Sponsored by LightShine Church and NPHS

PHOTOGRAPHY PHOLKS



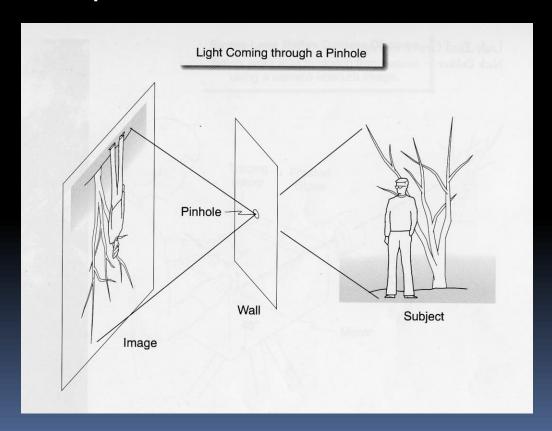
Some announcements

- \$25 due ASAP
- We owe \$20 a class for utilities costs, so I need at least 4 people to pay in cash or write checks payable to Eric Lindroth
- Snacks next week
- Assistant (be here by 6 to help set up, snack and potluck coordinator)
- November 11 and 18?

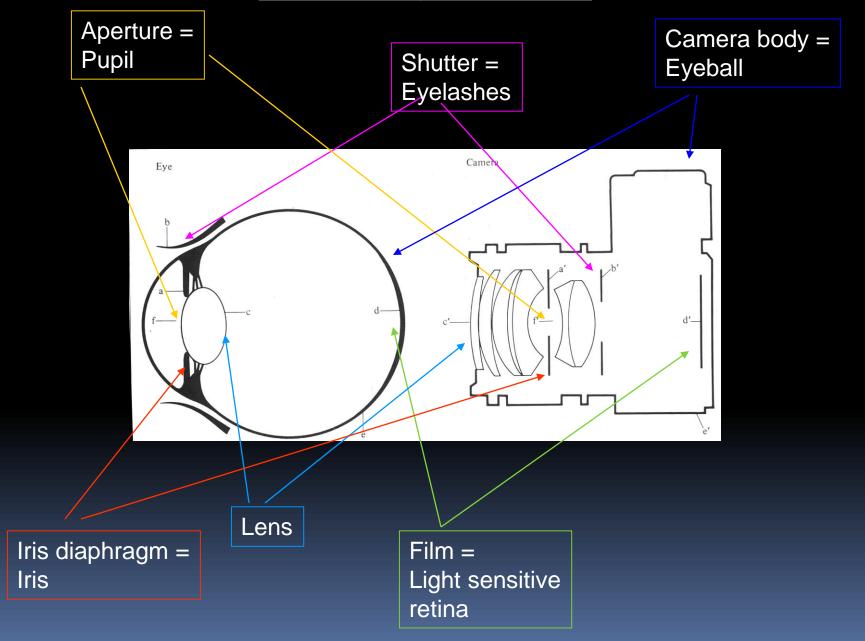
REVIEW

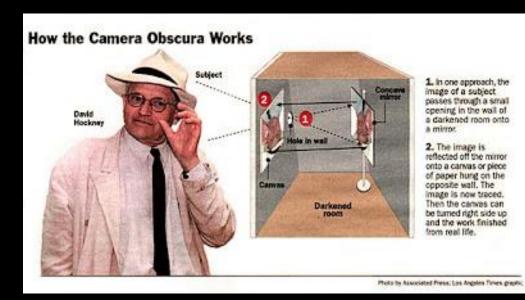
Camera Obscura

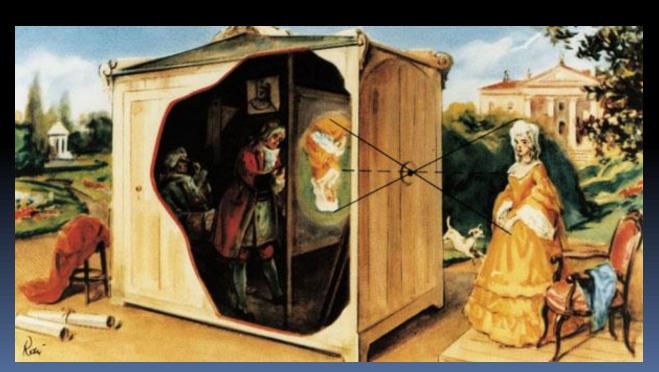
- Camera "room"
- Obscura "dark"
- Inverse square law



The Camera/Eye Comparison

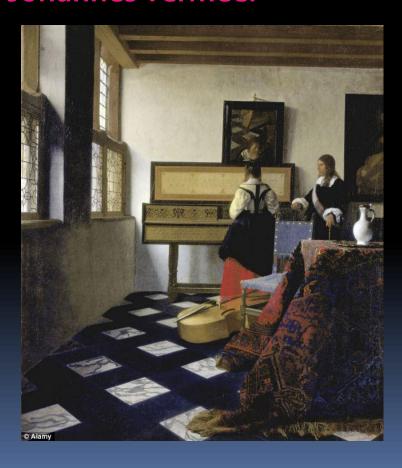






Camera Obscura Paintings

Johannes Vermeer







Early Landscape Photographers Influence in Creating and Preserving National Parks and Wilderness







Timothy O'Sullivan

Carlton Watkins

Ansel Adams

(and others...)

