

1. Set your ISO (sensor speed)

2. Set your Aperture (f-stop)

Set your ISO to:

100--> Sunny 200-->Partly Sunny 400-->Getting Dark 800-->Sports/Action 1600--> Poor lighting 3200--> Dark (grain)t

Set your f-stop to

1.8-8.8-> Very Blurry Background (Shallow Depth Of Pield) 2.8-8.6-> Kind of Blurry Background 5.6-32-> The Higher the Number, the more your backgound will be in focus

3. Set Shutter Speed 4. Watch Your Meter (Fraction of time)

Use a tripod if you use Slower Shutter Speeds (1 second to 1/15th of a seco

Use slower shutter speeds to blur action.

Use Faster Shutter Speeds to Freeze action ***Bule of Thumb Keep Shutter speed at a min. of 128 for sharp photos

Keep your meter at 0 for proper exposure!!

Put at +1 for brighter photos Put at -1 for darker photos

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MAKE SENSE OF SHOOTING MODES

The mode you choose affects the amount of control you have over camera settings



Auto mode

If you're a complete novice, this mode is ideal because the camera takes care of all the settings automatically.



Auto Flash Off mode

The same as Auto, but for museums, theatres or indoor sports venues where using a flash might get you thrown out!



Portrait mode

The camera softens skin tones and uses a wide aperture to throw the background out of focus.



Landscape mode

Designed for vivid landscape shots taken in daylight. The built-in flash is switched off and you might need a tripod in poor light.



Child mode

In this mode, the camera makes backgrounds and clothing colourful but

keeps skin tones soft and natural looking



Sports mode

The flash is switched off and the camera uses faster shutter speeds to help freeze fast-moving subjects.



Close-up mode

This favours a smaller aperture to improve depth of field. Consider using a triped when there's a risk of camera-shake.



Night Portrait mode

he flash fires to light your ubject, but the camera uses a slower shutter speed to capture the background lighting too.



Manual mode

This is designed for experts. You choose the shutter speed and aperture yourself, though the camera still suggests settings.



Aperture Priority

se this if you want to choose the aperture yourself. The camera will set the shutter

speed automatically for correct exposure.



Shutter Priority

the shutter speed yourself. The camera will set the aperture automatically so that the exposure is correct.



Program AE mode

deal for general use, or when there's little time to think. The camera sets the shutter speed and aperture but you get to control other settings.





GUIDE

A special feature on the D3100 that shows you what to do as you're taking pictures. It's a great

way for beginners to learn about photography.





Canon



Full Auto

The idiot 'green square' mode - sets all the camera settings for you automatically.



Creative Auto

Only found on most recent EOS SLRs. Lets you tweak aperture and exposure compensation in a jargon-free way.



Metered manual

You set both aperture and shutter speed, but the camera still gives a meter reading (see p97).



Aperture priority

You set the aperture, and the camera then sets the shutter speed for you.



Shutter priority (time value)

You set the shutter speed, and the camera then sets the aperture for you.



Program shift

The camera pairs aperture and shutter speed, but you can tweak them - see below.



Movie mode

Only found on the mode dial of some newer EOS models that feature HD video recording.



Portrait mode

Sets a wide aperture to blur backgrounds. but overrides other settings, see p96.



Landscape mode

Sets aperture to maximise depth of field. but overrides other settings, see p96.



Close-up mode

Sets a wide aperture to blur backgrounds, but overrides other settings, see p96.



Sports mode

Sets a fast shutter speed to freeze action, but controls other settings too, see p96.



Night portrait mode

Combines flash with a slow shutter speed, but fixes other settings, see p96.





Flash off mode

Fully automatic mode that ensures flash does not fire - see full details on p96.



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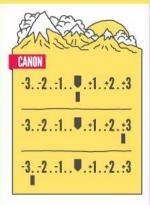
Automatic depth of field

Tweaks aperture and focus to ensure key parts of picture are sharp. See p96.



