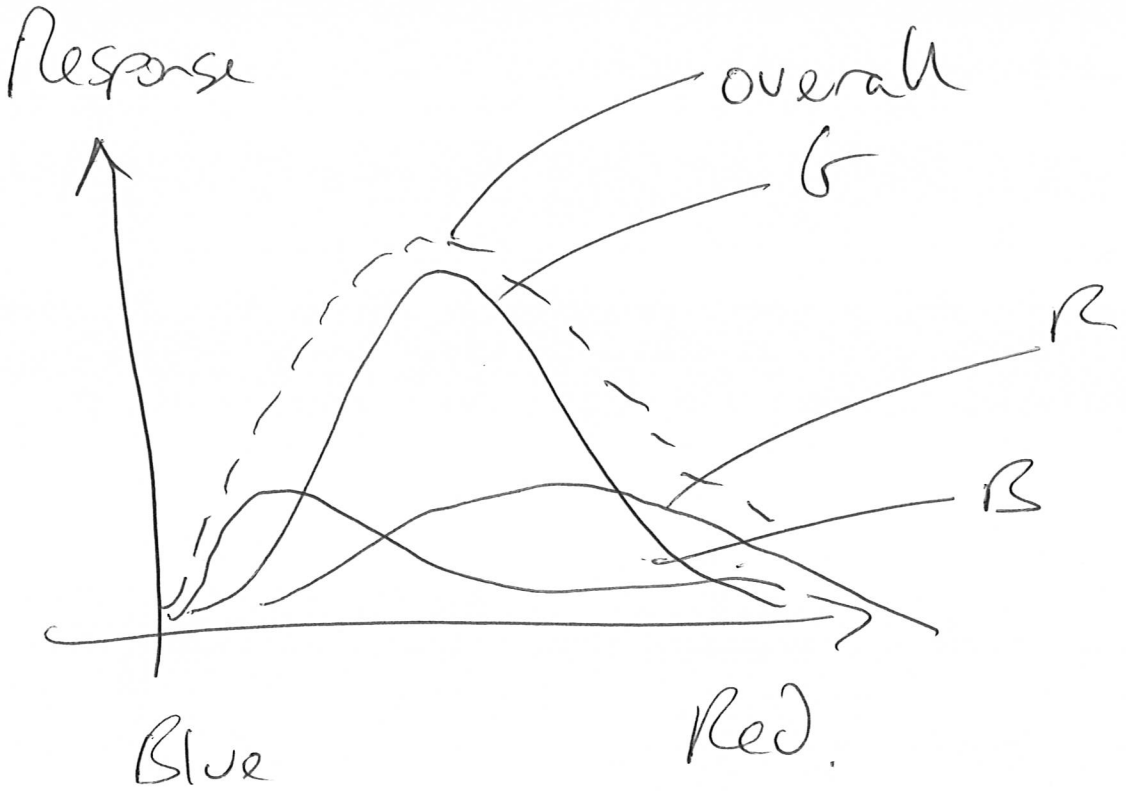
1. Human Vision – is it a model? (2-12)

a). physical model
- evolved for survival
- form image on fovea
- shape lens
- many sensors

rods
10^8
Black-white

cones
10^7
colour

R – red – long wavelength
G – green – medium –
B – blue – short –



— not enough bandwidth
(must be coding or compression).
— Mach bands are introduced
by human vision

b). experimental model

— combine signals together
— use weighting functions & bias
chosen by experiment
— e.g. is brightness = $\frac{R+G+B}{3}$

c/. Psychology

Occipital cortex — associative cortex

patterns — connections

needs training

subject to illusion/delusion

Is ~~computer~~ human vision a good model for computer vision?