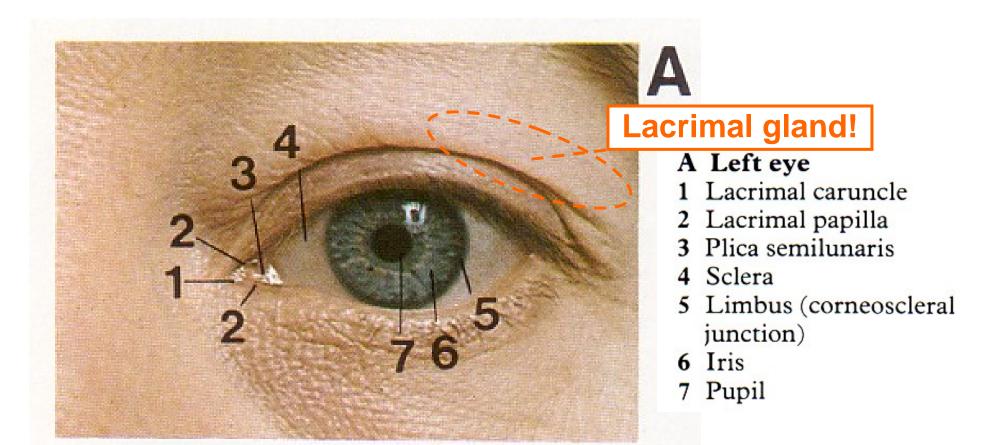


BI 358 Discussion 11: Vision Lab w/Eye Dissections

- I. <u>Announcements</u> Final papers due next Tuesday, March 17th, in Pat's box, 77 Klamath < 5 pm. Q?</p>
- II. Anatomy & Physiology of the Eye
 LN Dierks & RE Hammond, Carolina Biological 1980
 CC Francis & AH Martin 1975
 RMH McMinn & RT Hutchings 1977
 DA Morton, KD Peterson & KH Albertine 2007
 LS Sherwood 2006
- III. Lab Tests + Eye Dissections

