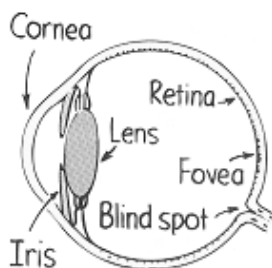
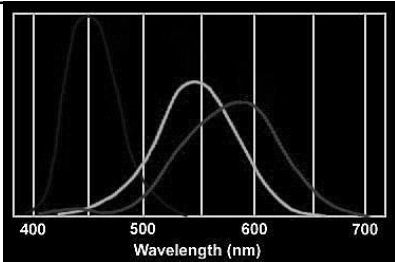


Color & Vision

Parts of the Eye





- 3 types of cones in retina
- Each responds more strongly to wavelength for which it is named
- As the cones are stimulated in different proportions, our visual system constructs the colors we see.

Color Links

- [Color Mixing - Truscio](#)
- [Color Tutorial - Jewitt](#)
- [Physics Classroom - Color](#)
- [Colors of Light Song](#)
- [Physics 2000](#)
- [Color Java Applets](#)
- [Ishihara Test for Color Blindness](#)

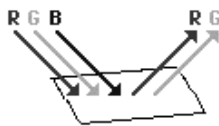
Primary Light Colors and Color Addition



Complementary Colors

Color Subtraction

Color Subtraction



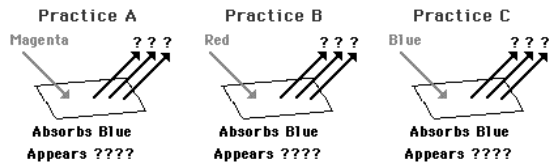
Absorbs Blue
Appears Yellow

Color Subtraction



Absorbs Blue
Appears Green

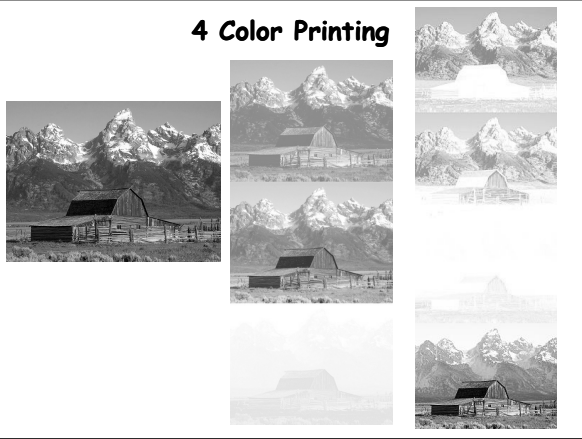
Color Subtraction Practice



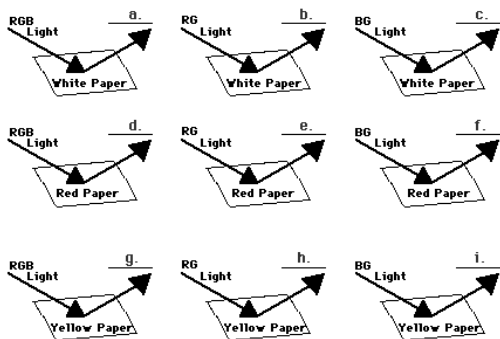
Magenta light shines on a sheet of paper containing a yellow pigment. Determine the appearance of the paper.

Yellow light shines on a sheet of paper containing a blue pigment. Determine the appearance of the paper.

4 Color Printing



Pigments

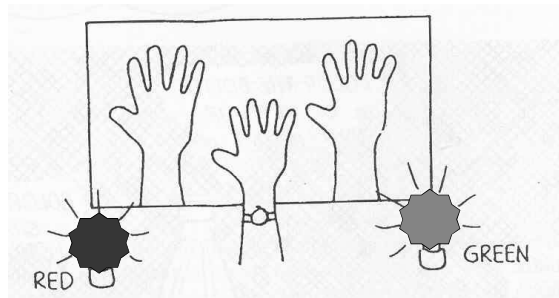


Mixing Pigments

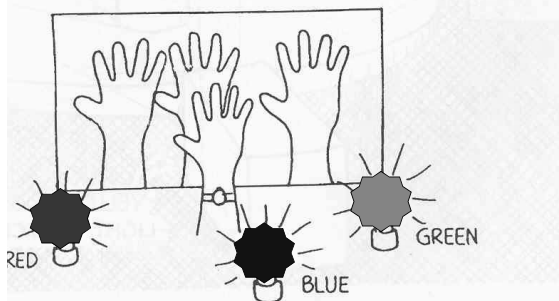
Suppose an object is permeated by a mixture of two or more pigments and illuminated with white light. Complete the table.

