



# CONTROLLING EXPOSURE

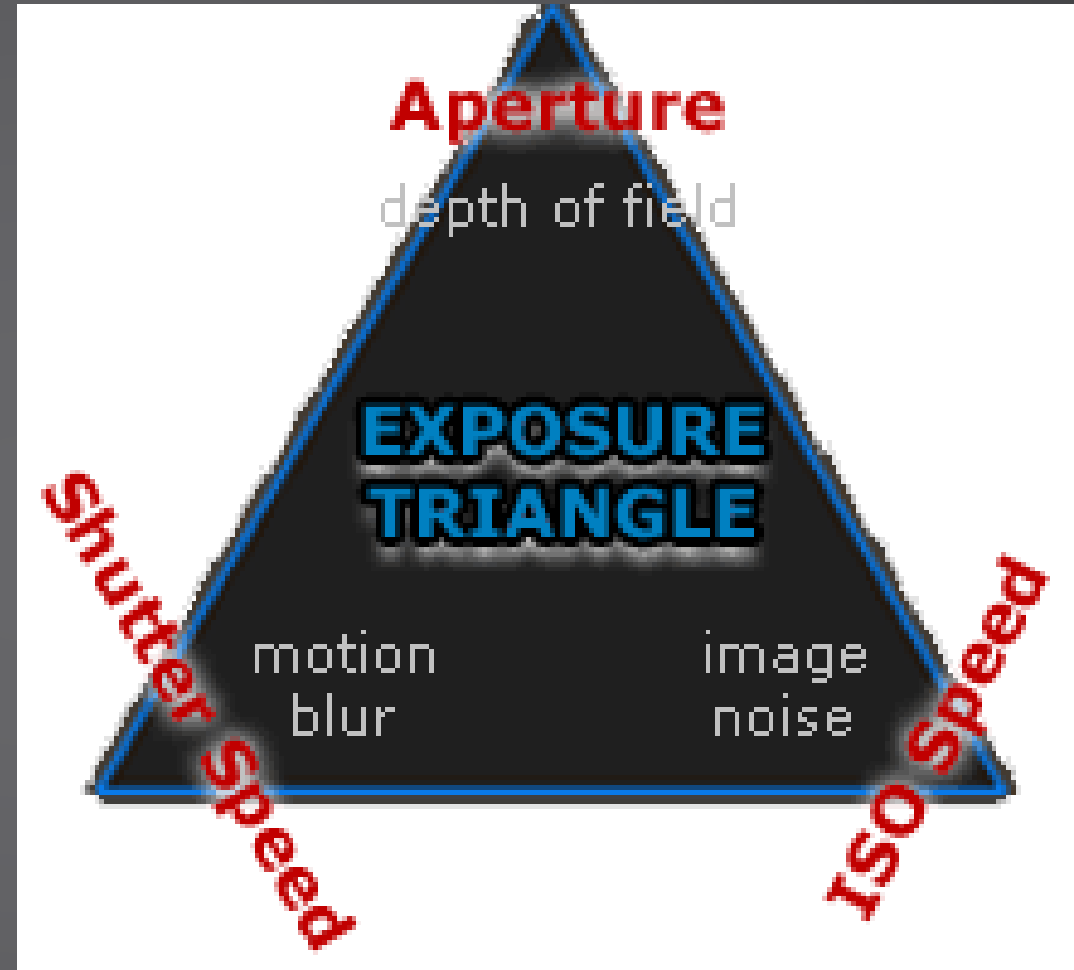
Ian Homewood & Julie Pigula



# What is exposure?

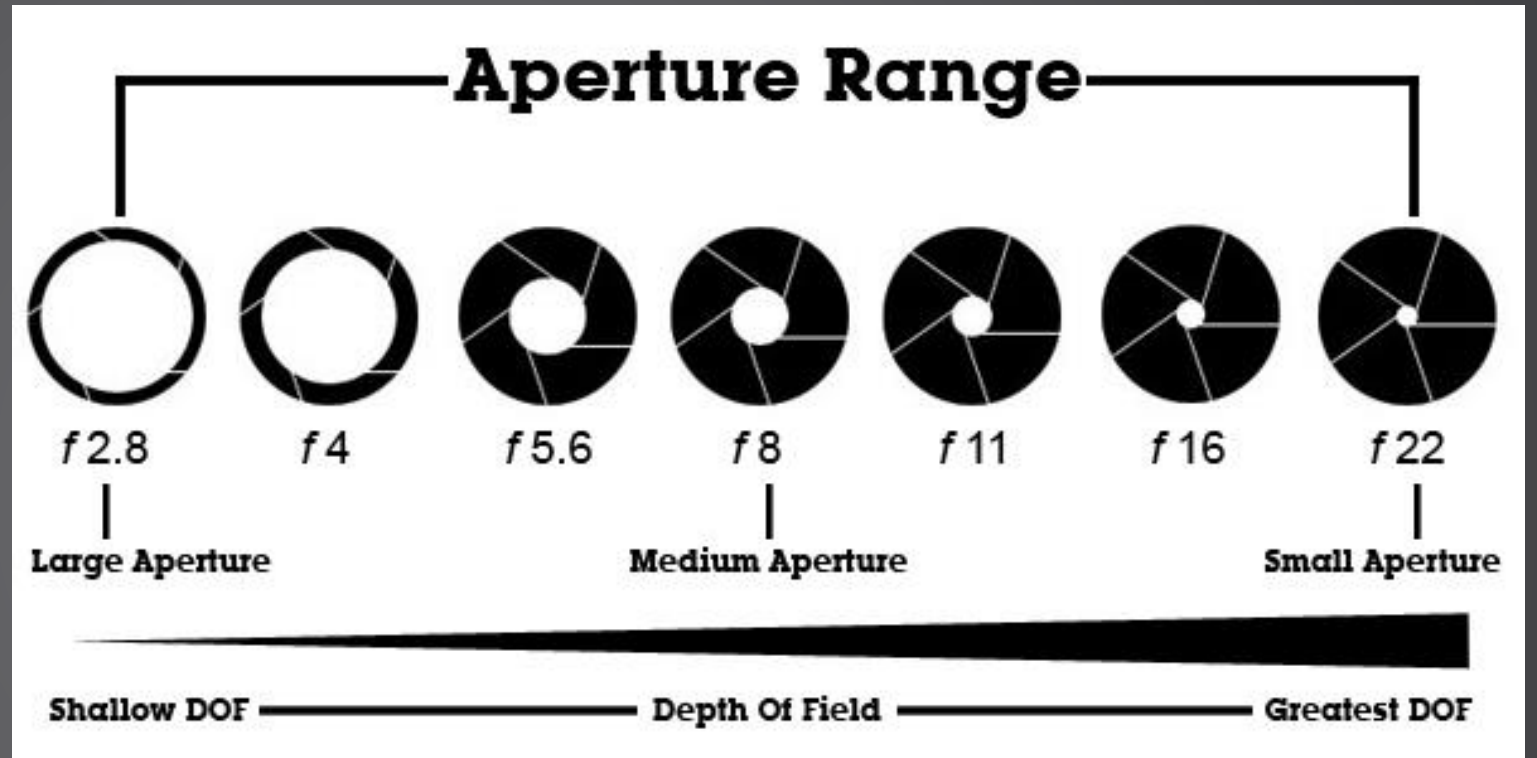
In digital photography, exposure is the unit of measurement for the total amount of light permitted to reach the electronic sensor during the process of taking a photograph.

What factors  
affect exposure?



