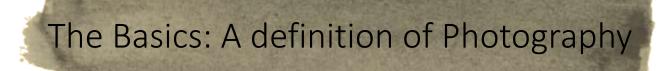


Technical Skills you will need for your A Level

Week 2: Using the camera in PROGRAM & MANUAL





- But how do we do it?
- How do we 'paint with light'?

Photography by definition translates as

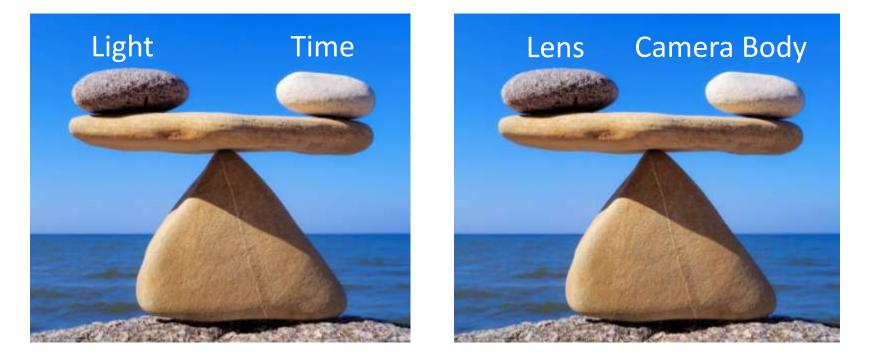
'light drawing'

As photographers we literally

'draw' or 'paint' with light



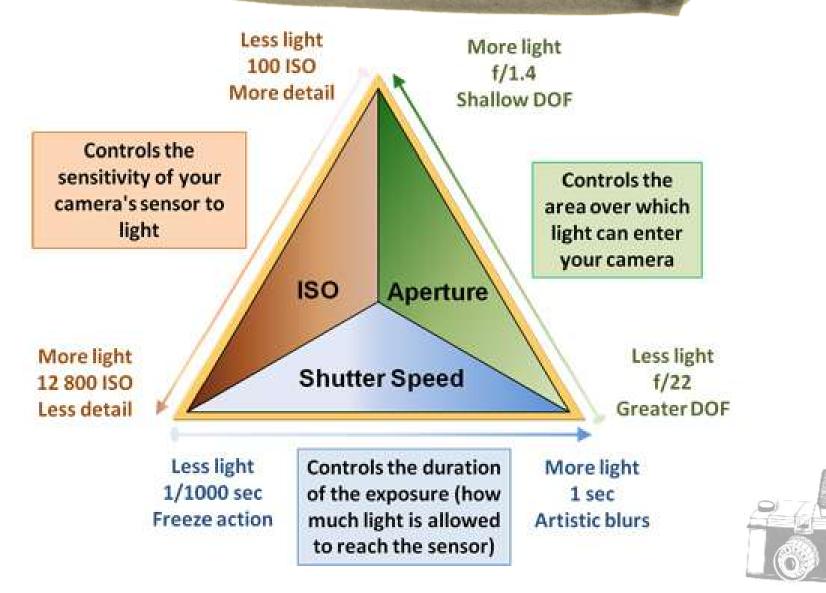
The Basics of Exposure: A fine balancing act



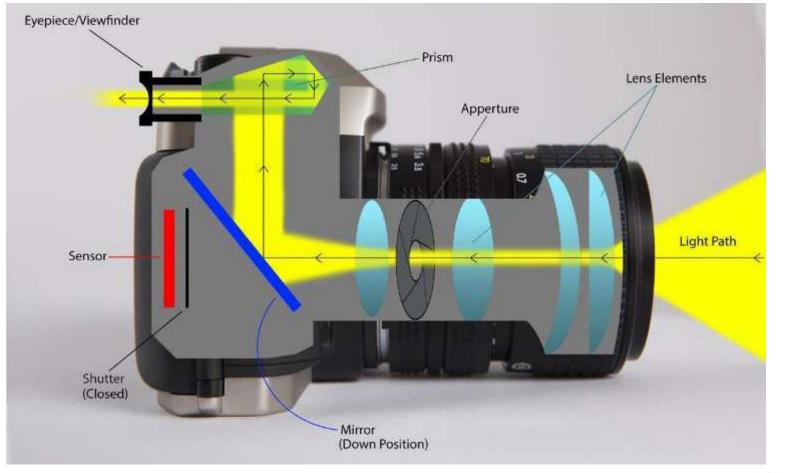
- The Lens allows *an amount of light* into the camera body
- The camera body allows light to pass onto a *light sensitive material* e.g. Film or digital censor