Pigment One	Pigment Two	Colors Reflected	Color Observed
Cyan	Magenta		
Magenta	Yellow		
Cyan	Yellow		
Cyan, Magenta	Yellow		

Color Shadows - 2 Lights

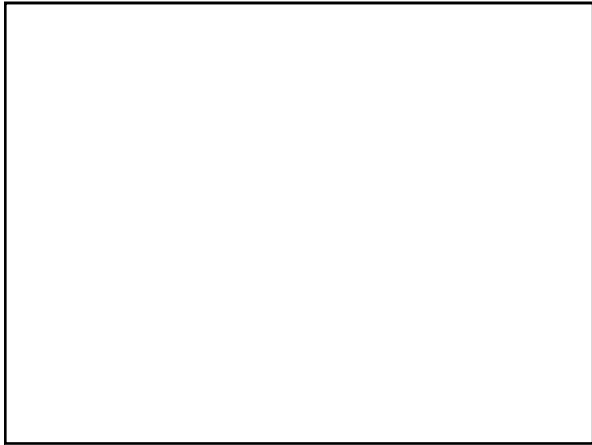


Color Shadows - 3 Lights

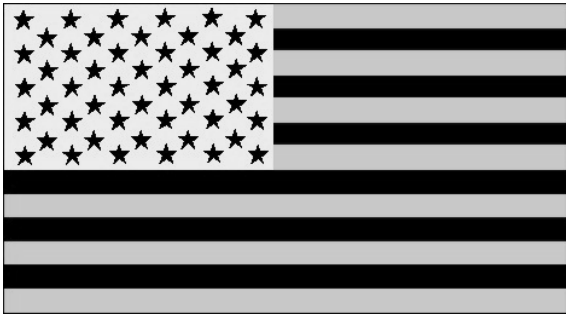


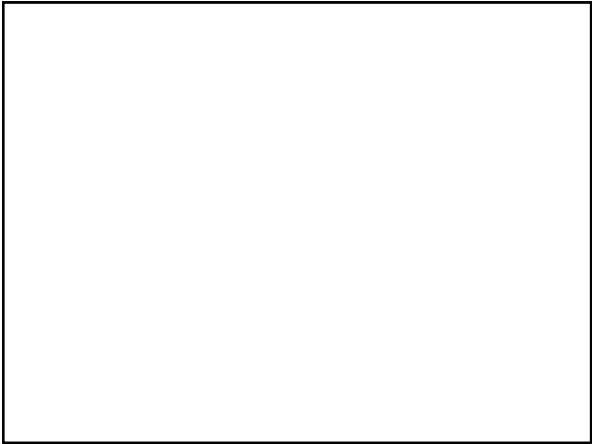
Retinal Fatigue

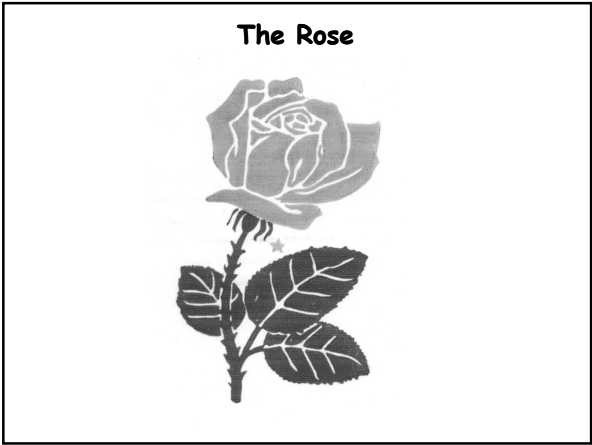


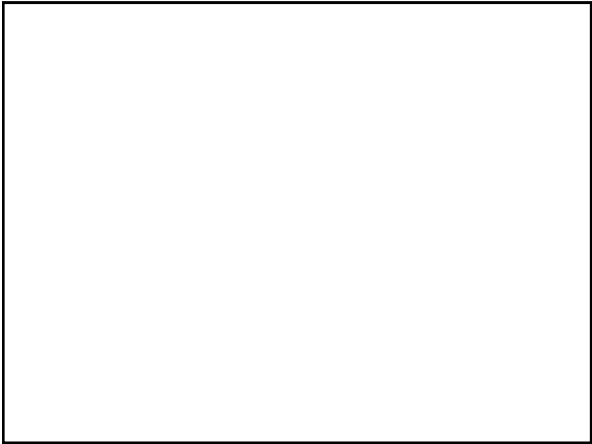


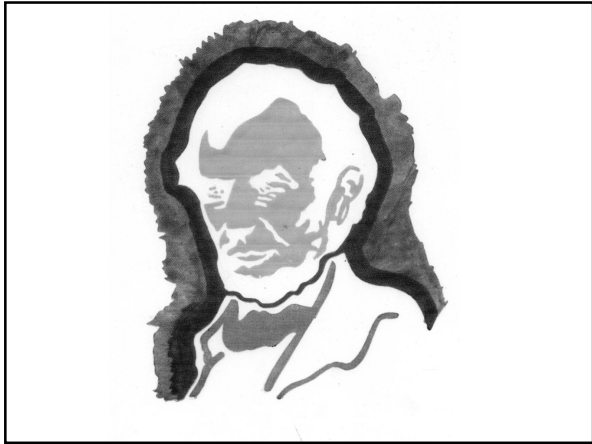
Flag

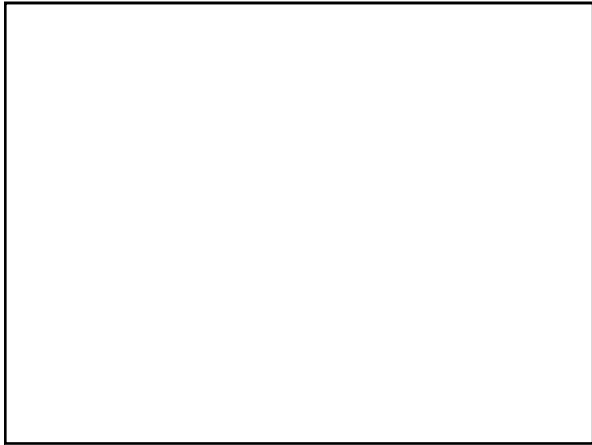




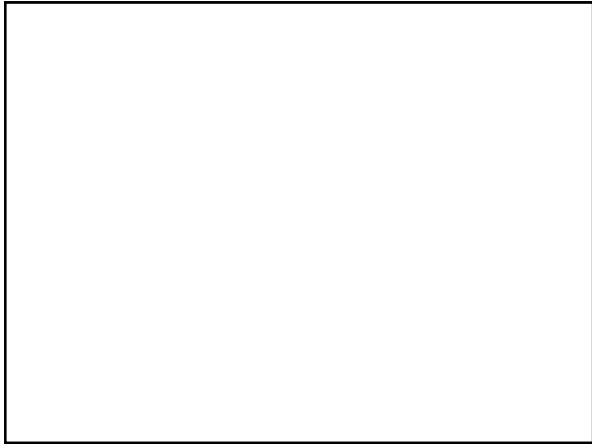











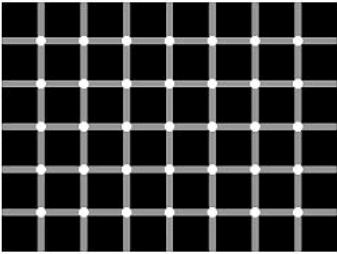


Black dot

Keep staring at the black dot. After a while the gray haze around it will appear to shrink.

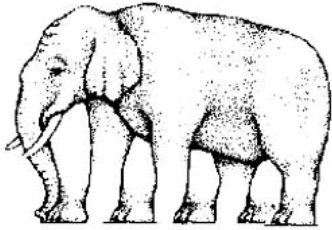


Black Dots



Count the black dots! :o)

Elephant Legs



How many legs does this elephant have?

Man & Woman



*Man Playing Horn... Or Woman
Silhouette?
(hint: woman's right
eye is the black speck in front
of horn handle)*

Old Woman ... Young Girl



*Old Woman...Or Young Girl?
hint: The old woman's nose is the
young girl's
chin.*

Vanity



*Woman In Vanity... Or Skull?
hint: move farther a bit from the screen and
blink to see the skull or the woman (looking at
the mirror)*

Two Faces ... Or One?



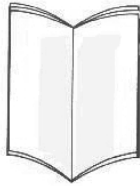
*Two Faces... Or One?
(hint: two faces side
profile…or one face
front view)*

Face or Aleut



*A Face Of A Native
American... Or An Eskimo?*

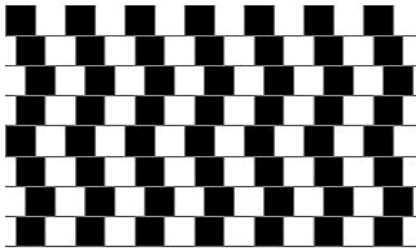
Book



Is The Book Looking Towards You... Or Away From You?