Mathew Brady



Lewis Hine



Photographic Composition Guidelines

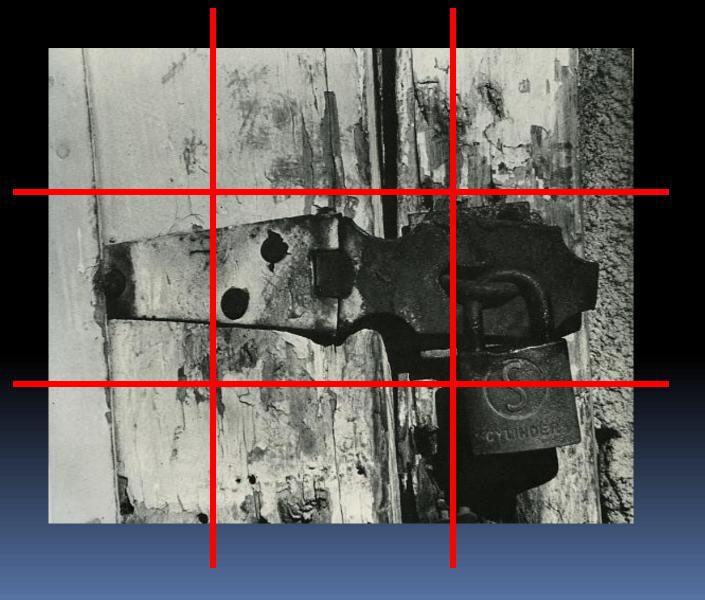
- Simplicity
- Rule of Thirds
- Lines
- Balance
- Framing
- Avoid Mergers