Eye L Surface Anatomy



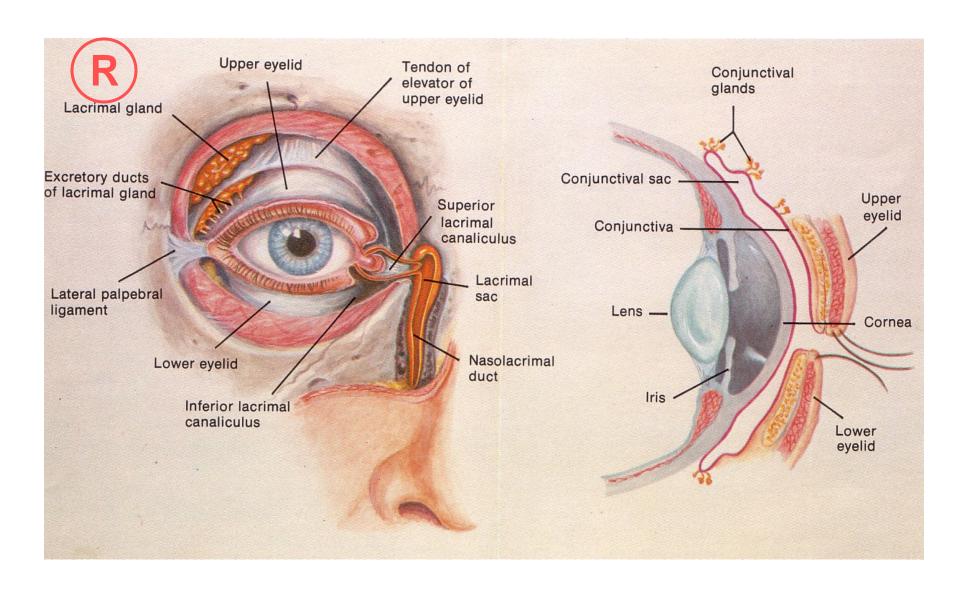
Caruncle = L. wart

Papilla = L. nipple

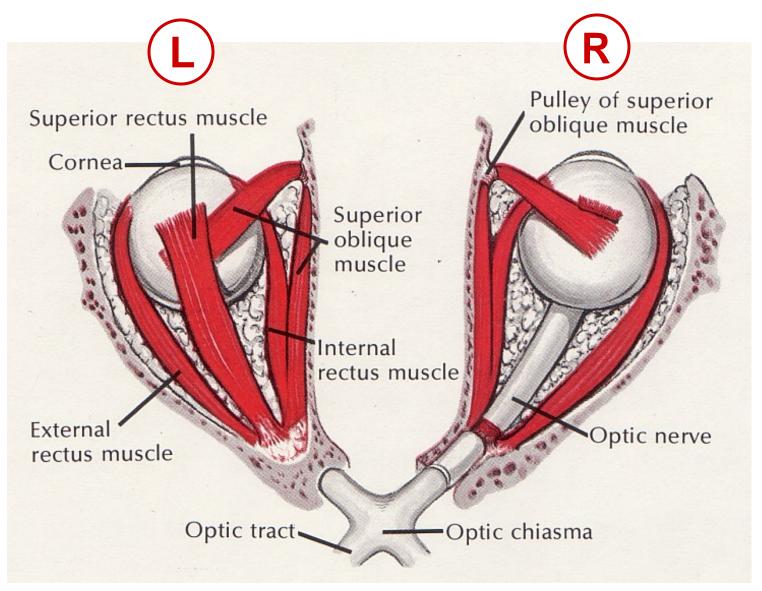
Sclera = L. hard/white

Limbus = L. margin/border

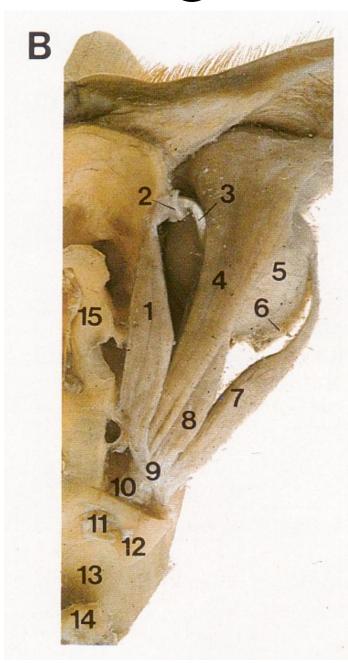
Eye Drops Out Nose? Why?