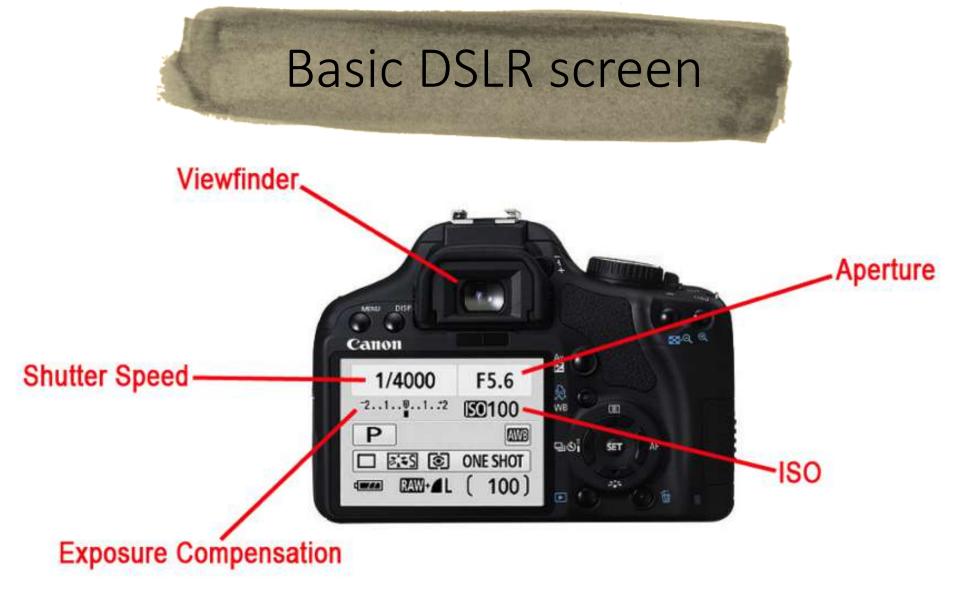
The Basics of Exposure: A fine balancing act



Internal Diagram DSLR

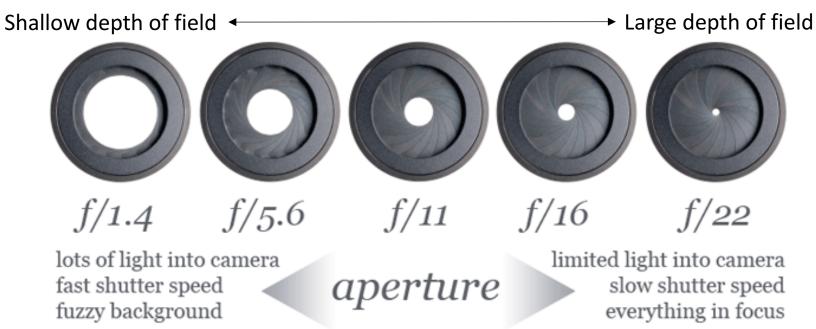












The amount of light that passes through the lens and into the camera body is

determined by the size of the aperture

Apertures are referred to as **F/Stops**

F stands for 'Focal Length'



What is depth of field?



f/1.8





f/4.0



f/5.6

f/16

f/22

Aperture Adjustment Sequence – Depth of Field



Large Depth of Field:



Gregory Crewdson



Andreas Gursky





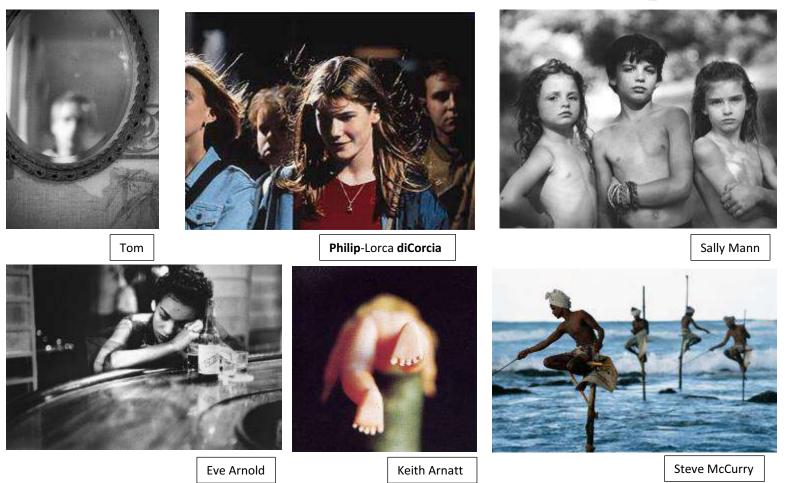


Ansel Adams

Large Depth of Field: You can use a small aperture large (f) number i.e. f16/ f22 so that the fore, mid and background are all in focus.

