











- Edges of retina peripheral vision

  - short-wavelength light (blue)
- · On the fovea 2mm diameter clear vision
- X-cells on fovea, early detection of patterns
- · Y cells distributed, early detection of movement

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## HUMAN-COMPUTE Interpreting the signal · Size and depth visual angle indicates how much of view object occupies (relates to size and distance from eye) - visual acuity is ability to perceive detail (limited)

- familiar objects perceived as constant size (in spite of changes in visual angle when far away)
- cues like overlapping help perception of size and depth































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## Psychology and the Design of Interactive System

- Some direct applications

   e.g. blue acuity is poor
   ⇒ blue should not be used for important detail
- However, correct application generally requires understanding of context in psychology, and an understanding of particular experimental conditions
- A lot of knowledge has been distilled in

   guidelines (chap 7)
   cognitive models (chap 12)
   experimental and analytic evaluation techniques (chap 9)

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