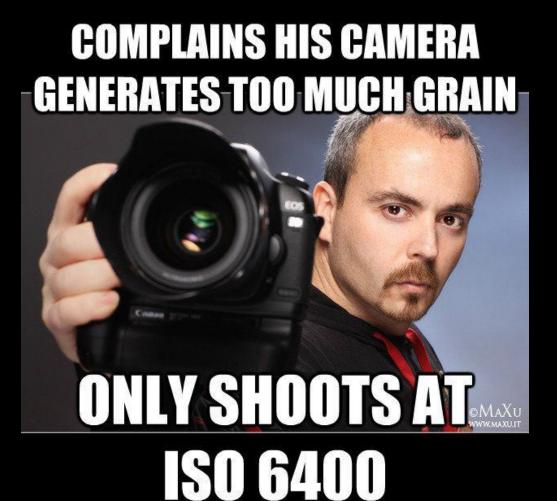
ISO

How sensitive are you?



quickmeme.com

Bellwork

What are the two legs of the exposure triangle we have already discussed?

Where are they found in the camera?

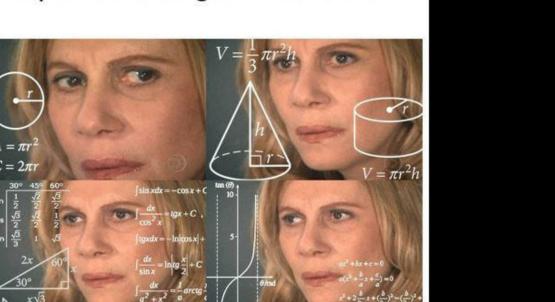
What do they control?

Objectives

Students will be able to:

- Understand the ISO component of the Exposure Triangle
- Know the differences when it comes to low and high ISO
- Determine when they should use a low or high ISO

when you explain the exposure triangle to amateurs

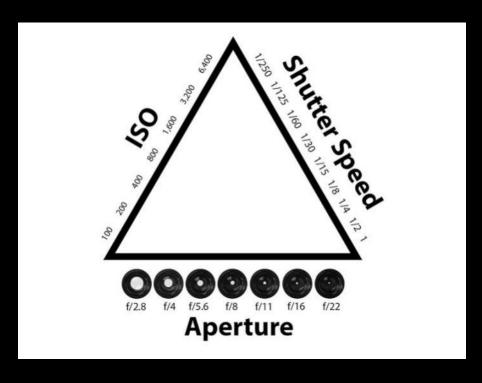


The Exposure Triangle

In this lesson, we will be talking about ISO, one of the three sides of the Exposure Triangle.

Remember that with all three sides, when you adjust one, you typically have to adjust the other two.

Note: ISO is the easiest one to set!



Exposure

There are three factors that influence the exposure of your image:

- Aperture
- Shutter Speed
- ISO

A "correct" or "good" exposure occurs when you maintain as much detail as possible in both the very bright parts (highlights) as well as the very dark parts (shadows) of your shot.

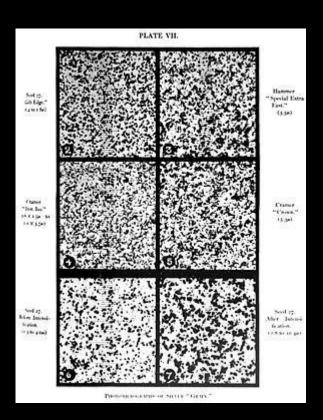
How much of a range in which you can capture detail from light to dark is referred to as the *Dynamic Range*. As you are about to see over the next few days, there can be many "correct" or "good" exposures.

