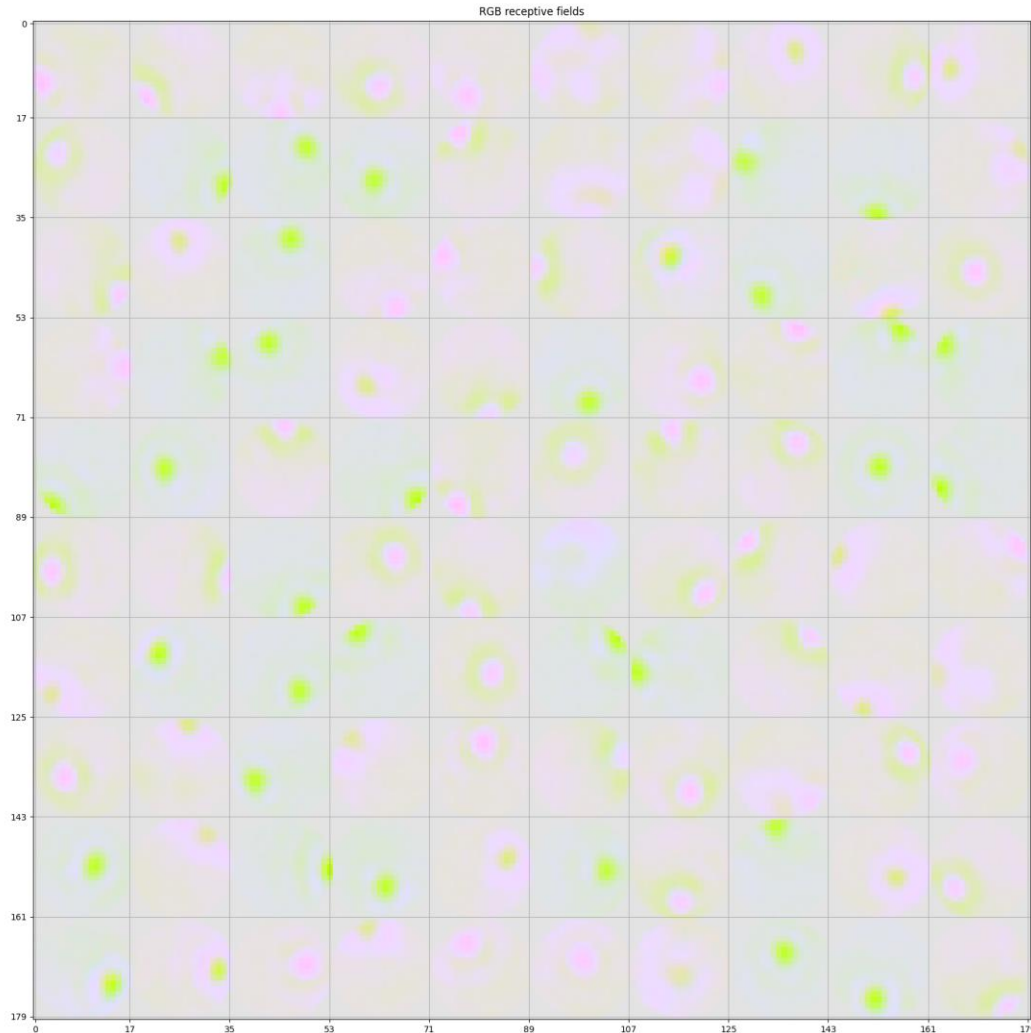


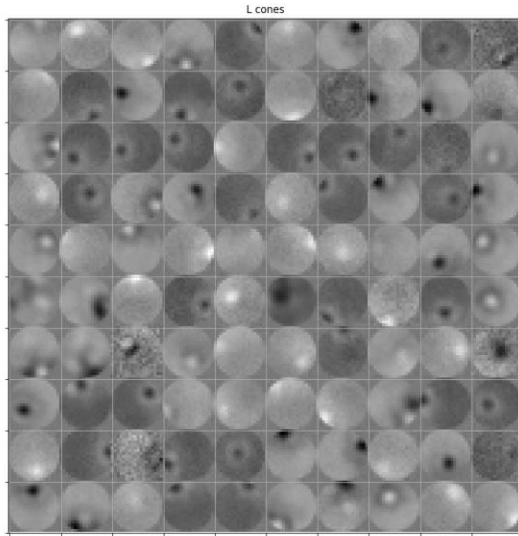
Note: L2 has been normalized to be a constant for each kernel