Eye Muscles Superior View

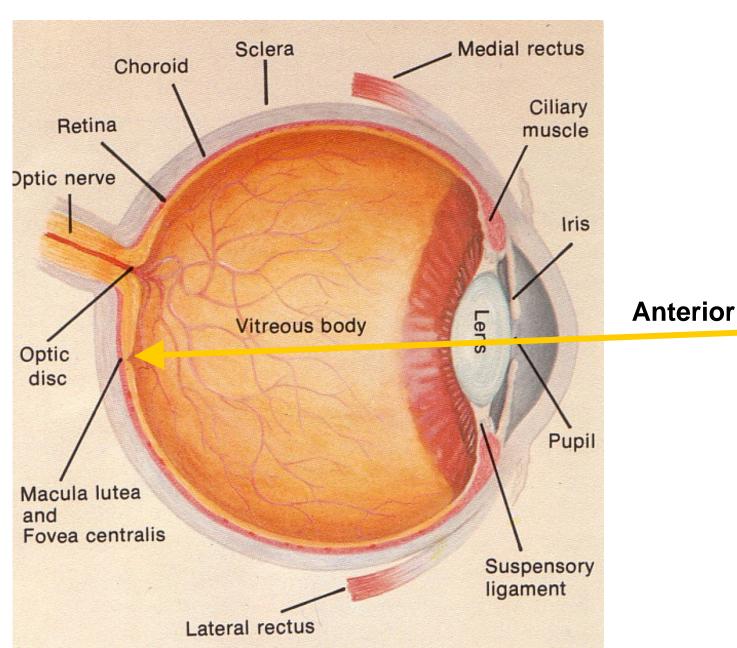


Eye (R) Superior View Dissection



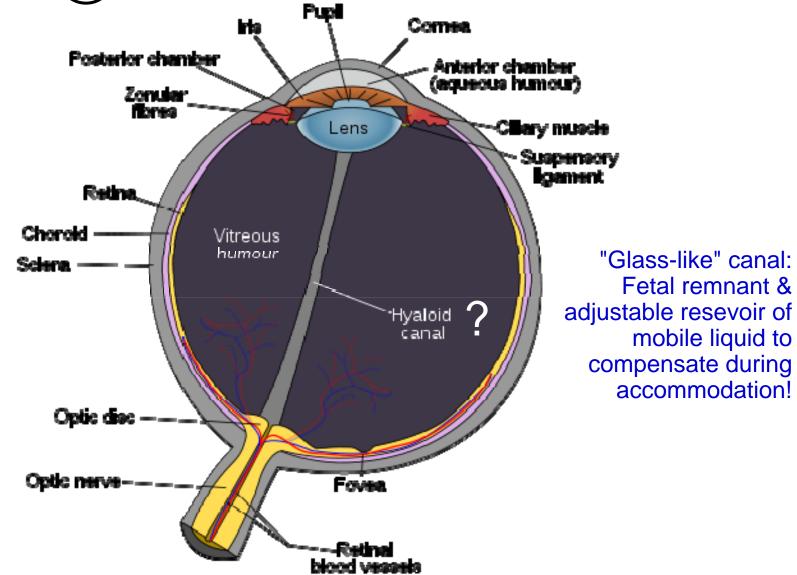
- 1 Superior oblique Gr. pulley!
- 2 Trochlea
- 3 Tendon of superior oblique
- 4 Levator palpebrae superioris
- 5 Eyeball
- 6 Inferior oblique
- 7 Lateral rectus
- 8 Superior rectus
- 9 Tendinous ring
- 10 Optic nerve
- 11 Optic canal
- 12 Anterior clinoid process
- 13 Sella turcica (pituitary fossa)
- 14 Posterior clinoid process
- 15 Ethmoidal air cells
- 16 Inferior rectus

