* Remove noise
* Fix brightness
* Remove warping

# Removing Noise

Foud medians approach gave 0.7. Preserved lots of the detail. NL median didn’t have good results with. Found it difficult to remove salt and pepper nosie. Billateral couldn’t do it.

# Fixing Perspective

Not a simple approach to fix ellipse. Drew points on the image and tried to map them so that the images would be more circular

# Contrast

Looked at histograms of images with matplotlib.

Does not support contrast stretching as such

Want histogram to be uniform. Applied clache so as to not factor in outliers noise

def exponential\_transform(img,c=1,alpha=0.005):

# Colour Correction

Red part of the image overexposed. Green and blue channels a lot darker.

Green and Blue channels are very dark and distributed right at the bottom

Red channel is right at the top

# Inpainting

In painting seemed important because it is not expected to have a block spot there. Model for some reason, deam this more or less likely to be healthy or not. Make bigger and feather edges