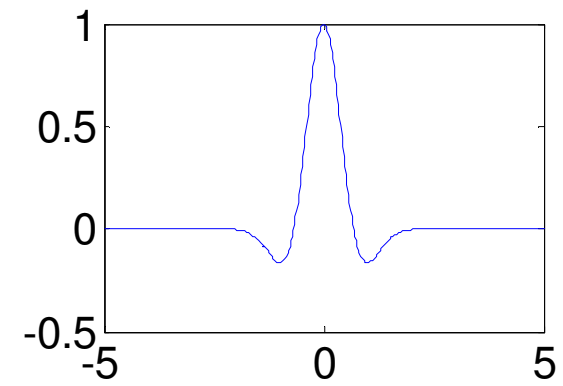
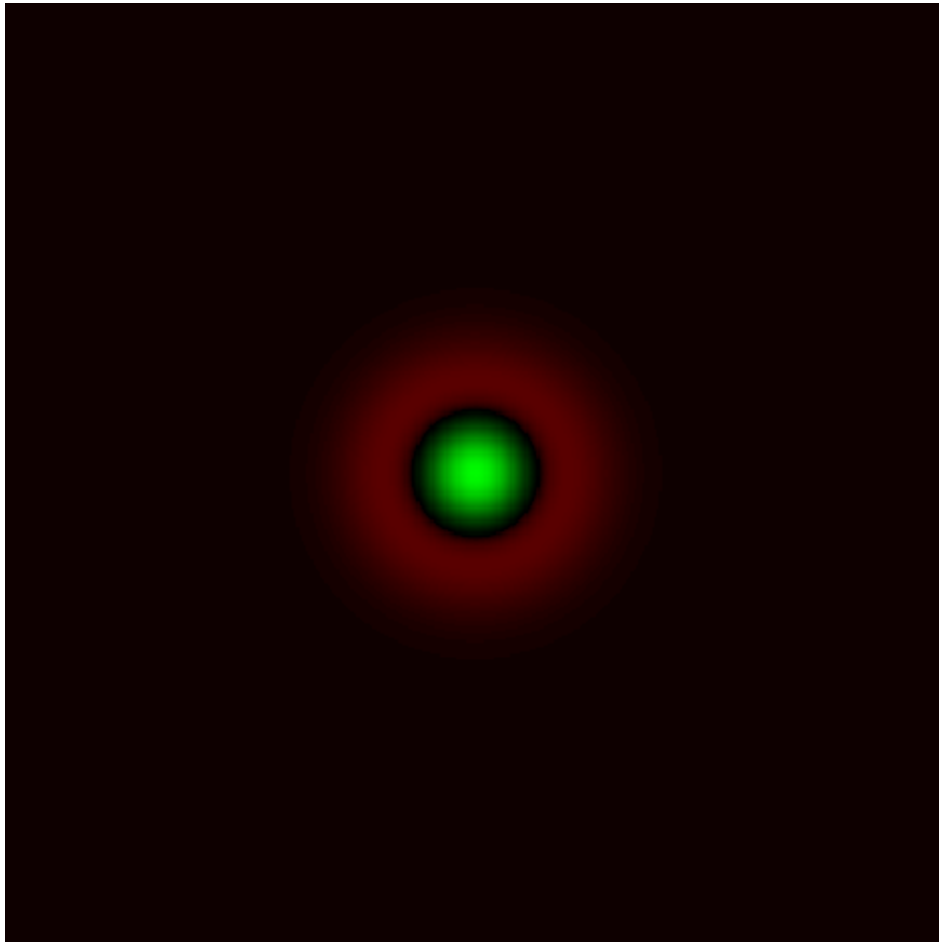
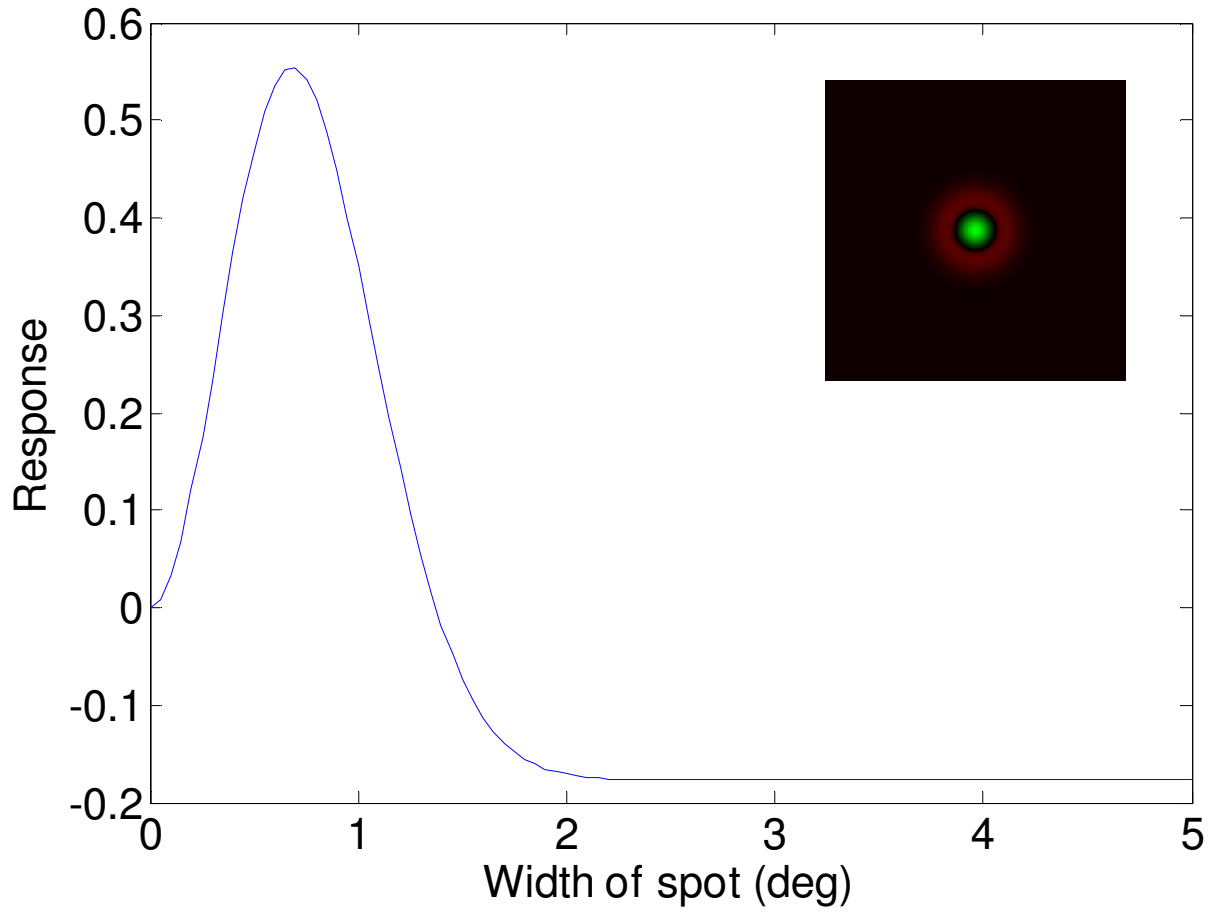


