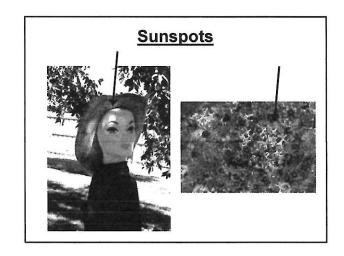
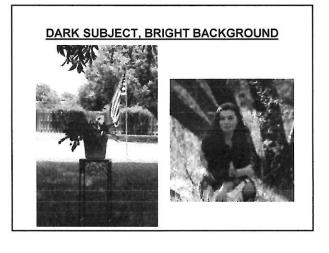


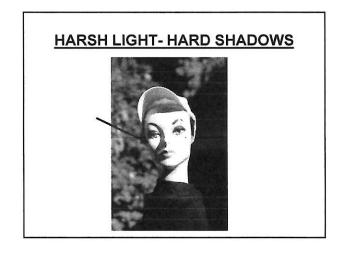


OUTDOOR LIGHTING

- 1. PROBLEMS WITH USING SUNLIGHT
- 2. SOLUTIONS
- 3. TOOLS & TECHNIQUES











SUN ANGLE WRONG



COLOR OF THE LIGHT



DARK AREAS OF IMAGE



SQUINTING







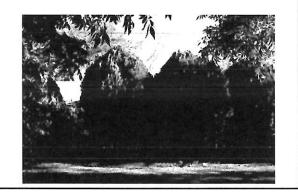
UNWANTED REFLECTIONS



GOBO

- · Goes between the light and the subject.
- · Opaque- blocks all light
 - -Solid Reflector
 - -Cardboard
 - -Fabric
 - -Body
 - -Tree

TOO MUCH RANGE OF CONTRAST



Diffuser

- · Goes between the light and subject
- · Translucent material- lets some light through
 - Anything that lets some light through
 - · Thin fabric
 - · Paper
 - · Sheets of white foam

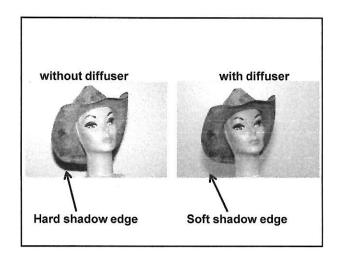
TOOLS TO SOLVE LIGHT PROBLEMS

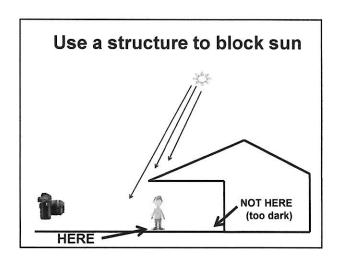
- REFLECTOR
- DIFFUSER
- · GOBO
- FLASH
- LENS HOOD
- POLARIZING FILTER
- MIRROR
- NATURAL OBJECTS