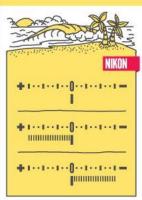






EXPOSURE

- 🖛 JUST RIGHT 🖈
- **◆ TOO BRIGHT**
- 🖛 TOO DARK 🖈









F/2.0











MORE LIGHT - BLURRY BACKGROUND







LESS LIGHT - SHARPER FOCUS

SHUTTER SPEEDS



MORE LIGHT > TRIPOD HIGHLY RECOMMENDED > BLURRED MOTION > HANDHELD - OK > LESS LIGHT

ISO - FILM SPEED



 \leftarrow 100 - 200 - 400 - 800 - 1600 - 3200 - 6400 \Longrightarrow

LOW - BLURRED MOTION < < 🗱 LIGHT SENSITIVITY () > SHARP ACTION - HIGH





NOW IT'S TIME TO TAKE YOUR PHOTOGRAPHY TO THE NEXT LEVEL

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DARKER

LESS MOTION BLUR 1/4000	SHARP F22	LESS GRAINY 100
1/2000	f16	200
1/1000	710	200
1/600	£11	400
1/250	F8	500
1/125	000	0.40
1/60	f5.6	640
1/30	64 VA	800
1/16	f2.8	1000
1/8	Day FELO	1000
1/4	f2	1250
1/2	f1.4	1600
1	Ct	bi
2	f1	hı
MORE MOTION BLUR	BACKGROUND BLURRY	MORE GRAINY

LIGHTER





SHUTTER SPEED

How fast your camera's shutter opens and closes to expose the sensor. The longer the shutter is open the more light is exposed to the sensor and visa-versa.