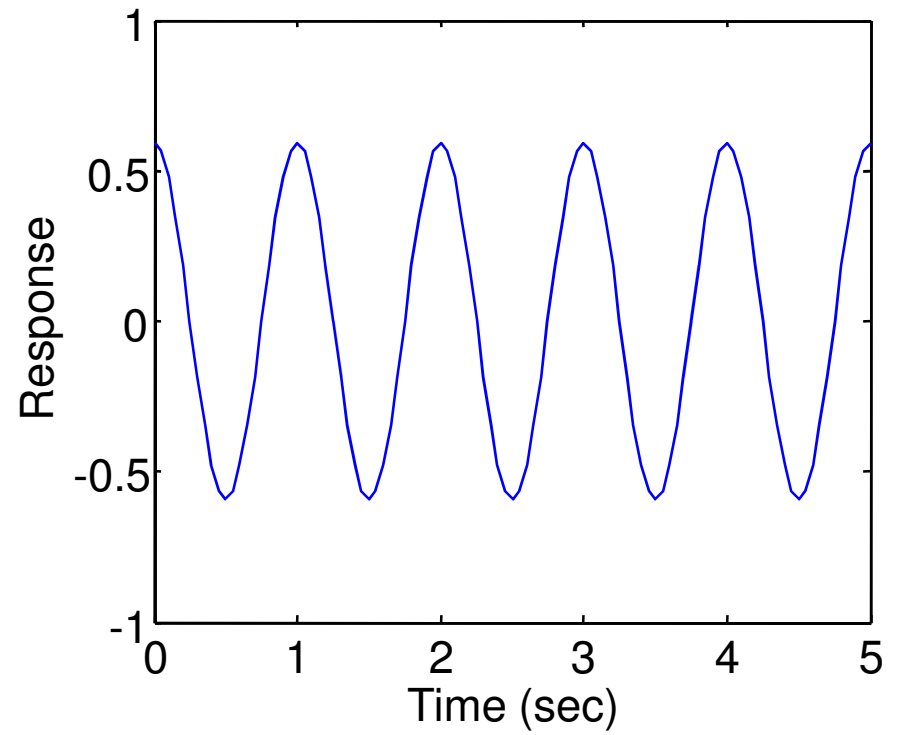
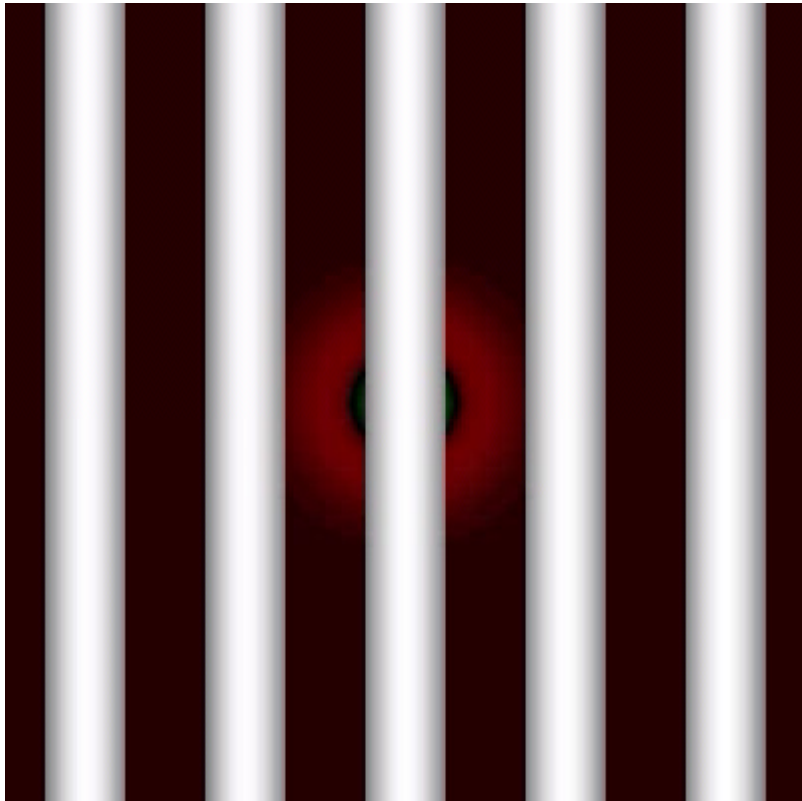
Standard model of 'on-center' LGN receptive field: Difference of Gaussians (DOG)