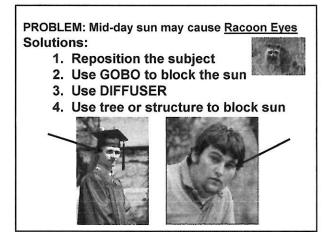
DIFFUSION CHANGES SHADOW EDGES

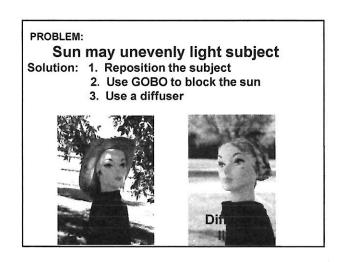


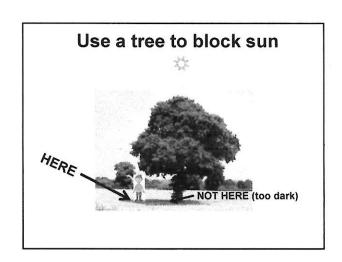


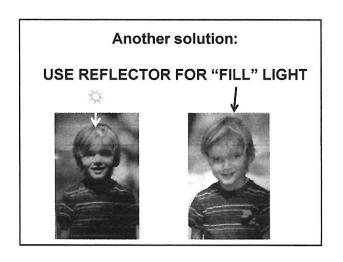












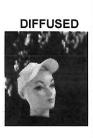
Problem: Bright sun looks HARSH

Solutions: 1. Reposition the subject

- 2. Use GOBO to block the sun
- 3. Use diffuser





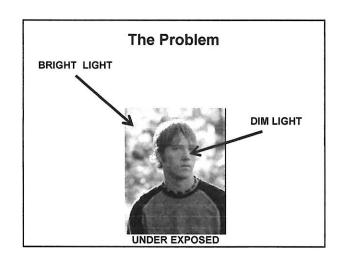




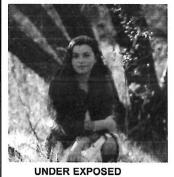
Umbrella as a diffuser



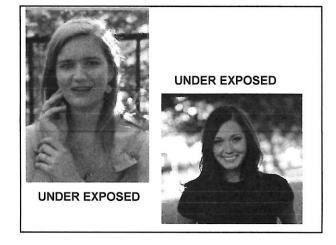




PROBLEM: Bright Background & Dark Subject







Solution: Balance the lighting of the subject and the background



UNDER EXPOSED

1. Expose for the background

2. Use reflector (or flash) to brighten the subject

BUT, DON'T USE TOO MUCH FILL

Don't make subject BRIGHTER than background



(will cause subject to look overexposed)

Use reflector to brighten subject to the <u>same brightness</u> as the background

UNDER EXPOSED



PROBLEM: Direct sun causes FLAT LIGHTING



RESULT: properly exposed background & properly exposed subject

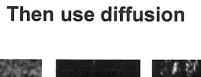


PROPER EXPOSURE

PROBLEM: Direct sun causes FLAT LIGHTING SOLUTION: Change subject's orientation



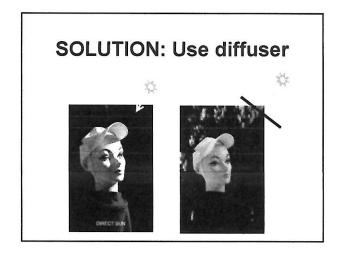


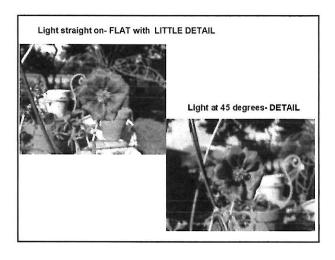


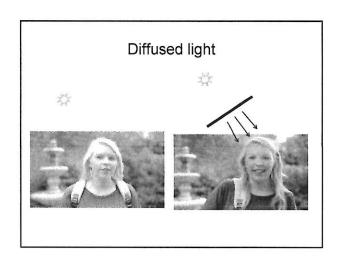




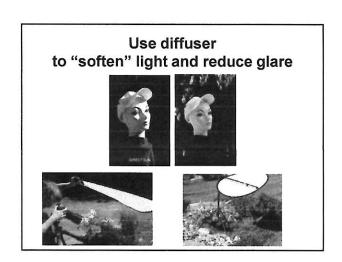








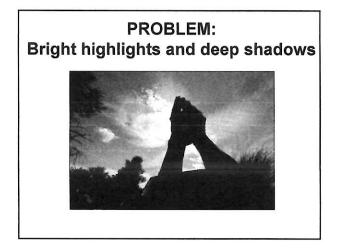


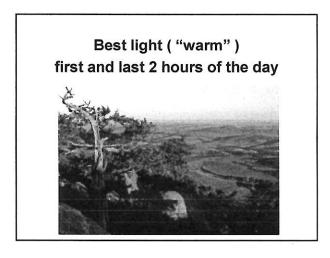


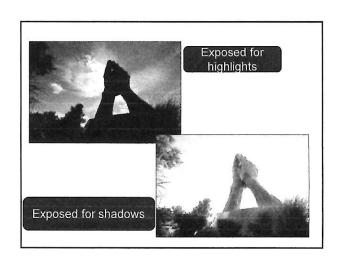
PROBLEM: how to "warm" an image

SILVER REFLECTOR

GOLD REFLECTOR







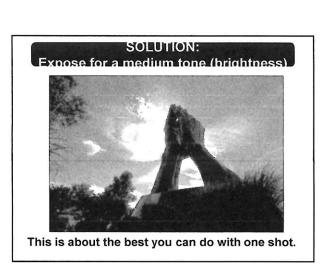
Evening light is warmer than morning light

MORNING AIR: Less dust

less scattering of blue light

EVENING AIR: More dust

more scattering of blue light

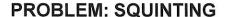


SOME BETTER SOLUTIONS

- 1. Add some light to the dark areas. (fill flash, reflectors, etc).
- 2. Take several shots at different exposures to merge later into final image.