Simplicity



Danielle Adler

Rule of Thirds



Lines



Melissa Abel

Balance



Framing



Whitney Bulmer

Avoid Mergers

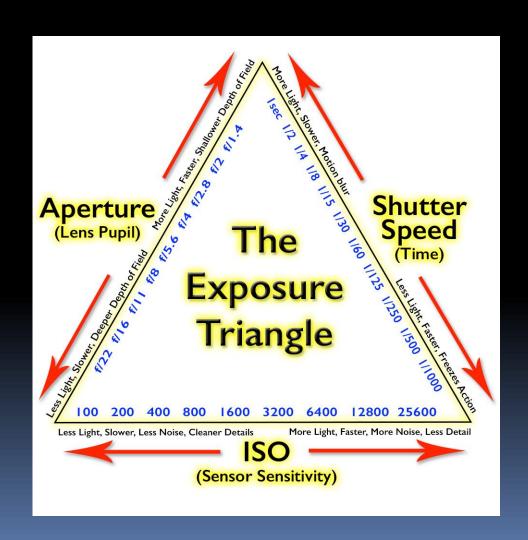


Technical Lesson

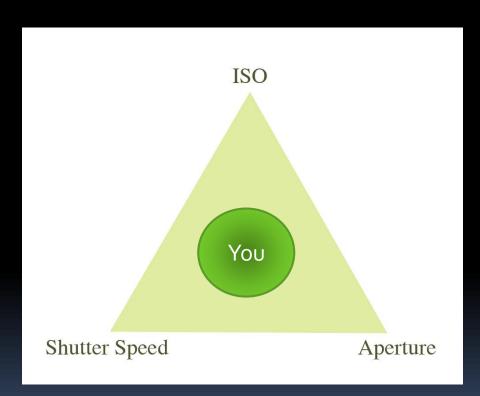
EXPOSURE TRIANGLE, ISO, LIGHT METER

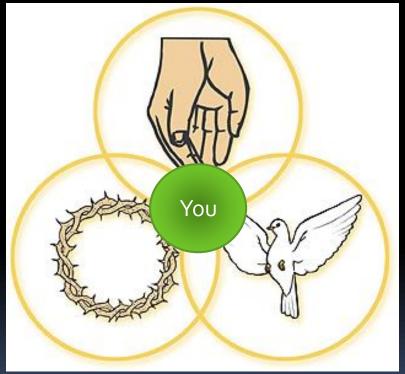
EXPOSURE TRIANGLE

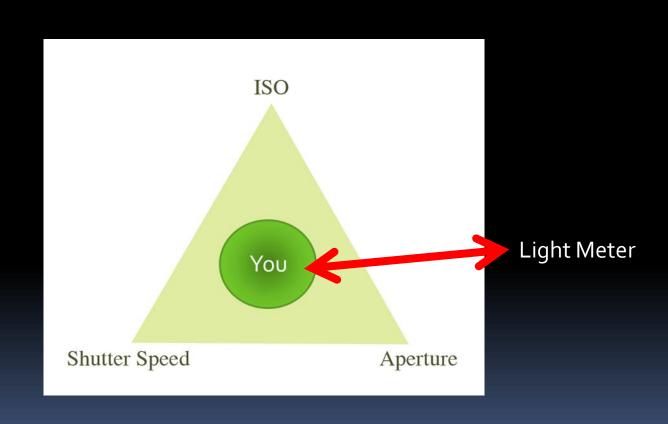
Holy Trinity of Photography











THE EXPOSURE TRIANGLE

ISO

higher : more grain



IDEAL EXPOSURE

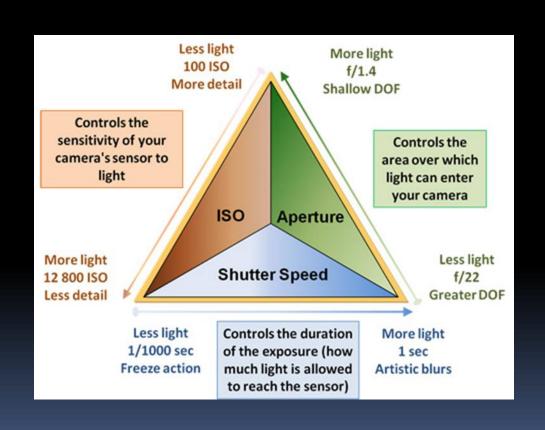
slower : more motion blur larger : less depth of field