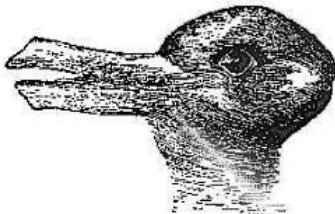
Now here's a deal send this to atleast six people and a really cool optical illusion will pop up in ur screen in the next 2 minutes "Im telling you it is worth it"

Lines

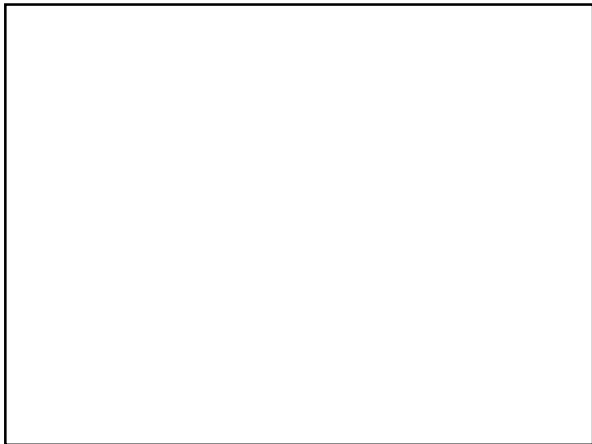


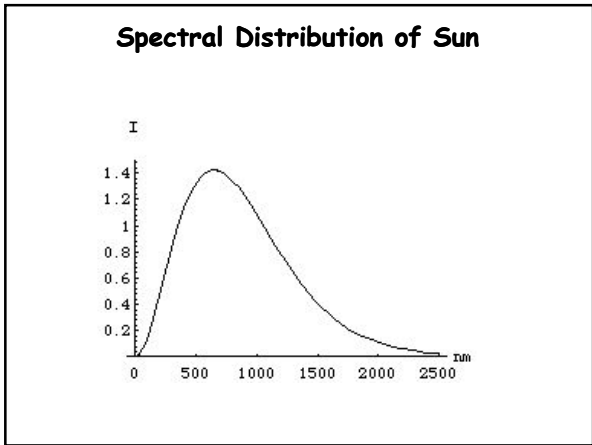
Are the horizontal lines parallel or do they slope?

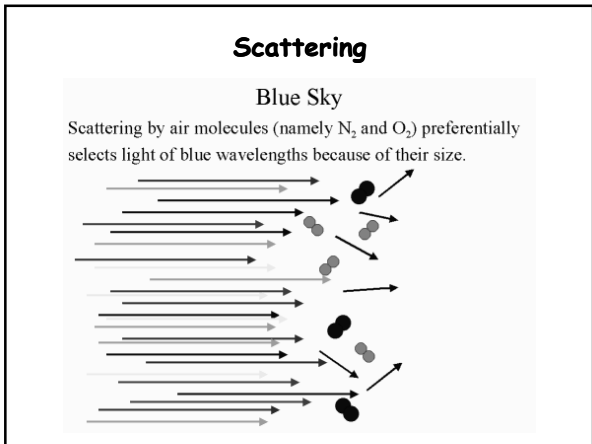
Rabbit Duck

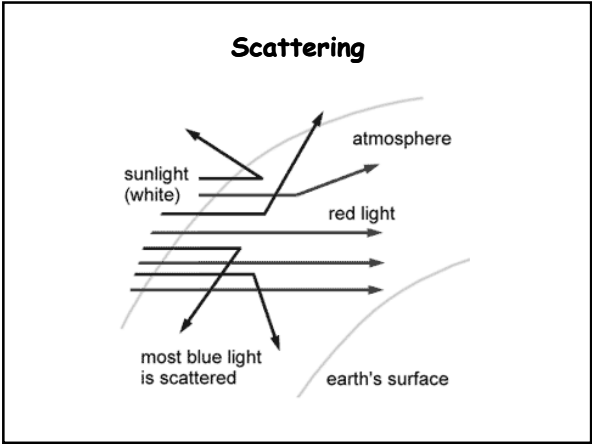


A Rabbit... Or A Duck?
hint: the duck is looking left, the rabbit is looking right









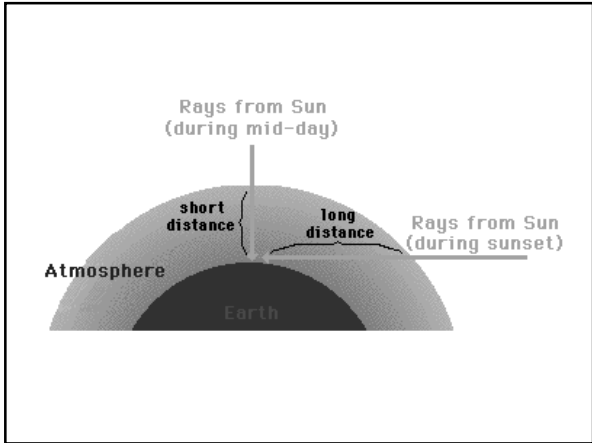
Why is the Sky Blue

- Blue Sky - Red Sunset

The yellow appearance of the noon-day sun is due to the scattering of the higher frequencies of sunlight.

- http://www.stillmoving.ca/physics/faq/General/BlueSky/blue_sky.html





Assorted Links

- [Link Showing Absorption Graph](#)
- [Smithsonian Link](#)
