Mb limit. The file contains 175 characters (includes the space character) and 172 kerning paths. It has 63 accented characters for use in languages other than English.

The different colours indicate some of the options available.



A solution

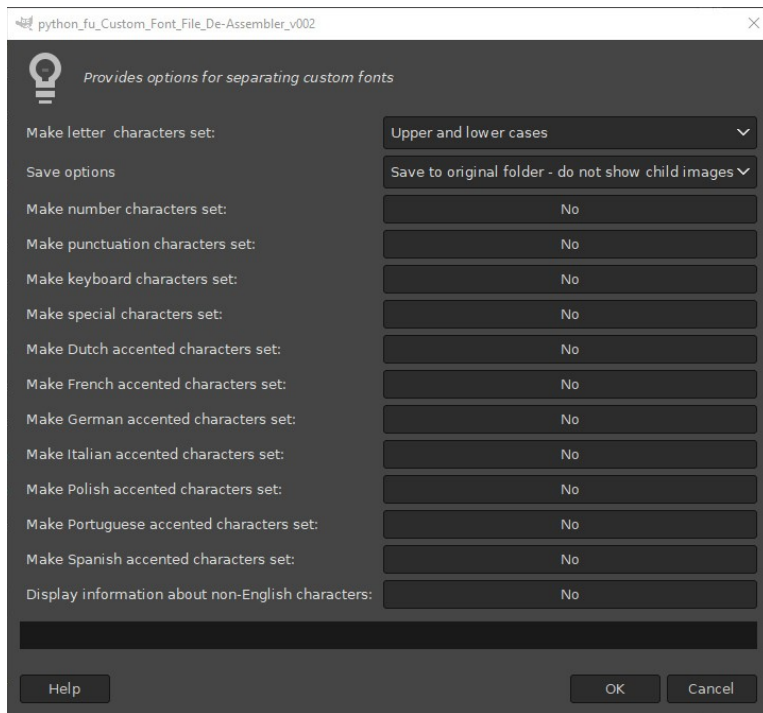
Use this De-Assembler plug-in to create smaller files; compress the new smaller files, perhaps placing more than one of them in folders, and upload those.

You could also use the plug-in to create just a range of characters for compressing and uploading.

Download the plug-in, decompress if necessary, and install to your user plug-ins folder. Place a copy of the custom font file in a work folder (just in case of accidents), start up Gimp and call up the plug-in:

Filters>>Custom Fonts>>Utility Tools>>Custom Font File De-assembler v. 02...

The dialog



If you just want to see what will be created use the default ‘Save options’ option to create new images just in Gimp.

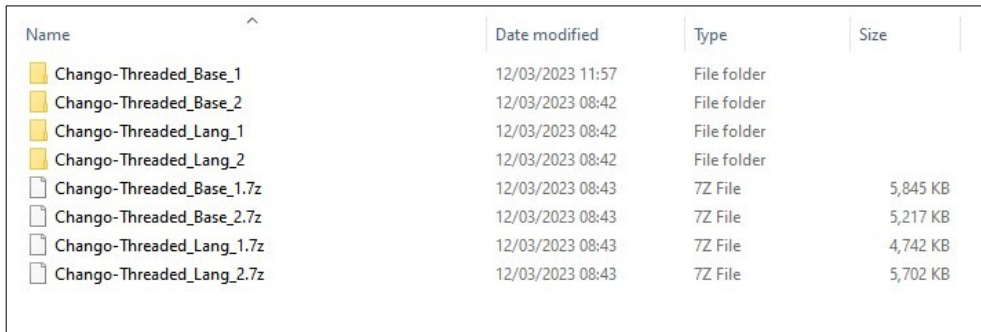
Use the ‘Save to original folder - do not show child images’ option to save the actual files back to the work folder (over-writing the original file in the process).

Select the character set options that you require and click on ‘OK’.

Name	Date modified	Type	Size
Chango_600_Threaded	12/03/2023 08:40	GIMP 2.10.34 XCF	5,255 KB
Chango_600_Threaded_a-lower-case-characters	12/03/2023 08:40	GIMP 2.10.34 XCF	4,099 KB
Chango_600_Threaded_b-keyboard-characters	12/03/2023 08:40	GIMP 2.10.34 XCF	5,914 KB
Chango_600_Threaded_c-non-keyboard-characters	12/03/2023 08:40	GIMP 2.10.34 XCF	2,070 KB
Chango_600_Threaded_Dut_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	3,487 KB
Chango_600_Threaded_Dut_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	4,510 KB
Chango_600_Threaded_Fre_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	2,767 KB
Chango_600_Threaded_Fre_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	3,486 KB
Chango_600_Threaded_Ger_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	574 KB
Chango_600_Threaded_Ger_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	969 KB
Chango_600_Threaded_Ita_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	876 KB
Chango_600_Threaded_Ita_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	1,170 KB
Chango_600_Threaded_Pol_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	490 KB
Chango_600_Threaded_Pol_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	676 KB
Chango_600_Threaded_Por_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	2,088 KB
Chango_600_Threaded_Por_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	2,820 KB
Chango_600_Threaded_Spa_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	1,130 KB
Chango_600_Threaded_Spa_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	1,715 KB

I chose to use all the options which created 18 smaller custom font files.

