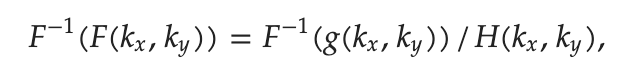
Image-Improvement

* Richardson-Lucy algorithm
* "is one of the most commonly used procedures for image deblurring/enhancement" (Paper 1)
* Paper 1:<https://opg.optica.org/ao/fulltext.cfm?uri=ao-52-23-5663&id=259931>
* Paper 2:<https://opg.optica.org/josaa/fulltext.cfm?uri=josaa-12-1-58&id=33094>
* Lucy-Richardson Code:<https://scikit-image.org/docs/dev/auto_examples/filters/plot_deconvolution.html>
  + Simple enough could implement in simple phone program

Ideas

* Set up selection of "good" frame that a blurry frame should strive to match in terms of parameters, clarity, etc
  + See Paper 1 -> 3.Results -> A.PSF Estimation of the OCT System & B. Quality Improvement of OCT Images
    - The improvement algorithm reduces the homogeneity of the subregions in the images. Less homogeneity equals to a larger standard deviation in the region of interest (Paper 1)
    - The visual contrast of the images is always improved by deconvolution (Paper 1)

Notes

* Blind deconvolution is the term given to an image-restoration technique in which complete knowledge of both the point-spread function (PSF) and the object are not available. (Paper 2)
  + What is PSF? (Everything below from Paper 1)
    - Resulting function of convolution between light and original object
      * f(x, y) @ h(x, y) = g(x, y), 
        where @indicates the convolution operation [2]. 
    - 
      * Computation for undistorted image
      * Apply as inverse filter to enhance higher frequencies
    - Lucy-Richardson is most successful one at doing this
      * g(x, y) 
        h(x, y) efm(x, y) 

* + Downloaded code - realized need to download library to get it working
  + Look into creating algorithm from scratch?
  + Matlab has own built-in implementation…does matlab work in ubiquitous computing?
    - <https://www.mathworks.com/help/images/deblurring-images-using-the-lucy-richardson-algorithm.html>
    - More on matlab implementation:<https://stackoverflow.com/questions/9854312/how-does-richardson-lucy-algorithm-work-code-example>