Shutter Speed Typically Used For

1/4000 sec freezing super fast objects

1/2000 sec freezing cars driving fast

1/1000 sec sports photography

1/500 sec slow moving sports (soccer,

basketball, etc)
1/250 sec photographing kids

1/125 sec standard photos

1/60 sec slowest handheld shot

1/30 sec when panning sports/cars

1/15 sec blur objects in motion

1/8 sec blur fast moving water

1/4 sec panning people walking

1/2 sec blur slow moving water

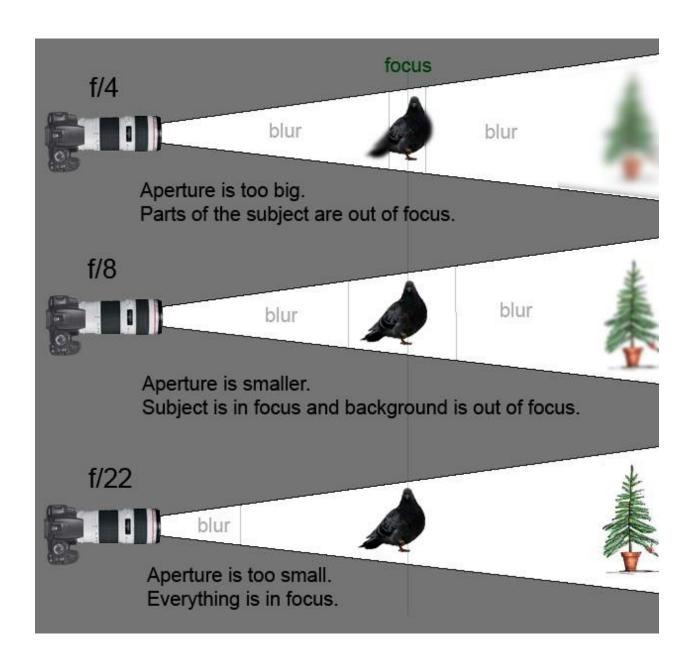
1 sec or slower very long exposure

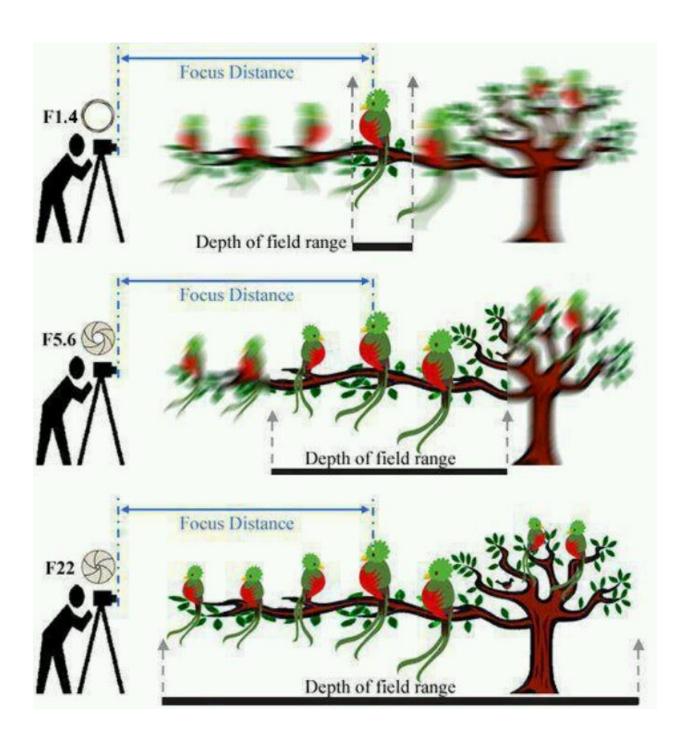


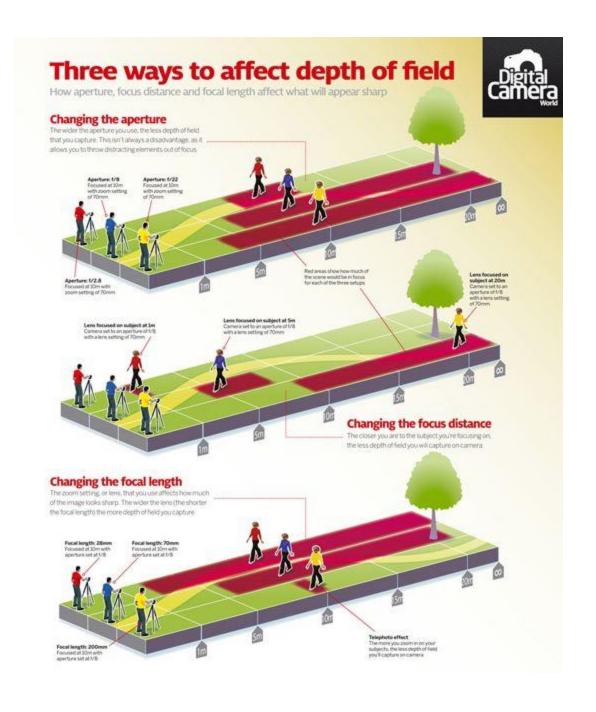












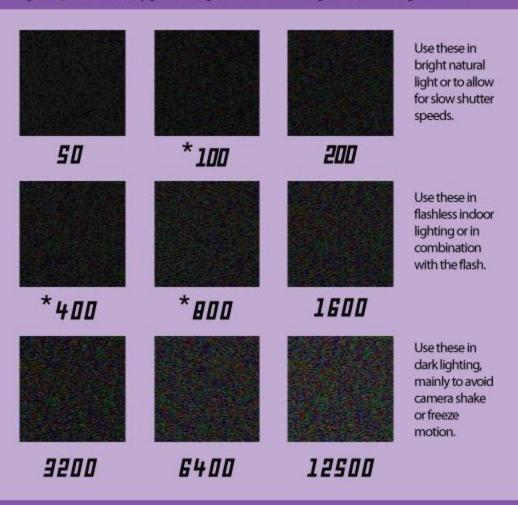
ISO

100	Full Sun, no shade
200	Lots of sun, could be in partial shade or an overcast day out in the open
200	Inside on a sunny day, directly by a large window
400	In the shade on a sunny day or under a covered area on an overcast day
700	Inside on a sunny or overcast day (near a window)
640-	-800 Sun is starting to set and less light Noise
800	Inside, quite a distance from a window (sunny outside)
850-	-1000 Inside, quite a distance from a window (overcast day)
1250	Inside during the evening, light bulbs are the only source of light
	Inside a dark room where there is a ource (theatre, school production, etc)