If I increase the contrast a little bit:  
Saturation, but the image looks better

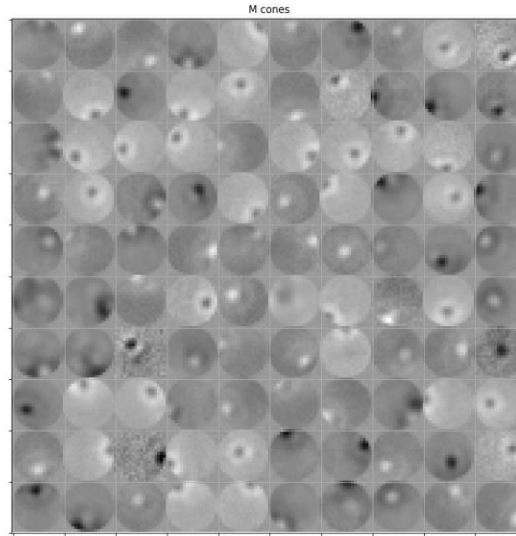


# Receptive fields for each cone type

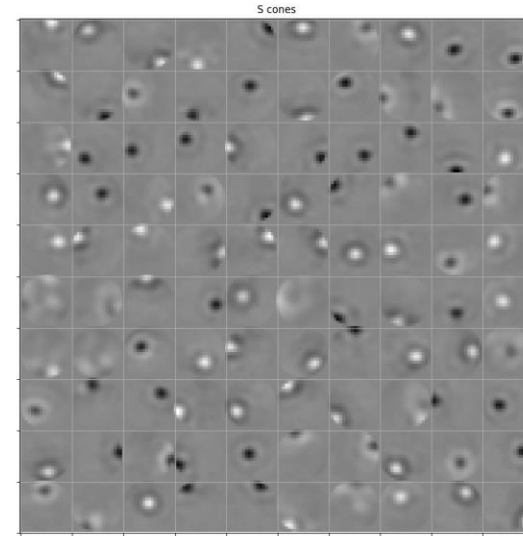
L cones



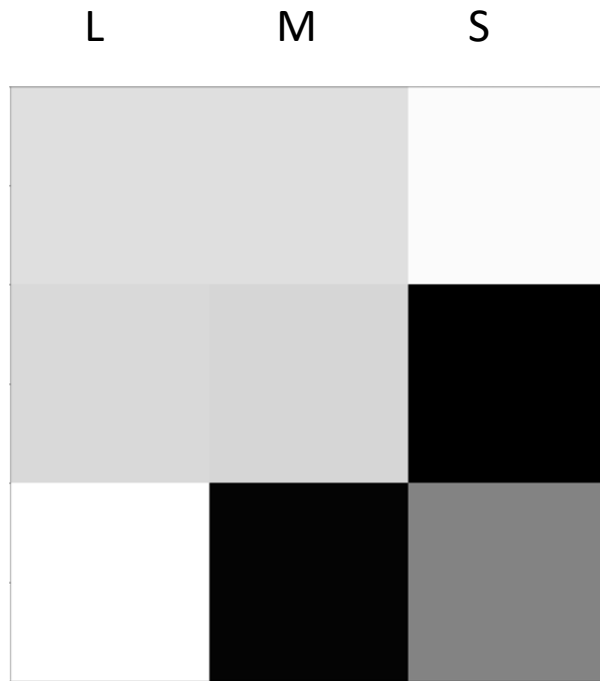