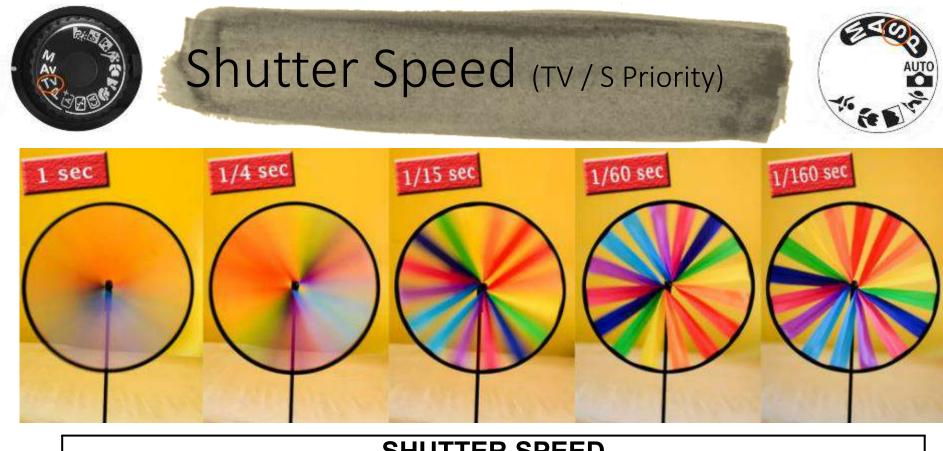


Shallow Depth of Field:



Shallow Depth of Field: You can use a large aperture small (f) number i.e. f2.8 / f3.5 to focus on only one section of the fore, mid and background so the rest of the image is out of focus.





SHUTTER SPEED												
В	1	1/2	1/4	1/8	1/15	1/30	1/60	1/125	1/250	1/500	1/1000	
	SHOWS MOVEMENT								► FREEZES MOVEMENT			
	SLOWERSPEED								FASTER SPEED			
Ν	<u>10</u> F	<u>RE EXF</u>	POSUE	<u>RE TIN</u>	1E	LESS EXPOSURE TIME						

Shutter speed is the length of time the shutter remains open.

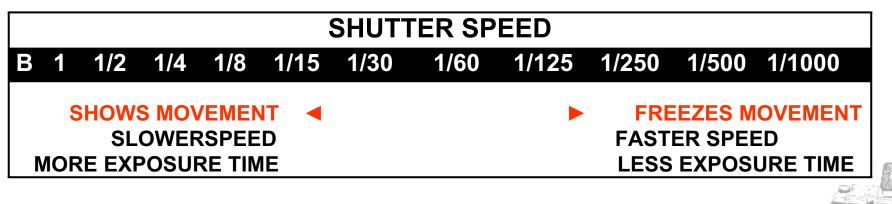
Shutter speed is also referred to as 'exposure time'.

The Shutter speed is measured in seconds and fractions of seconds.

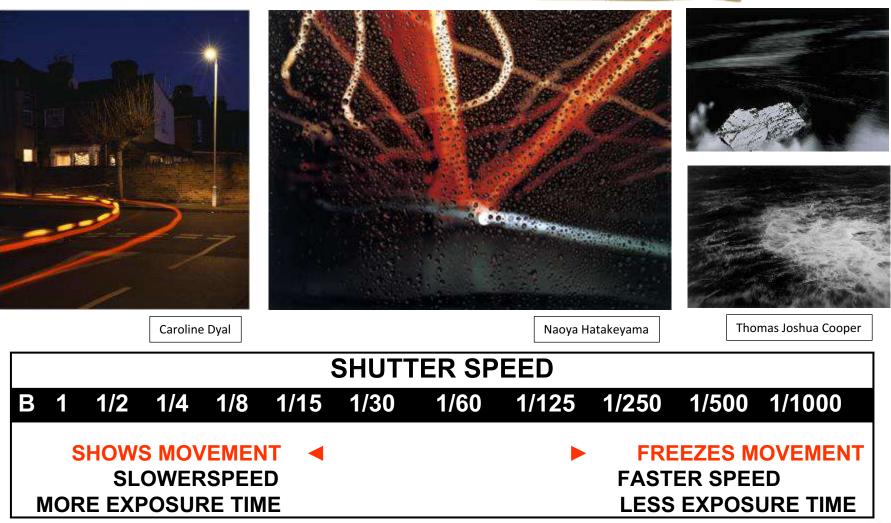


Fast Shutter Speeds





Slow Shutter Speeds



Important to remember that you cannot use a slower shutter speed than 1/30 whilst handholding the camera, otherwise you will get camera shake.



