Intermediate Photography

Ross den Otter Session I

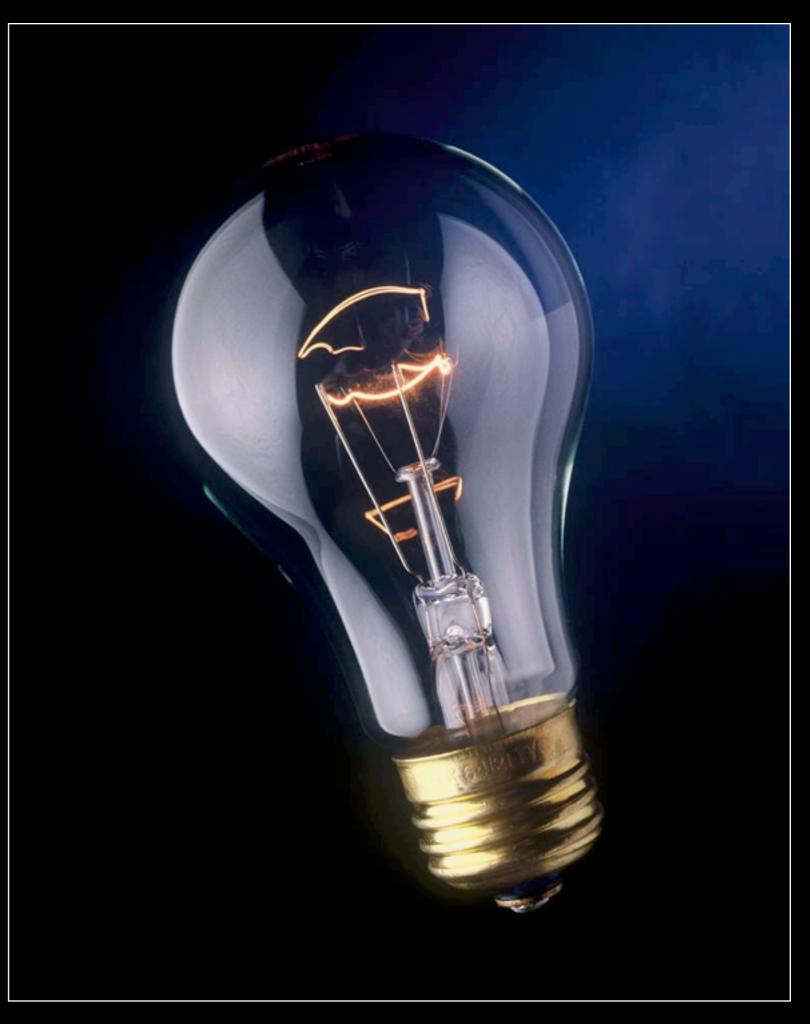
The intro class focused on two characteristics of light



these two:

Colour Quantity

Quality Direction



This class focuses on the other two.



these two:

Colour Quantity

Quality Direction



Current plan

all subject to change, naturally...

Session 1 :

Class project ideas. Review core concepts and fundamentals from intro classes. Manual Exposure.

Session 2 :

Looking at light; flash vs. continuous sources. Talk about how flash works with a focal plane shutter. How to show form with highlight and shadows.

Session 3 :

Low light photography lecture, talk tripods and cable releases, light painting. High ISO and low ISO situations at night.

Session 4 : Night Photography session on location.

Session 5 :

Storytelling. Developing a creative vision. Review night photography images.

Session 6: Mixed media workshop (part 1)

Session 7:

Mixed media workshop (part 2)

Session 8:

Sharing the final projects and review of materials covered.

Embrace the Shake!

Looking at Composition

Working in an area that's approximately 10'x10'x10' or 3mx3mx3m create 20 unique images.

Each image should have the correct exposure, white balance and focus. Try to make each image in the series consecutively. All 20 images will be shared on class 8

Looking at the colour of light

Create 10 images of objects that are lit with unique sources of light.

Set the camera to daylight white balance for all images regardless of the colour temperature of the source.

Avoid photographing just the light source, for example: use a candle to light an object rather than photographing a candle.

Looking at looking

Create 26 images of objects or shapes or forms that can be interpreted by the viewer as letters of the alphabet

Try to make 26 images of found subjects that can be composed and interpreted to represent the letters of the alphabet. Try to limit the images to existing structures rather than constructed structures.

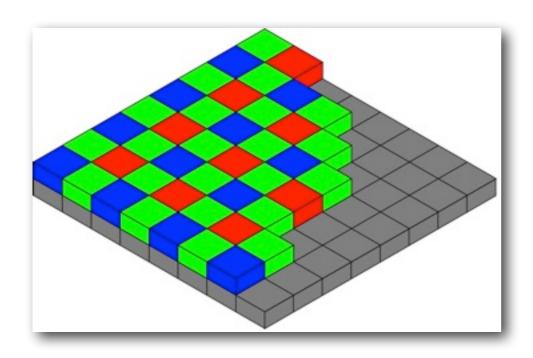
Documenting a day

Form a story around a subject's day

Following a subject through a (24 hour period, or a bit less, don't need sleeping photos...) create a narrative photo essay of the individual and the activities. Edit the series to 20 photos that you will share with the class.

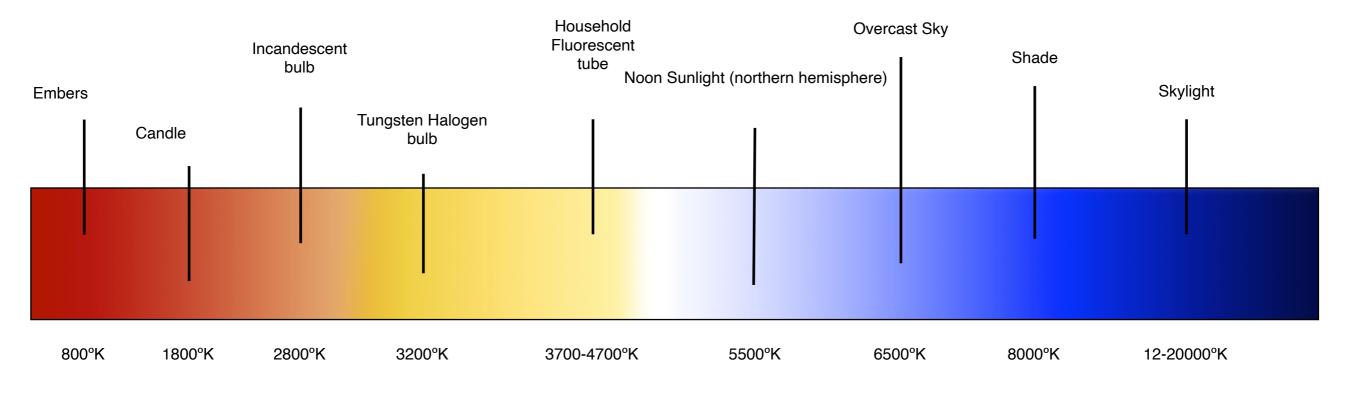
Consideration Checklist

What colour is the light?