M cones



S cones



# PCA loadings

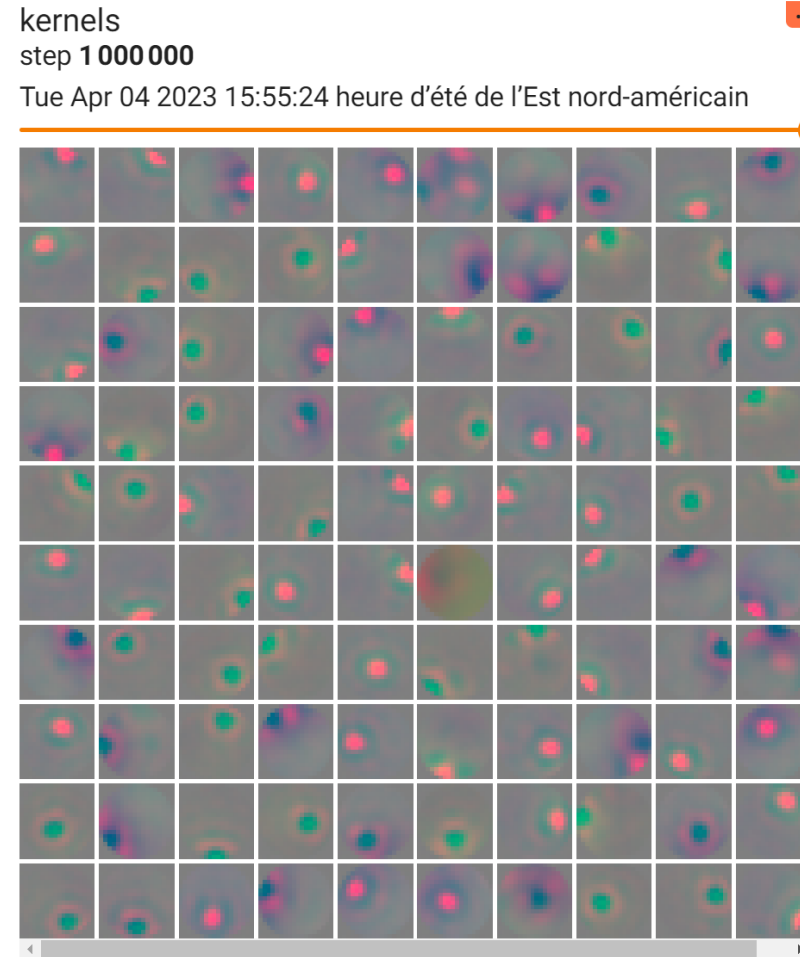


= Luminance channel (53% variance)

= (L+M) - S channel (blue/yellow; 4.9% variance)

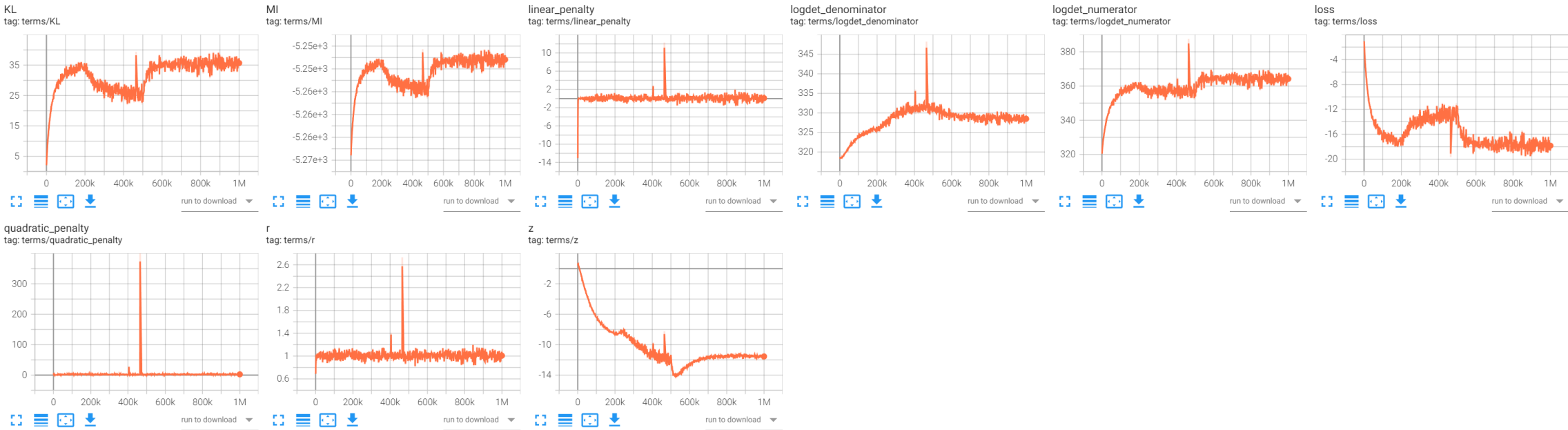
= L - M channel (red/green; 0.38% variance)