[life in edit] infographic by Esmer Olvera

ISO:

The light sensitivity of either the film or sensor in a camera. They can range from as low as 12 to as high as 12500. With increased ISO there is increased noise or grain in a photo, so for higher quality photos stick to the lowest possible ISO setting. In digital captures, this noise leads to larger file sizes, so you are able to take less photos per memory card. ISO also increases with the length of the exposure, but in film the grain is predetermined by grain existing on the emulsion, the light sensitive coating on the film.

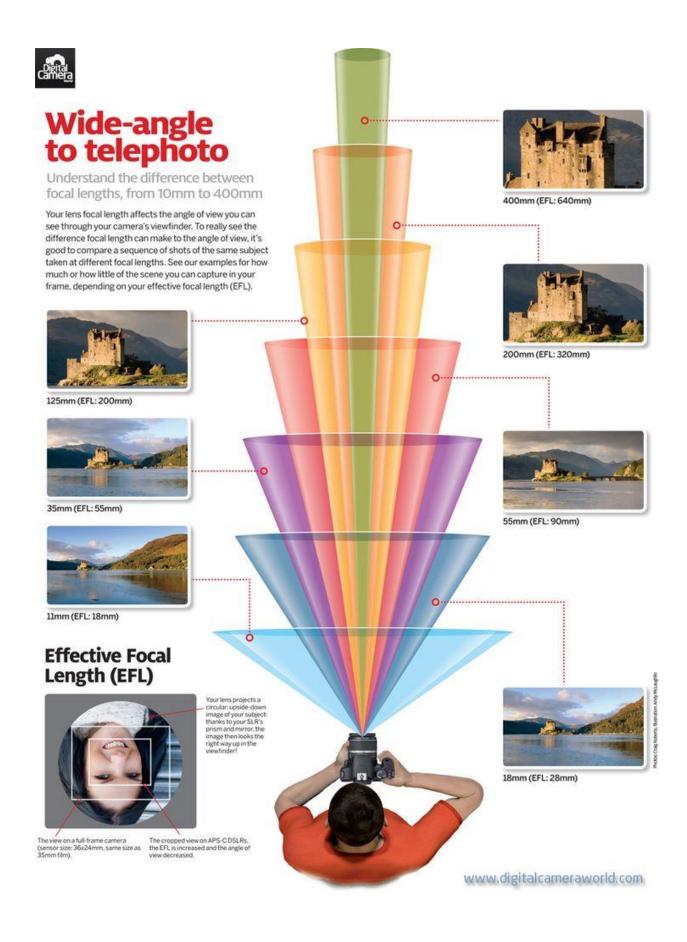


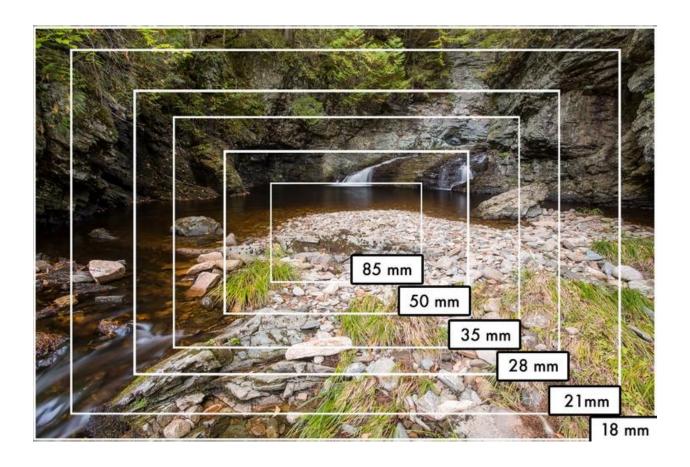
*Each ISO shown is in whole stop increments, but one-third stops exist on some cameras.