Eye R Superior View

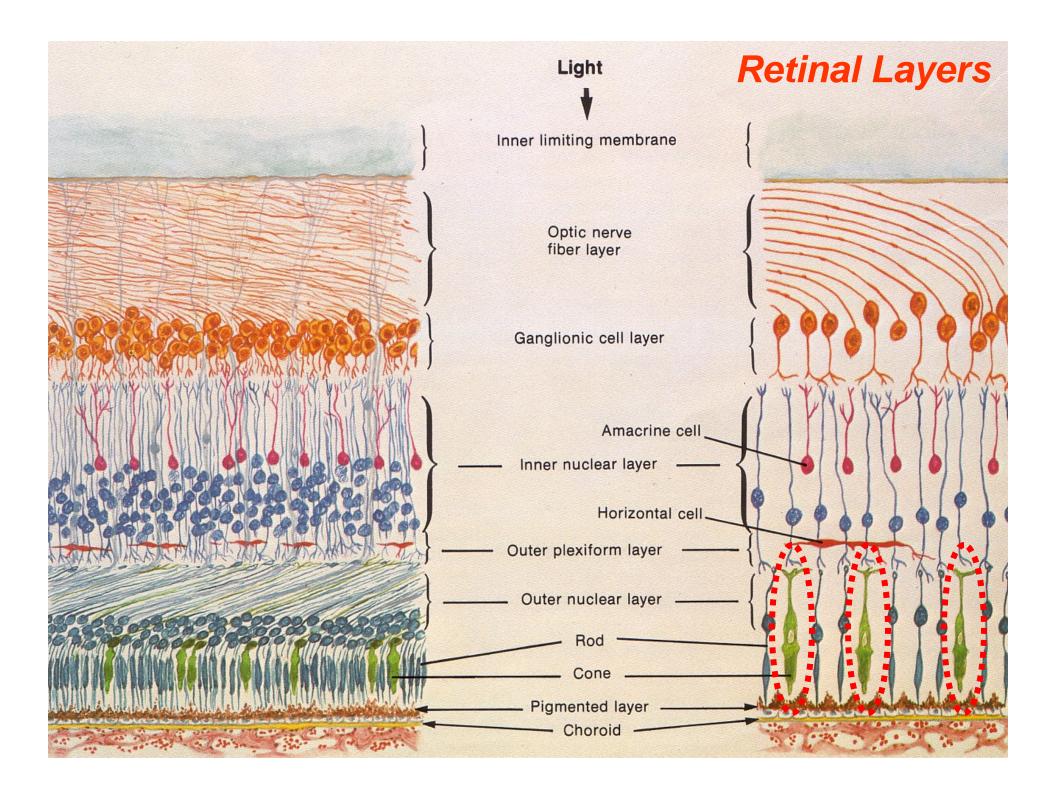


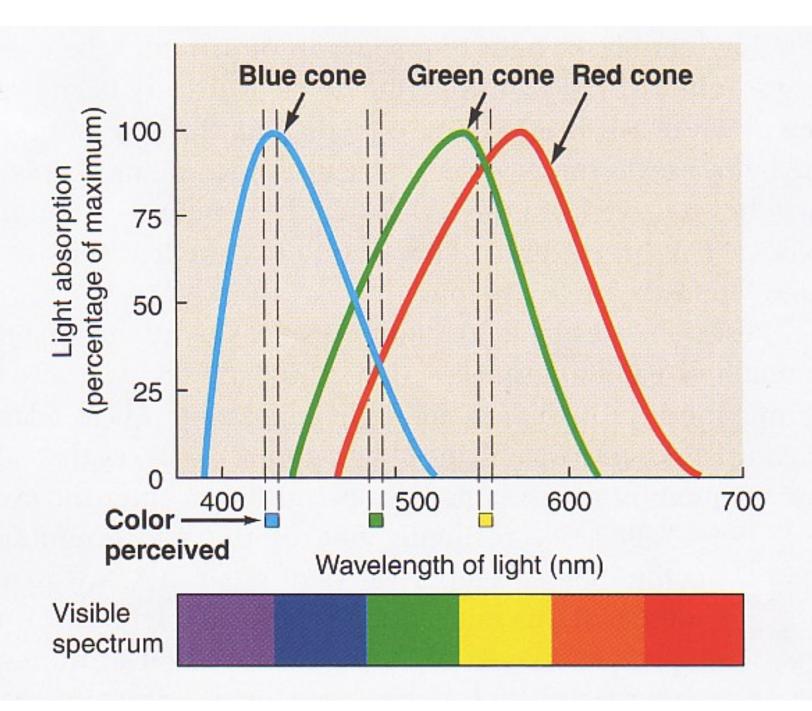
Posterior

Eye (R) Superior View Horizontal Dissection

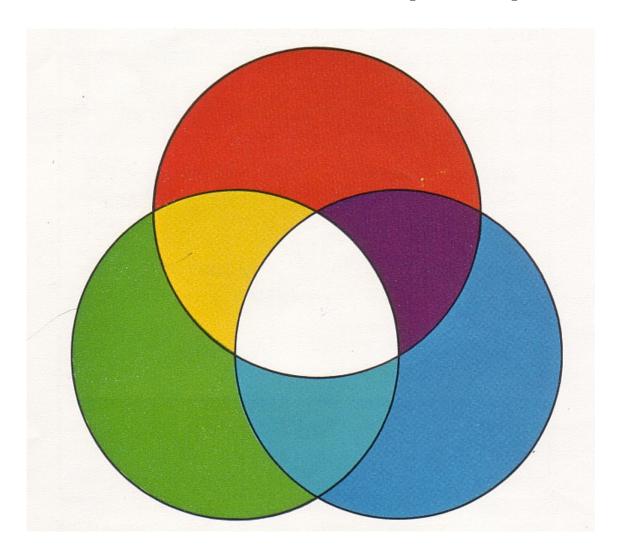


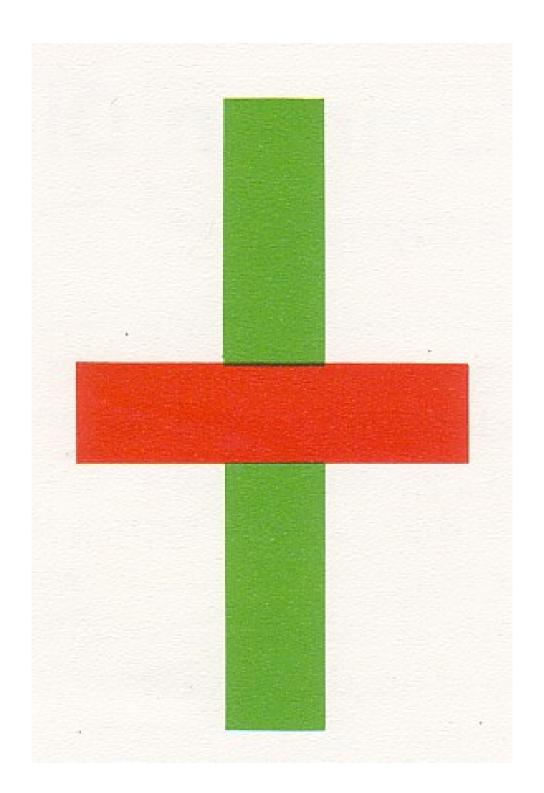
TPA Stuart, Journal of Physiology, Mar 29,1904! http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1465472/?tool=pmcentrez





