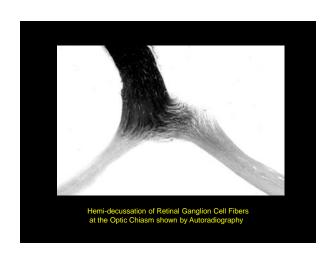
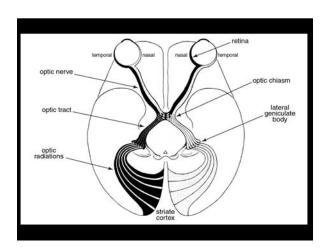
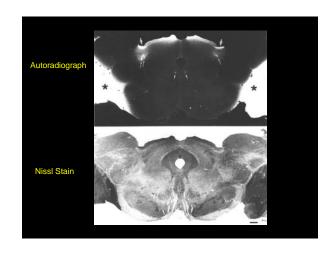
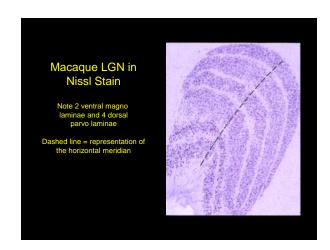
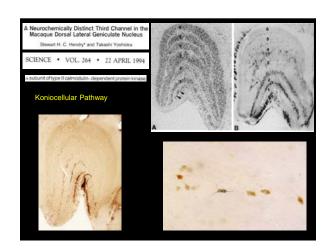
## Neuroscience 201C: Vision Two Recognizing an Object Jonathan C. Horton hortonj@vision.ucsf.edu 21 February 2016

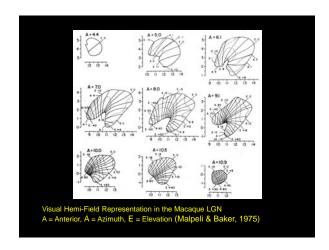




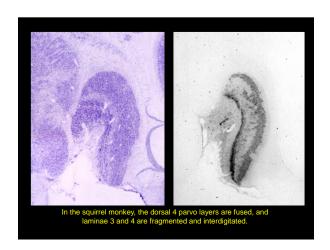


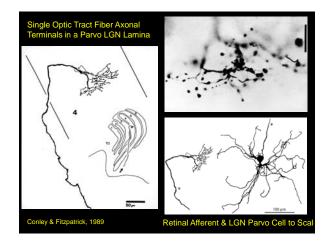


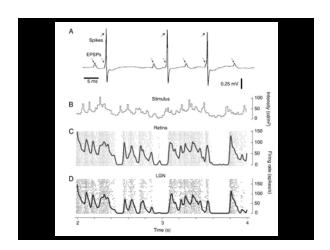


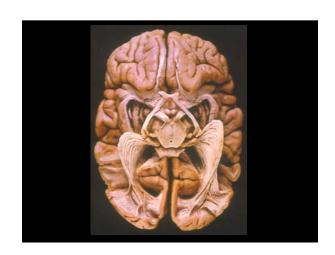






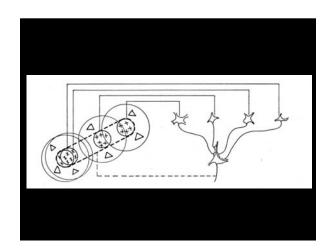






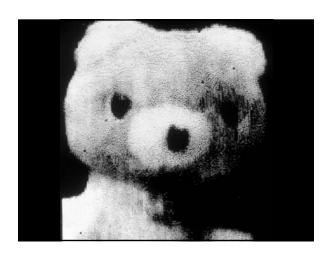






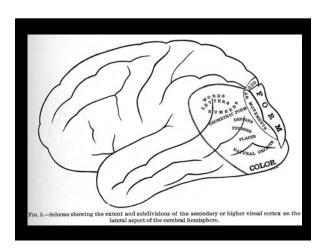


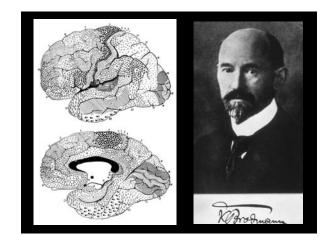
## The contribution of spike threshold to the dichotomy of cortical simple and complex cells Nicholas J Priebe<sup>1</sup>, Ferenc Mechler<sup>2</sup>, Matteo Carandini<sup>3</sup> & David Ferster<sup>4</sup> C O O O O O NATURE NEUROSCIENCE VOLUME 7 | NUMBER 10 | OCTOBER 2004



