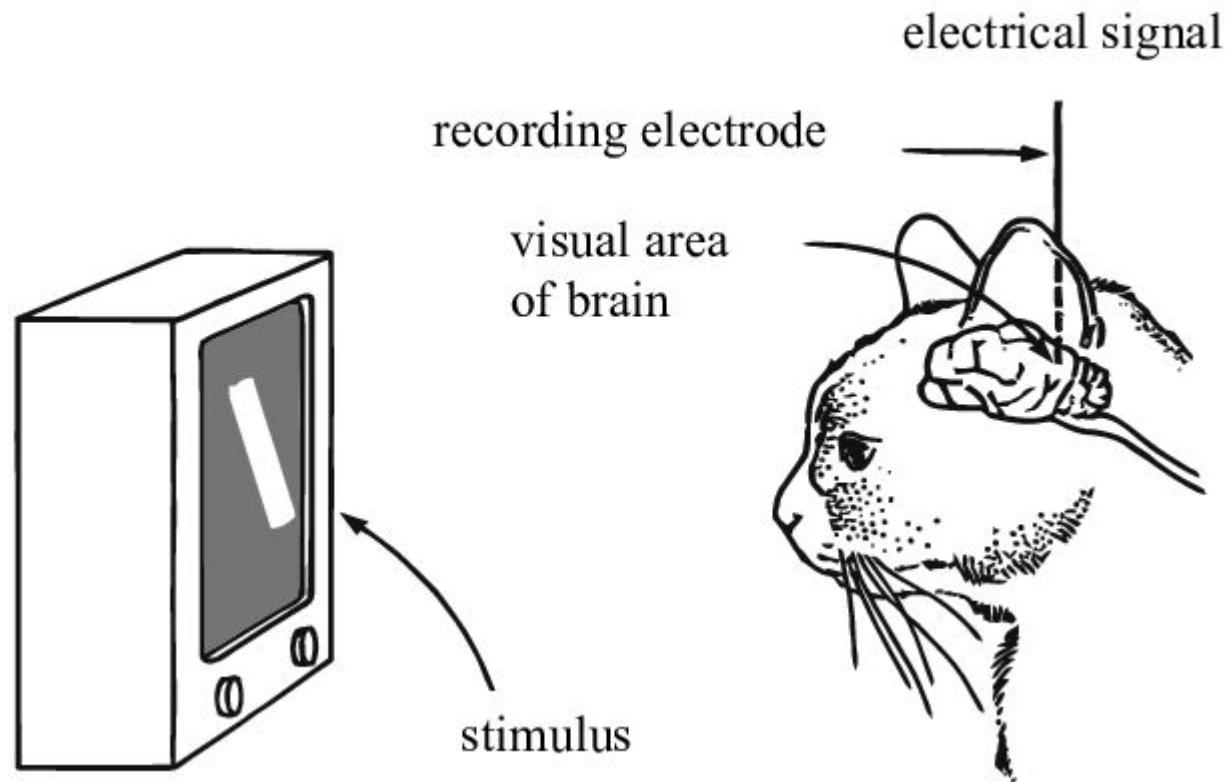


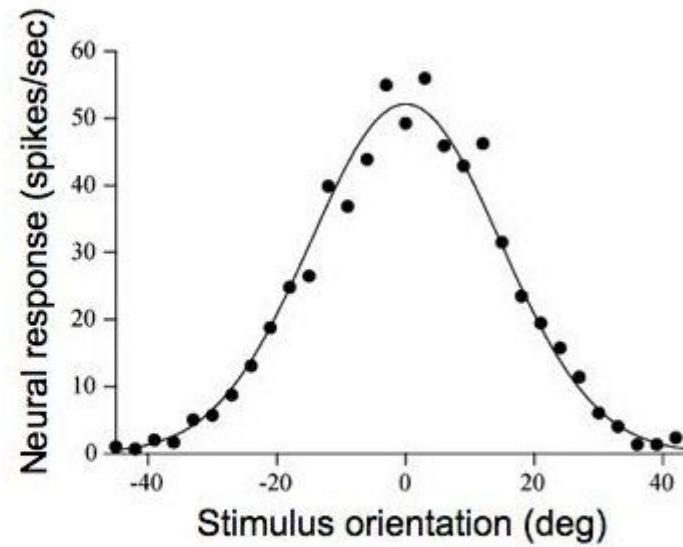
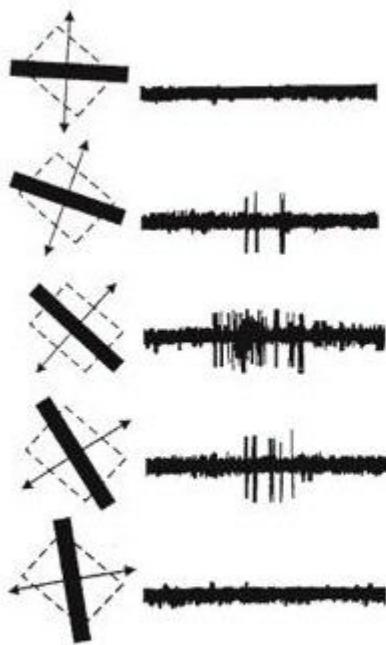
# Convolutional Neural Networks