*An ISO of 100 is the most common lowest setting available on most cameras. It is most useful for landscape photography, brightly lit situations, and long exposures.

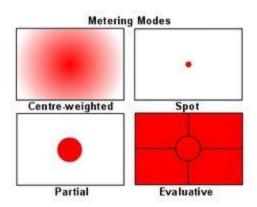
*An ISO of 400 is a good no flash indoor lighting setting, it will be just enough to freeze most motion and will help avoid camera shake - especially coupled with a larger aperture.

*An ISO of 800 is ideal for combined use with flash. Higher ISOs also capture more ambient light and increase depth in dark lighting. This is combined with a flash to balance out foreground and background light - particularly with a back-lit subject.





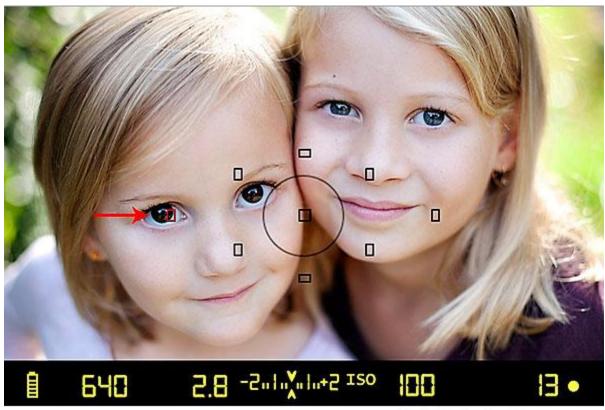
correctly exposed meter



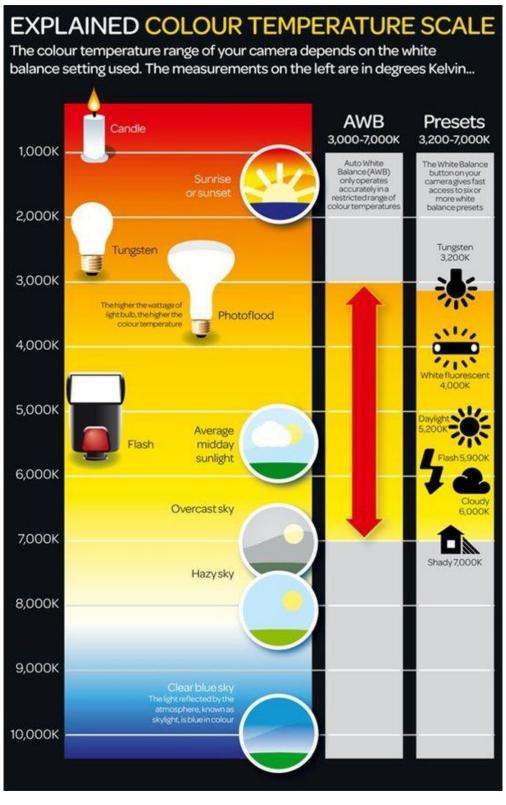


under exposed meter

over-exposed meter

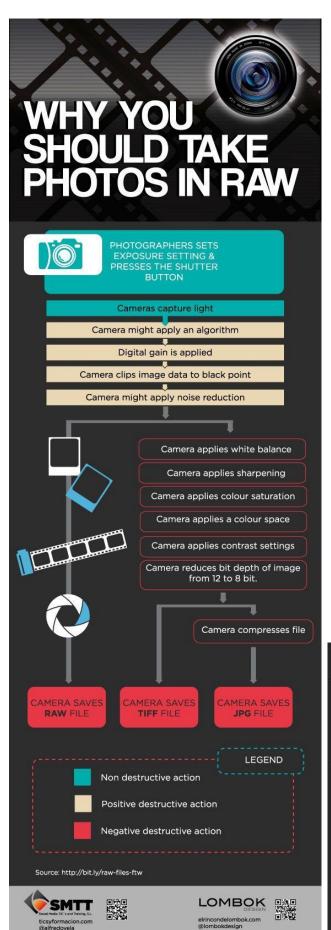


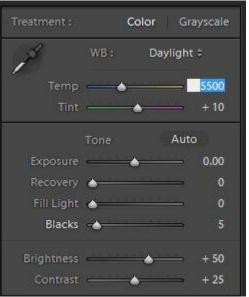
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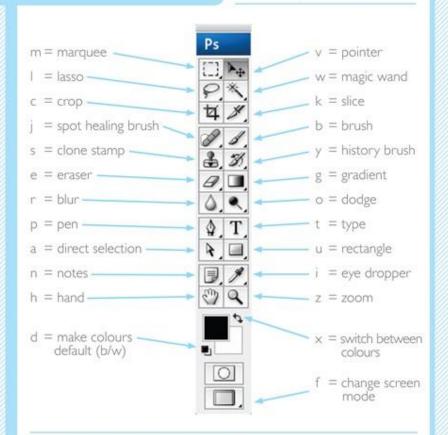






PHOTOSHOP SHORTCUTS

Hello, here are the most useful Photoshop keyboard shortcuts I know. Hope it helps...



ESSENTIALS

H n = new document# o = open document ₩ w = close document

shift <math> s = save as

Hq = quit

Hp = print

 $\Re c = copy$

 $\mathcal{H} \times = \text{cut}$

 $H_V = paste$

Hz = undo

option H z = multiple undo

spacebar + click = zoom in

option \mathcal{H} spacebar + click = zoom out \mathcal{H} - = zoom out

a = select all

d = deselect