SOLUTIONS:

- 1. MOVE SUBJECT (if possible)
- 2. REDUCE LIGHT ON SUBJECT a. NATURAL OBJECT b. GOBO OR DIFFUSER
- 3. HAVE SUBJECT CLOSE EYES, THEN OPEN JUST BEFORE THE SHOT





Sunlight too bright

PROBLEM: DARK AREAS IN SCENE



SOLUTIONS:

- 1. MOVE SUBJECT (if possible)
- 2. REDUCE LIGHT ON SUBJECT a. NATURAL OBJECT
 - b. GOBO OR DIFFUSER

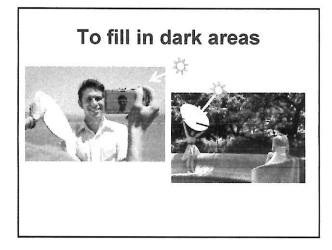


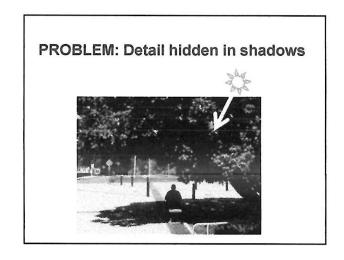


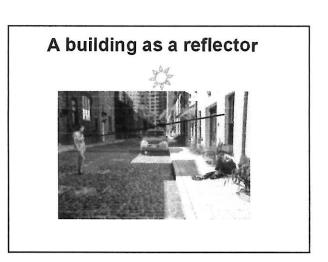
Use reflector to fill in shadows

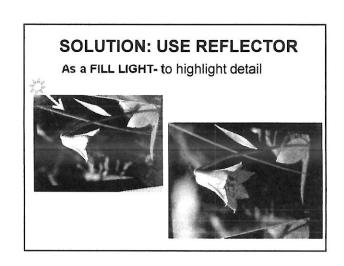






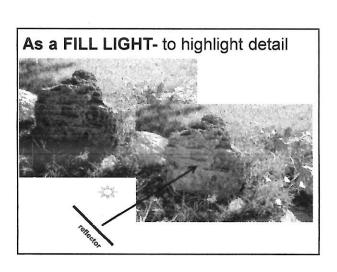


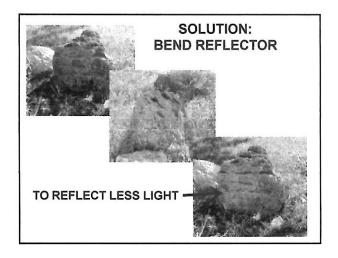


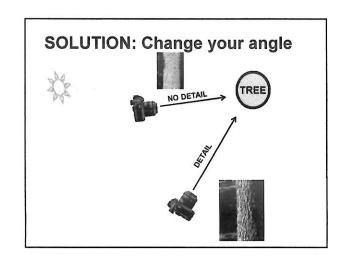


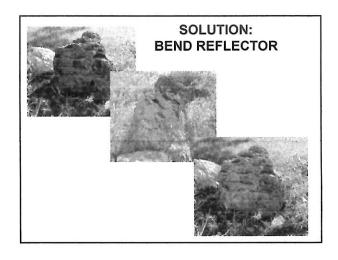
ALTERNATIVE MATERIALS

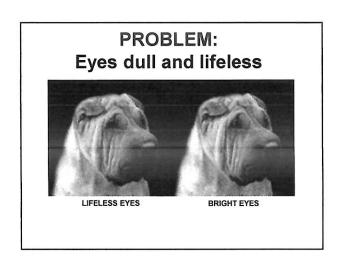
- FOAM BOARD- white and black
- FABRIC- white and black
- ALUMINUM FOIL
- AUTO WINDOW SHADES
- 4 X 8 FOOT FOAM SHEETS
- MIRRORS
- NATURAL OBJECTS
- OTHER EQUIPMENT