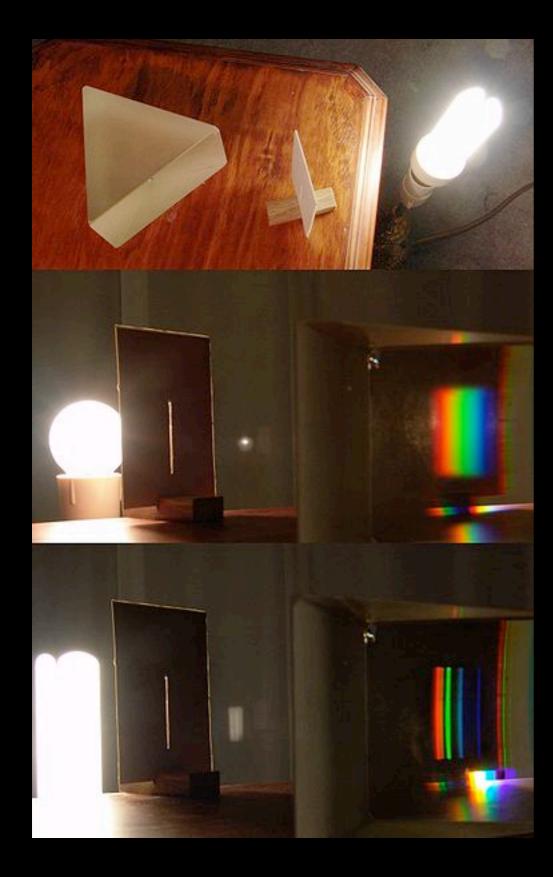


Recording Colour

Typical Bayer sensor array



A range of colour temperatures





White Balance



Daylight





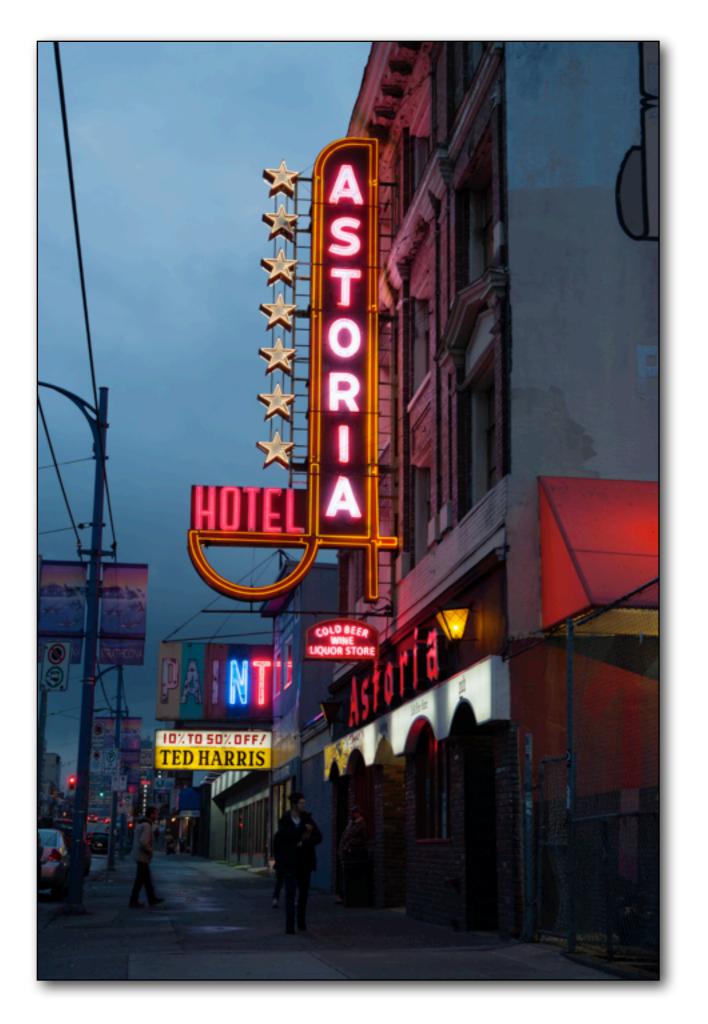


Tungsten

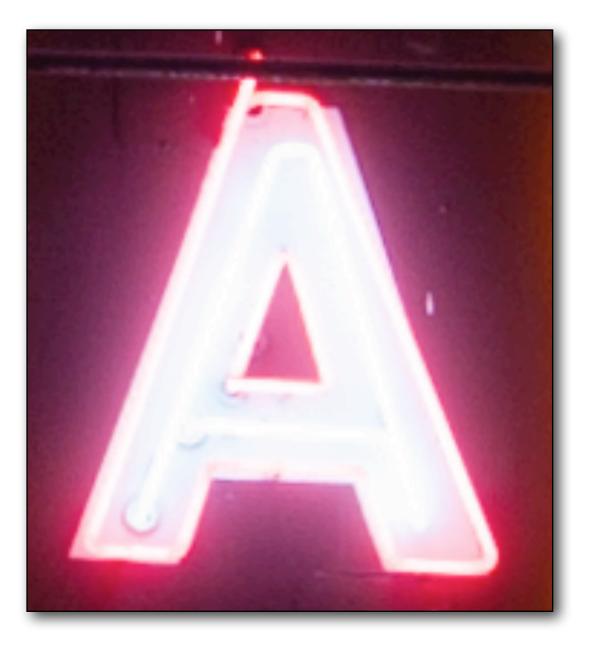


Auto

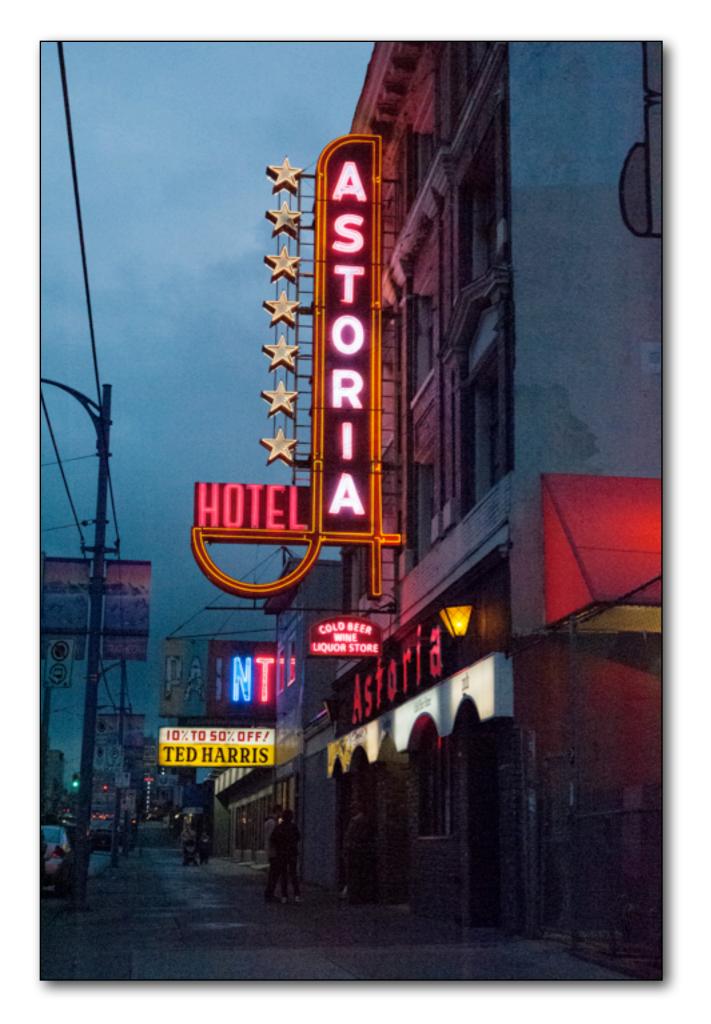
How much light do I have?



ISO



200 ISO



ISO



12800 ISO

What lens do l want to frame with?