Use a tripod to avoid camera shake







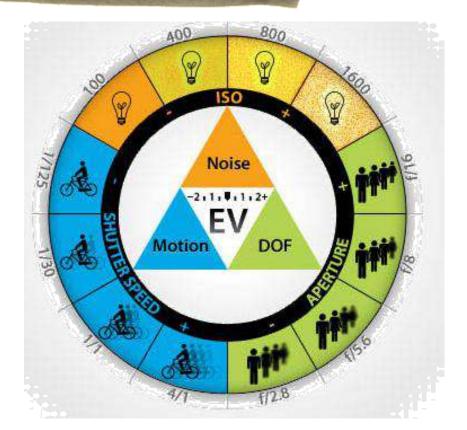
Working together in Manual

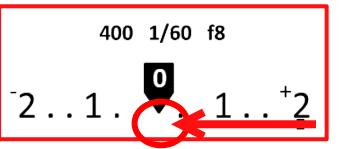
Manually you set both the shutter speed and aperture to you preferred settings.



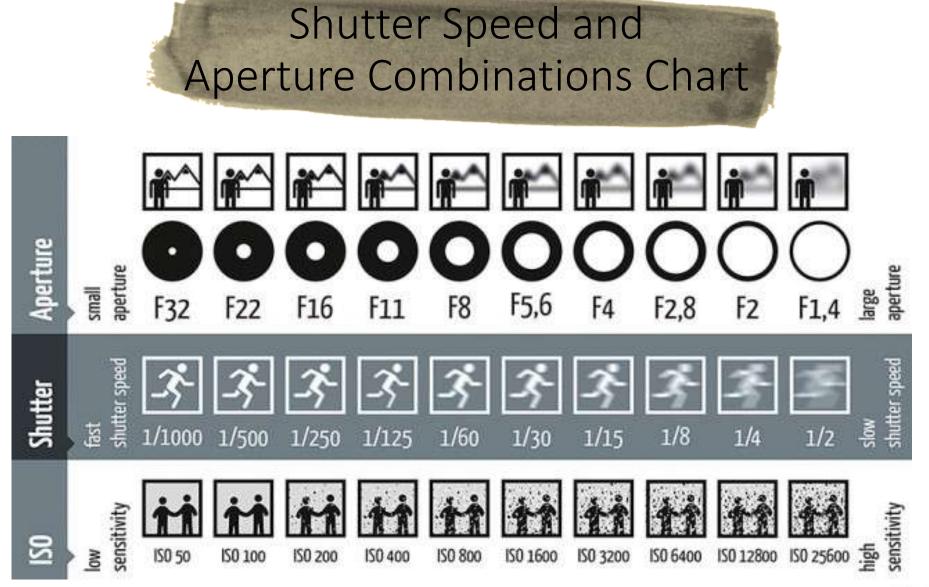
The light meter indicates the best exposure





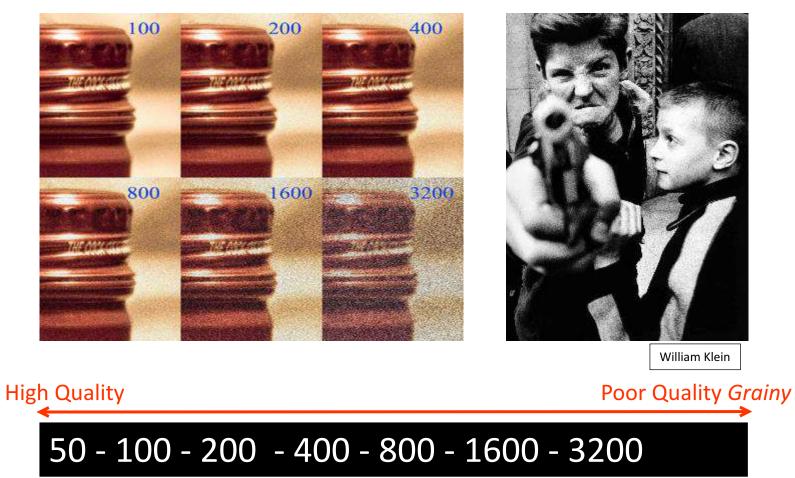












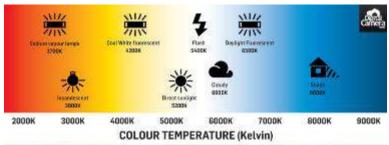
bright light conditions

low light conditions

ISO measures the degree to which the camera sensor is sensitive to <u>light</u>.



White Balance













Ryan McGinley