# Around step 500k, RGCs developed a surround

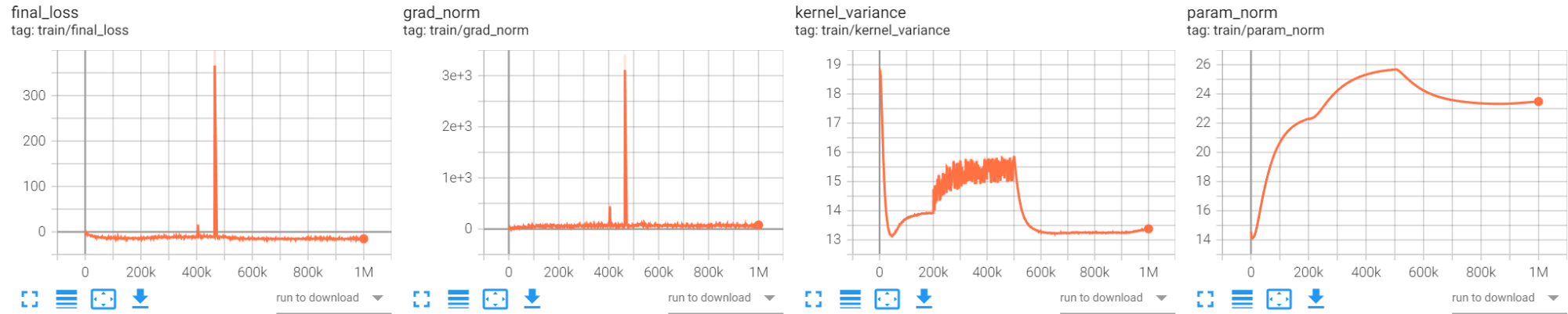


- Note: This is in PCA space (red = luminance, green = blue/yellow channel)

