Functional specialization of areas along the anterior-posterior axis of the primate prefrontal cortex

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Supplementary Material
Supplementary Figure 1: Electrode penetration maps for each individual monkey. Black lines represent the arcuate and principal sulcus. Points represent electrode tracks, from which more than one neuron may have been recorded. Dashed gray lines represent the boundaries for each region.

Supplementary Figure 2: Rasters and Peri-Stimulus-Time-Histograms (PSTHs) from three neurons, recorded in the three dorsal regions of monkey EL, tested with stimuli of the spatial set. Histograms are arranged so as to indicate the location of the stimulus on the grid (left to the fixation point, upper left, etc.). A: A sample neuron from the posterior-dorsal region. B: A sample neuron from the mid-dorsal region. C: A sample neuron from the anterior-dorsal region.

Supplementary Figure 3: Rasters and PSTHs from two neurons recorded from the ventral prefrontal regions, tested with the shape stimuli (indicated to the right of the PSTH). A: A sample neuron from monkey ADR in the posterior-ventral region. B: A sample neuron from monkey MAN in the anterior-ventral region.

Supplementary Figure 4: Rasters and PSTHs from example neurons in all regions during the stimulus presentation period, illustrating differences in latencies between regions. A: Three sample neurons from the dorsal regions. B: Two sample neurons from the ventral regions. Each response was to the neuron’s most preferred stimulus, pooled across all stimulus set the neuron was tested with.
**Supplementary Table:** Number of neurons in each cortical region, of each monkey. Consecutive rows report total number of neurons; neurons with significant responses to any of the stimuli (responsive); responsive neurons tested with the spatial set; tested neurons that are significantly selective for spatial location (1-way ANOVA, p<0.05); responsive neurons tested with the shape test; tested neurons selective for shape (1-way ANOVA, p<0.05); responsive neurons tested with the color test; and tested neurons selective for color (1-way ANOVA, p<0.05).
SUPPLEMENTAL FIGURE 2

A

Spatial Location

Discharge Rate (spikes/s)

Time (s)

B

Spatial Location

Discharge Rate (spikes/s)

Time (s)

C

Spatial Location

Discharge Rate (spikes/s)

Time (s)
SUPPLEMENTAL FIGURE 3
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<th>Monkey</th>
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<th>EL</th>
<th>SC</th>
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<th>NI</th>
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<td>MD</td>
<td>AD</td>
<td>PV</td>
<td>AV</td>
<td>PD</td>
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**Area Legend:**

PD: Posterior Dorsal
MD: Mid-Dorsal
AD: Anterior Dorsal
PV: Posterior Ventral
AV: Anterior Ventral