"The camera basically is a license to explore"

- Jerry Uelsmann

Aesthetics of Exposure

Exposure is the amount of light that reaches the camera's sensor.

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Aesthetics of Exposure

-3   -2   -1   Normal   +1   +2   +3

Technically exposure determines how light or dark an image is captured.

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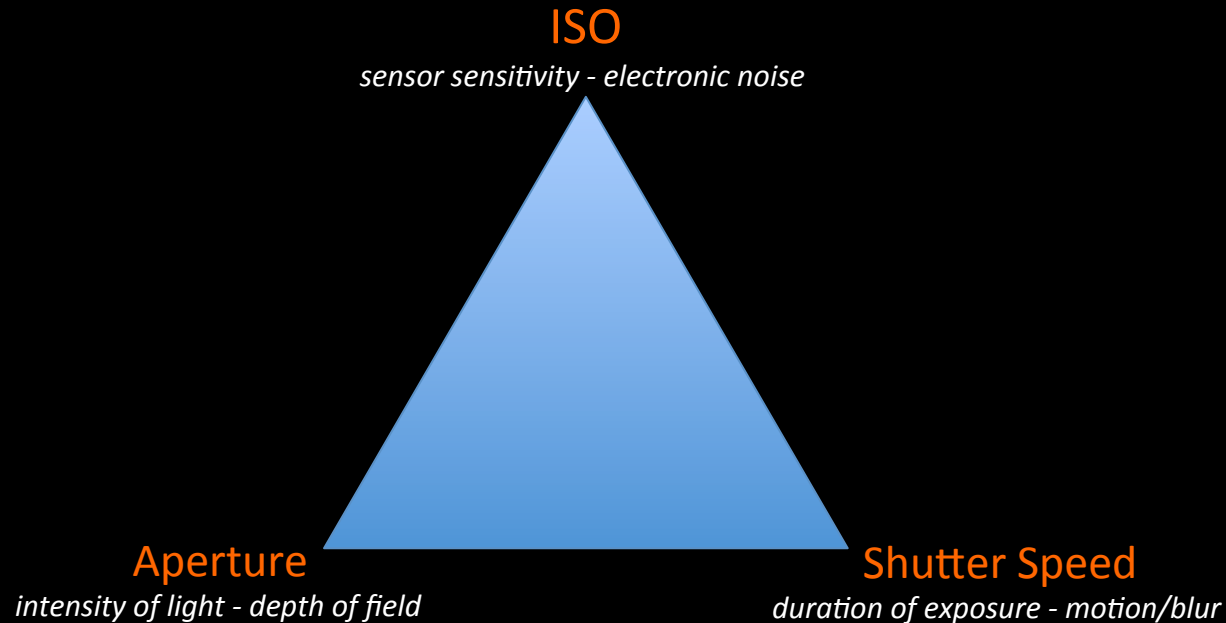
Aesthetics of Exposure

8 seconds @ f/22 ISO 100

Beyond just achieving the correct image density the controls of exposure can have a major aesthetic influence on your final image.

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Aesthetics of Exposure

ISO
sensor sensitivity - electronic noise

Aperture
intensity of light - depth of field
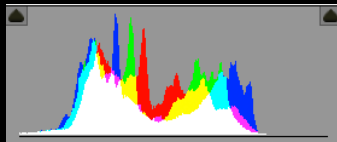
Shutter Speed
duration of exposure - motion/blur

Exposure is solely controlled by the shutter speed, aperture, and ISO. Making creative decisions on what aperture, shutter speed, and ISO to use is necessary before firing your shutter.

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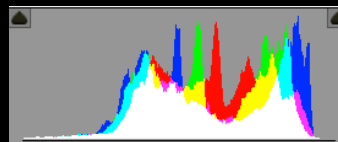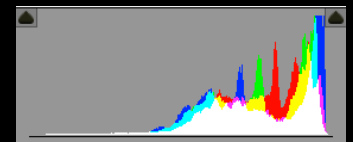www.brooks.edu
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Aesthetics of Exposure

Meter indicates -1 stop

Meter indicated exposure

Meter indicates +1 stop

Understanding the tools available for calculating and interpreting exposure is essential.

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Aesthetics of Exposure

1/50 sec @ f/4.5 ISO 3200

Selecting an ISO of 3200 allowed for a shutter speed of 1/50 sec. freezing most subject movement in the low light environment.

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Aesthetics of Exposure

1/400 sec @ f/2.8 ISO 100

Selecting an aperture of f/2.8 reduces the depth depth focusing the viewer's attention on the area of sharpness within the scene.

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Aesthetics of Exposure

Your in-camera meter, histogram, and camera's blinking highlight warning are very useful tools when calculating exposures.

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Aesthetics of Exposure

1/1250 @ f/2.8 ISO 100

Selecting an aperture of f/2.8 when calculating the exposure allows for the separation of the subject from the background.

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Aesthetics of Exposure

1/400 @ f8 ISO 100

In difficult light metering situations applying the "Sunny 16 rule" can be helpful.

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Aesthetics of Exposure

1/125 @ f/5.6 100 ISO

Understanding exposure equivalents and the tradeoffs of each equivalent will assist in both technical and aesthetic decisions.

Equivalents: 1/500 @ f2.8 = 1/250 @ f/4 = 1/125 @ f/5.6 = 1/60 @ f/8

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Aesthetics of Exposure

1/25 sec @ f/5 ISO 3200

Selecting a shutter speed of 1/25 sec. allowed for both subject blur and background blur while panning.

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Aesthetics of Exposure

1/125 @ f/9 100 ISO

Balancing subject blur with depth of field was necessary in calculating the correct exposure combination.

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Aesthetics of Exposure

1/640 @ f/3.5 ISO 100

Selecting an aperture of f/3.5 when calculating the exposure allowed for the shallow depth of field when focusing on the foreground.

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Aesthetics of Exposure

1/320 @ f/11 ISO 100

Setting the camera to aperture priority automatically calculates the exposure based upon the selected aperture.

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Aesthetics of Exposure

1/800 @ f/4 ISO 100

Aperture priority is very useful when controlling depth of field.

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Aesthetics of Exposure

1/1000 @ f/4 ISO 100

Setting the camera to aperture priority automatically calculates the correct exposure based upon the selected aperture.

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Aesthetics of Exposure

1/500 @ f/7.1 ISO 100

Setting the camera to shutter speed priority automatically calculates the exposure based upon the selected shutter speed.

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Aesthetics of Exposure

1/200 @ f/8 ISO 100

When photographing architecture depth of field is a primary consideration when calculating exposure.

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Aesthetics of Exposure

1/800 @ f/2.8 ISO 100

A tilt shift lens used wide open allows for very selective focus control.

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Aesthetics of Exposure

1/50 @ f/2.8 ISO 400

Aesthetics of Exposure

Review – Exposure

Exposure in photography is the amount of light that
    reaches the camera's sensor.

Aperture priority calculates exposure based upon selected aperture.

Shutter speed priority calculates exposure based upon selected
    shutter speed.

Exposure equivalents are reciprocal exposures resulting in identical image
    density.

"Sunny 16 rule" method of calculating exposure without a light meter.

Aesthetics of Exposure

Vocabulary Study Words

Exposure

Reciprocal exposure

"Sunny 16 rule"

Metering

Aperture

Shutter Speed

ISO

Aesthetics of Exposure

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