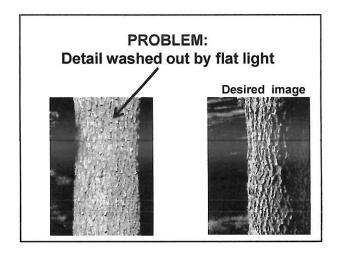


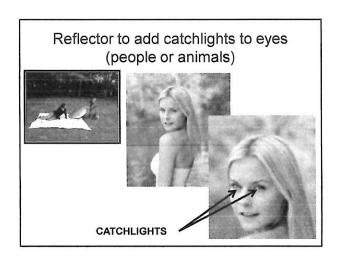


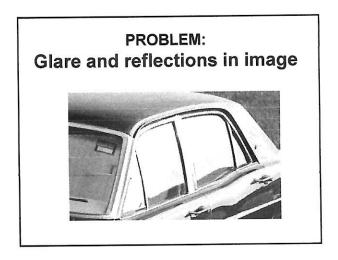


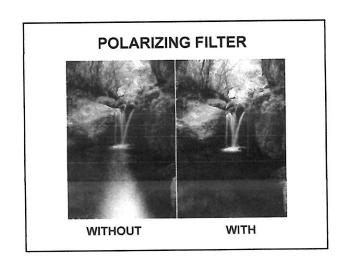


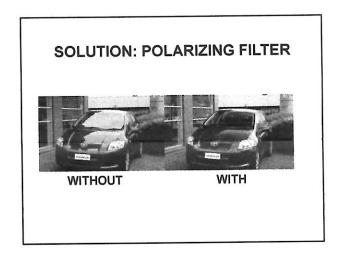


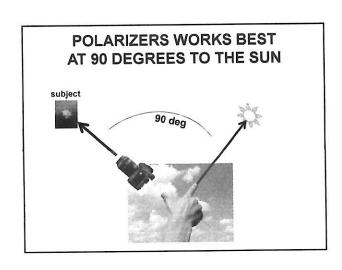


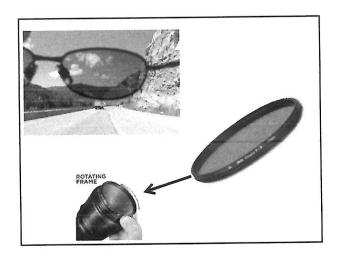


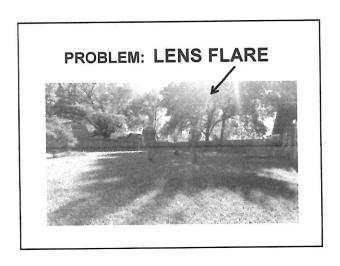








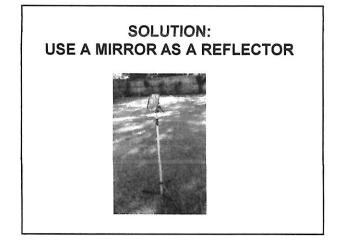


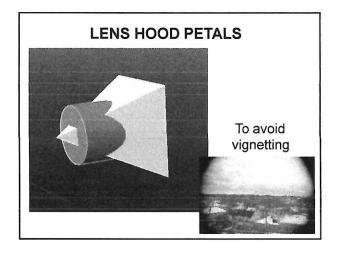


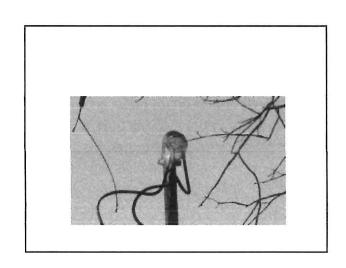
SOLUTIONS:

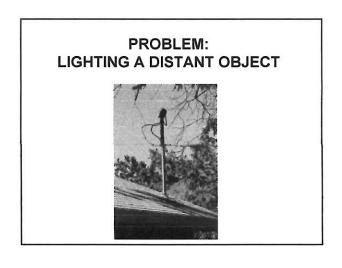
- 1. AVOID SUN SHINING INTO LENS
- 2. USE SOMETHING TO BLOCK SUN
- 3. USE LENS HOOD TO BLOCK SUN

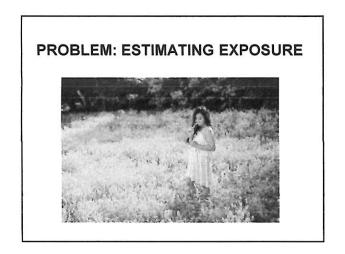












SOLUTION: USE SUNNY 16 RULE

Set shutter speed to the reciprocal of the ISO setting. Then f/stop will be:

f/16 BRIGHT SUN

f/11 SLIGHT OVERCAST

f/8 OVERCAST

f/5.6 HEAVY OVERCAST

f/4 OPEN SHADE / SUNSET

" That's all folks"

Porky Pig