shift # i = inverse selection

spacebar + click = hand tool

#t = transform tool

r = show/hide rulers

#; = show/hide guides

= make brush smaller

= make brush larger

tab = show/hide all tool pallets

tab = change application

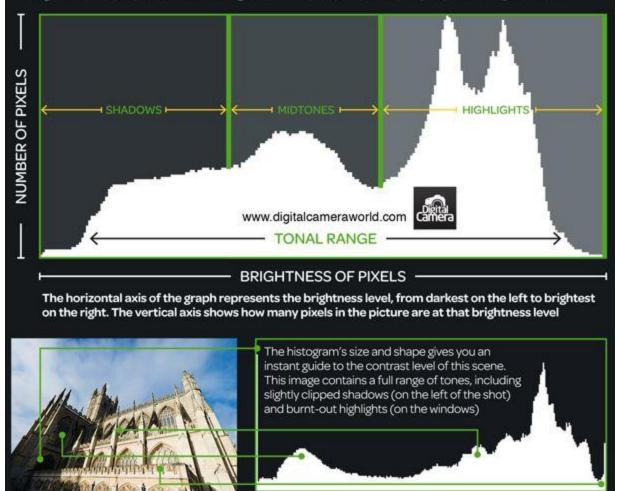
0 = document full magnification

H + = zoom in





A camera's histogram is an accurate guide to exposure, as it illustrates the range of tones, or brightness levels, present in an image. You should review the histogram each time you take a picture, so that you can assess if you need to make any exposure adjustments.



Name	Study Guide photo 2/3/portfolio	
What is exposure: -overexposed= -underexposed= -correct exposure=		
Shutter speed -visual effect fast shutter= -visual effect slow shutter= How to be able to achieve faster shutter spee	-numbers of fast exposure= -numbers of slow shutter s=	
Aperture -visual effect large aperture= -visual effect small aperture= -what else can affect the depth of field	-numbers of large aperture= -numbers of small aperture=	
ISO Low iso pro= High iso pro=	Low iso con= High iso con=	
Focal Length Lower number lens=	High number lens=	
Metering modes Evaluative/matrix= Reading a light meter=	Center weighted= Spot=	
Choosing a focal point =		
White Balance (color temperature) Lower numbers= Daylight is=	higher numbers=	
Why Raw =		
• • •	rerse= brushsize= zoom= transform= sav lattened layer=	/e=
How to read a histogram Left= middle=	right=	