

Exposure
Histograms
Exposure Compensation
White Balance

3 Elements of Expoure

Aperture
(f-stop)

Shutter
Speed



ISO

Metering

(Nothing is Perfect)



18% Grey

Metering Systems

Evaluative/Matrix Metering

Most common/default system. Uses matrix to evaluate entire scene. Emphasis on focus point (not center).

Center-Weighted Average Metering

Averages whole scene, but emphasizes center focus point only. Pressing shutter half way locks metering and focus.

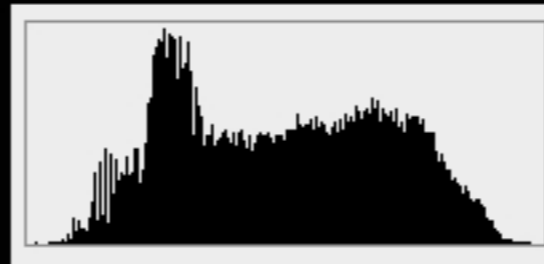
Spot and Partial Metering.

Reads small area from center of frame, ignores rest of scene.

Histogram

Represents exposure level

Indicates over- and/or under- exposure



Histogram

Keep graph within edges

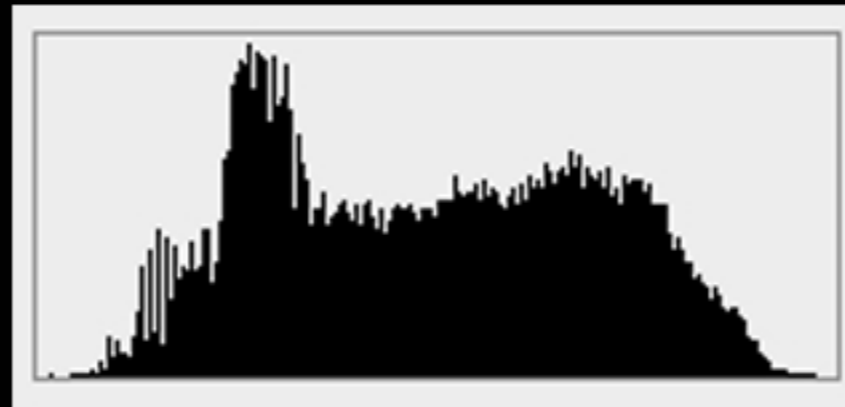
Left shows dark

– beyond edge pure black, no detail

Right shows light

-- beyond edge pure white no detail

Shape not important

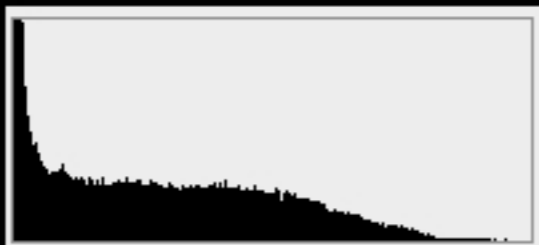


Dark

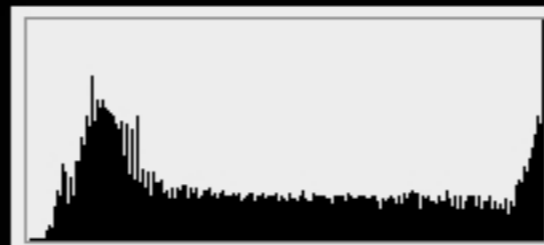
Mid

Light

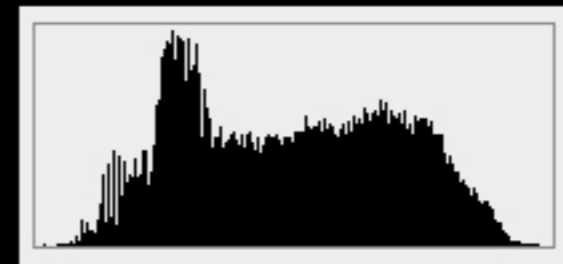
Histogram



Under Exposed

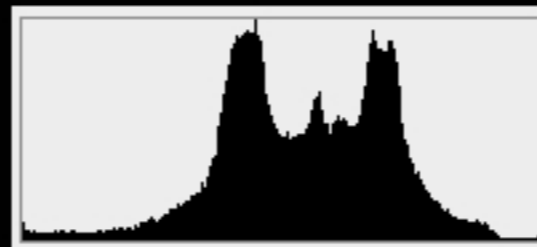


Over Exposed

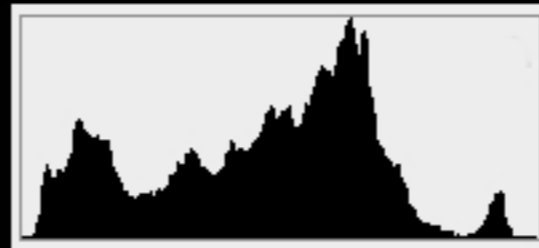


Correctly Exposed

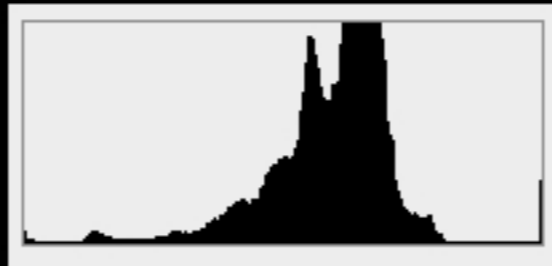
Histogram



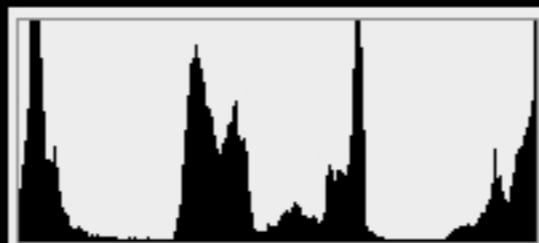
Histogram



Histogram



Histogram



Exposure Compensation & Bracketing