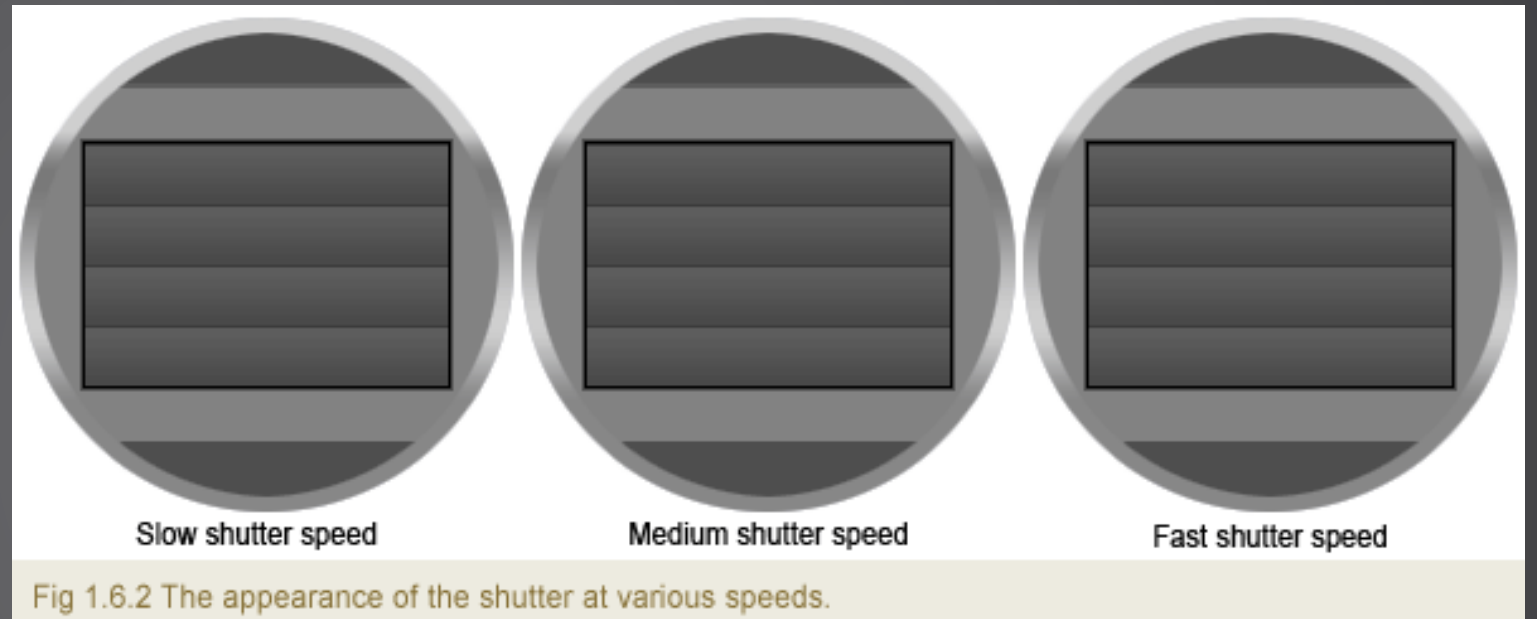
# Aperture

(related to diameter of opening in lens iris)

