

# PHOTOGRAPHY

## BEYOND THE BASICS : PART 3

ANDREW HELLMICH : IMPACT IMAGES



# PART 2 TOPICS

- Lenses
- Flash
- White Balance
- Landscape Tips
- Silhouettes
- Image Quality
- Managing Images





# First, a little REVISION



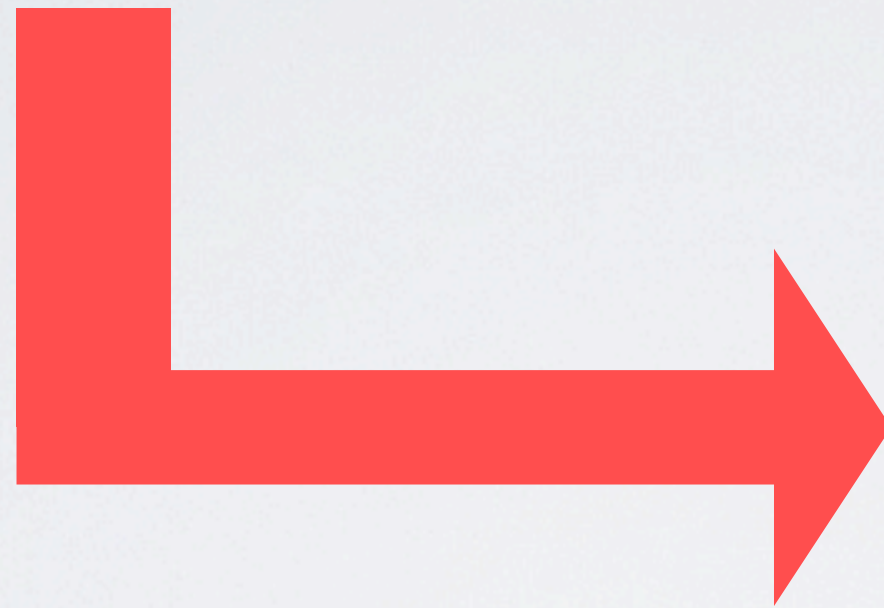


# Exposure: 1/250 @ f8 @ 400ISO

|   |                        |
|---|------------------------|
| What can I change to get a faster shutter speed?            | <b>ISO or Aperture</b> |
| What happens if I increase the ISO?                         | <b>Noise increases</b> |
| What would happen to my shutter speed if I changed to f5.6? | <b>Increase</b>        |
| What would my shutter speed be at f11?                      | <b>1/125</b>           |
| Could I hand hold a 200mm lens at f11?                      | <b>No</b>              |
| If I wanted to show movement, what aperture would I need?   | <b>Smaller</b>         |



# Now for some





# Lens Choices

The larger the aperture - the dearer the lens

‘Pro’ Lenses have a constant aperture

A good lens will make more difference than a new body

3rd party lenses are fine eg. Sigma, Tokina and Tamron

You don't need an expensive lens to get great photos!





저금통



MULTI PURPOSE

**EF**  
**24-105mm**  
**f/4L IS USM**

MULTI PURPOSE CUP LENS - CUP - ASHTRAY - MONEY BOX - PEN HOLDER



# Lens Types

Zoom Lenses - different focal lengths: 18-35mm, 28-70mm, 70-200mm

Prime Lenses - single focal length: 50mm, 85mm, 105mm etc...







Tilt Shift Lens



Macro Lens



# Lens Choice Also Affects DOF

The longer the lens the shallower the DOF for the same aperture

Example: a 200mm lens will have a shallower DOF than a 28mm lens at f5.6







200mm @f5.6

Plus - a longer lens is more flattering!