Under Exposed



Over Exposed



Correctly Exposed



Exposure compensation lets you manually adjust exposure

Automatic Exposure Bracketing

Lets' shoot 3-4 shots ranging from
under exposed to correctly exposed to over exposed.

White Balance

White balance adjusts color temperature to make colors appear natural

Colour Temperatures in the Kelvin Scale

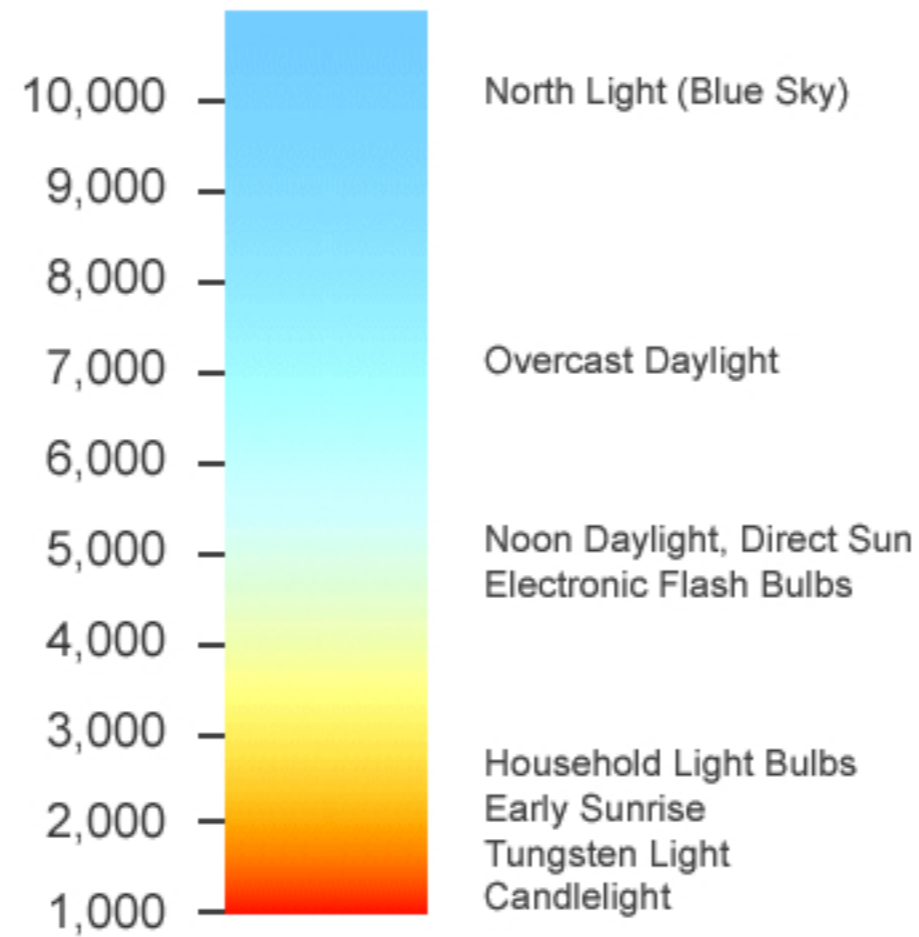


Image courtesy of www.mediacollege.com



Cool



Natural



Warm

White Balance Controls

AWB

Auto – Camera decides. Works well in most situations



Tungsten – Use indoors. Standard lightbulbs (tungsten) have yellowy cast. “Tungsten” setting adds a little blue to cool color down. Light bulb symbol.



Fluorescent – Fluorescent lights cast a greenish tint. This mode adds magenta to neutralize green. Fluorescent bulb..



Daylight/Sunny – Compensates for midday light. Adds warmth.



Cloudy – Adds warmth. More than “Daylight” setting, but less than “Shade.” Try with sunsets.

Shade – Warms up image. Adds more warmth than “Shady.”



Flash – Flash light is cooler than daylight. Warms up image. Similar to Shade setting.

What to do about White Balance

- Leave on AWB – Auto
Auto works well in most cases
- If you notice funny tinge to images, adjust white balance
- RAW shooters can adjust white balance during processing