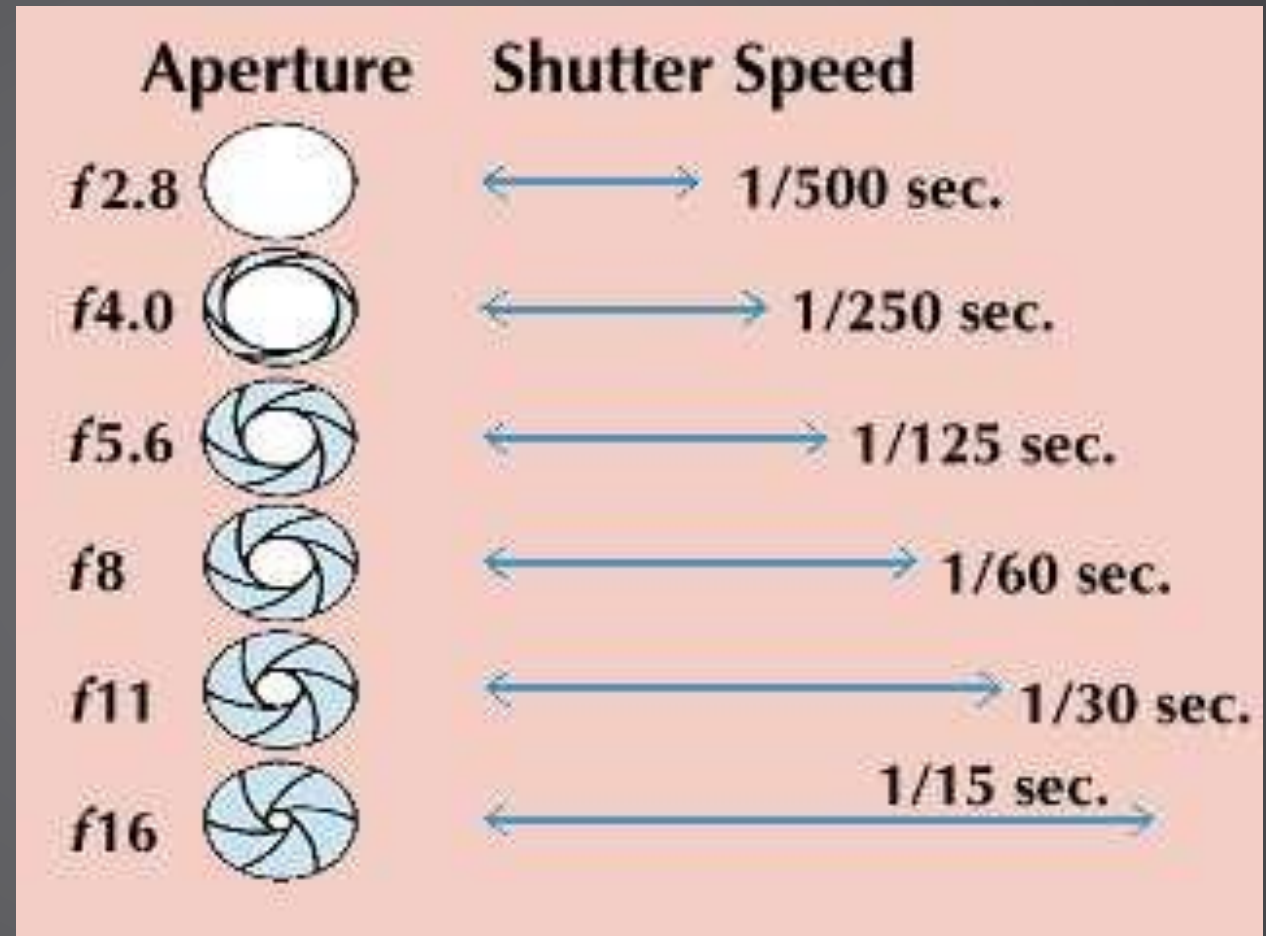


# Shutter Speed

(time for which shutter curtains remain open)

