Ft FOURIER Transform/Utility Suite

for Photoshop by RONC © 2018
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PHOTOSHOP Plugins/Scripts   by RONC

Ft FOURIER Transform/Utility Suite -

INPUT/OUTPUT IMAGES

The input must be an RGB file containing the three color channels of the image. The image maybe either 8, 16, or 32 bits/ color channel.

USAGE PARAMETERS

ITEM		FUNCTION	INPUT Size (px)	OUTPUT Size(px)	EXT.
Ft FORWARD					
1D	Half	1D Fourier half width forward transform of each channel	Width X height.	Width * 2 X height.	8bf
	Half Analysis	1D Fourier half width forward transform performed in both the ROW and COLUMN directions and are attached to the input file for display usage.	Width X height.	Width * 1.5 X height * 1.5.	jsxbin
2D	Single	2D Fourier full width forward transform of desaturated input.	Width X height.	Width * 2 X height.	8bf
	Half	2D Fourier half width forward transform of each channel	Width X height.	Width + 2 X height.	8bf
	Half Analysis	2D Fourier half width forward transform performed and attached to the input file for display usage.	Width X height.	Width * 1.5 X height * 1.5.	jsxbin
	Full	2D Fourier full width forward transform of each channel	Width X height.	Width * 2 X height.	8bf
3D	Half	3D Fourier half width forward transform of all channels	Width X height.	Width + 2 X height.	8bf
	Half Analysis	3D Fourier half width forward transform performed and attached to the input file for display usage.	Width X height.	Width * 1.5 X height * 1.5.	jsxbin
	Full	3D Fourier full width forward transform of all channels	Width X height.	Width * 2 X height.	8bf
iFt INVERSE					
1D	Half	1D Fourier half width inverse transform of each channel	Width + 2 X height.	Width X height.	8bf
2D	Single	2D Fourier full width inverse transform of desaturated input.	Width * 2 X height.	Width X height.	8bf
	Half	2D Fourier half width inverse transform of each channel	Width + 2 X height.	Width X height.	8bf
	Full	2D Fourier full width inverse transform of each channel	Width * 2 X height.	Width X height.	8bf
3D	Half	3D Fourier half width inverse transform of all channels	Width + 2 X height.	Width X height.	8bf
	Full	3D Fourier full width inverse transform of all channels	Width * 2 X height.	Width X height.	8bf
Ft UTILITIES					
	PadImage	Add a padding region about the input image. Very useful for small images into the Fourier transfrom.	Width X height.	Width * pad % X height * pad %.	jsxbin
	Concatenate	Place layer 1 followed by layer 2 into new layer. This is necessary for Complex math items.	Multilayer image width X height.	Single layer image width * 2 X height.	jsxbin

INSTALLATION/REMOVAL

These plugins and scripts should work on Photoshop versions CS6 and CC onwards for Windows x64 only.
They ight also work with Photoshop Elements on PC. Someone should try it. Please.

The Plugin's filename is of the type - FtXDY and will be loaded to a folder with mostly *.8bf files.
The Script's filename is FtFOURIER_Transform_Suite.jsxbin and will be loaded to a folder with mostly *.js, *.jsx, and *.jsxbin files.
The Help filename is FtFOURIER_Transform_Suite-HELP.pdf and should be placed in the same folder as the Script file.

WINDOWS 10 x64 foldername:
PSCC 2018:
C:\Program Files\Adobe\Adobe Photoshop CC 2018\Plug-ins
C:\Program Files\Adobe\Adobe Photoshop CC 2018\Presets\Script
C:\Program Files\Adobe\Adobe Photoshop CC 2018\Presets\Actions