SLR Camera Lenses





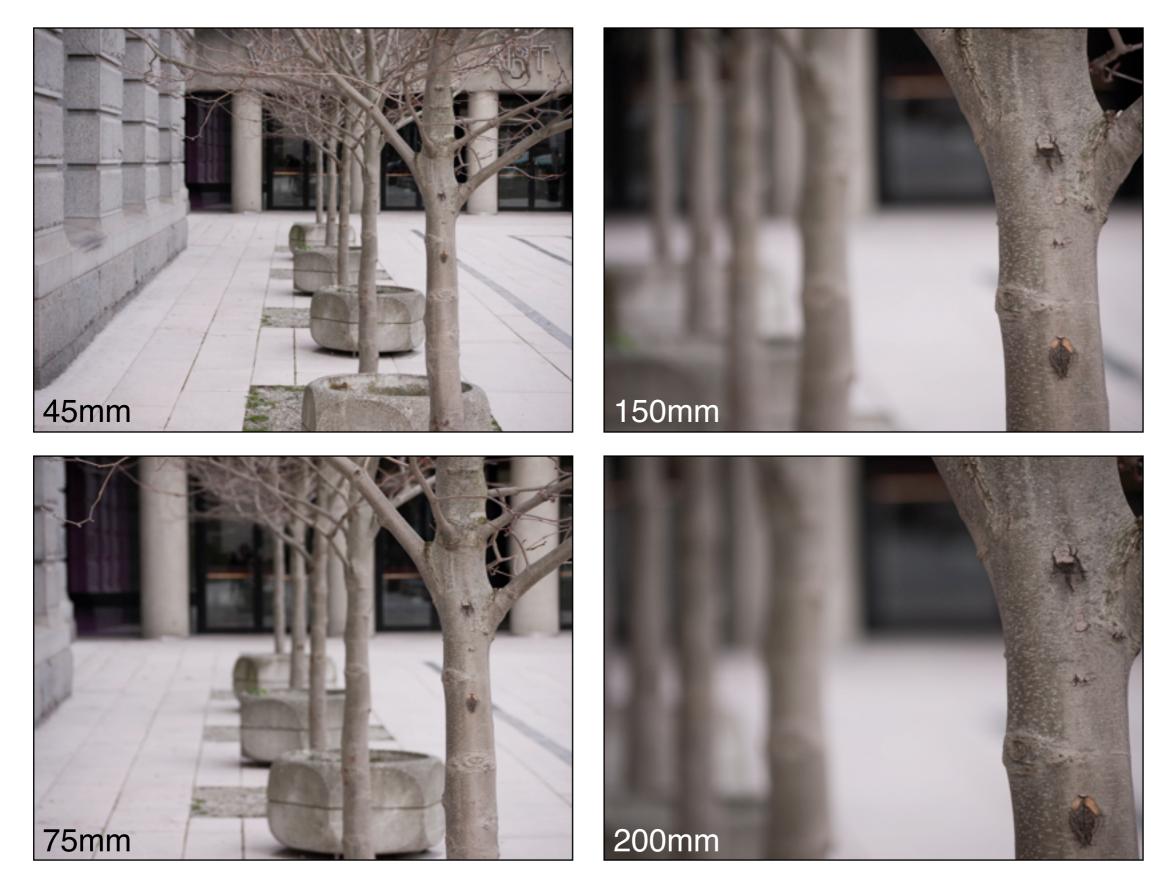


Fixed Lenses: (also called 'prime lenses')

28mm Wide-angle 50mm Standard 85mm Portrait 200mm Telephoto Zoom Lenses:

Specialty Lenses:

17-35mm Wide-angle 28-70mm Standard 70-200mm Telephoto 28-300mm Long Range Tilt Shift Lenses Macro Lenses Fisheye Lenses Ultra-Wide/ Long Lenses



All of the exposures were made at f5.6 from the same spot. Angle of view changes, perspective does not.