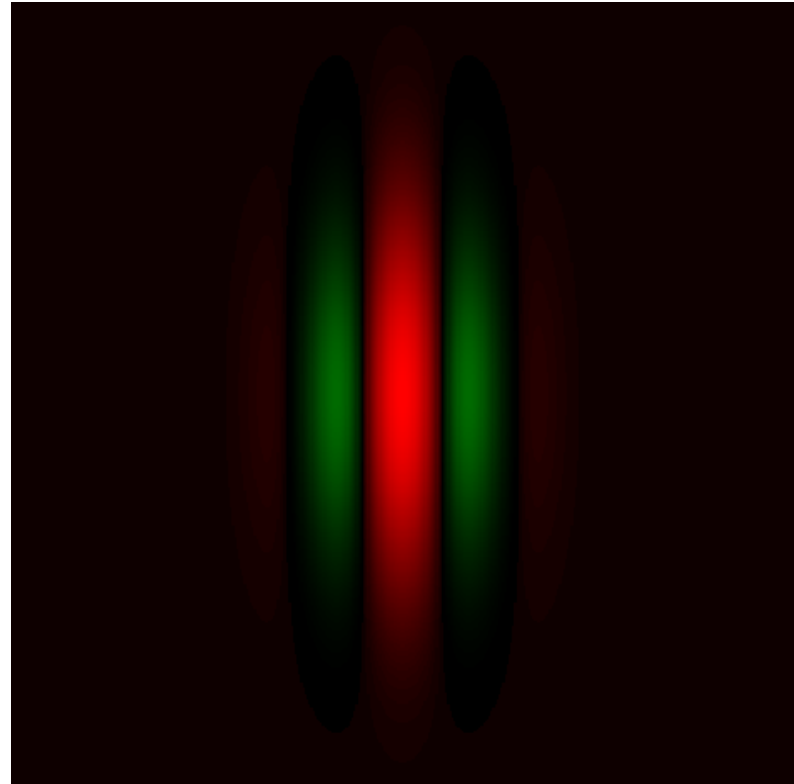
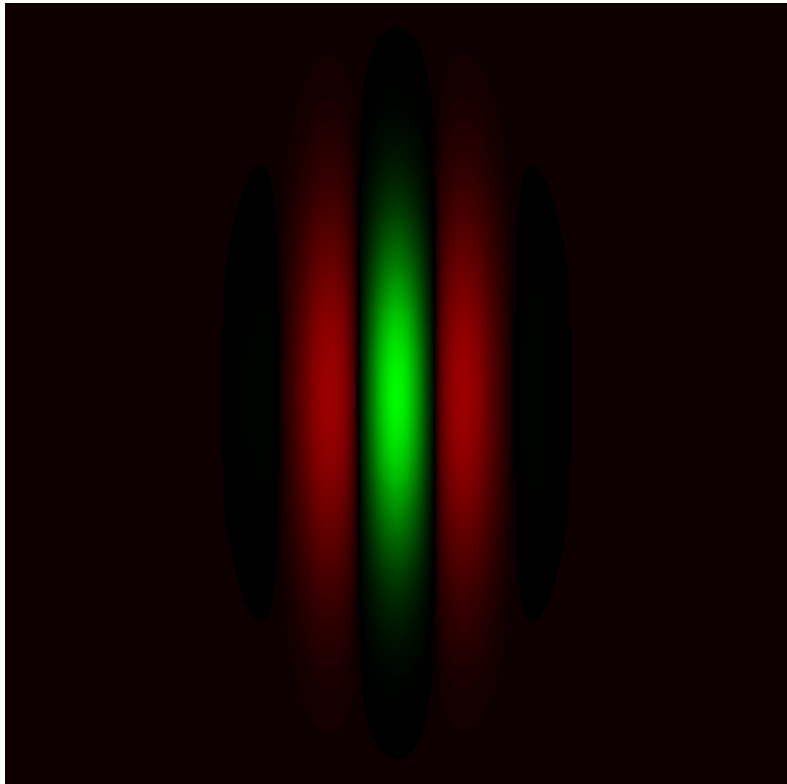
Response of LGN cell to spot of increasing size