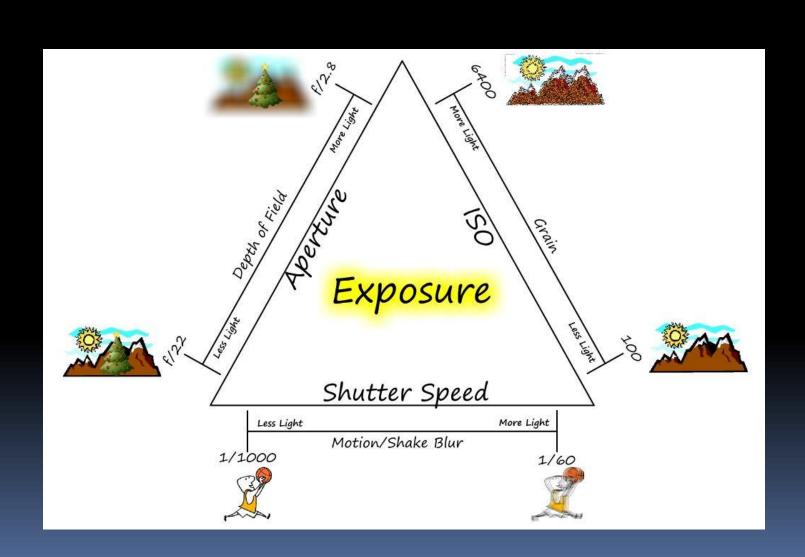
SHUTTER

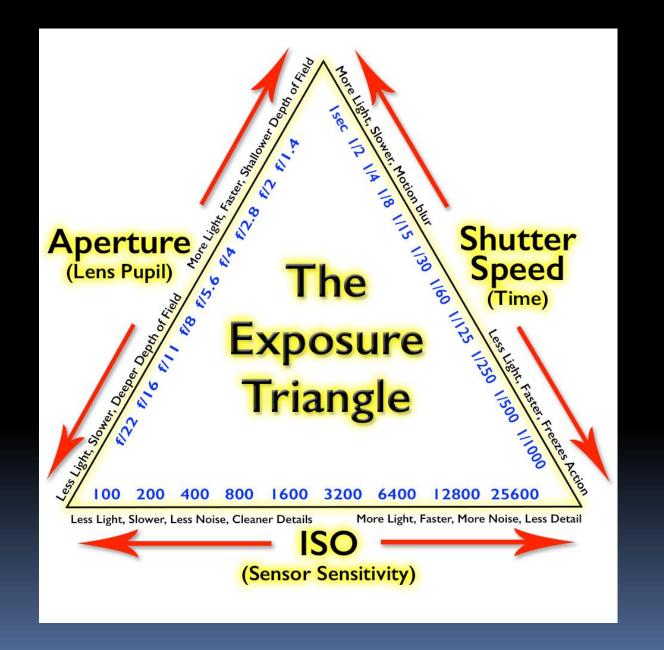
APERTURE

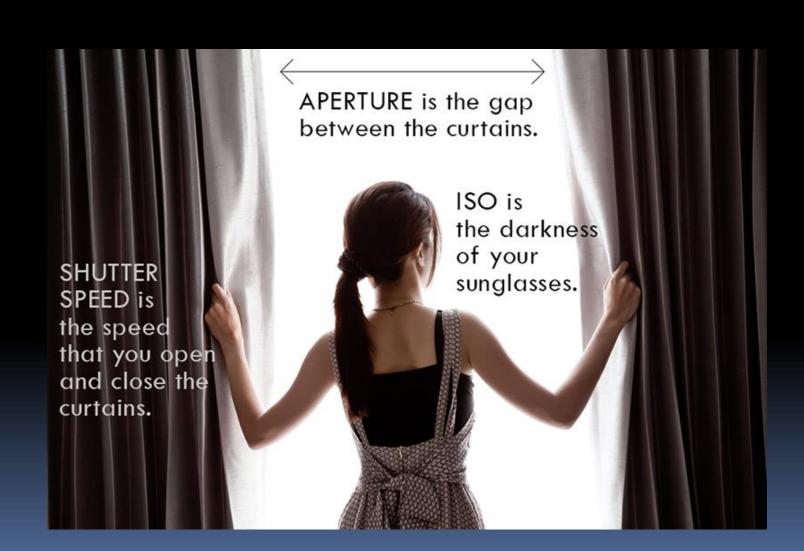
SPEED

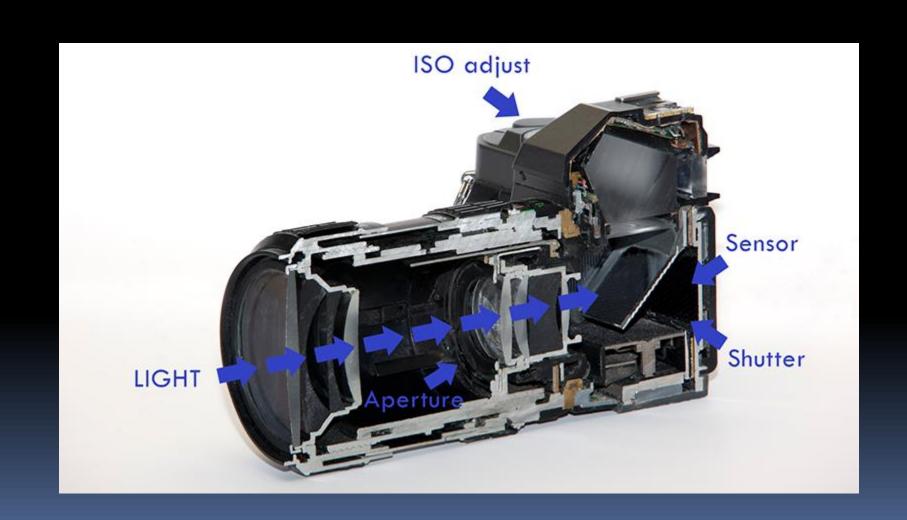
© momentology photography





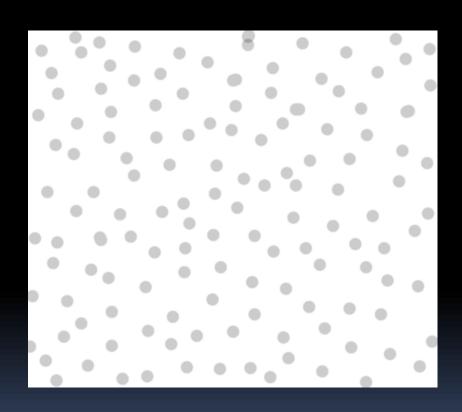


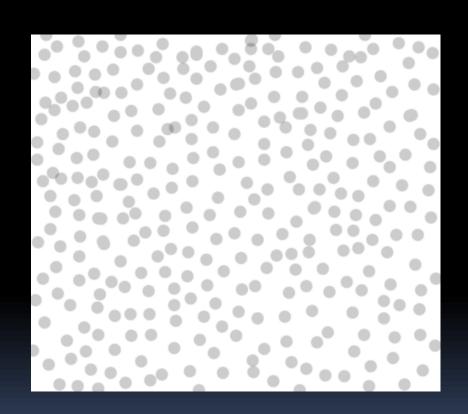


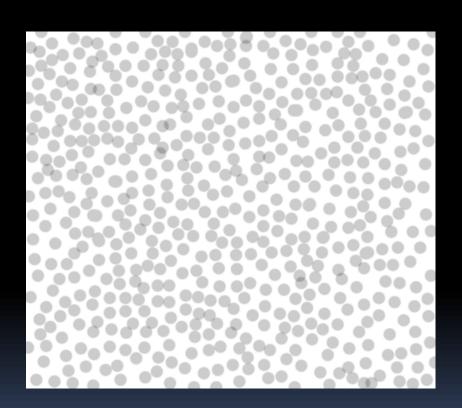


ISO and ASA

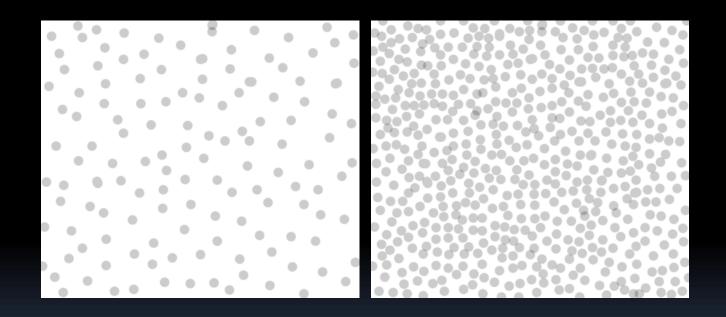
- ISO International Standards Organization
- ASA American Standards Association