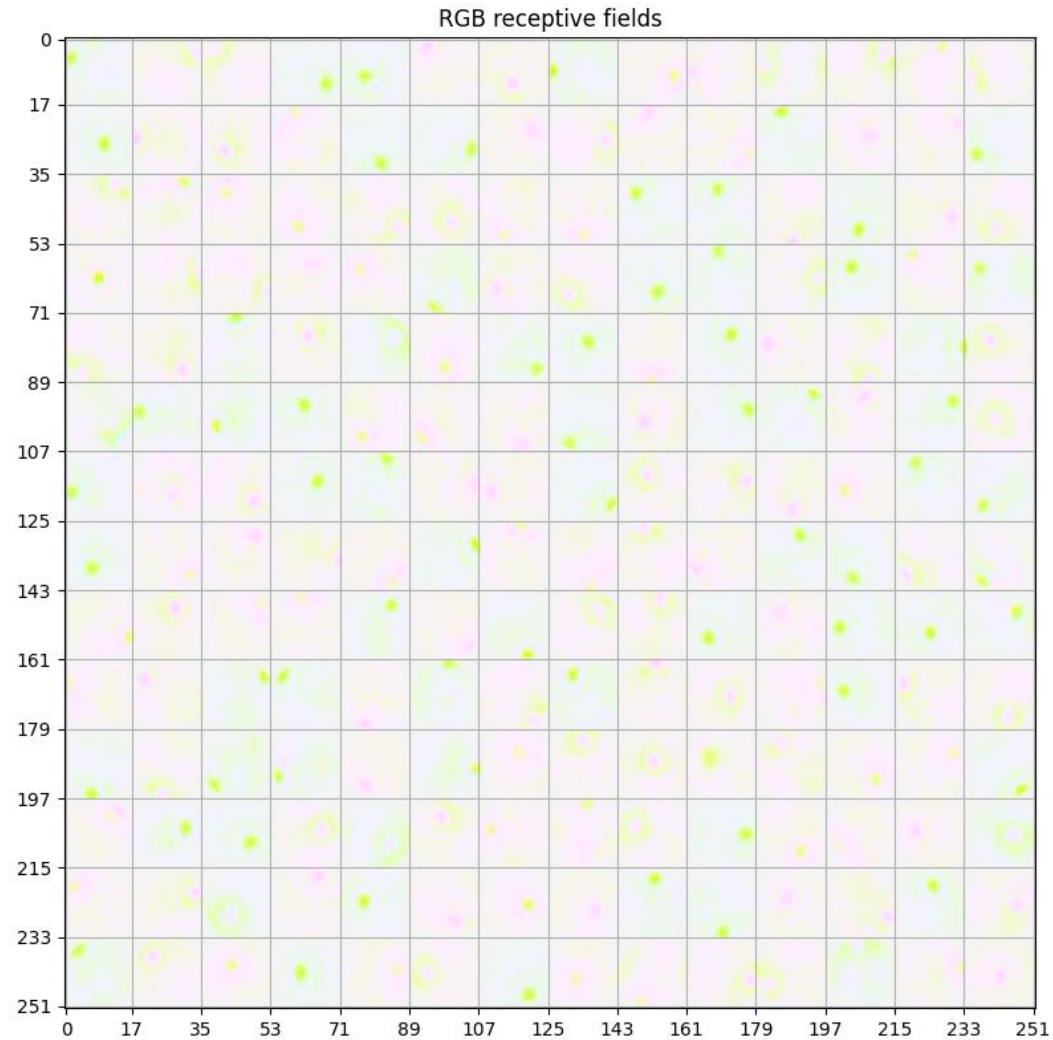
terms



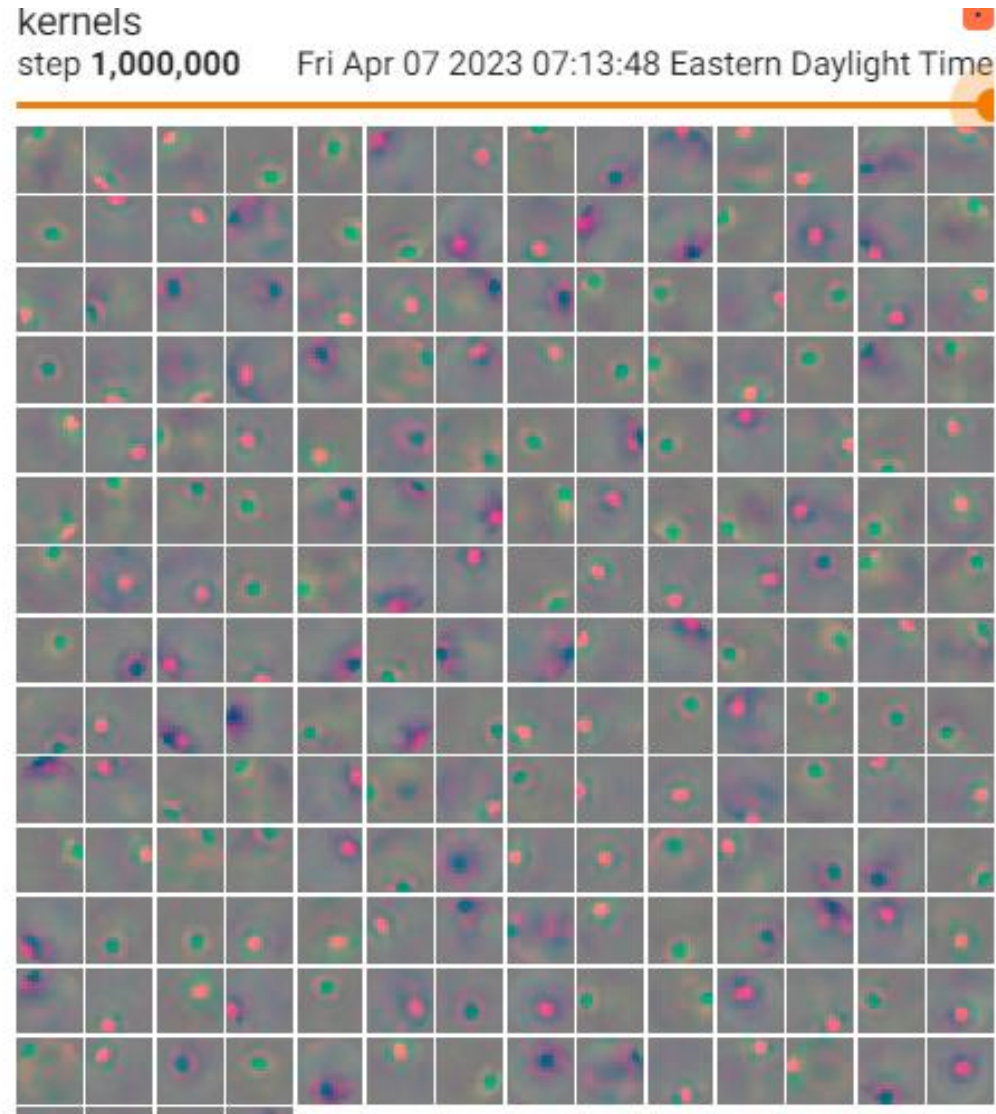
train



# What if we increase the number of RGCs to 200?