Response of LGN cell to a drifting grating

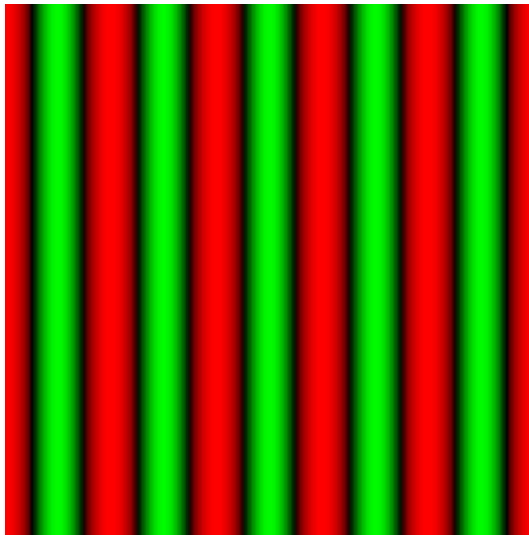


Standard model of V1 simple cell receptive field: Gabor



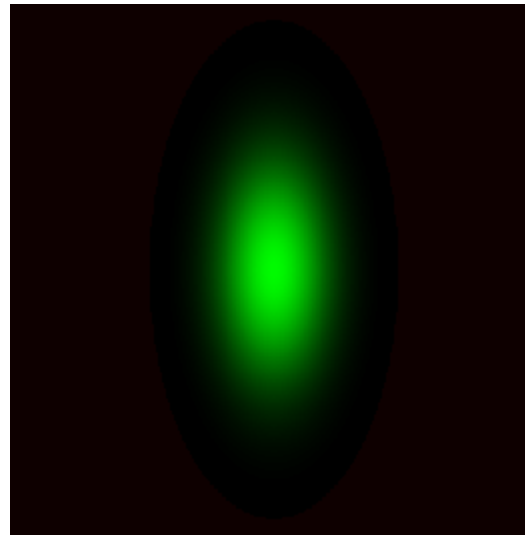
A Gabor is a Grating multiplied with a Gaussian

Grating



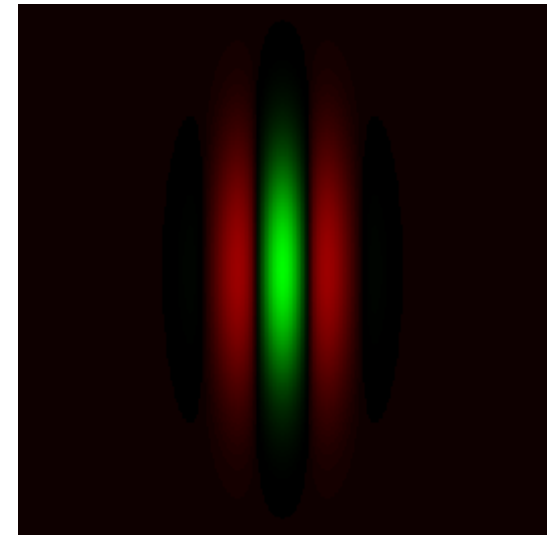
X

Gaussian



=

Gabor



Parameters:

