# Colour-snap

I have decided on the pre-processes that will be performed on all images to simplify processing:

1. HLS Colour-snap with segment size of 16
2. Median Blur, filter size: 3

Note: Is the median blur actually necessary? Intuitively maybe, in only some of the cases, it looks neater. However according to many things, it may not be.

For now I will remove it, and add it only if necessary.

# Colour Frequencies

I have added weighting to the frequencies so that the our pixels are given less weight than the inner ones. This is because no matter what the subject, due to cropping, a generally acceptable assumption is that the focus of the subject is its centre, or at list that the centre for each angle of the subject will be the same, and the fringes/background will differ.

With that done, I generated frequency graphs (frequencies relative to the maximum frequency for any one colour) showing the order of the most frequent colours. From this I can extract the cases where there is clearly a more prominent colour (the second most frequent is < 50% as frequent as the first) and add the hue value to the ITH Image ID.

The ID results for the above frequency algorithm are saved into the file: results\_frequency0.txt