Lens Behaviour

Wide Angle



Telephoto



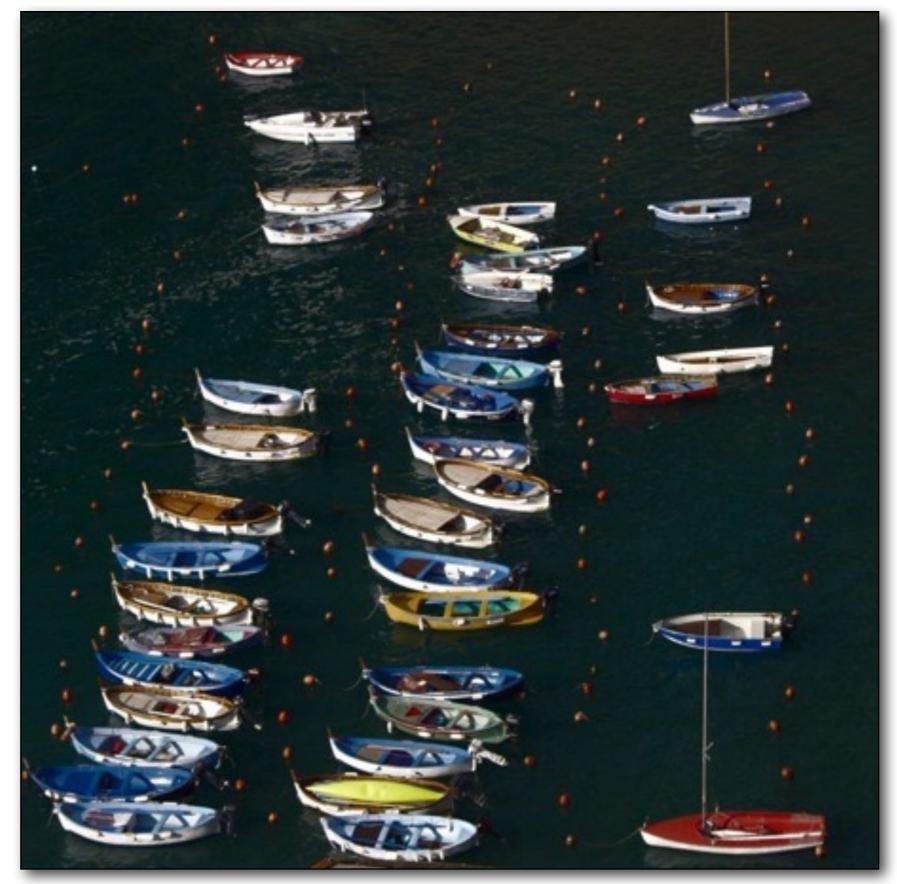
Expansion

Compression

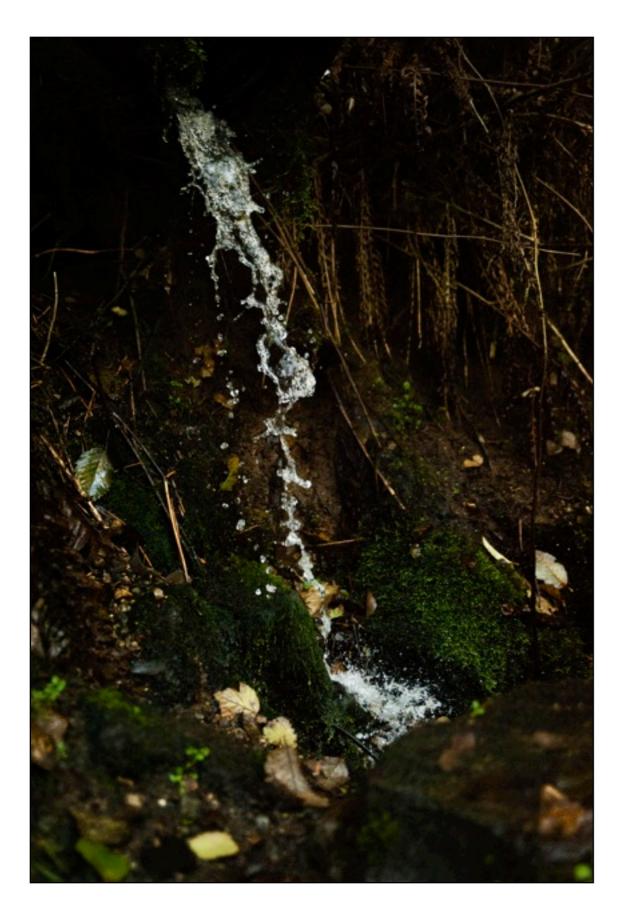


expansion

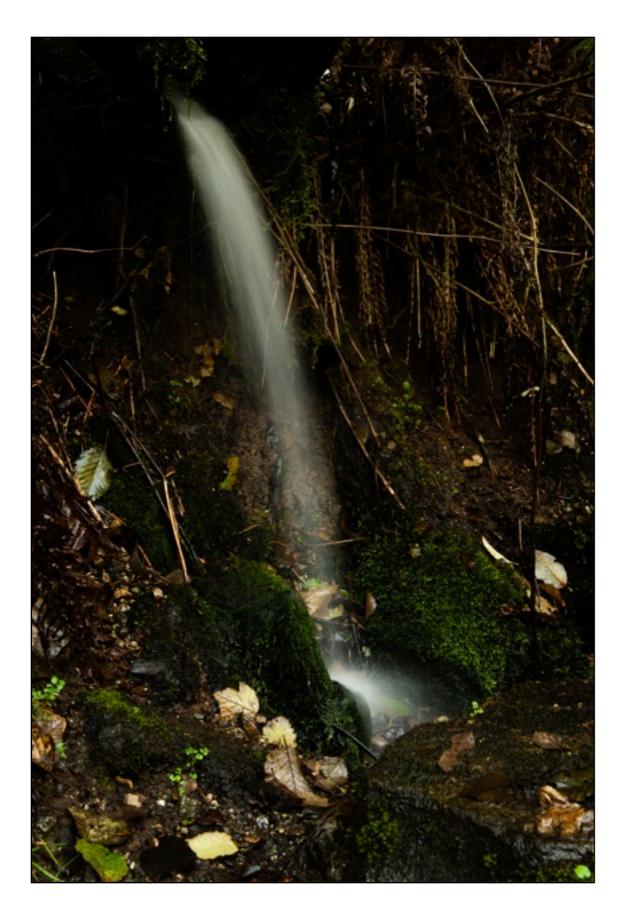
compression



Is my subject moving or still?



Fast Shutter Speed I/1000 second



Slow Shutter Speed 2 seconds

Perhaps Panning...

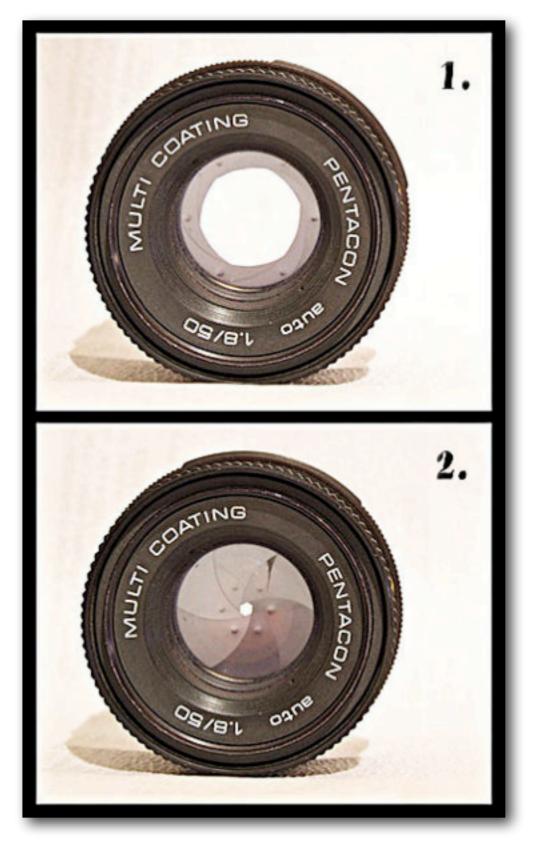


1/20 second f5.6 ISO 200

Subject isolation, or deep depth of field?