spatial frequency

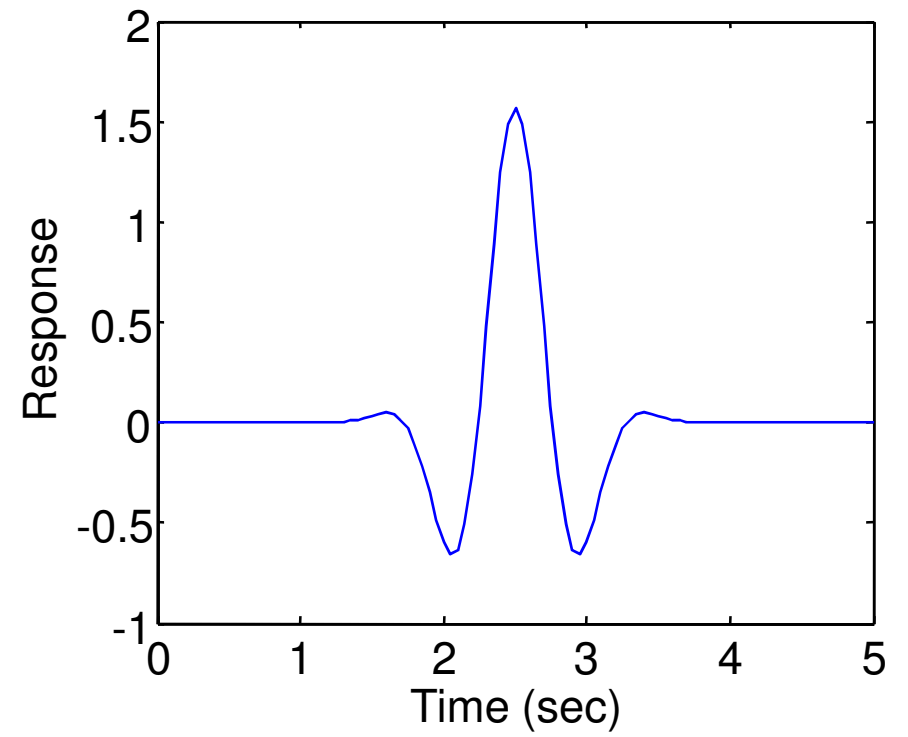
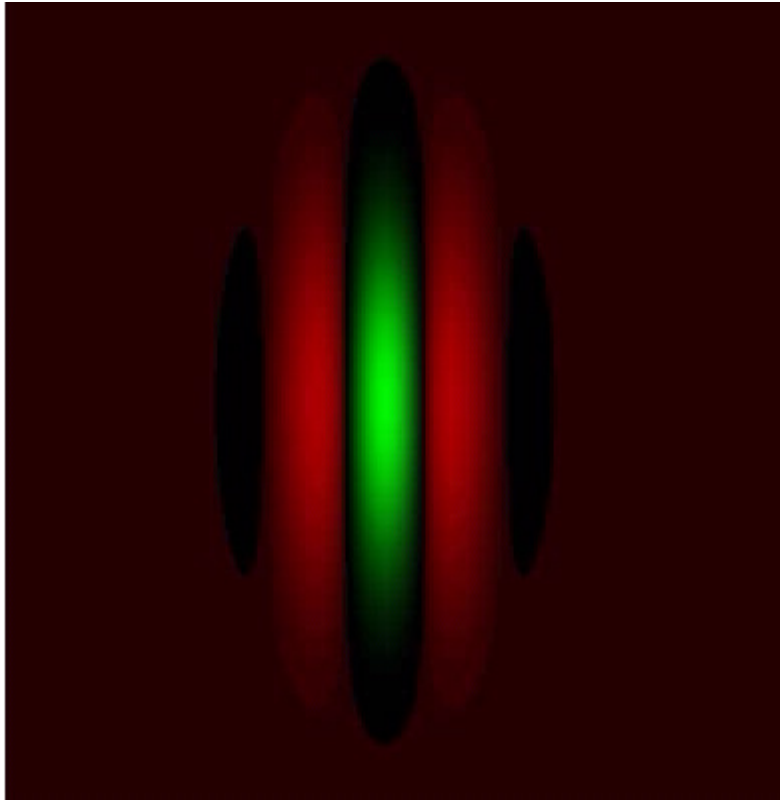
phase

