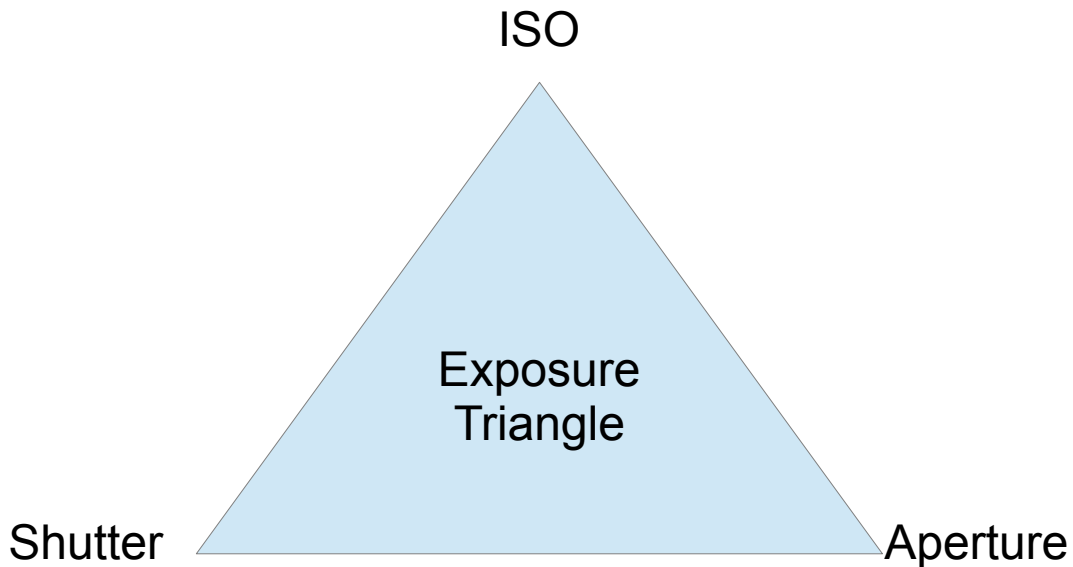


Bright Moon Photography notes:
[Meetup.com/stevegandyphotography](https://www.meetup.com/stevegandyphotography)



HIGH ISO TEST IMAGE:

3200 or 6400 ISO, Widest Aperture your lens will do, 2 to 6 seconds
 Evaluate
 Then adjust for a higher quality ISO setting

| ISO | Shutter | Aperture |
|-------------|---------------|--------------|
| 6400 | 60 sec | f / 2.8 |
| 3200 | 30 sec | f / 4 |
| 1600 | 15 sec | f / 5.6 |
| 800 | 8 sec | f / 8 |
| 400 | 4 sec | f / 11 |
| 200 | 2 sec | f / 16 |
| 100 | 1 sec | f / 22 |
| | 1/2 sec | |

4 stops to 200

4 stops To 30 seconds

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FOCUS Tips

Auto Focus doesn't work well

Manual Focus set at infinity will be best for wide landscapes

Using a flashlight on a closer subject

Calculating or estimating the hyperfocal distance can be helpful too.

Zoom in and check focus before you spend a long time on an exposure!

Checking and Calculating Exposure

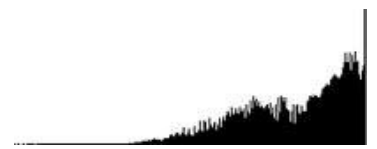
Learn to show the **Histogram** on your preview. It is much better info than the image, especially in the dark.

Histograms are always dependent on the image. You will learn to interpret them on the fly.



This histogram shows an image with severe underexposure. Black is on the left so much of the image is black or dark gray.

This histogram shows an image with mostly gray tones. No whites, no blacks. It will look "flat".



This histogram shows an image with an overexposure. There are lots of whites and almost whites. The darkest shade is middle gray.

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STARS

This isn't the star photography class but....

You may get some stars in your composition aiming away from the moon.

The earth moves and because of that the stars will leave "trails" of light in your image if your shutter is open long enough, so...

For **POINTS of light you need a shorter shutter speed** and for **TRAILS you need a longer shutter speed.**

500 RULE for points

To render stars as points do this
shutter speed maximum = 500 divided by the Focal
length of the lens

Examples:

$$500/24\text{mm} = 20 \text{ seconds}$$

$$500/100\text{mm} = 5 \text{ seconds}$$

For Trails, adjust your exposure triangle to give you longer times and/or zoom in with longer focal length of the lens.