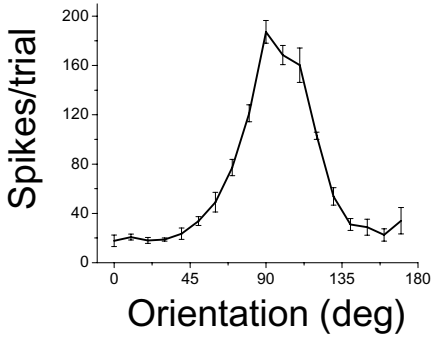
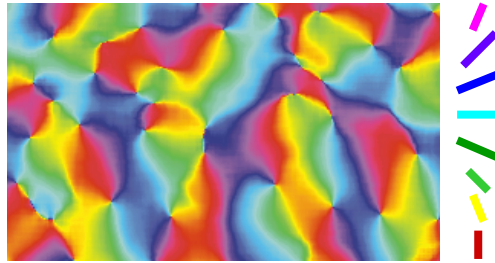


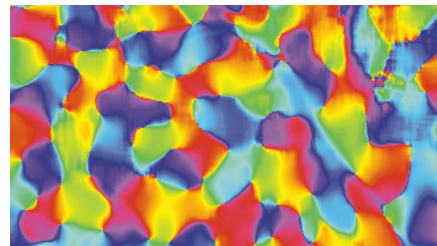
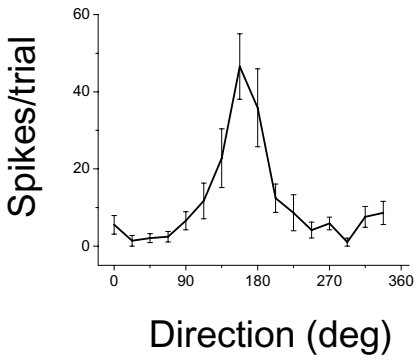
a. Tuning curves



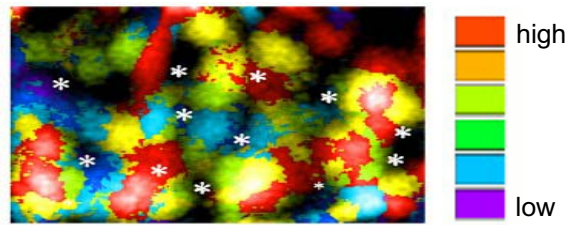
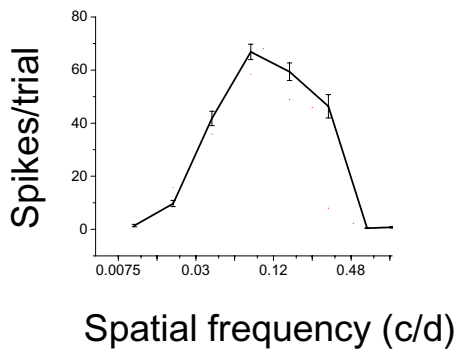
b. Preference maps



Orientation map

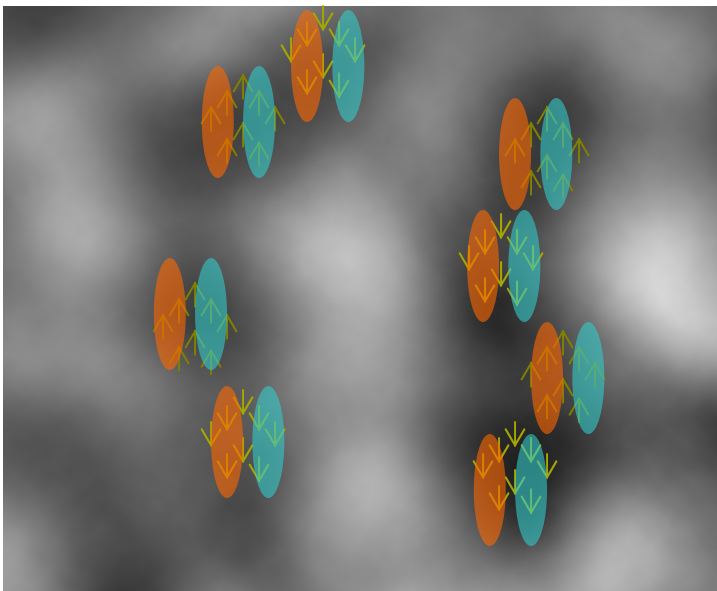
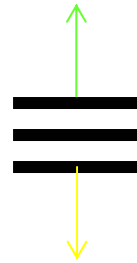
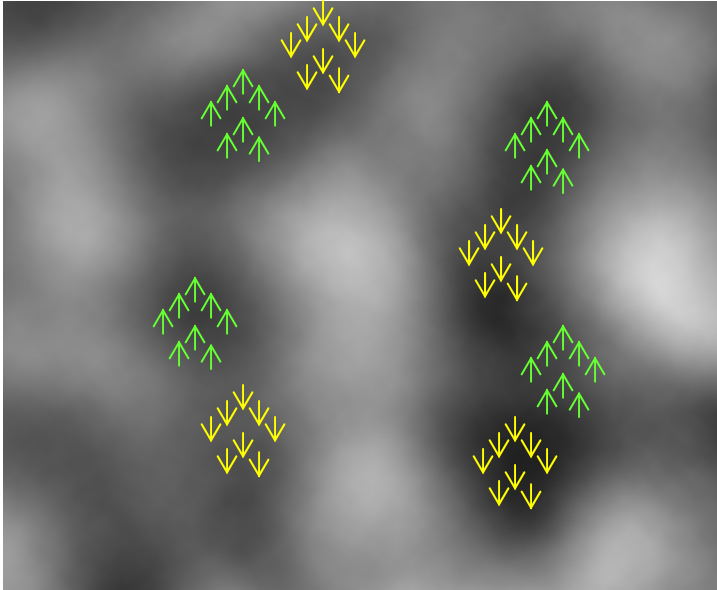