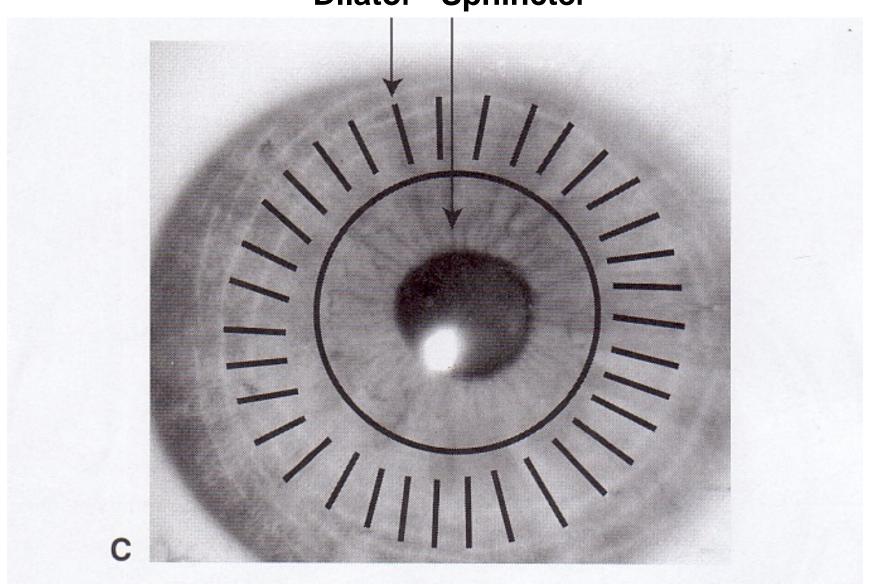
Intermediate Colors Are Produced When 1º Colors Are Superimposed