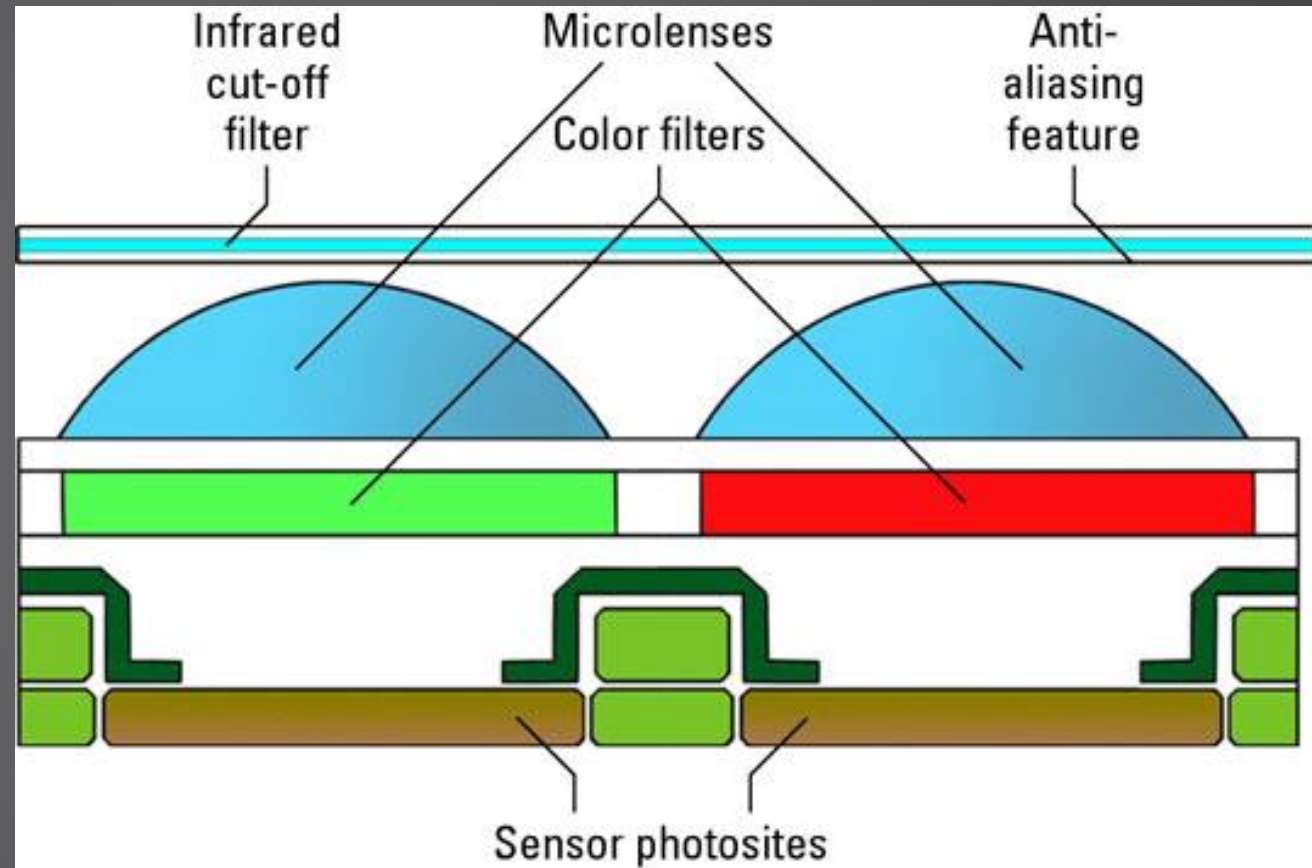


# Relationship between Aperture and Shutter Speed



# ISO

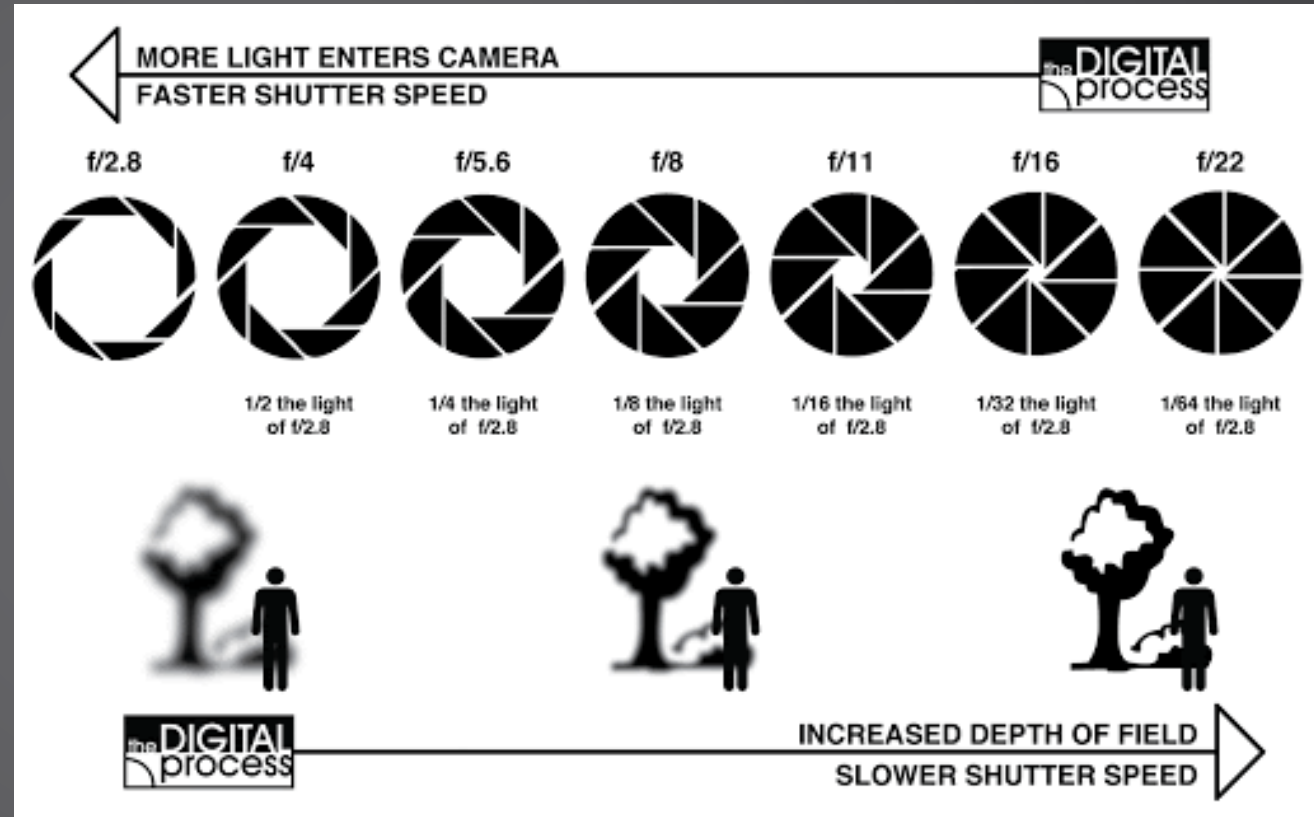
(Sensitivity of the sensor)





# Aperture Priority (A/Av)

(Aperture manually controlled, camera determines shutter speed)



# Shutter Priority (S/Tv)

(Shutter speed manually  
controlled, camera determines  
aperture)