You can see from my screenshot that all of the files are smaller than the 6MB limit (pure luck) but I chose to add more than one file to some folders, to reduce the number of upload files, and then to compress those folders.



Name	Date modified	Type	Size
Chango-Threaded_Base_1	12/03/2023 11:57	File folder	
Chango-Threaded_Base_2	12/03/2023 08:42	File folder	
Chango-Threaded_Lang_1	12/03/2023 08:42	File folder	
Chango-Threaded_Lang_2	12/03/2023 08:42	File folder	
Chango-Threaded_Base_1.7z	12/03/2023 08:43	7Z File	5,845 KB
Chango-Threaded_Base_2.7z	12/03/2023 08:43	7Z File	5,217 KB
Chango-Threaded_Lang_1.7z	12/03/2023 08:43	7Z File	4,742 KB
Chango-Threaded_Lang_2.7z	12/03/2023 08:43	7Z File	5,702 KB

The screenshot shows the folders that I created with the folder names that made sense to me; I just wanted to differentiate between the English based characters and the accented characters for other languages.

The zipped files are ready for uploading to the website.

Re-Assembler

Once downloaded, de-compressed and saved to a folder the user can choose to re-assemble the custom font characters (using File>>Open as Layers...) or use the plug-in to automate the process.

The base set of characters, containing the upper-case letters and any kerning paths, usually appear as the first item in the list of custom font xcf files and retain the original custom font filename; high-lighted in the screenshot below.

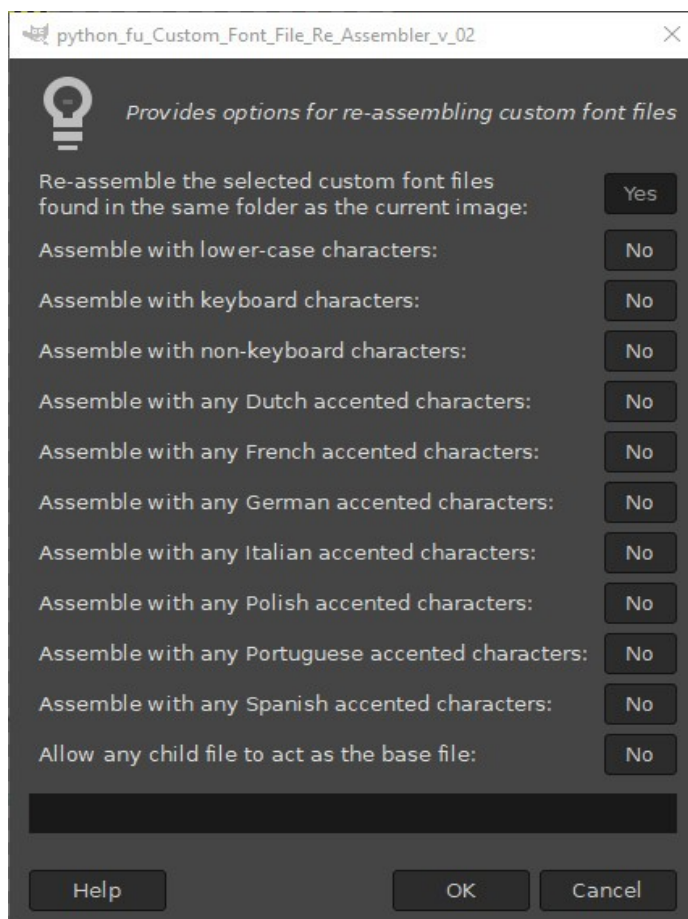
Name	Date modified	Type	Size
 Chango_600_Threaded	12/03/2023 08:40	GIMP 2.10.34 XCF	5,255 KB
 Chango_600_Threaded_a-lower-case-characters	12/03/2023 08:40	GIMP 2.10.34 XCF	4,099 KB
 Chango_600_Threaded_b-keyboard-characters	12/03/2023 08:40	GIMP 2.10.34 XCF	5,914 KB
 Chango_600_Threaded_c-non-keyboard-characters	12/03/2023 08:40	GIMP 2.10.34 XCF	2,070 KB
 Chango_600_Threaded_Dut_lc	12/03/2023 08:40	GIMP 2.10.34 XCF	3,487 KB
 Chango_600_Threaded_Dut_uc	12/03/2023 08:40	GIMP 2.10.34 XCF	4,510 KB

For example the user can elect to have either upper case or full case.

More importantly, the user can decide which, if any, of the accented characters to include in the final custom font upload; Dutch, French, German, Italian, Polish, Portuguese and Spanish language options are available.

Open the base custom font file in Gimp and call up the plug-in:

Filters>>Custom Fonts>>Utility Tools>>Custom Font File Re-Assembler v 02...



Select the options for the character layers to add to the image and click 'OK'.

Save this file as you wish.

Any files that you downloaded and no longer need can now be deleted from your machine.