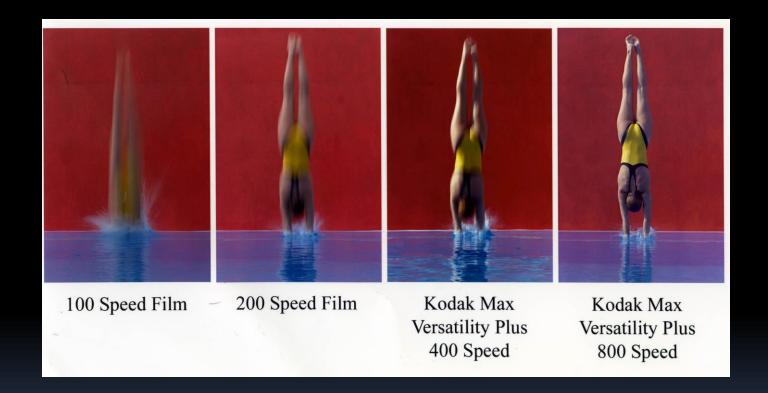


Low Density High Density









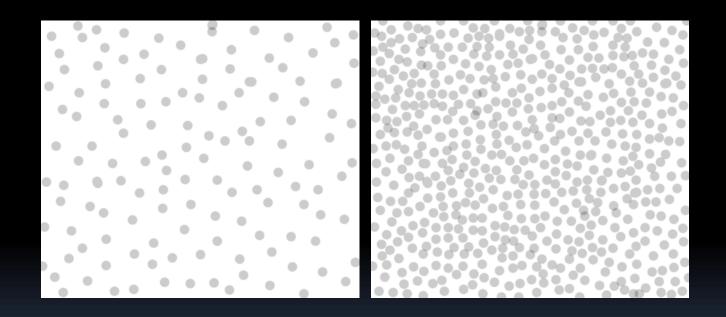


How does ISO affect print quality

LowerISO

- Films are more dense, and thus are less grainy when made into a print
- Digital: CCD sensors are more dense = less noiseHigher ISO
- Films are less dense, and thus can be more grainy when enlarged
- Digital: CCD sensors are less dense = more noise

Low Density High Density



High ISO (maybe 3200 ISO)





Low ISO (maybe 64 ISO)



Ansel Adams

Low Density

High Density





Higher ISO allows for faster shutter speeds but noise can be created



f/5 @ 1/60 (slow) ISO 200 (lower number)



f/5 @ 1/80 (a little faster) ISO 400 (a little higher)



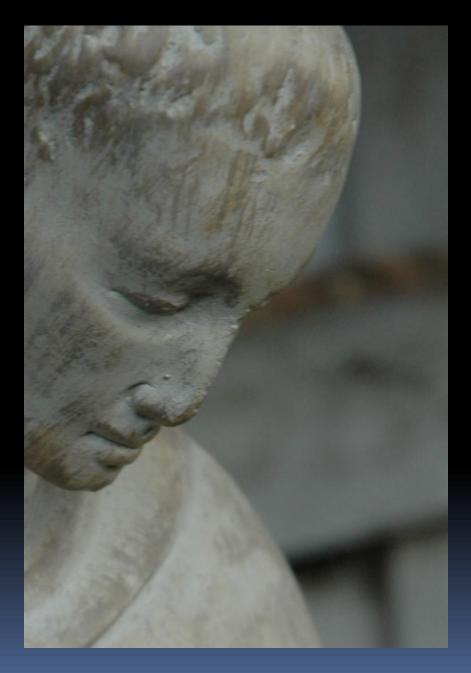
f/5 @ 1/200 (faster) ISO 800 (higher)

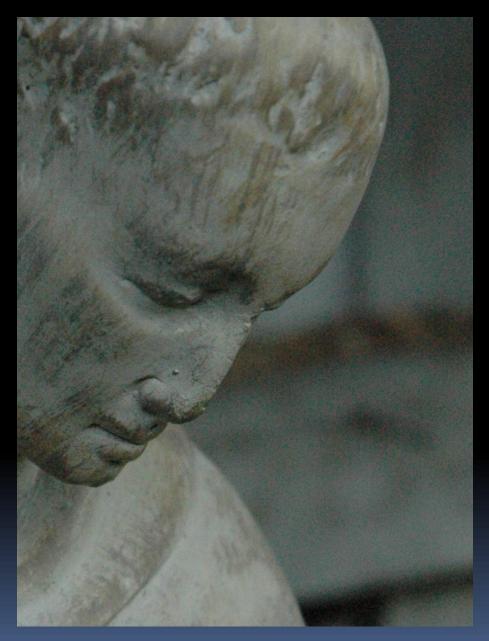
(aperture setting remains constant)



f/5.0 @ 1/400 (quite fast) ISO 1600 (much higher)