Aperture and the circles of confusion

Aperture



f:4.0

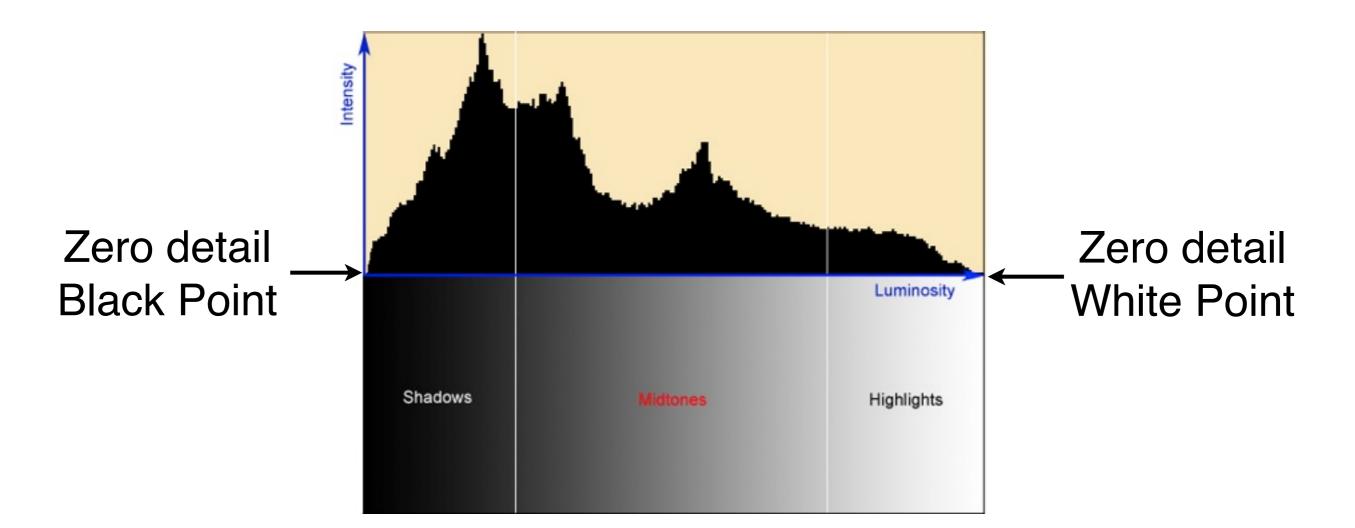
f:22

Aperture f:2.0



Confirming the Exposure

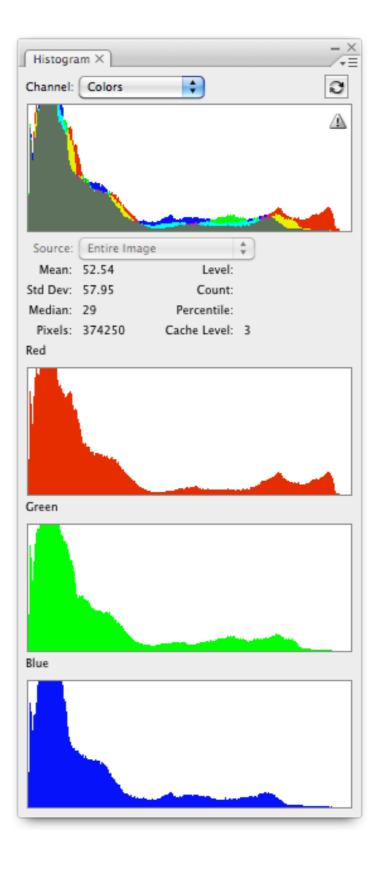
Exposure and the Histogram

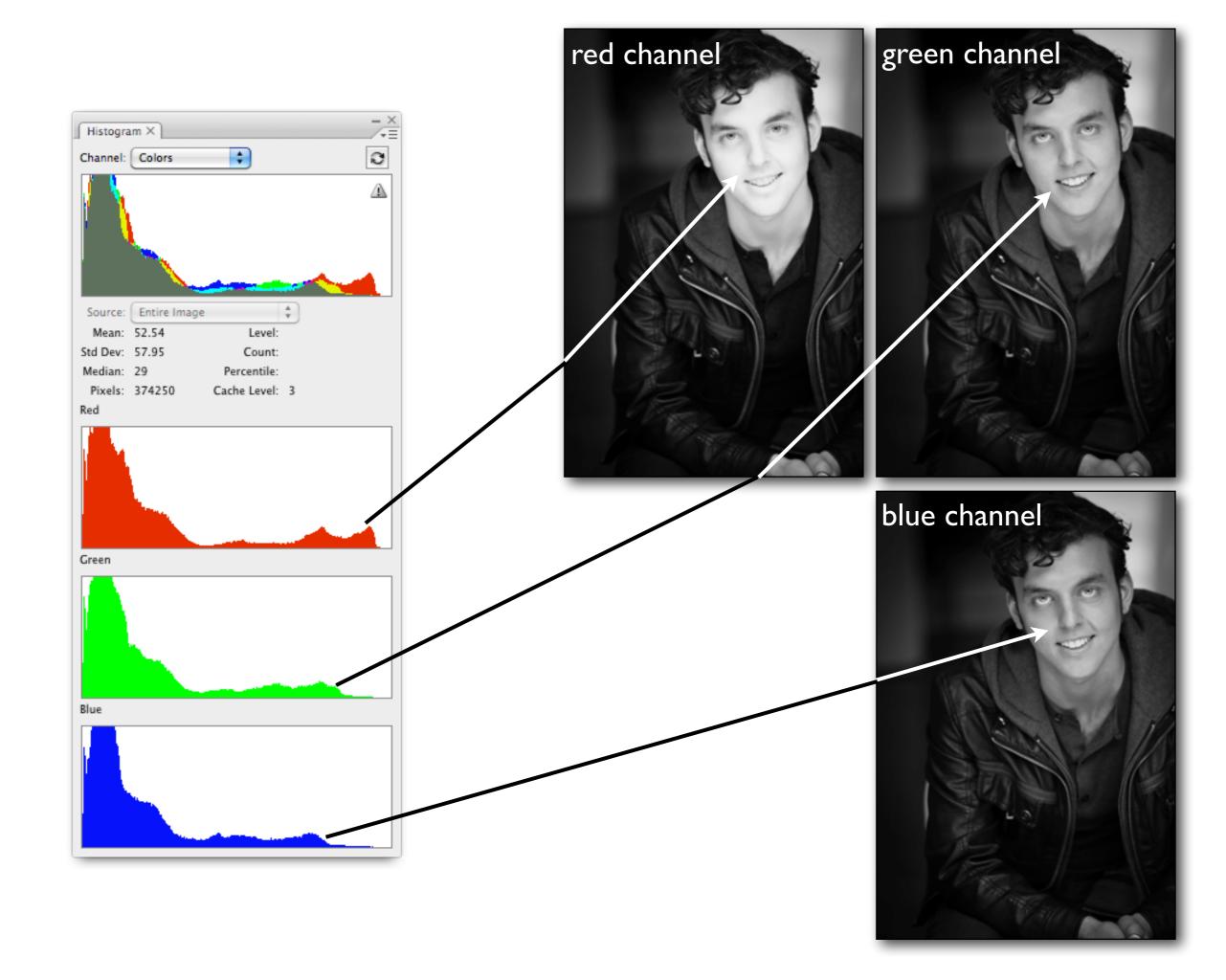


The histogram can be used as a visual indication of correct exposure when viewed in concert with the scene being photographed.

No such thing as an ideal histogram for all situations.