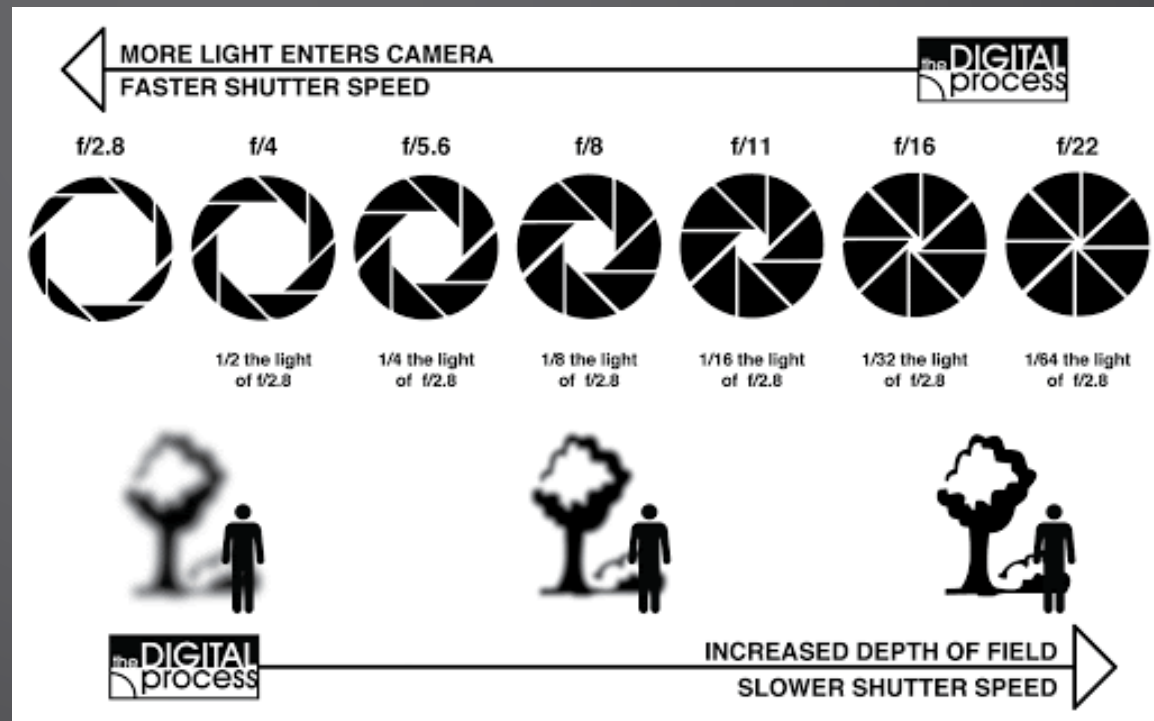
# S/T<sub>v</sub>

Use when you want to control movement blur



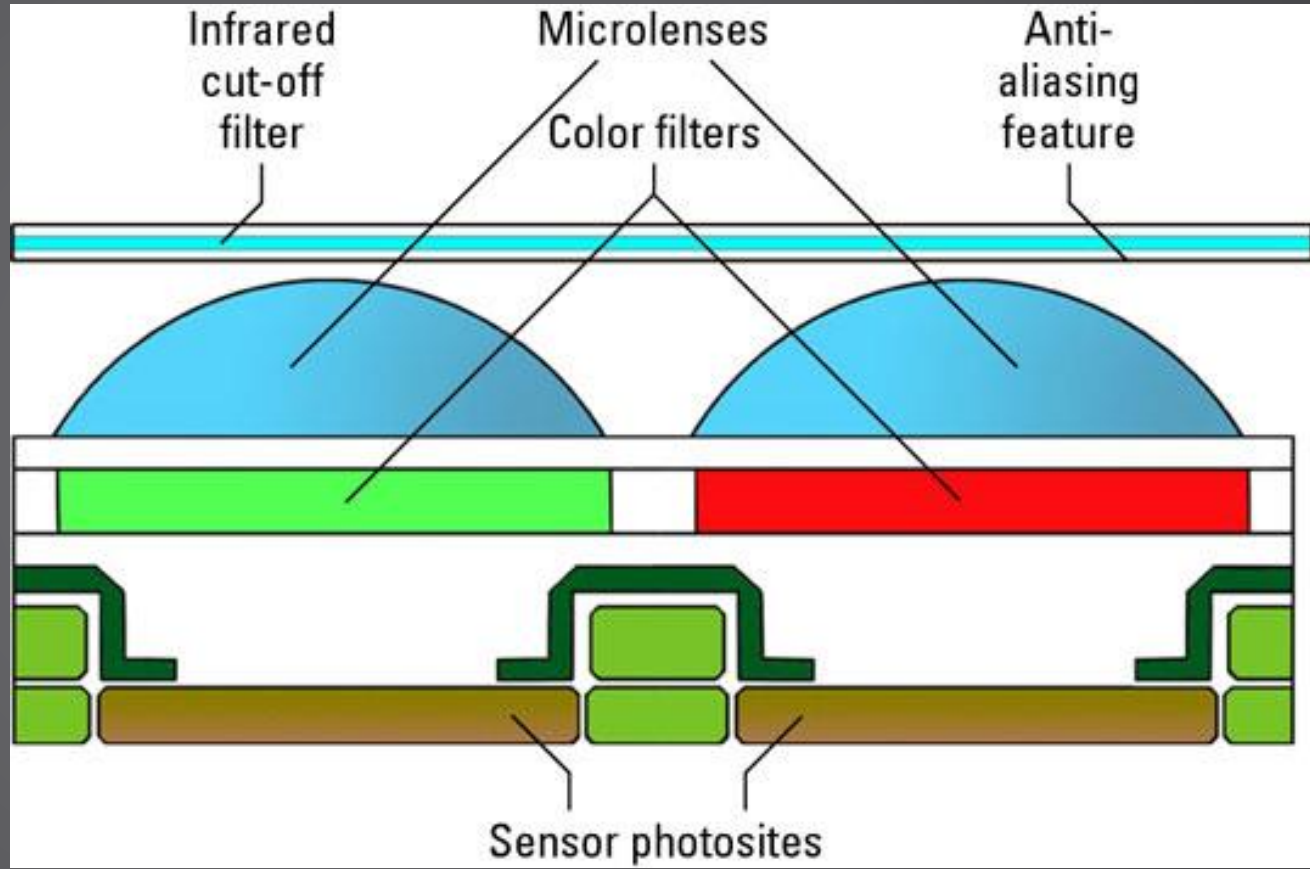
# A/A<sub>v</sub>

Use when you want to control depth of field



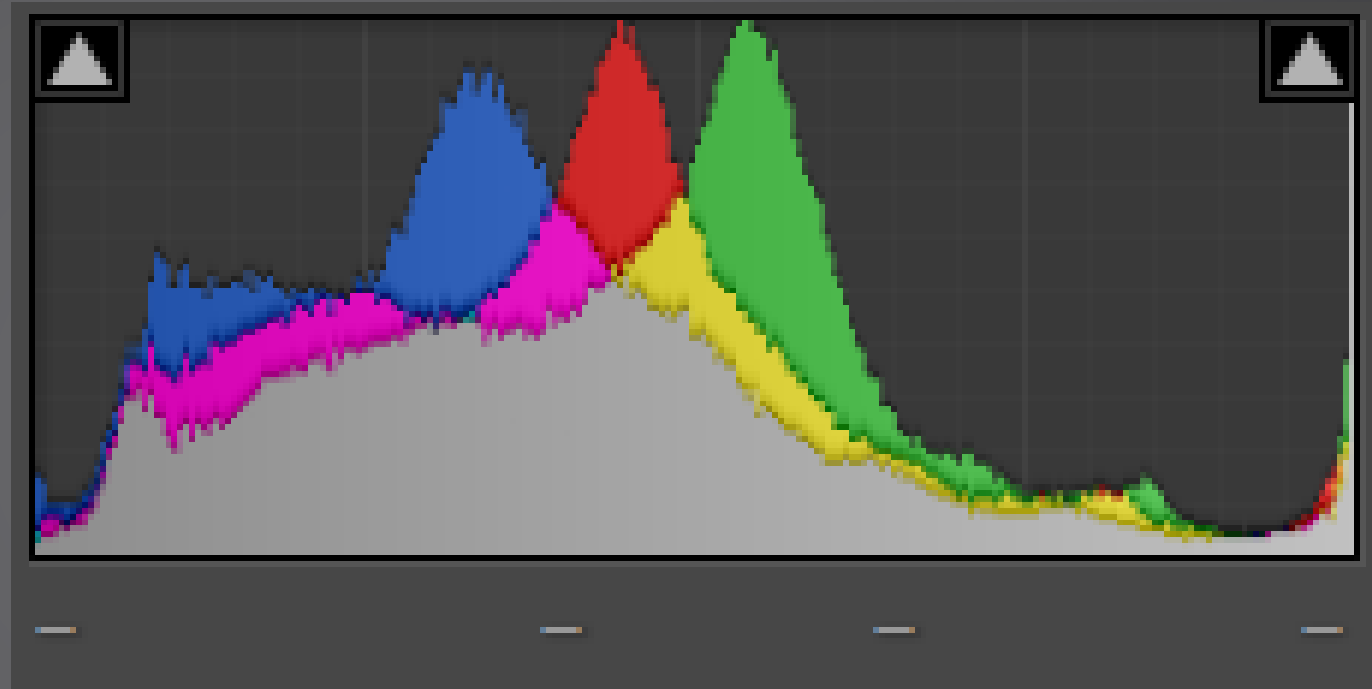
# ISO

Increase if there is insufficient light for your chosen aperture and shutter speed



# Histogram

Graphical representation of the exposure of your photograph.



# Exposure Compensation

Manually override your camera's chosen exposure