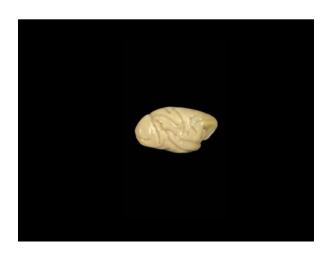


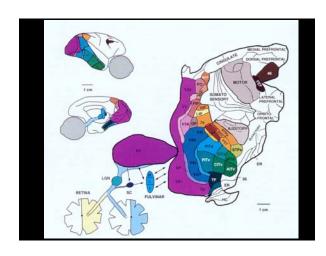


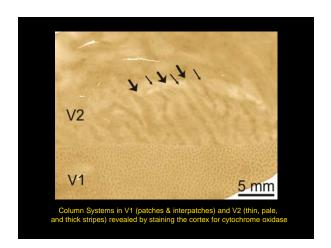


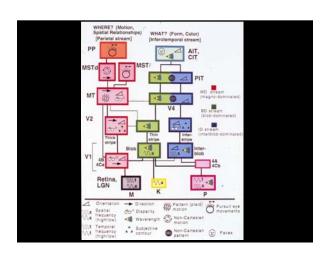


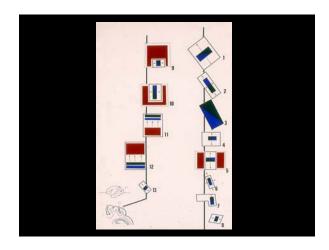




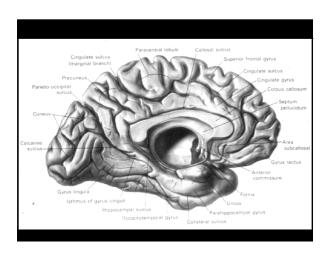


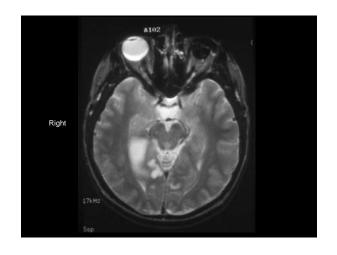




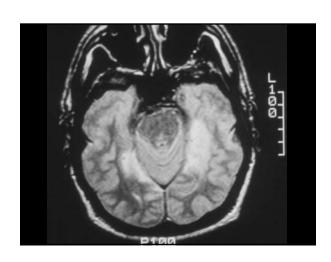


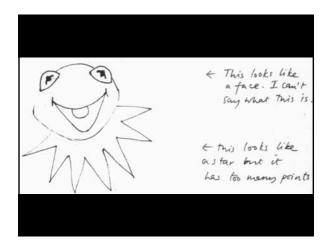






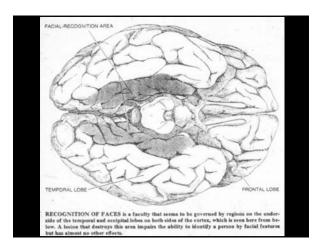


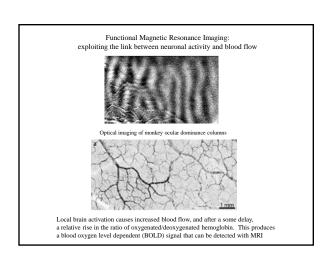


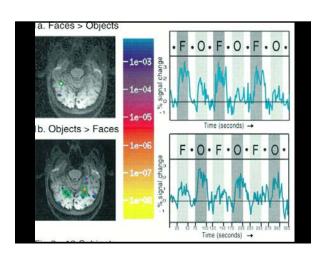


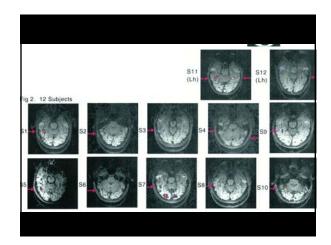


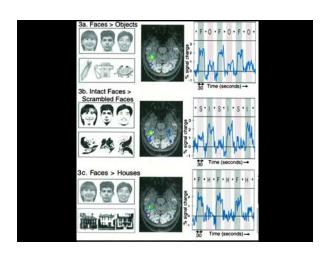


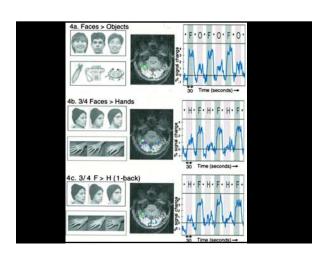


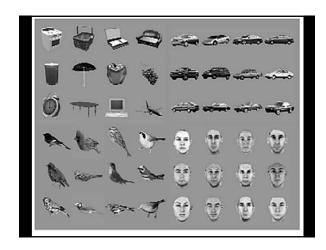


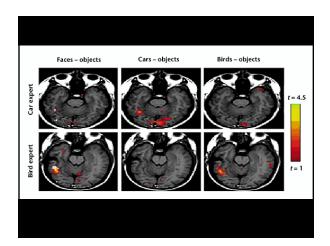




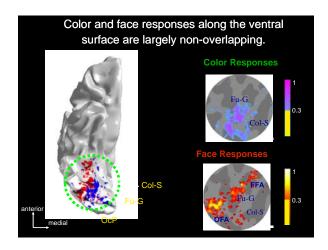


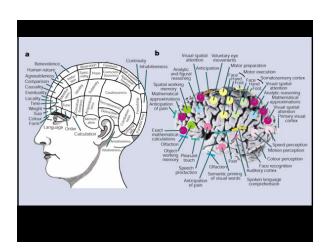


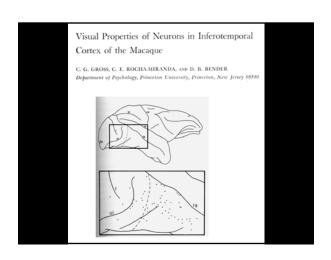


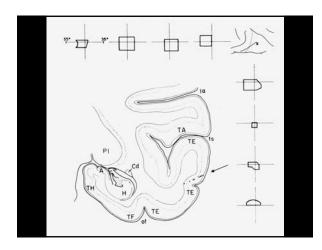


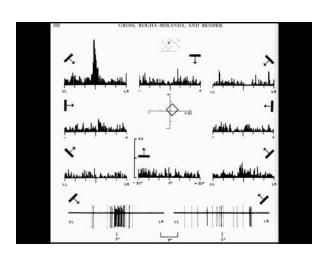












dark stimuli (by picking up objects at hand or making paper cutoust) did yield some interesting observations. The most common dark stimuli used were a variety of rectangles or slits with widths of .25–50° and lengths of 1–70°, and the shadow of a human or monkey hand. The use of the later stimuli was begun one day when, having failed to drive a unit with any light stimulis, we waved a hand at the stimulus screen and elicited a very vigorous response from the previously unresponsive neuron. We then spent the next 12 hr resting various paper cutouts in an attempt to find the trigger feature for this unit. When the entire set of stimuli used were ranked according to discuss the propose that the propose of the control of the control of the physical dimension that correlated with this rank order. However, the rank order of adequate stimuli did correlate with simi-

larity (for us) to the shadow of a monkey hand. The relative adequacy of a few of these atimuli is shown in Fig. 6. Curiously, fingers pointing downward elicited very little response as compared to fingers pointing upward or laterally, the usual orientations in which the animal would see its own hand.



ric. 6. Eximples of shapes used to stimulate a group TE unit apparently having very complex in ger features. The stimuli are arranged from left to right in order of increasing ability to drive the se ron from none (1) or little (2 and 5) to maximum (6).