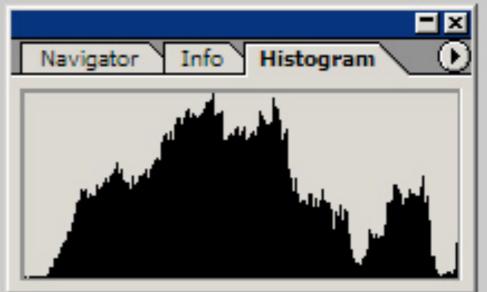




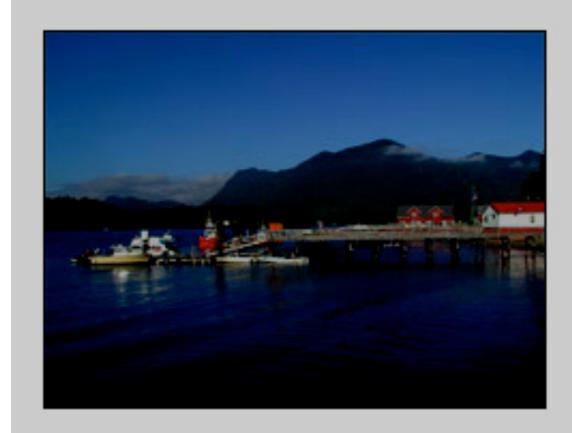


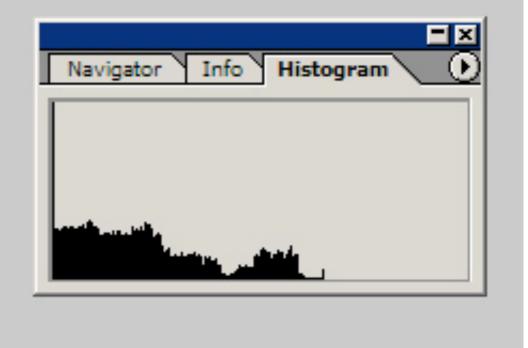
Reading a Histogram Normal Exposure



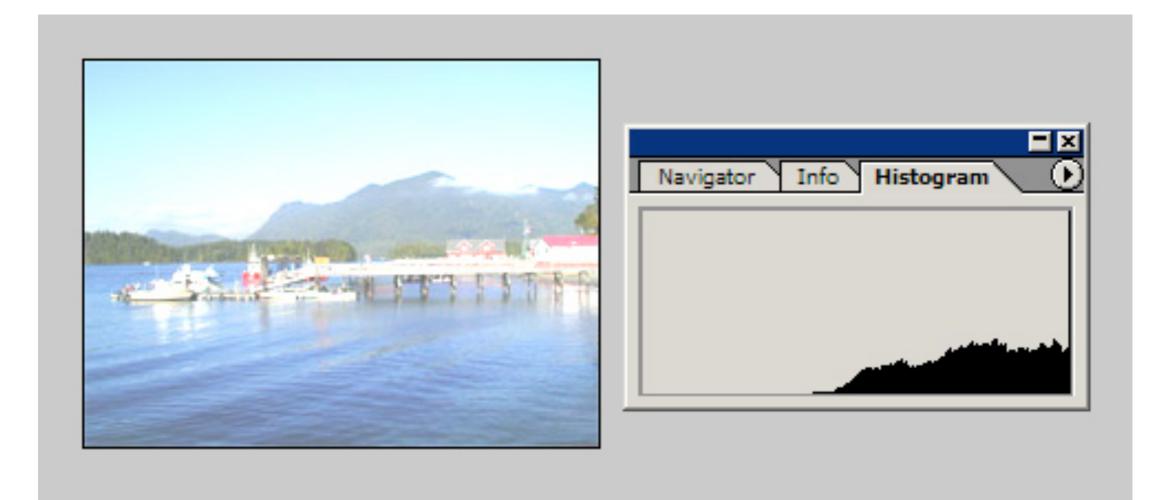


Reading a Histogram Under Exposure





Reading a Histogram Over Exposure



Exposure Compensation for lighter or darker than average scenes

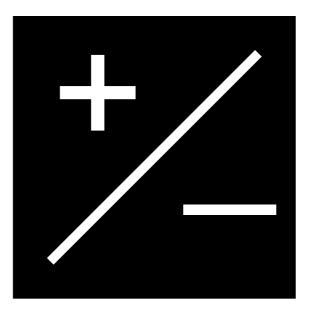
spotlit scenes 11



objects on a black field

scenes with shadows

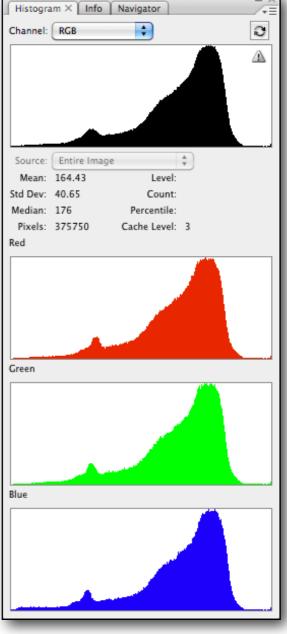
Scenes that include a bright light



Exposure Compensation Settings

The exposure compensation adjustment usually indicated by a +/symbol on the camera is a method of increasing or decreasing the amount of exposure in the program or semi automatic exposure modes. It's used in scenes that would be problematic for the metering system to achieve the correct exposure; backlit or spotlit scenes, or scenes where the tones are predominately lighter or darker than 18% grey.

