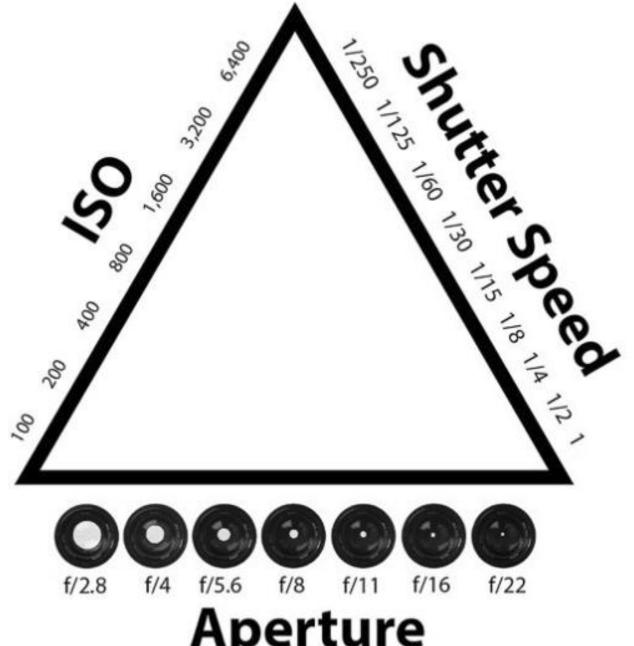
And Related Things

18th January 2019



Aperture

Normal Basic Camera Settings

Manual (M) and Bulb B	ISO Shutter Aperture	set by photographer set by photographer set by photographer
Program Mode (P)	ISO Shutter Aperture	set by photographer set by camera set by camera
Aperture Priority (Av)	ISO Shutter Aperture	set by photographer set by camera set by photographer
Shutter Priority (Tv)	ISO Shutter	set by photographer set by photographer

Aperture

set by camera

ISO auto

Why use

Manual Total control

Program Mode Just for the record, part of the learning

curve, pre-checking, too easy not to use and 'I

can correct in Photoshop'

Av Depth of field, subject isolation, 3 dimensional

effect, Landscape interest range

Tv Camera shake prevention, blur introduction,

Panning, freeze of action

Why choose

Shutter subject movement

deliberate blur camera shake

studio flash

Aperture depth of focus

blur foreground blur background

blur foreground and background

studio flash

ISO enable setting of aperture and shutter setting required

enable use of ND filters

studio flash

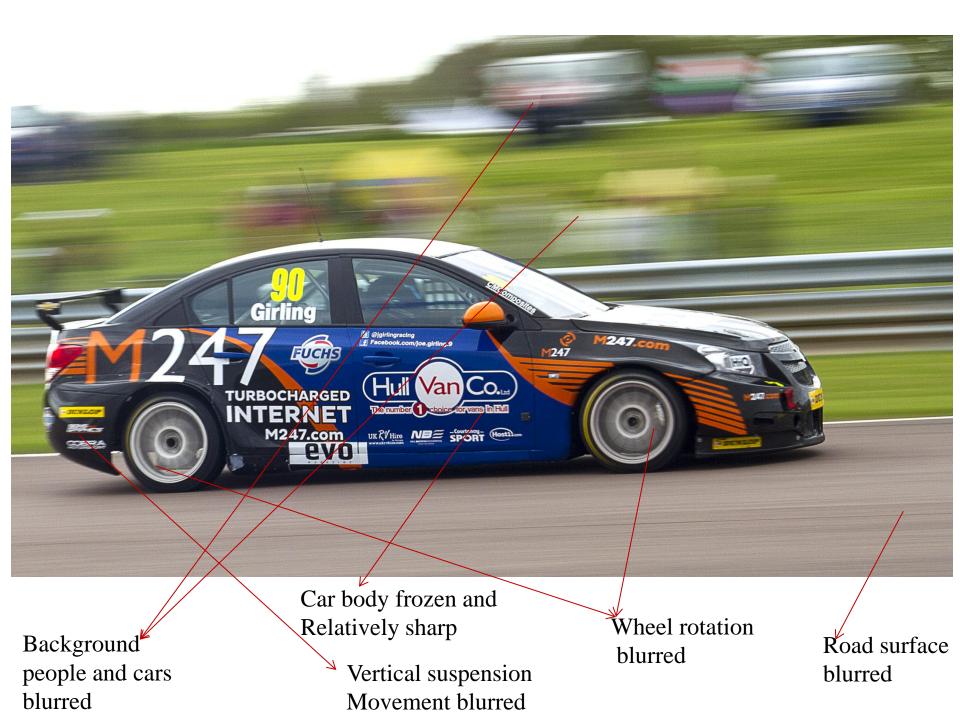


This photo uses the chosen shutter speed to

-illustrate movement, -illustrate freeze

-illustrate blur -illustrate panning

What mode did I use? What settings did I use



Basic

Camera Data

Origin

IPTC

IPTC Extension

GPS Data

Audio Data

Video Data

Photoshop

DICOM

Raw Data

Camera Information

Make: Canon

Model: Canon EOS 7D; S/N: 1580814706

Owner: Colin J Hicks

Lens: 18-50mm

Shot Information

Focal Length: 50.00 mm

Exposure: 1/100 sec; f/11; ISO 200; Shutter priority; Pattern

meterina

Image Size: 5184 x 3456

Orientation: 1 (Normal)