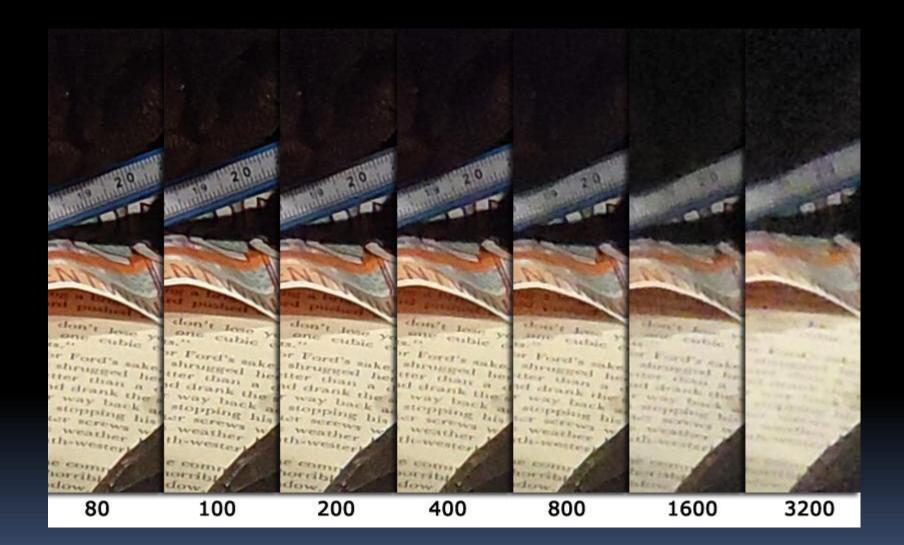
More noise present





200 ISO 1600 ISO

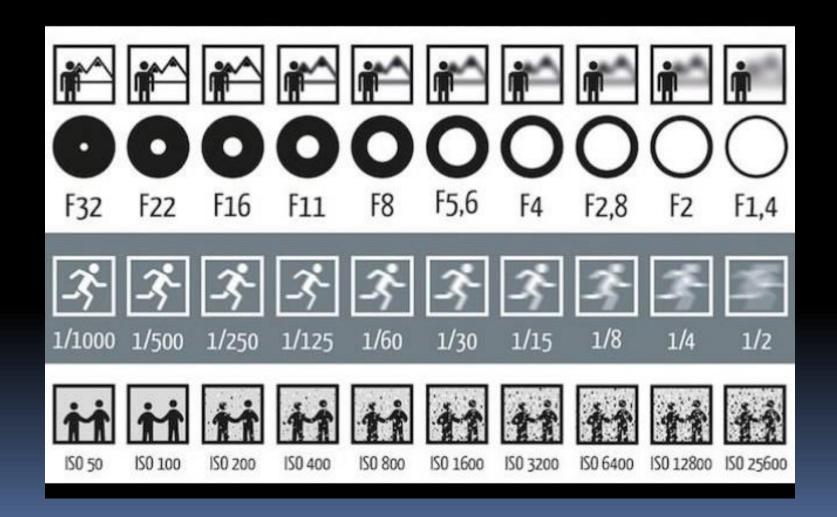




ISO rating on your film/digital camera

- ISO designates the film's degree of sensitivity to light
- Higher number ISOs mean more sensitive to light – can be used in lower light settings (generally)
- Lower number ISOs mean it is less sensitive to light and is used for brighter settings (generally)

Three parts of the triangle



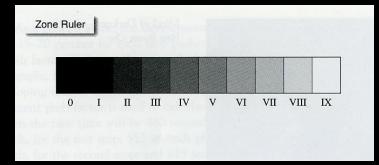
LIGHT METER

Light Meter

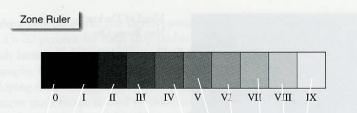
- Purpose = tells you how much light is being allowed into the camera based on the current APERTURE, SHUTTER SPEED, and ISO settings
- Averages all light in scene to 18% gray which is ZONE V on Zone system scale
- Is correct most of the time

Light Meter





ZONE	DESCRIPTION
0	Maximum black
I	The first tone distinguishable from black with no detail
II	The first visible texture in a very dark area
III	Black with detail—a highly textured dark area with distinct detail; this zone is considered the shadow detail area for average value metering
IV	Dark gray
V	Middle gray, with 18 percent reflectance
VI	Light gray
VII	White with detail; the lightest area in the photograph that will have distinct texture or detail; this is the highlight area for the average value method
VIII	The brightest tone distinguishable from white
IX	Paper white



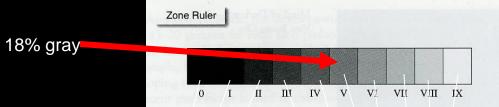


18% gray

 Tone to which all light meters average the light given off by the scene which is being photographed

This is 18% gray.