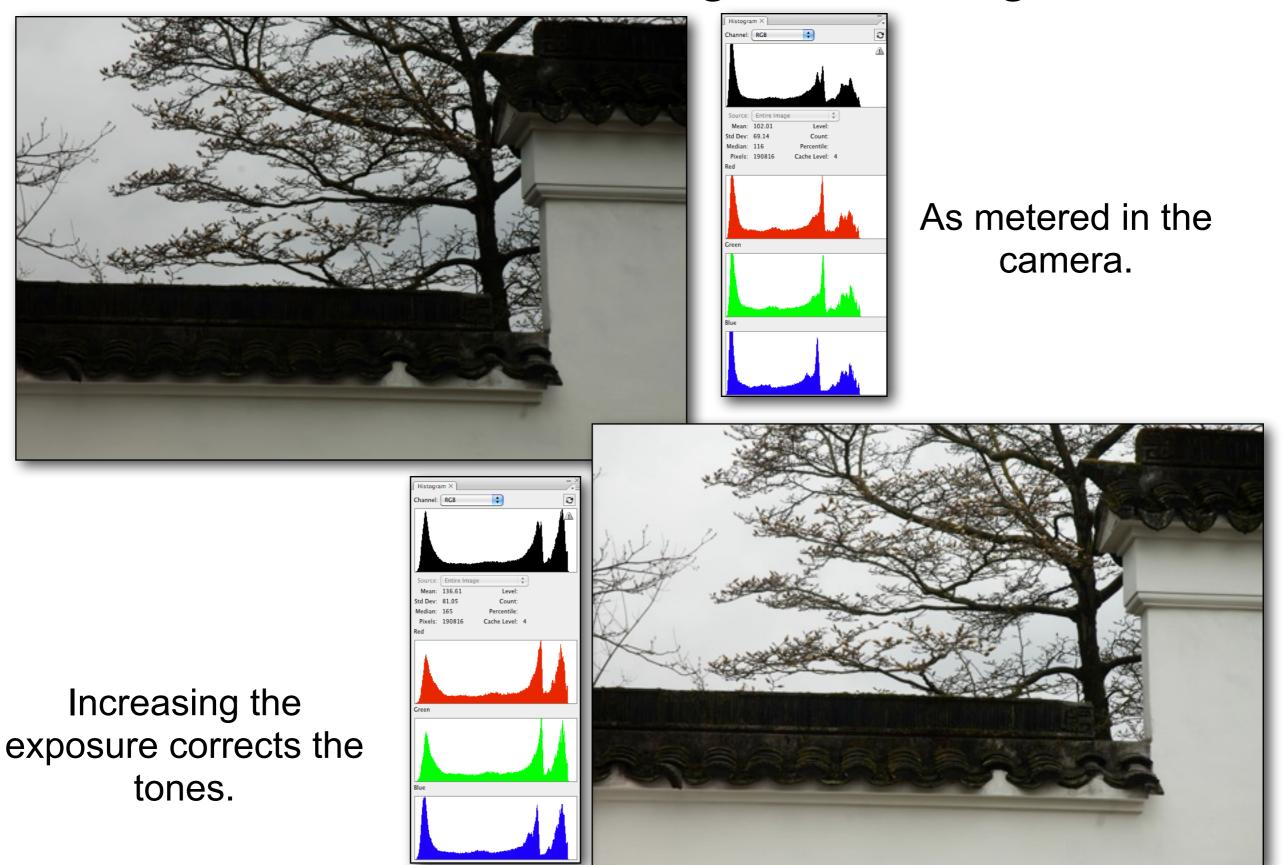


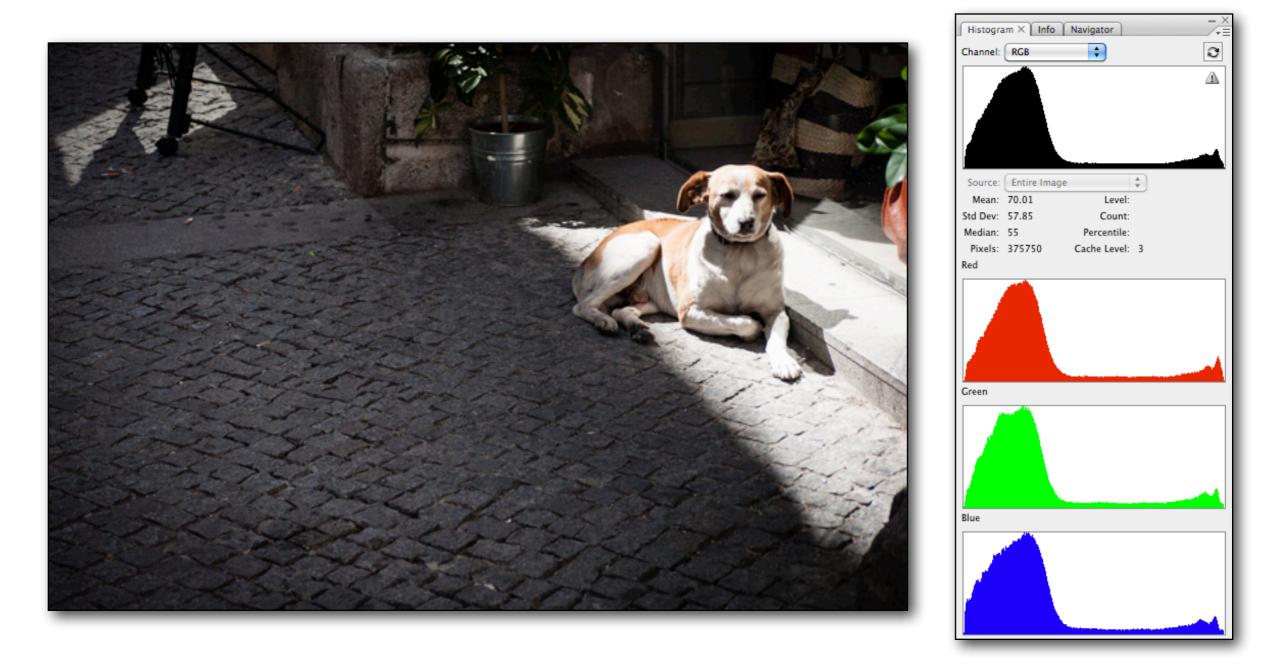


This white wall reflects more light than 18%. The meter will give an exposure that is too dark.

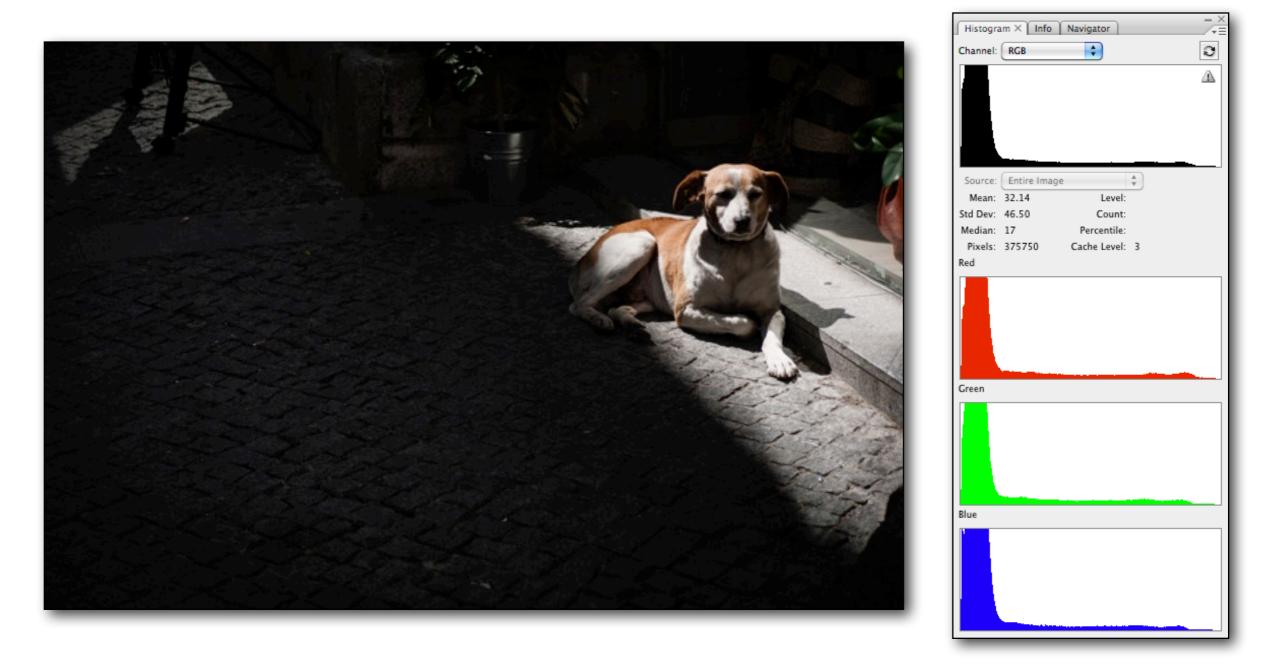


+1 stop exposure compensation makes the wall look brighter.



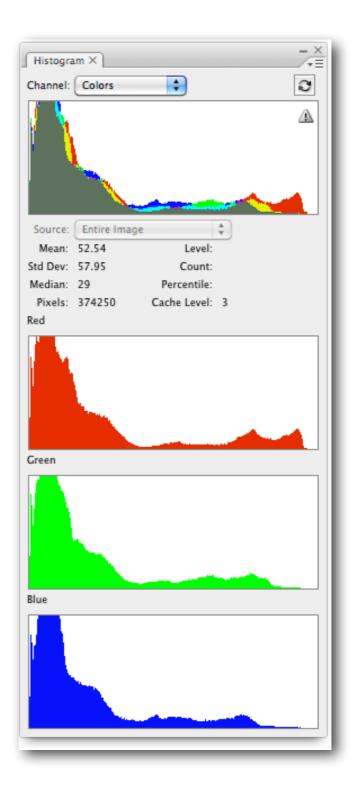


The dog is grey and tan the tones in this shadow should appear darker than 18% grey. The highlights are washed out. The meter gave an exposure that is too light.

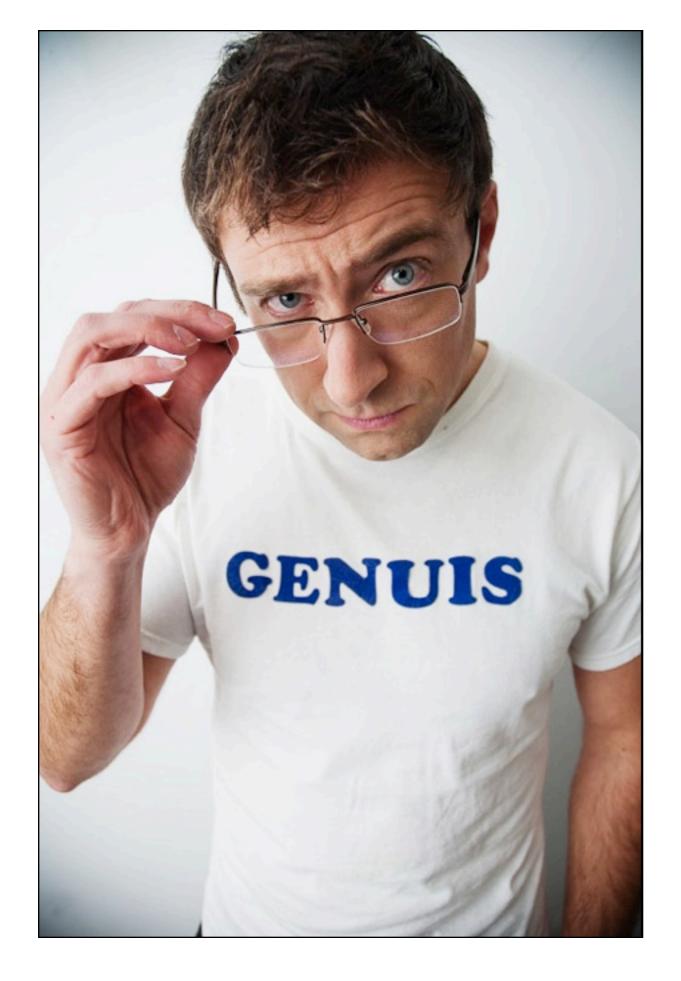


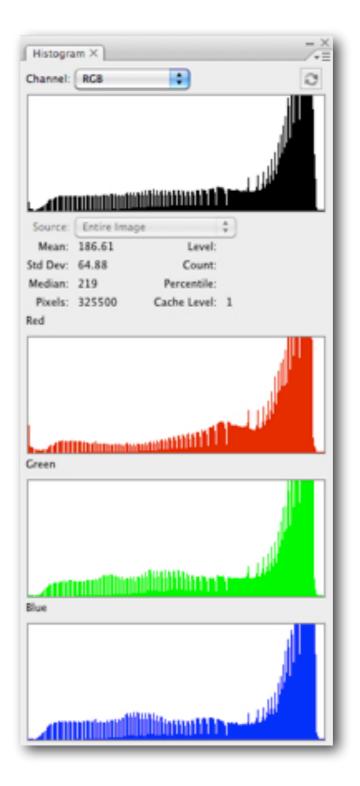
-1 1/3 stop exposure compensation makes the scene look darker and the dog less washed out.