Resolution:

Flash: Did not fire

Lens wide angle zoom
7 18mm-50mm
62.8 –f22 set at 50mm



X

Exposure: shutter priority
ISO 200
Shutter 1/100th sec
Aperture f11
Pattern metering





Due to panning

panning and differential focus

Due to shutter speed

What setting did I use?

What shutter speed is being used?

IMG_5558.CR2



Basic
Camera Data
Origin
IPTC
IPTC Extension
GPS Data
Audio Data
Video Data
Photoshep
DICOM
Raw Data

Camera Information Make: Canon Model: Canon EOS 7D; S/N: 1580814706 Owner: Colin J Hicks Lens: EF75-300mm f74-5.6 IS USM **Shot Information** Focal Length: 75.00 mm Exposure: 1/1000 sec; f/13; ISO 400; Normal program; Pattern metering 1mage Size: 5184 x 3456 Orientation: 1 (Normal) Resolution: Flash: Did not fire

I used the first two races to experiment with settings. Raised ISO to ensure fast Shutter and moderate aperture



Preferences

Template... ~

ОК

Cancel

X

Why choose

Shutter subject movement

deliberate blur camera shake studio flash

Aperture depth of focus

blur foreground blur background

blur foreground and background

studio flash

ISO enable setting of aperture and shutter setting required

enable use of ND filters

studio flash



In focus part of Subject is in the foreground

Light is coming thro the window

Face has rim lighting on the forehead and cheekbone

Internal background slightly out of focus

External background moderately out of focus but recognisable

Photographer has white shirt lifting the shadows

This image not Photoshopped (final image cropped to head and shoulders)

Aperture priority/Low ISO







Why choose

Shutter subject movement

deliberate blur

camera shake

studio flash

Aperture depth of focus

blur foreground blur background

blur foreground and background

studio flash

ISO enable setting of aperture and shutter setting required

enable use of ND filters

studio flash



Original scan from a 35mm monochrome negative Kodak RoyalX Pan rate at ISO 3000

Taken from the pavement on Bourbon Street in New Orleans

Hand held, No flash

Manual mode + exposure Bracketing

50mm lens F1.8 shutter 30th sec

Examples of other modes

Sports higher shutter speed/wider aperture/high ISO

Portrait moderate shutter speed/moderate aperture/Low ISO

Landscape Small aperture/lower shutter speed/low ISO

Night/Lowlight merges multiple exposures large aperture/slow shutter/ High iso

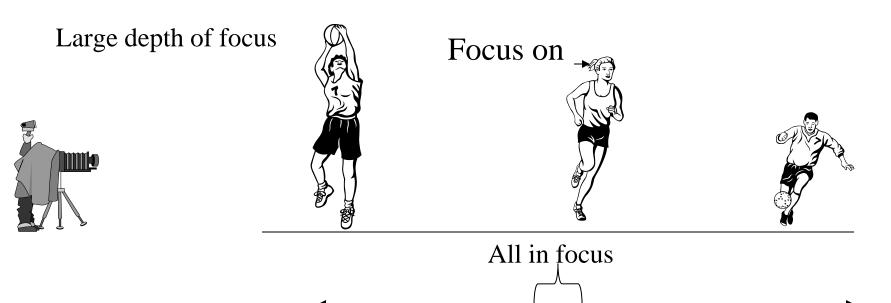
Mono pre-view (if happy take it in colour and post process)

Why are we concerned with depth of focus

- There are 2 basic ways that depth of focus is used in photography
 - Out of focus foregrounds and backgrounds make the subject stand out
 - (Shallow depth of focus)
 - Crisp focus from foreground to infinity for landscapes
 - (maximum depth of field)
 - In addition macro photography requires extreme measures and careful consideration
- 3 examples of differing depth of focus

What is depth of focus

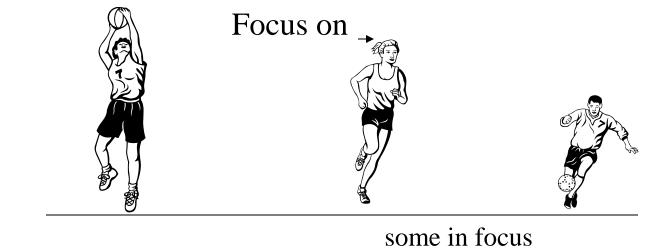
• Depth of focus is the distance from the closest part of the picture to the most distant part of the picture that is acceptably sharp.