28mm @f5.6



# Lens Choices or Focal Length Choices

18-35 - typically Landscape

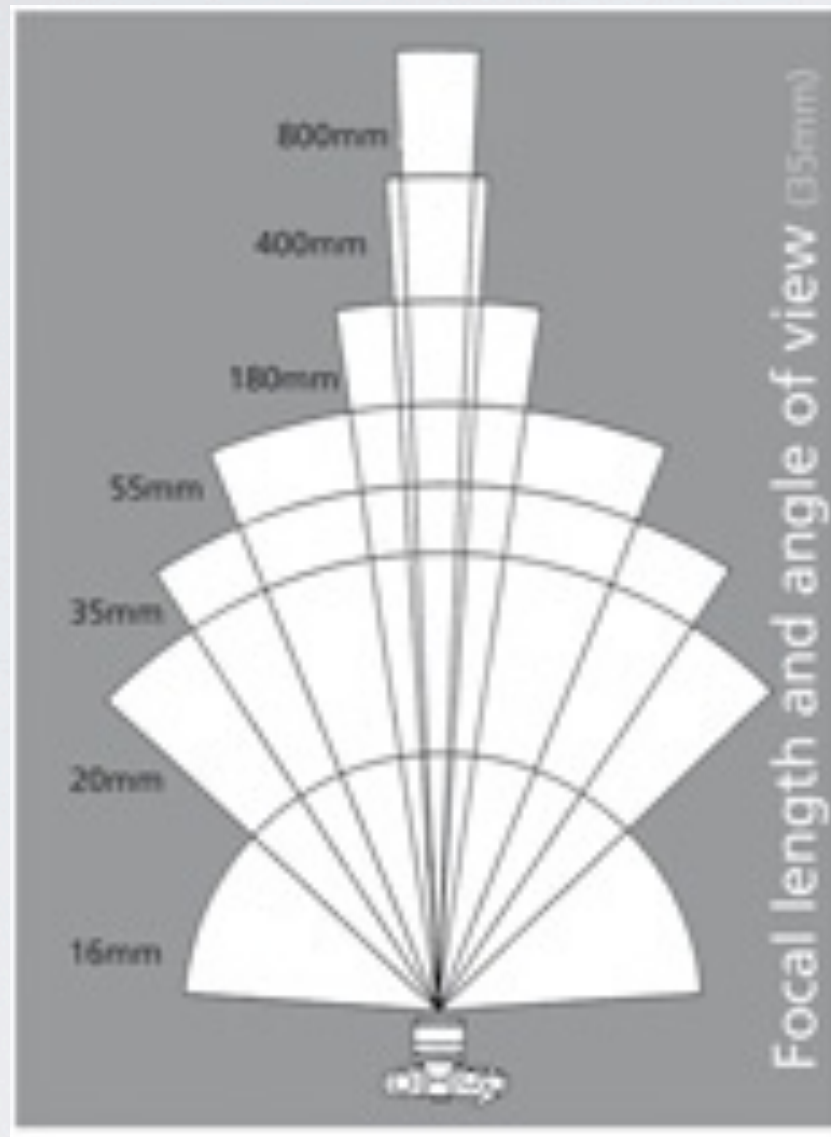
50mm is known as a 'Standard' lens

70mm-105mm - Portrait Lenses

200mm plus - Telephoto Lenses

**These are simply guides - you can do what you like!**





## Lens Choice Affects the Angle of View









Wide angle is less  
flattering  
and shows more  
background.

Good for environmental  
portraits.





Tele lens is more  
flattering and  
excludes background



# Questions?





# Shooting With Flash



Your pop up flash isn't very powerful

The brighter the ambient light,  
the closer you have to be

If you want to increase it's range:  
night or day - increase your ISO



# **Use your pop up flash when shooting into the light**

## **FILL FLASH**

Fill Flash: the term given when 'balancing' flash with daylight





No Flash



Full Flash



-I Flash





You can use 'fill flash' to balance with any light source



**Remember - you  
can choose  
when to use your  
flash!**













# White Balance



Adjusting the white balance affects the colour balance of your photo



| Display   | Mode                     | Color temperature (Approx. K) |
|---|--------------------------|-------------------------------|
|    | Auto                     | 3000 - 7000                   |
|    | Daylight                 | 5200                          |
|    | Shade                    | 7000                          |
|    | Cloudy, twilight, sunset | 6000                          |
|    | Tungsten                 | 3200                          |
|  | White fluorescent light  | 4000                          |
|  | Flash                    | 6000                          |
|  | Custom*                  | 2000 - 10000                  |











# Which white balance should you use?

Daytime

Nigh-time

Indoors



# You can use WB to be creative too!



Tungsten WB



Shade WB



# Landscapes

- Generally use a wide angle lens
- Go for a small aperture for max DOF
- Use a tripod (if possible)
- Remember the rule of thirds
- Try and include foreground interest





# Reflections

Reflections look great in any photos

The lower you camera angle is to the reflection, the better the reflection

I will typically lay on the ground for this style of image







The lower the camera angle, the more vivid the reflection











# Silhouettes are simple and dramatic!







Silhouettes can be photographed on 'auto' but you control the background by under or overexposing in manual

By making changes, you are altering the tone of the background



Shooting into  
the light is  
simple when in  
manual. Simply  
alter your  
exposure for  
the affect you  
want





# A Tripod will be a **GREAT** investment

Remember - if you want a small aperture for maximum DOF

AND

a low ISO for fine detail

YOU WILL

need a slow shutter speed

Slow shutter speeds, mean camera shake without a

tips on what to  
buy





*Loooong Exposure Magical Waterfalls by Forest Wander*

For images like this, you will need a tripod or somewhere to balance your camera

For the best effect, try and exclude any sky or highlights in these style of photos.