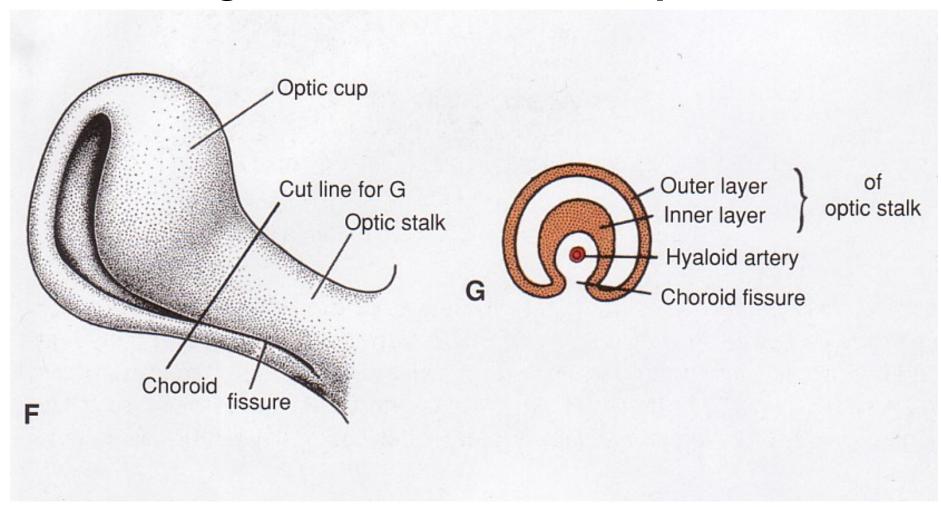


Smooth Muscles of the Iris

Dilator Sphincter

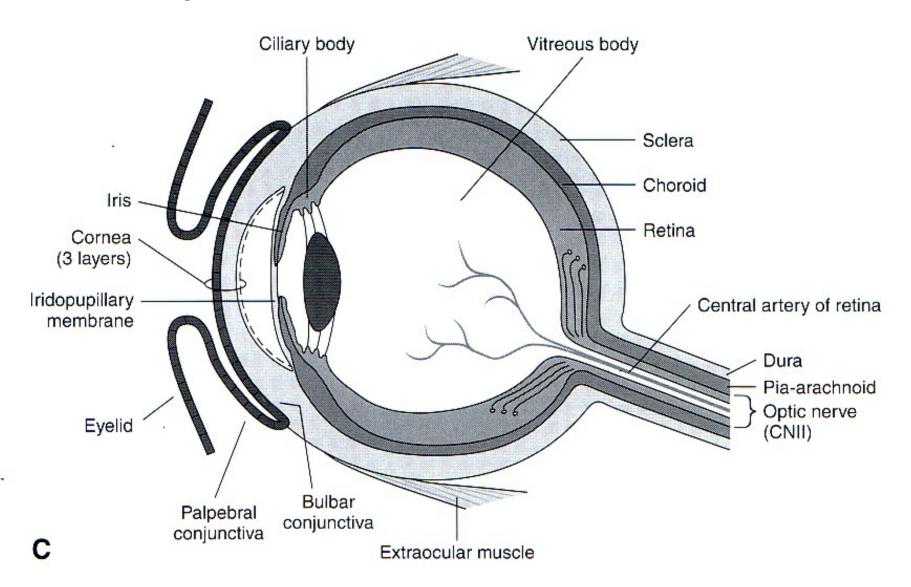


The Optic Cup & Optic Stalk are Evaginations of the Diencephalon

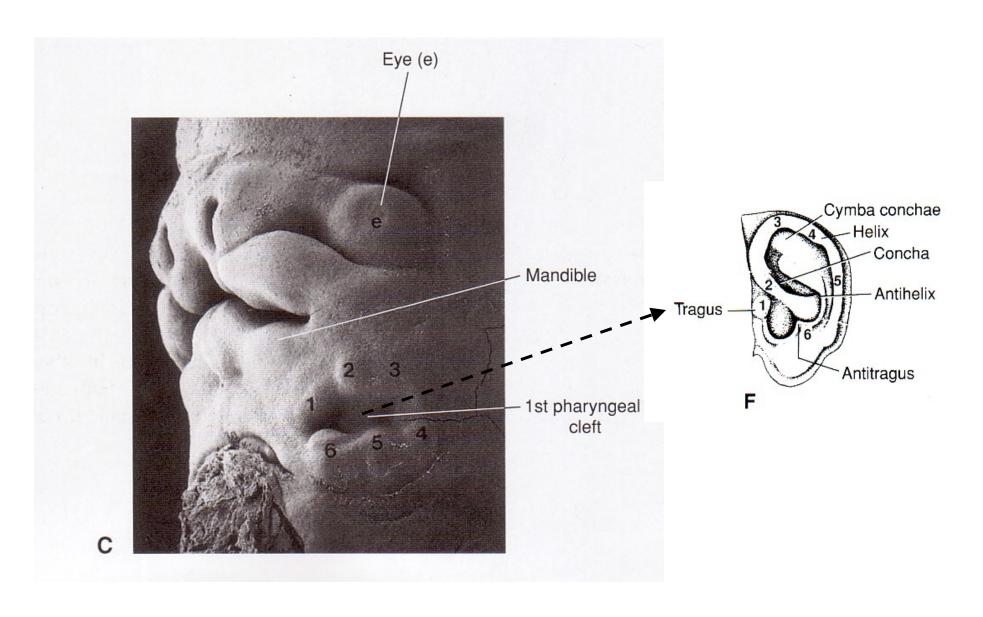


"The Eye Backs Out of the Brain"

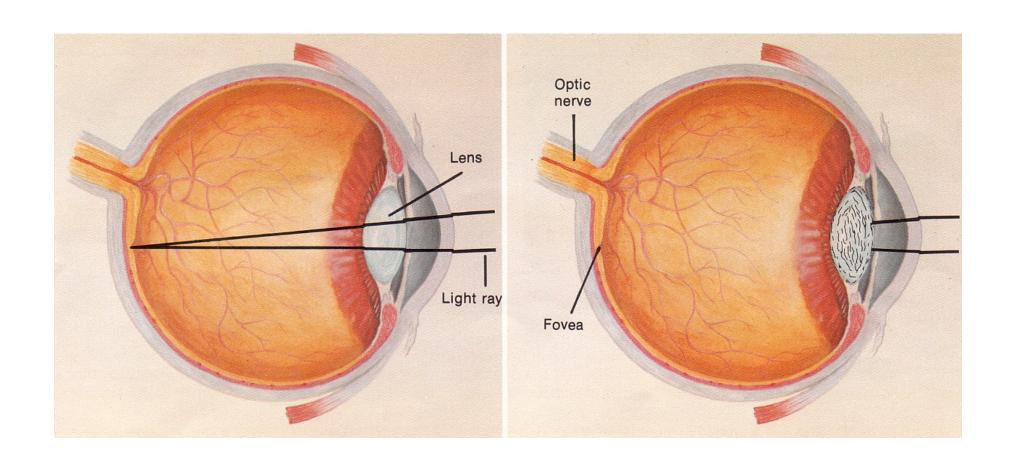
Conjunctiva folds back on itself!