Bruce DeBonis TravelThroughPictures.com





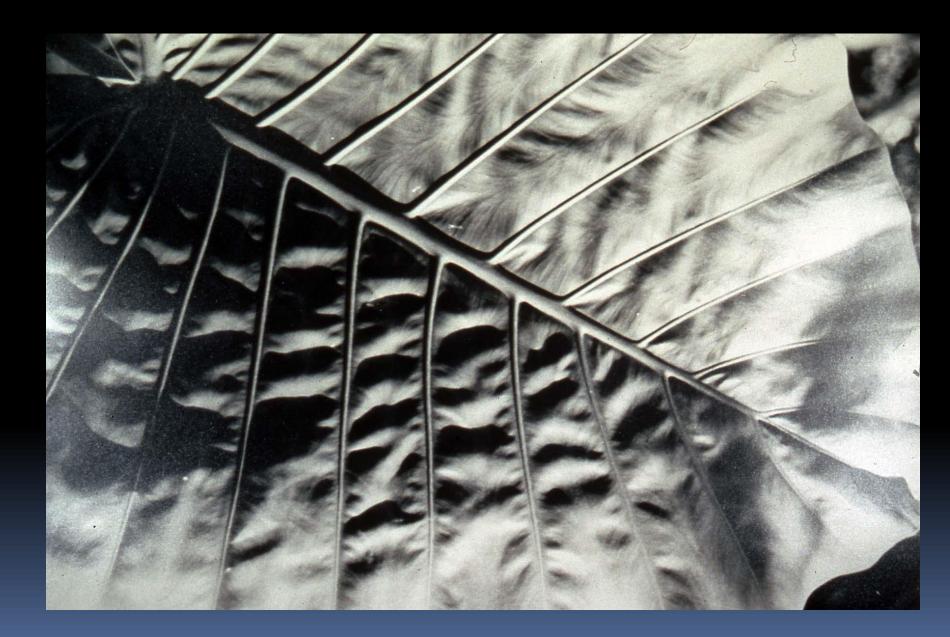
Composition Lesson

TEXTURE

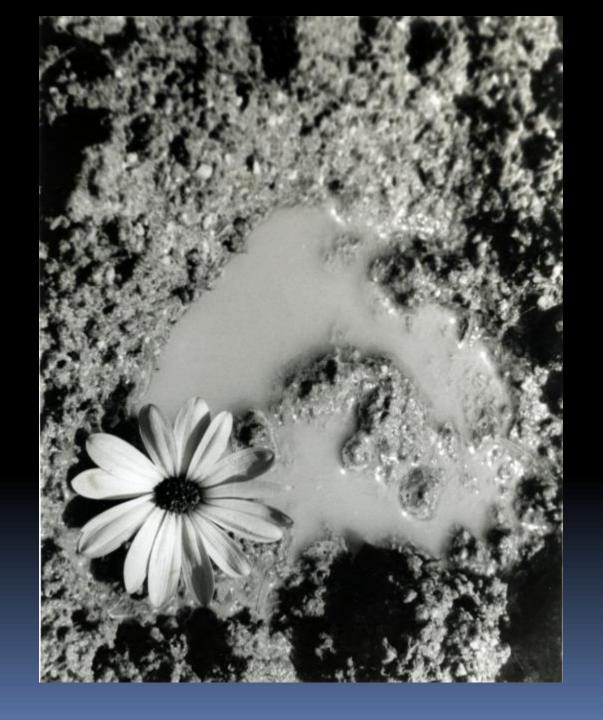
Composition

- Dominance
- Subordination
- Rule of thirds
- Simplicity Primary subject is evident