What is depth of focus

• Depth of focus is the distance from the closest part of the picture to the most distant part of the picture that is acceptably sharp.

medium depth of focus

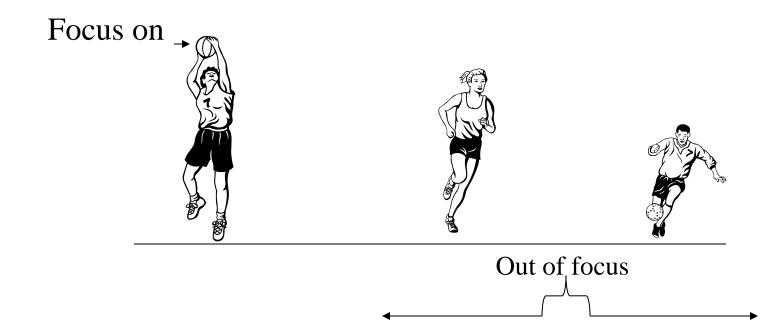




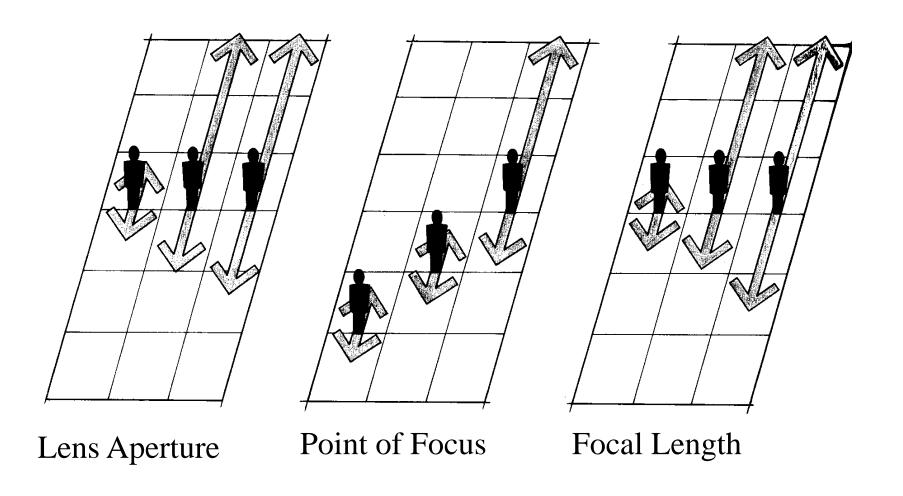
What is depth of focus

• Depth of focus is the distance from the closest part of the picture to the most distant part of the picture that is acceptably sharp.

Small (shallow) depth of focus

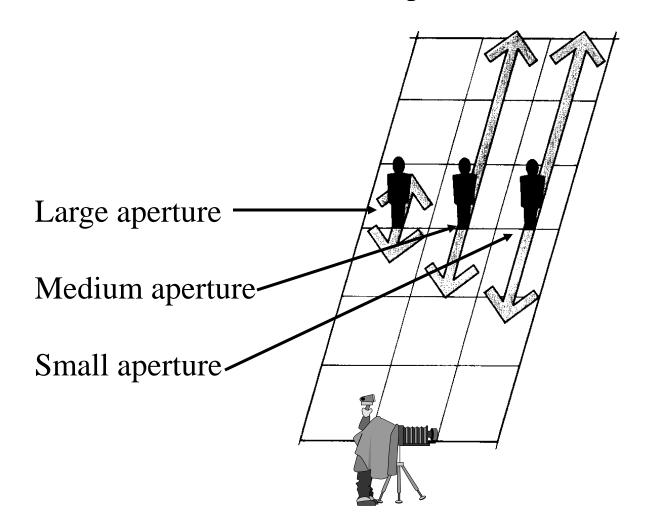


The 3 items that influence what is in focus



Lens Aperture

The aperture is the most useful control of depth of focus



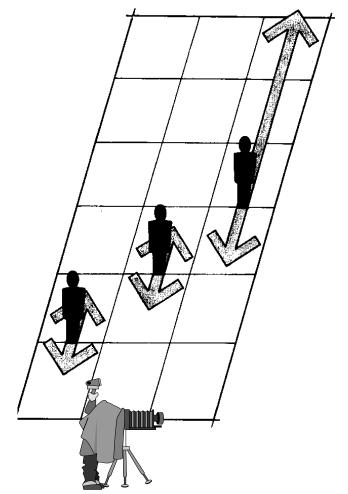




Point of Focus

The closer that you are to the subject the less

depth of field there is.







Focal length