Eye & External Ear Formation



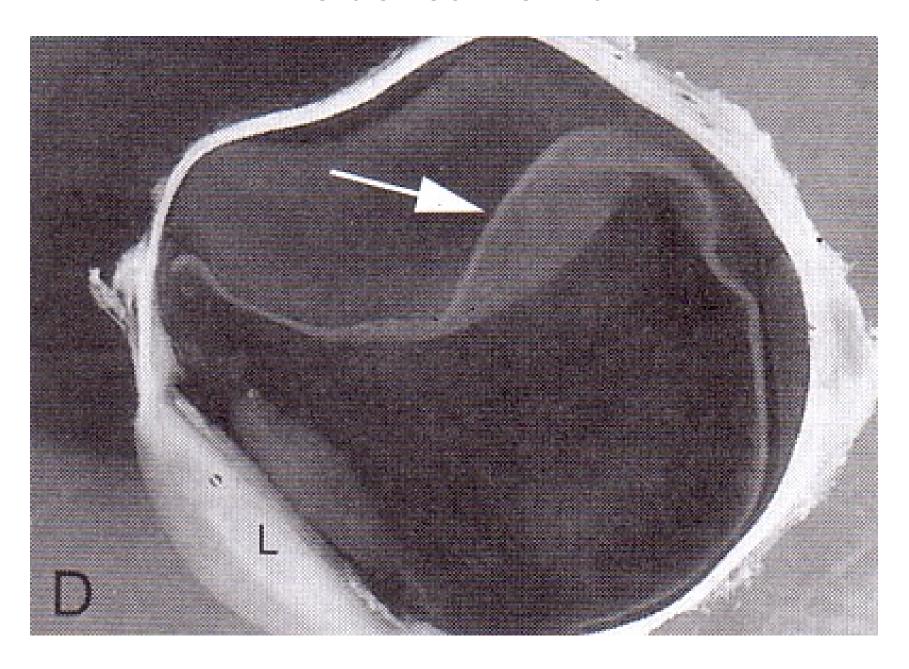
Normal vs. Cataract Lens



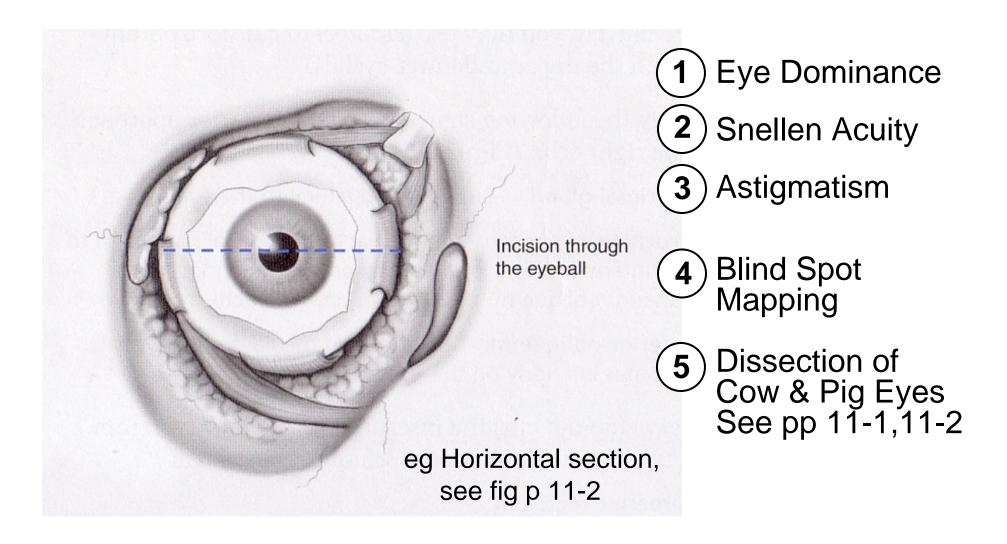
Cataracts in Child



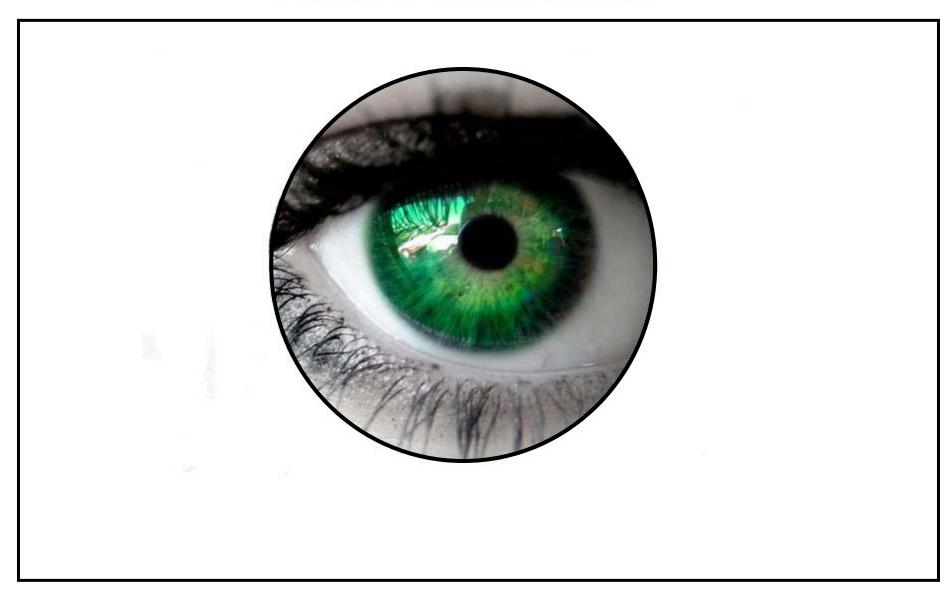
Detached Retina



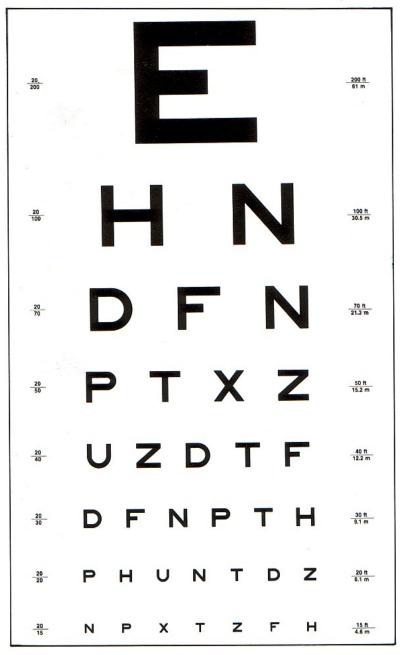