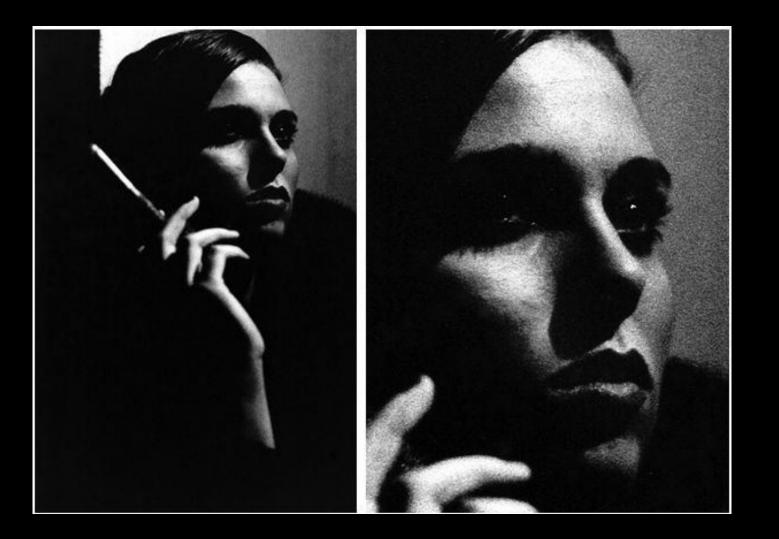
Vocabulary

Grain

noun

Film grain or granularity is the random optical texture of processed photographic film due to the presence of small particles of a metallic silver, or dye clouds, developed from silver halide that have received enough photons.





Vocabulary

Noise

noun

Just like with sound, where noise refers to auditory disruptions, in film, the term digital noise refers to visual distortion. Noise looks like tiny colored pixels or specks in your shots, and sometimes resembles the grain that you may see in film photography and films.







ISO SCALE

50 100 200 400 800 1600 3200 6400

More sensitive to light

Will capture less light ← Will capture more light

Less sensitive to light

More light needed for "good" exposure

Less light needed for "good" exposure

Less image noise/grain ← More image noise/grain

ISO

International Standards Organization

What is ISO?

- In traditional (film) photography ISO (or ASA)
 was the indication of how sensitive a film was to
 light.
- In Digital Photography ISO measures the sensitivity of the image sensor.



cheat sheet www.abigailfaheyphotography.shop

SUNNY DAY, BRIGHT LIGHT

200

RNN

1600

CLOUDY DAY, BRIGHT INDOOR

PARTIAL SHADE, BRIGHT LIGHT

EVENING, DIM LIGHTING

NIGHT, DARK INDOOR

DARK, ASTROPHOTOGRAPHY

DARK, ASTROPHOTOGRAPHY

150

100 PLENO SOL, NADA DE SOMBRA, QUIERO EXTREMA DEFINICIÓN

200 MUCHO SOL, MUCHA LUZ INDIRECTA. LUGAR BASTANTE ILUMINADO.

400 EN UN LUGAR CERRADO CERCA DE UNA VENTANA EN UN D \(\bar{A} \) SOLEADO

700 EN UN LUGAR CERRADO CERCA DE UNA VENTANA EN UN DÍA SOLEADO

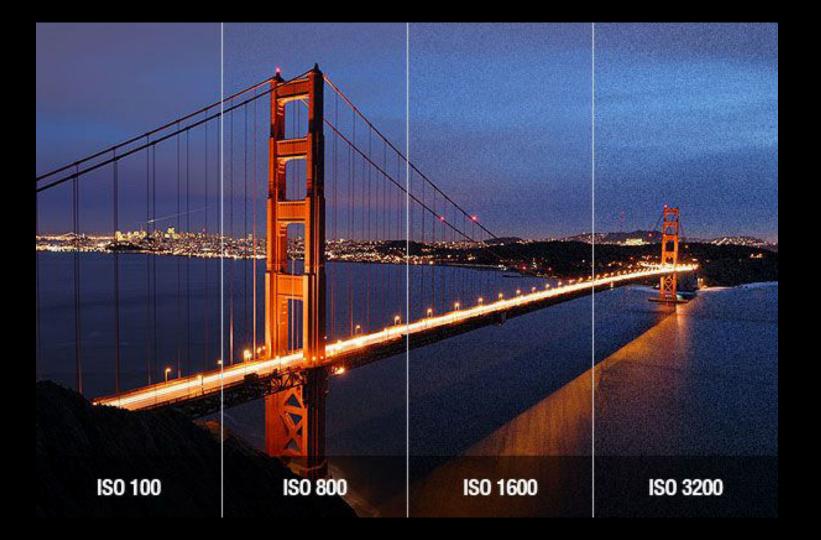
800 ATARDECER, EN UN ESPACIO CERRADO, CON ENTRADA DE LA LUZ DEL SOL O SIN ELLA.