Direction map



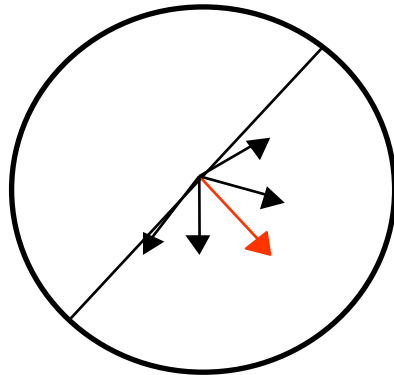
Spatial frequency map from Issa et al (2000)

The multiple map hypothesis



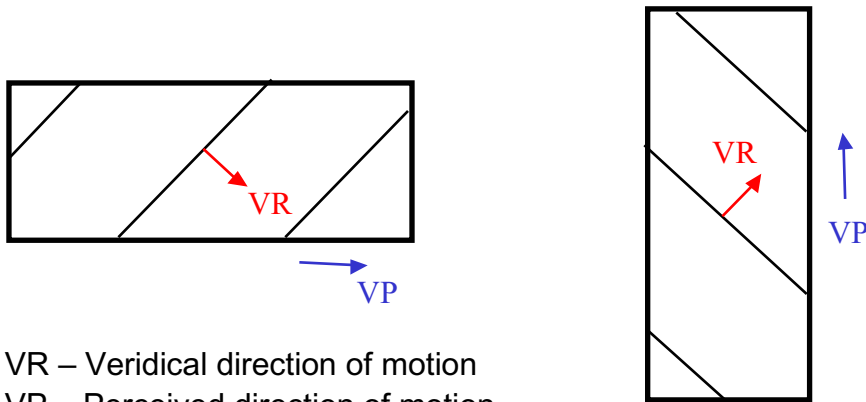
-  High SF domain
-  Low SF domain

a. Circular aperture



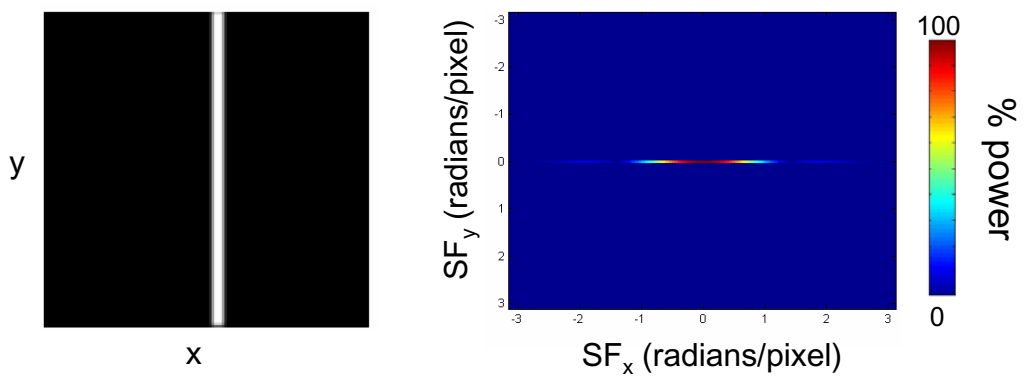
→ Perceived direction of motion

b. Rectangular aperture (“barber-pole”)

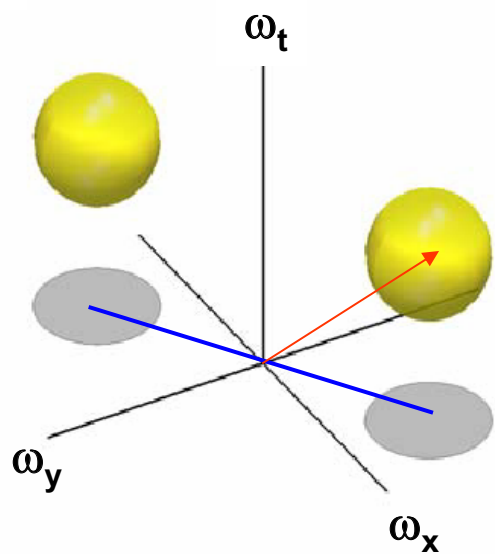


VR – Veridical direction of motion
VP – Perceived direction of motion

c Power spectrum of infinite line segment

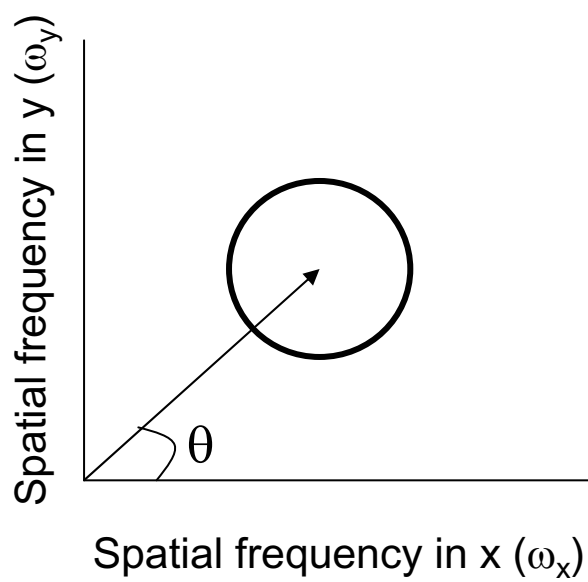


a.



Adapted from Mante and Carandini (2005)

b.



θ = preferred orientation