Photography Exposure Triangle

Click & Access the Exposure Triangle Photo Guide: DaveMorrowPhotography.com/exposure-triangle

Shutter Speed (SS)

- Increase
  - Induce Motion Blur for Moving Objects (Water, People, Animals)
  - +EV (More Light = Brighter Image)
  - To Maintain EV = Increase f-stop or Decrease ISO.

- Decrease
  - Freeze Moving Objects (Water, People, Animals)
  - -EV (Less Light = Darker Image)
  - To Maintain EV = Decrease f-stop or Increase ISO.

ISO

Click & Access the ISO Photo Guide

Image Attributes: Noise, Signal Amplification

- Increase
  - Increased image noise
  - +EV (Increased Signal Amplification = Brighter Image)
  - To Maintain EV = Decrease Shutter Speed or Increase f-stop

- Decrease
  - Decreased image noise
  - -EV (Decreased Signal Amplification = Darker Image)
  - To Maintain EV = Increase Shutter Speed or Decrease f-stop

F-Stop

Click to Learn about EV & Metering

0EV = Optimal Exposure - Meter Determined
- EV = Underexposed - Meter Determined
+ EV = Overexposed - Meter Determined
1EV Difference = 1 Stop Difference

Click & Access the F-Stop Photo Guide

F-Stop Controls Aperture Diameter

Image Attributes: Depth of Field (DOF), Focus Range, Sharpness, & Sun Star

- Increase
  - Increased Depth of Field / Focus Range
  - -EV (Less Light = Darker Image)
  - To Maintain EV = Increase Shutter Speed or Increase ISO

- Decrease
  - Decreased Depth of Field & Larger Aperture Diameter
  - +EV (More Light = Brighter Image)
  - To Maintain EV = Decrease Shutter Speed or Decrease ISO

Click & View ISO Attributes

- 25-50: Longer SS, Low Noise
- 100-250: Standard Shooting, Low Noise
- 250-800: Low Light, Shorter SS
- 800-1600: Very Low Light, Shorter SS
- 1600-6400: Star, Milky Way & Night Sky

Click & View SS Attributes

- 1/8000-500: Freeze Fast Objects, Bright Day
- 1/500-125: Motion Blur Fast Objects
- 1/125-30: Sunrise / Sunset, Tripod Shooting
- 1/30-10s: Detailed Water, Motion Blur
- 10s-30s+: Smooth Water, More Motion Blur, & Night Sky Photography

Click & View F-Stop Attributes

- f/1.4-2.8: Short DOF, Low Light, Night Sky, Shorter SS, Single Subject
- f/4-5.6: Single Subject w/ Background Detail
- f/8-16: Sharpest w/ Long DOF, Landscape & Travel, Longer SS
- f/22-32: Sun star, Longer SS, Diffraction & Decreased Sharpness