orientation

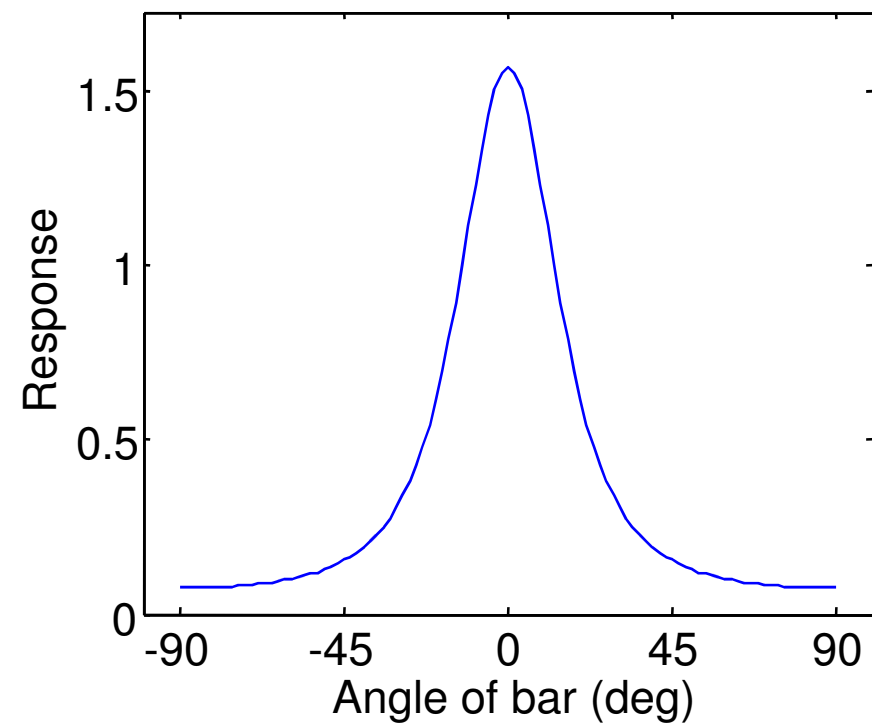
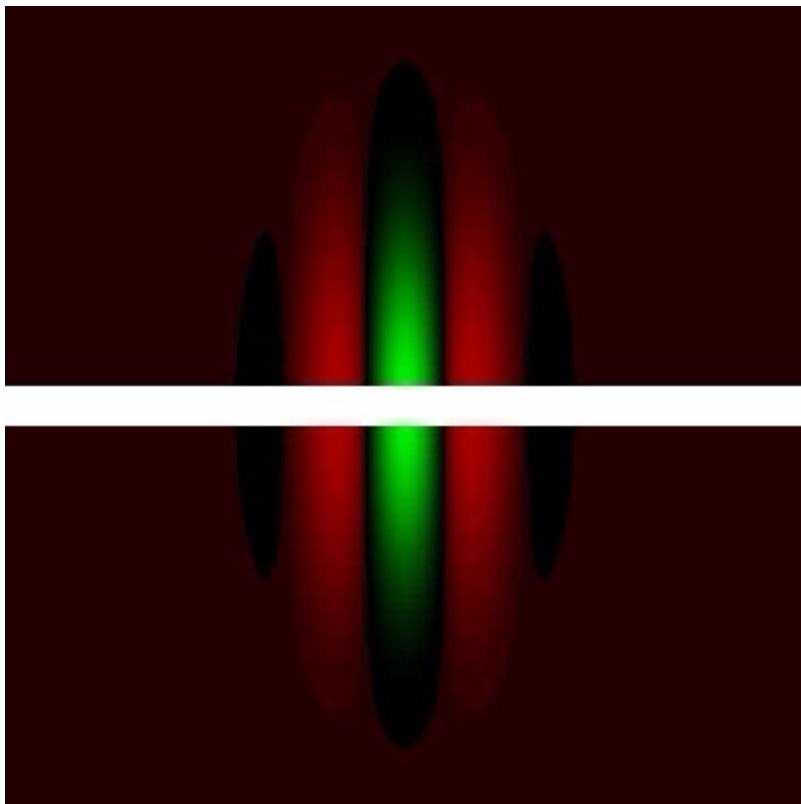
contrast

