This folder contains MATLAB software to accompany the paper Total Variation Denoising via the Moreau Envelope Author: Ivan Selesnick Journal: IEEE Signal Processing Letters Status: To be published 2017 \_\_\_ List of programs mtvd.m Moreau-enhanced TV denoising tvd.c Standard TV denoising (program by Condat) mtvd demol.m Demonstration program blocks.txt Original blocks signal (from WaveLab) blocks noisy.txt Noisy signal for demo \_\_\_ The program tvd.c is a C program by Laurent Condat for fast exact TV denoising. The algorithm is described in 'A direct algorithm for 1D total variation denoising', L. Condat, IEEE Signal Proc. Letters, 20(11):1054-1057, 2013. To compile this program to use it in MATLAB, type 'mex tvd.c' at the MATLAB command line. http://www.gipsa-lab.fr/~laurent.condat/download/condat fast tv.c \_\_\_ The blocks signal comes from WaveLab (wavelet software). http://statweb.stanford.edu/~wavelab/ \_\_\_\_ Contact Information: Ivan Selesnick Email: selesi@nyu.edu Department of Electrical and Computer Engineering Tandon School of Engineering New York University 6 Metrotech Center Brooklyn, NY 11201 USA Last edit: December 30, 2016