Andrew H. Fagg

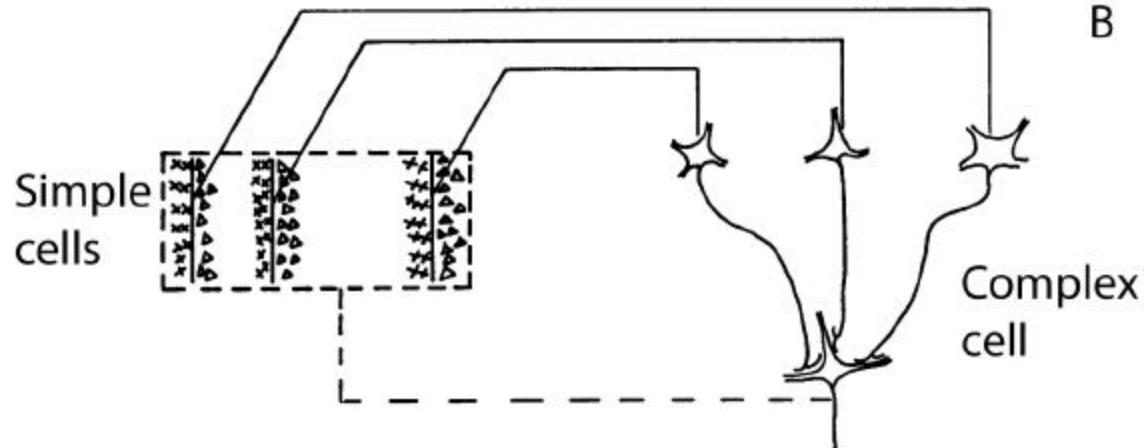
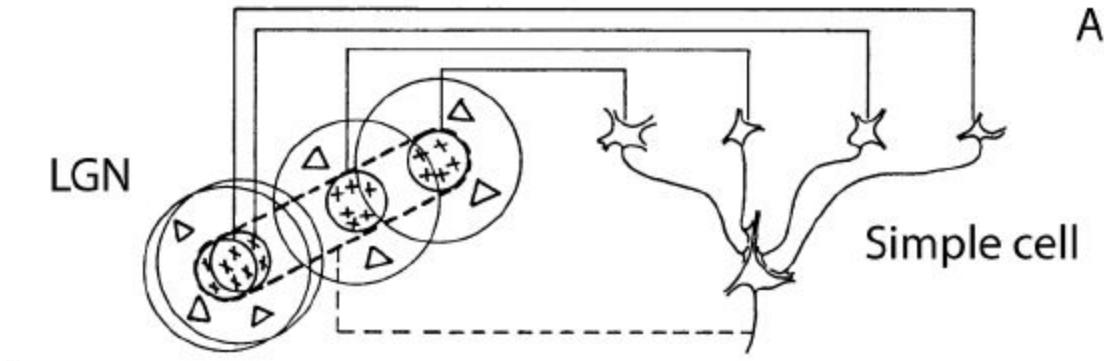
# Hubel and Wiesel (1968)

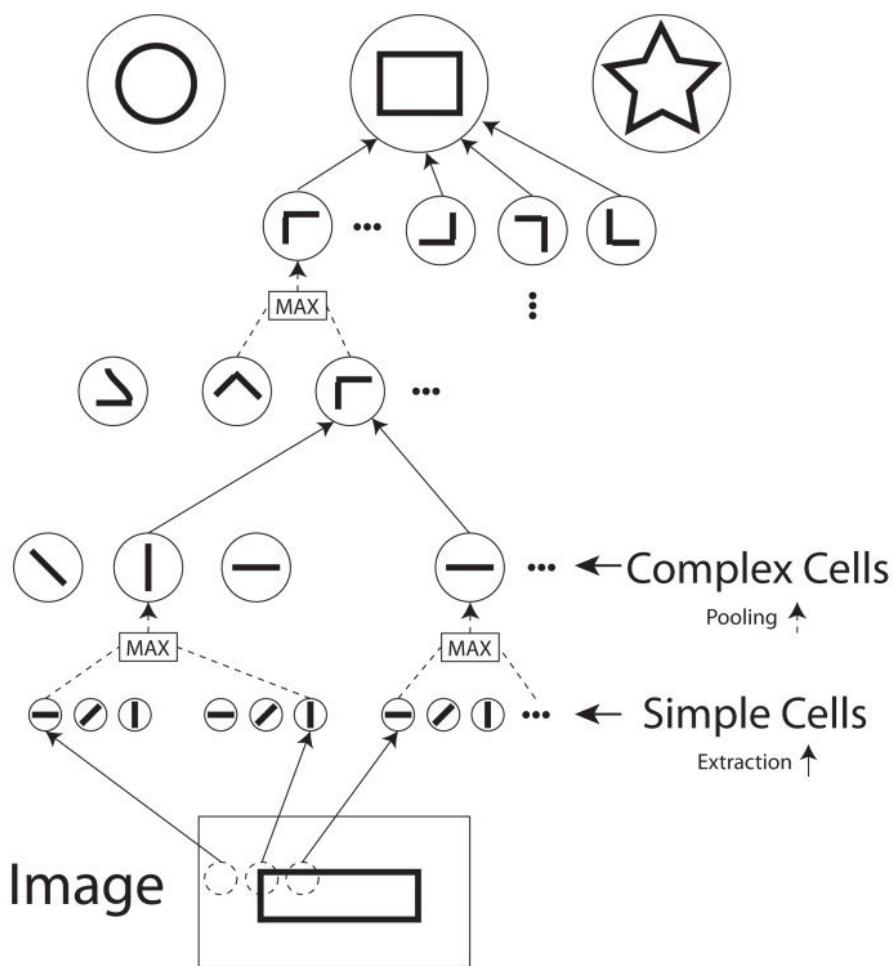


# Orientation Sensitivity



# Complex Features Formed from Simple Ones





# Representation Across the Cortex

- Neighboring neurons tend to be responsive to similarly oriented edges
- Both eyes project to visual cortex
  - At these early stages: information from both eyes is not integrated
- Not shown: different parts of the retina are also covered