Lab Eye Tests + Dissection Overview



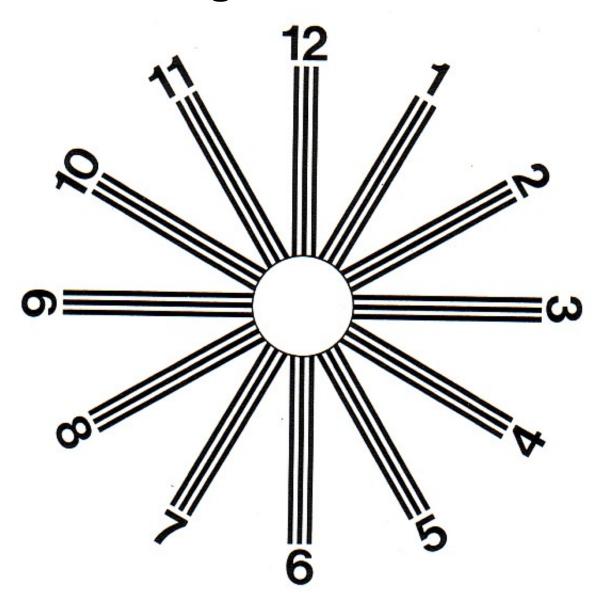
Eye Dominance?



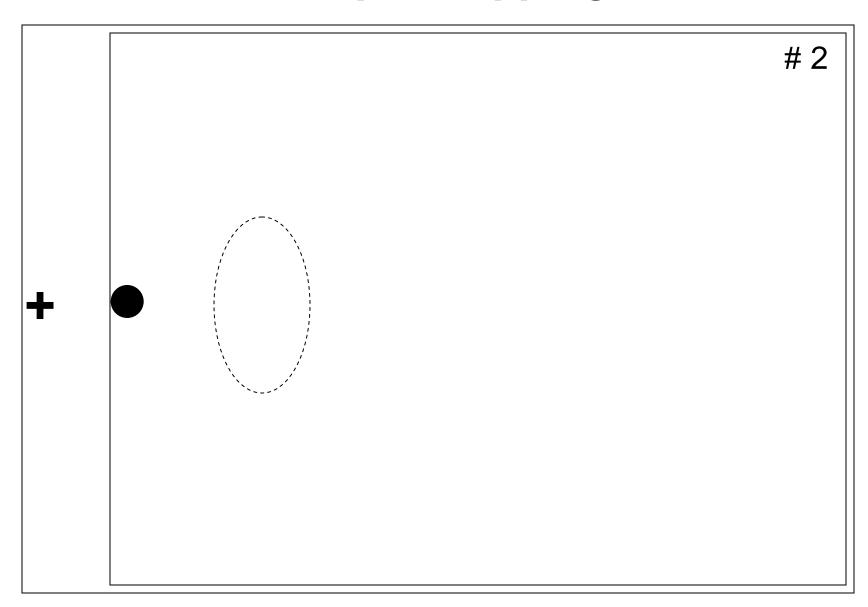
Snellen Visual Acuity Test



Astigmatism Test



Blind Spot Mapping?



Jennifer Finley's Eye Dissection!