width and height of Gaussian

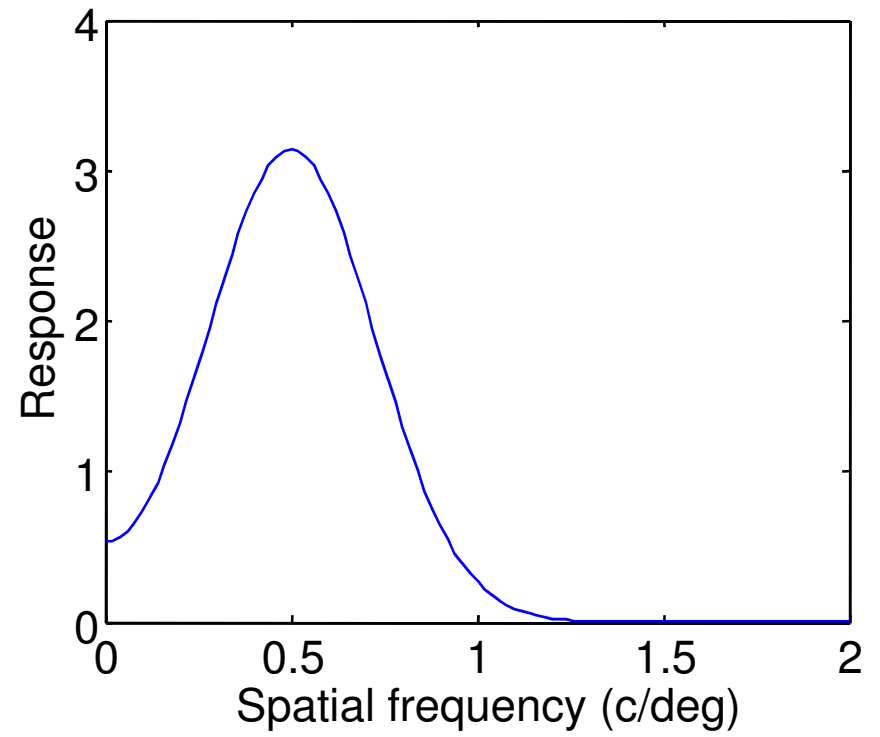
Response to Moving Bar



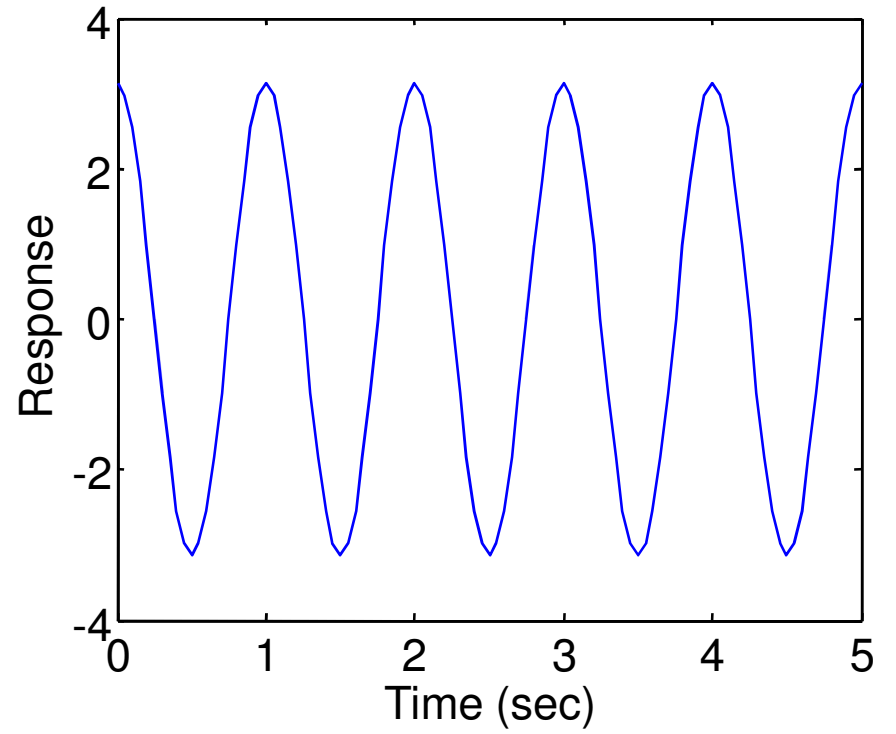
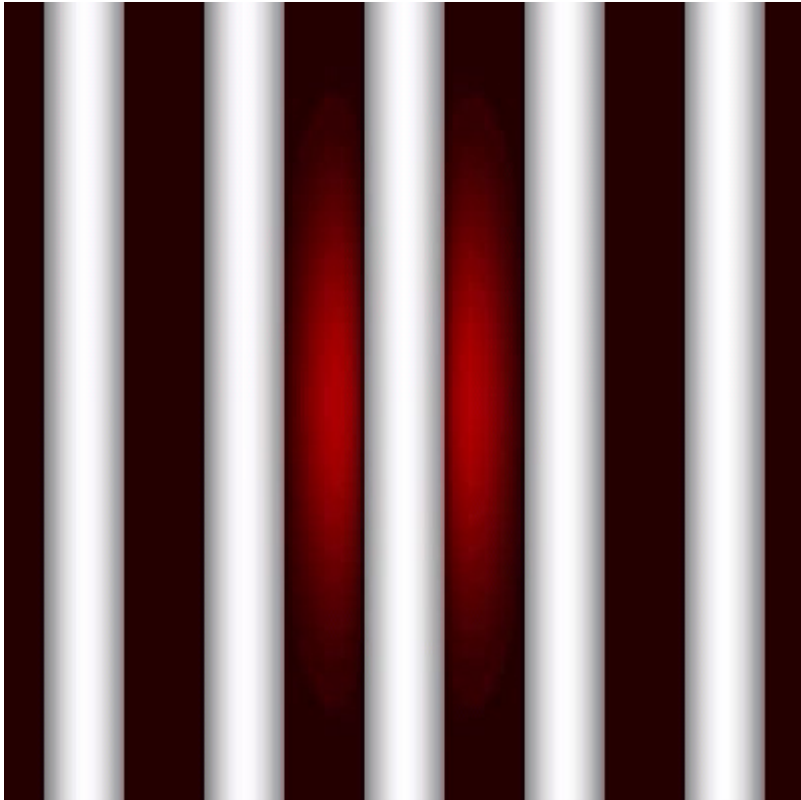
Orientation selectivity for Gabor RF