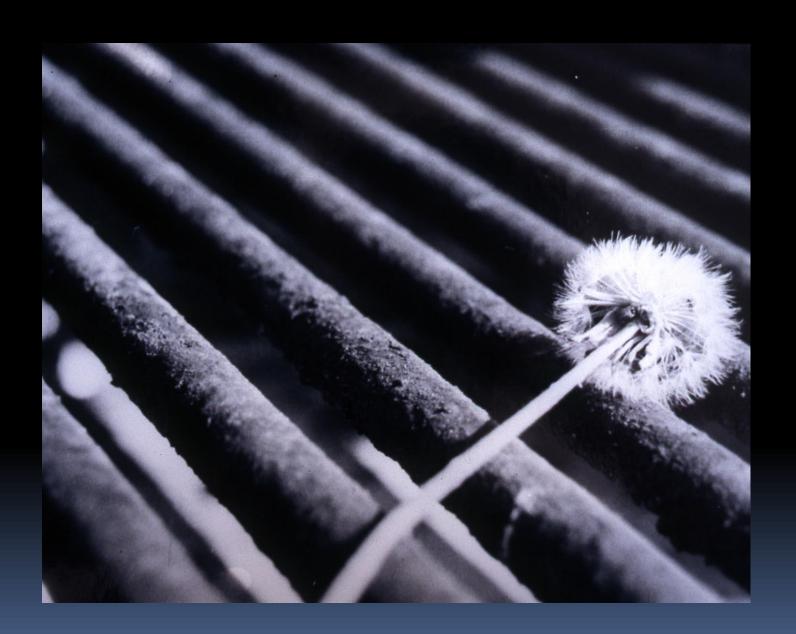










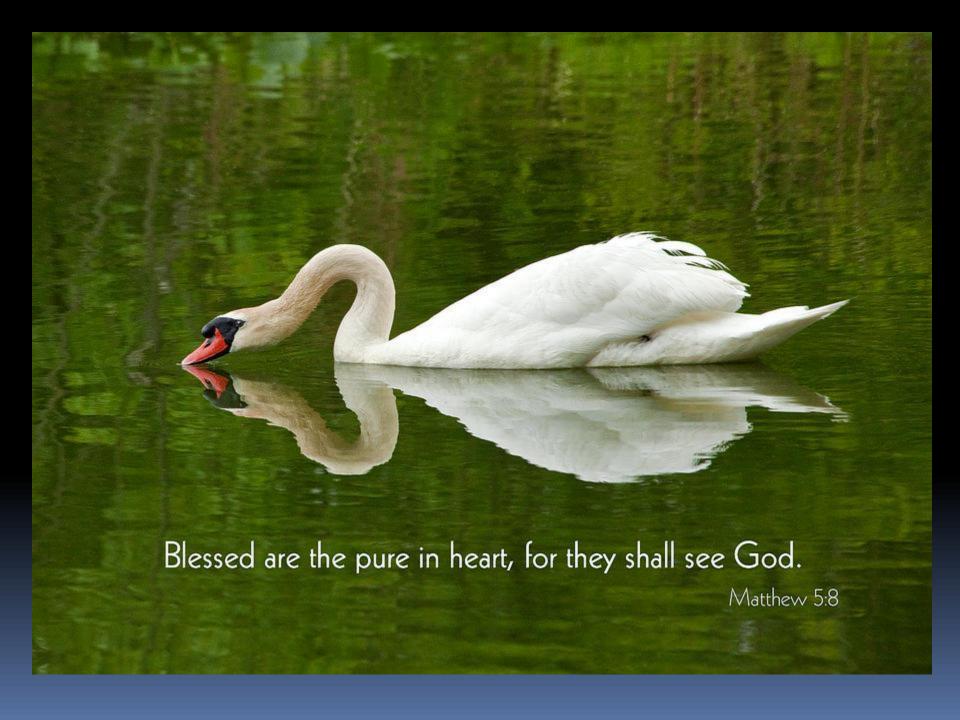


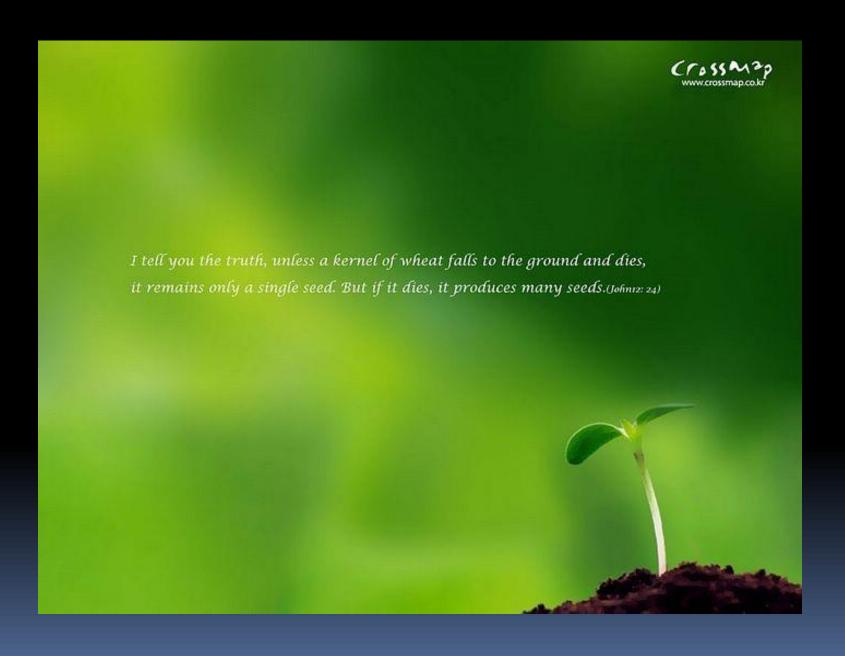




Compositional Goal for the Course

THE WORD AND THE PHOTO







Ecclesiastes 3:1-8

 Biblical Chapter and verses of the week

- Song covered by the Byrds
- Composed by Peter Seeger



Week Two Assignment

- Shoot Textural Images using the exposure triangle
- See handout for specific directions
- At least 3 texture shots
- At least three more of texture or any topic of your choosing



Good app for smartphones or tablets



- Camera +
- (not Camera Plus)
- You can control exposure (too an extent)
- Shoots on manual mode
- Allows control of ISO and Shutter Speed

Next Week: The Aperture, Depth of Field, Portrait and Landscape



