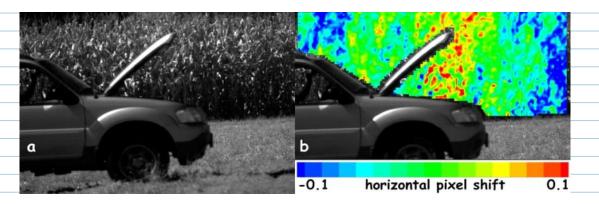


http://www.mne.psu.edu/psgdl/Res-Optical.html

The thermal plume generated from a hot truck engine is visualized against a background of corn. The (a) original image is compared to one recorded 7 ms later to determine the (b) horizontal pixel shift. The contour plot of horizontal pixel shift in a BOS image is optically equivalent to a vertical knife-edge cutoff in traditional schlieren.

Pasted from <<u>http://www.mne.psu.edu/psgdl/Res-Optical.html</u>>

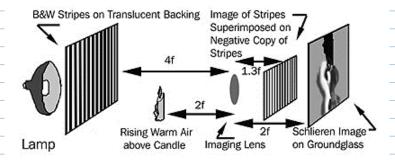


Hargather, Michael, and Gary S. Settles. "BACKGROUND-ORIENTED SCHLIEREN VISUALIZATI ON OF HEATING AND VENTILATION FLOWS: HVAC-BOS. Paper 266." In *ISFV14 - 14th International Symposium on Flow Visualization*, 1–8. EXCO Daegu, Korea, 2010. Hargather, Michael John, and Gary S. Settles. "Natural-background-oriented Schlieren Imaging."

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Focusing schlieren

http://people.rit.edu/andpph/text-schlieren-focus.html



Now, an even simpler method, using an encoded light field: Light Field Background Oriented Schlieren Photography (LFBOS) http://www.cs.ubc.ca/nest/imager/tr/2011/LFBOS/

Air-Water interface; very large change in refractive index Dip drip?