Histogram of a primarily dark scene





Histogram of a primarily light scene

Metering Patterns



Your meter sees everything as 18% or middle grey.

centre weighted average





matrix, evaluative or multi segment

Manual Exposure



When we talk about "light meters" or "metering a scene", we are looking at this symbol (circled in red) in the view finder.

When the camera is set to "Manual Mode" this symbol will change as the camera is pointed at brighter of darker scenes or with changing reflectance of the subject.

In "A or Av", "S or Tv", or "Program" modes, the symbol won't change; the shutter speed, aperture, and / or both settings will change instead.





Exposure is the process of exposing the sensor to light

- determined by taking a measurement using a light meter
- is relative to a specific ISO
- is a combination of aperture and shutter speed to yield total quantity of light

Over exposure

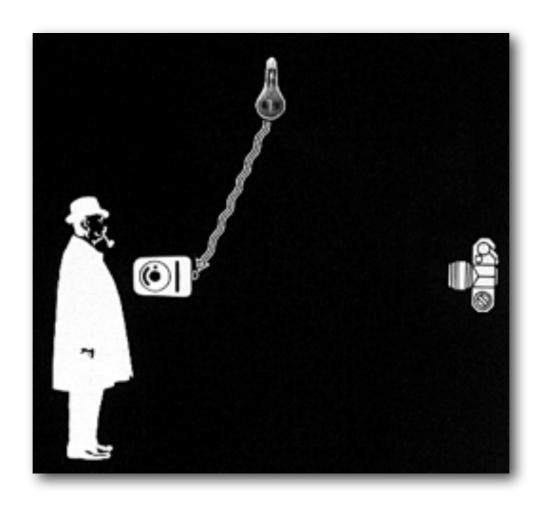
- means that too much light has reached the sensor
- image will appear washed out or too light possible information loss in the highlight areas (often called "blown out" highlights).

Under exposure

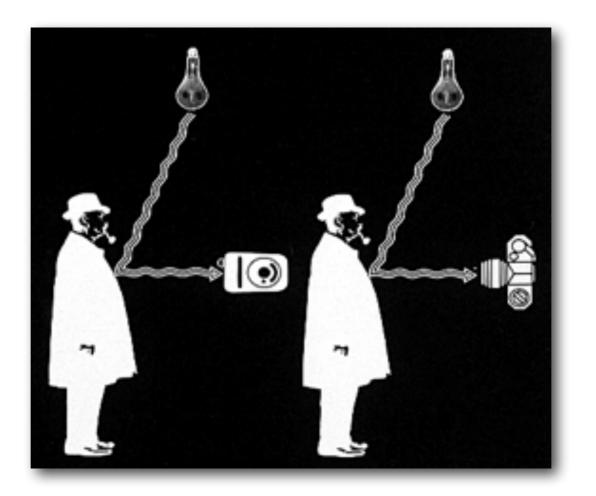
- means that not enough light has reached the sensor
- image will appear muddy or too dark
- shadow details might be lost (often called "blocked up" shadows)

Light meters or exposure meters, measure the quantity of light and translate that into a combination of f/stop and shutter speed to give the correct exposure based on the ISO (sensitivity).



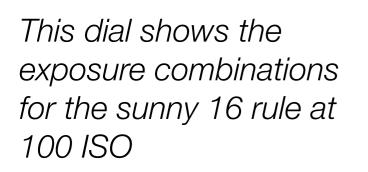


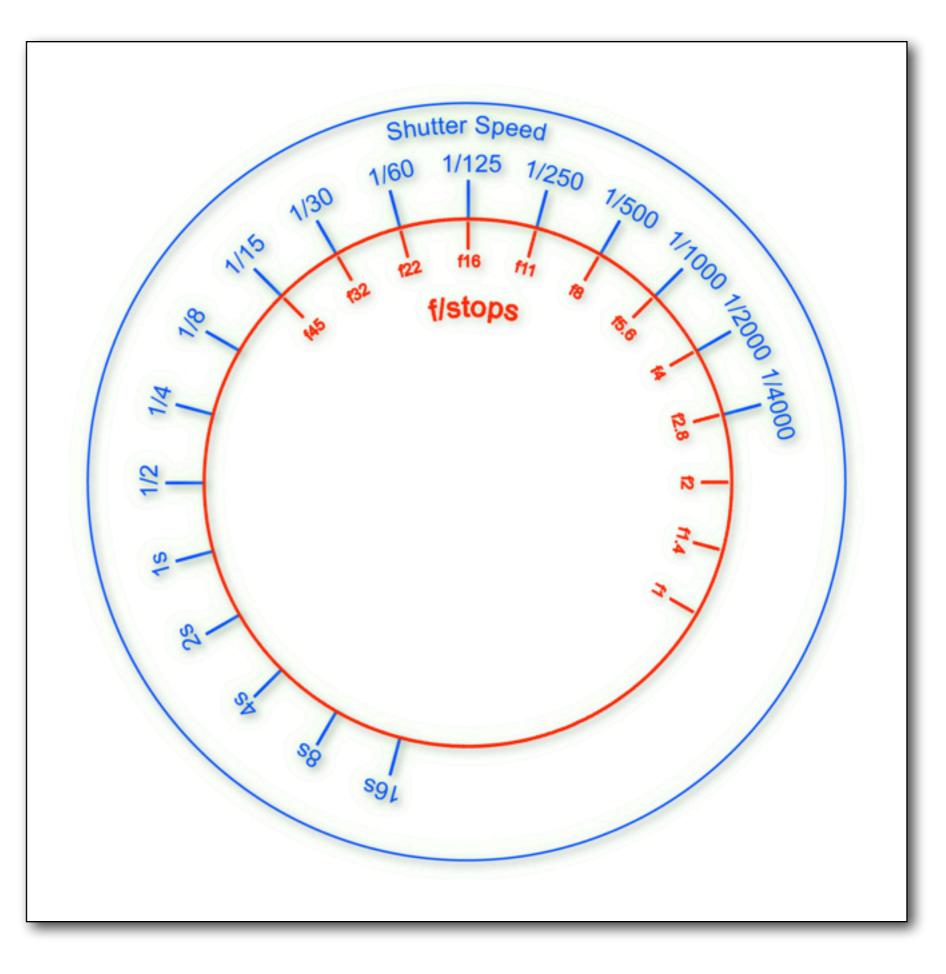
Incident Meters measures the light FALLING ON your subject. The measurements are NOT influenced by a subjects colour and reflectivity!



Reflective Meters measures the light REFLECTED from your subject.

Measurements **are influenced by a subjects colour and reflectivity**, which will result in changed readings even if the relative amount of light falling on the subject does NOT change.





Shutter and Aperture Relationship