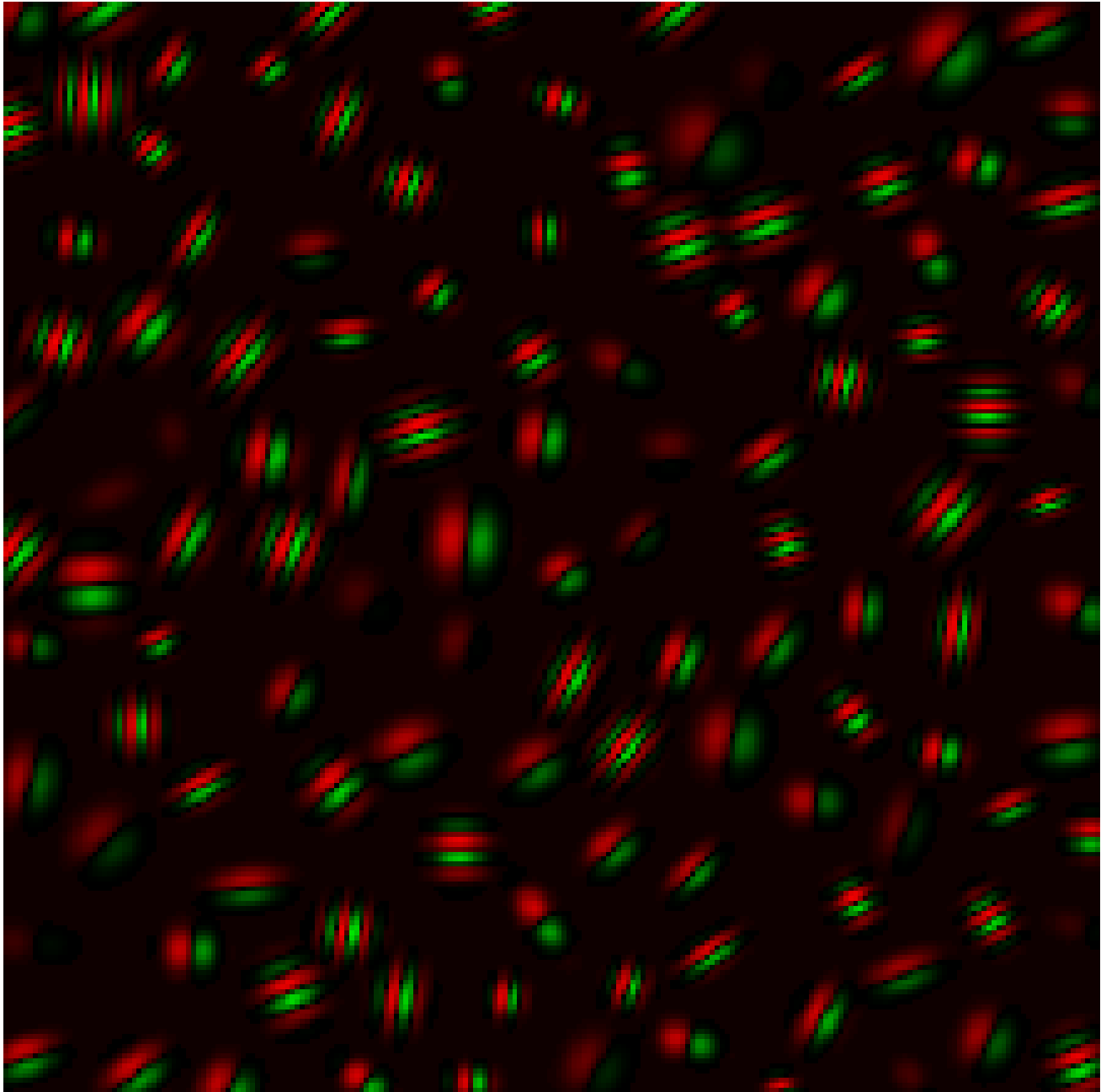


Spatial Frequency Selectivity

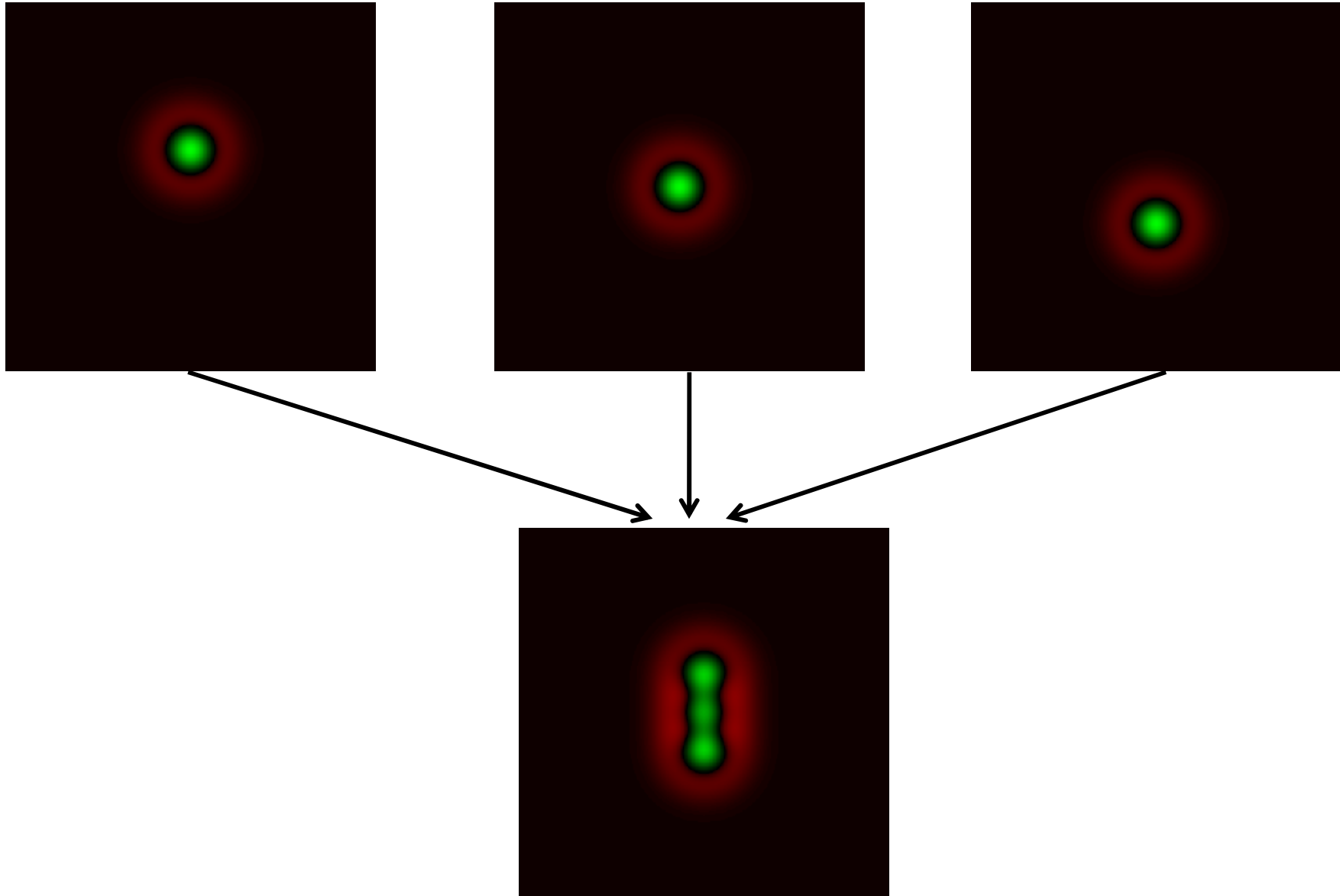


Response to Drifting Grating





Hubel-Wiesel Model of Simple V1 Cell



Hubel-Wiesel Model is similar to the Gabor