Sommersby falls

Low Light - long shutter speeds



# To increase your Shutter Speed

**Low ISO**

**Small Aperture**

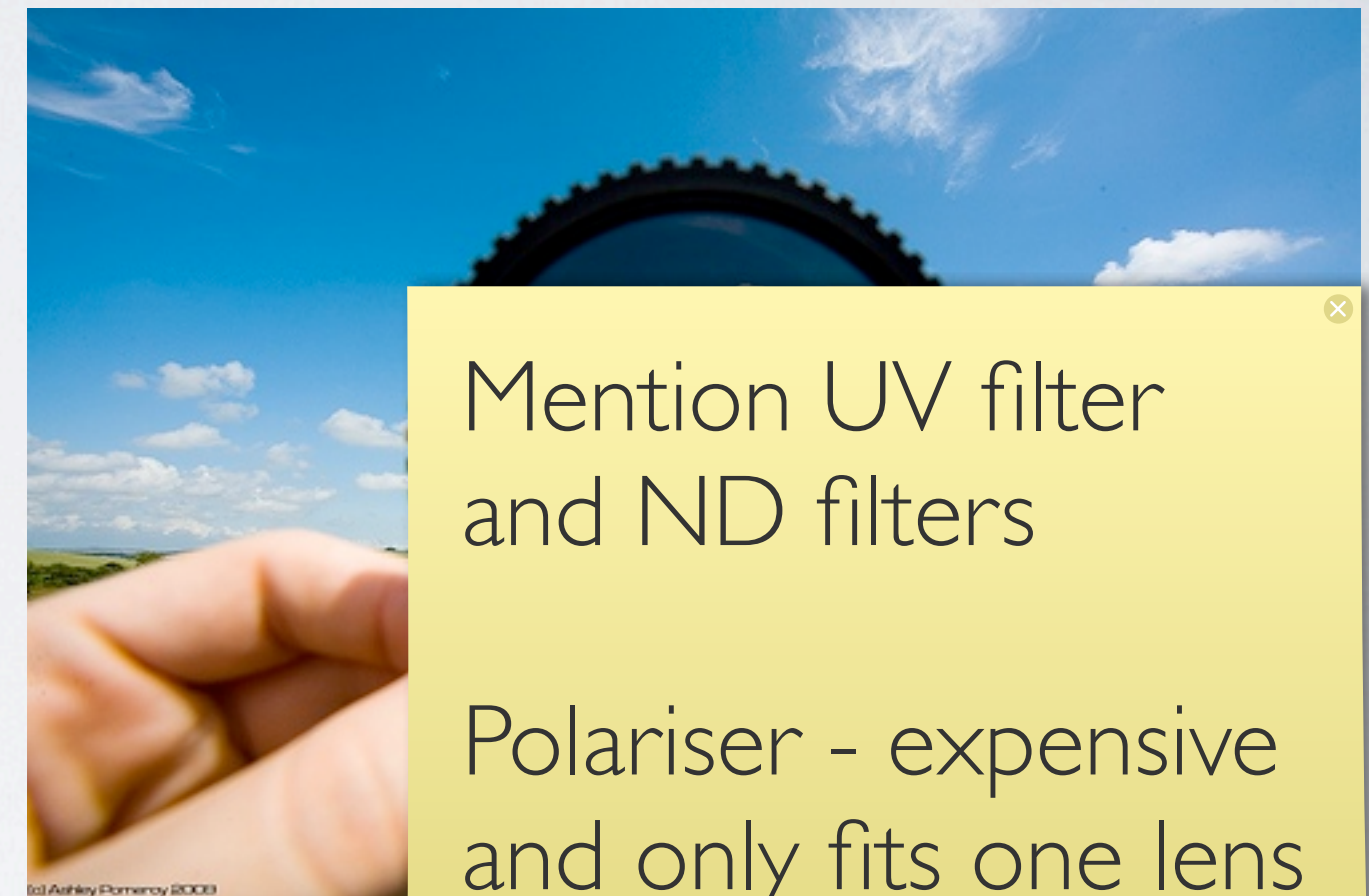
You can also add a filter - to reduce the amount of light



# Filters I Recommend?



Circular Polariser



Mention UV filter  
and ND filters

Polariser - expensive  
and only fits one lens

Can go over the top





Circular Polariser



**A lens hood will protect  
your glass and shield  
the sun - like a cap**

I would recommend a lens hood  
over a UV filter for lens  
protection - plus it's useful



Wide Angle Lenses with Hoods



## A Slow Shutter Speed 'Tip'

When shooting with long exposures, simply pressing the shutter release is enough to cause camera shake.

To get around this without an expensive 'cable release' use your self timer.





# Questions?





# Image Quality Settings





**For ease of use and simplicity I recommend:**

Shooting in the largest JPG setting you have available

Forget RAW until you are fully competent in

you can reduce a large file but cant increase a small file



# One Last Look at Camera Settings







**What do Each of  
these  
symbols/numbers  
mean?**





# Questions?



# Deleting and Managing Images

Do not delete in camera

Renumber and rename after deleting the duds

Keep everything in order

Back Up



**I highly recommend Photo Mechanic for your photo management**





# Final Questions?



Your feedback is really important to me!

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