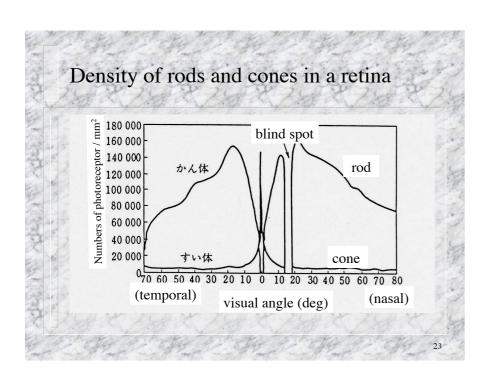


Human visual information processing Eye balls: Camera Retina: High intelligent input device High sensitive sensor (rods and cones) Luminance channel and chromatic channel (horizontal cells) Contrast (ganglion cells) LGN: M-path (where),P-path (what) Shape, motion, color, detail Visual cortex



Retina of a living human eye (1) (David Williams, in Optics & Photonics News, vol.9, no.1, 1998) Figure 8. The retina of a living human eye taken after adaptive optical correction of the eye's optical system. The image, taken with 550 nm light, is a registered sum of 61 images size is 0.5 x 0.5 degrees (146 x 146 µm). The bright spots in the image are cone photoreceptors, each on the order of 5 µm. The darker vertical band down the center of the image is a shadow of a capillary that when focused on, is about 5 µm in diameter. The retinal location of the Image is about 1º from the central fovea. The only filtering used was histogram equalization to enhance contrast.