850-1000 ATARDECER, SEPARADO DE LA VENTANA EN UN LUGAR CERRADO. 1250 EN UN LUGAR CERRADO, ENTRADA LA NOCHE, CON FOCOS DE LUZ ARTIFICIAL BOMBILLOS.

 $1600\,$ en un lugar cerrado, entrada la noche, con focos de luz artificial bombillos. LUGARES CON POCA LUZ, HABITACIONES, RESTAURANTES, TEATROS. HAYFOTOGRAFIA.BIOGSPOT

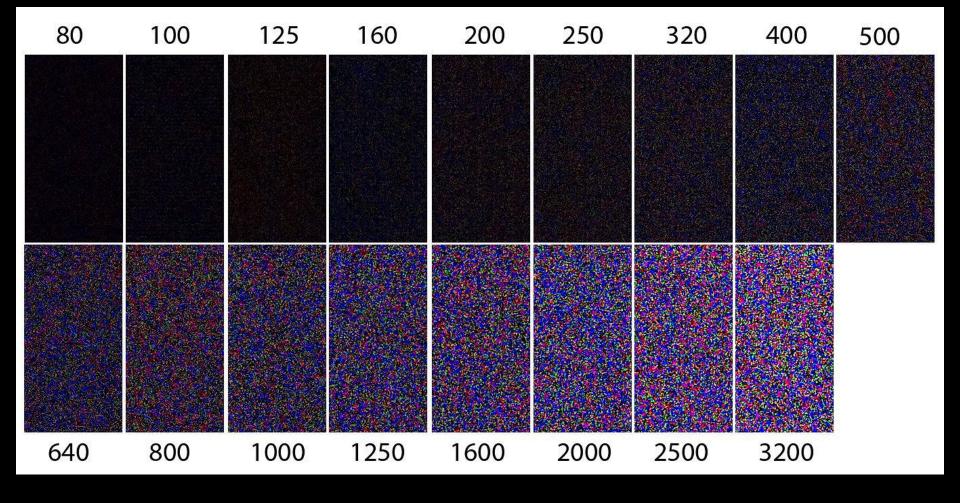












NOT AS SCARY L BETTER ISO MANIPULATION.

In October of 1994 three student filmmakers disappeared in the woods near Burkittsville, Maryland while shooting a documentary...

A year later their footage was found.

THE BLAIR WITCH PROJECT.

Everything you've heard is true.

TISAN ENTERTAINMENT PROJECT: INDICEDUS HAXAN FILMS IRONICION HEATHER DONAHUE MICHAEL WILLIAMS JOSHUA LEONARD "THE BLAIR WITCH PROJECT" INDICEDUS BEN ROCK GETURICION RICHAELO R. MORENO

DECEDUS PROJECTORI FREDERICKS HISCH ANTONSO CORA INSCRIPCIO RECUESTO NO BENCHO MICHAEL MONELLO

HISTORIAN CONTROL PROJECTORI GREGO HALE & ROBIN CONTE VINTUS, DIRECTORIS DESCRIPCIO MICHAEL MONELLO

HISTORIAN CONTROL PROJECTORI GREGO HALE & ROBIN CONTE VINTUS, DIRECTORIS DESCRIPCIO MICHAEL MONELLO

HISTORIAN CONTROL PROJECTORIS DESCRIPCIO MICHAEL MONELLO

HISTORIAN CONTROL PROJECTORIS DESCRIPCIO MICHAEL MONELLO

HISTORIAN CONTROL PROJECTORIS DESCRIPCIO RECORDINATORIS DESCRIPCIO MICHAEL MONELLO

HISTORIAN CONTROL PROJECTORIS DESCRIPCIO MICHAEL MONELLO

HISTORIA DESCRIPCIO MICHAEL M

How to Set ISO on a Camera

When using a Canon Rebel T3i, you need to hold down the ISO button on the top and then use the main dial at the top to set your ISO.



Where do we find our ISO Value on the LCD screen?



Not All Cameras are Made Equally



Each camera has a different ISO sensitivity. Canon Rebel cameras are on the lower spectrum, and as you go to the midrange to full frame cameras, especially the newer ones, the better the ISO sensitivity.



Closure:

- 1. What does ISO control in the digital camera?
- 2. What do we need to watch out for with ISO?
- 3. What are you still confused about with the Exposure Triangle?
- 4. What do you think you've mastered?