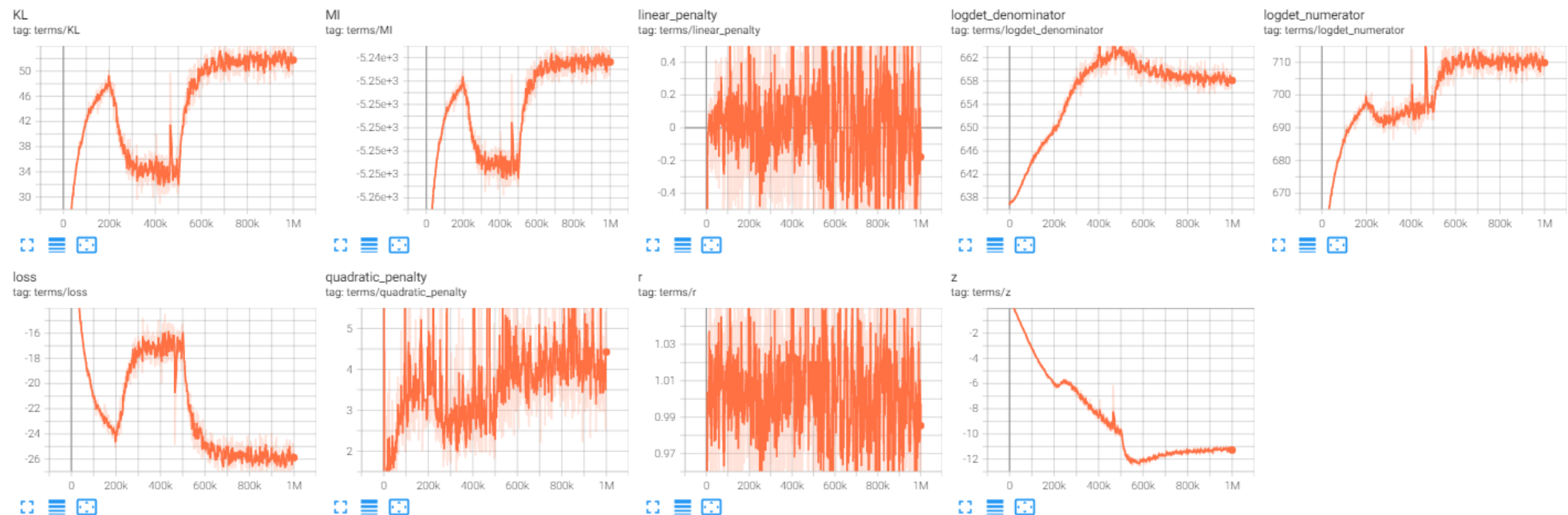


# PCA space – surrounds are more clear



Note: This is in PCA space (red = luminance, green = blue/yellow channel)





train

