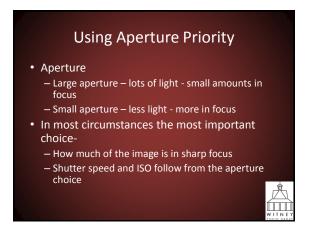




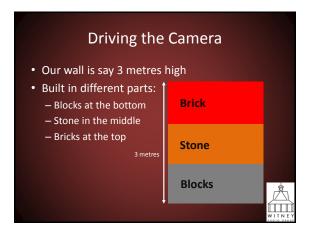
Driving the Camera Options to Drive the Camera M – Manual You set Aperture, Shutter and ISO Av – Aperture (Aperture value) Priority You set Aperture and ISO camera sets the shutter speed Tv – Shutter (Time value) Priority You set the Shutter Speed and ISO Camera sets the aperture

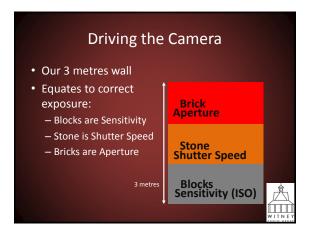


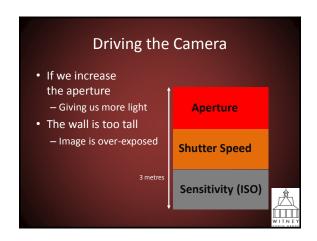
Aperture Priority • 90% of serious photographers use the Av (Aperture value) setting – Called 'Aperture Priority' • You set the Aperture and ISO – The camera works out the shutter speed • Many consider the overriding criteria in 'driving' a camera is to determine what is and is not in focus

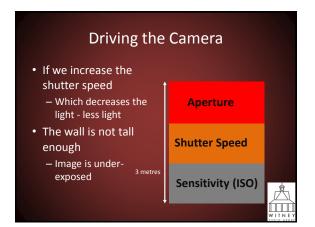




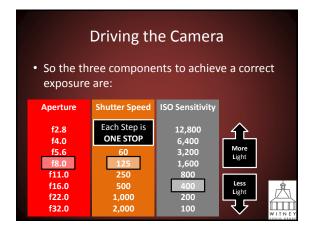


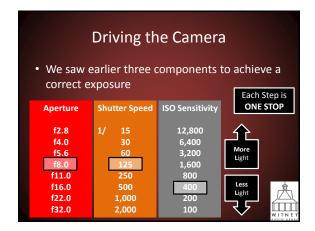


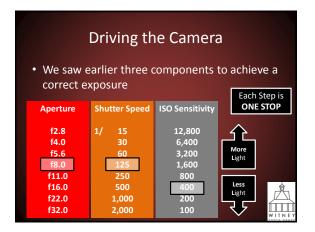


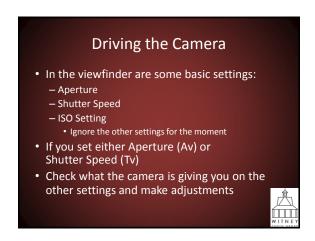


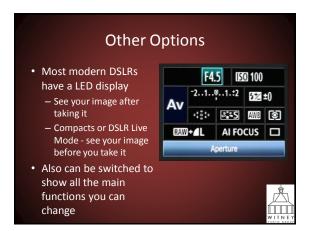


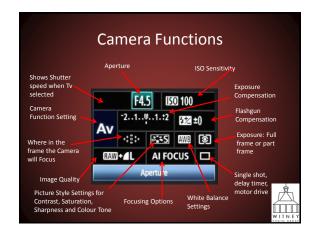








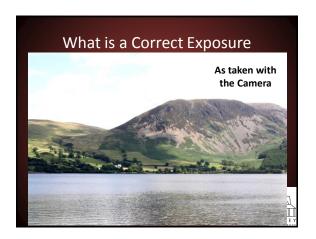




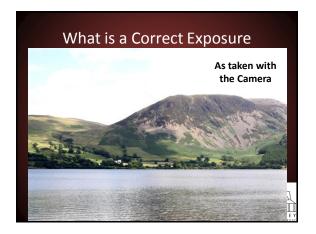




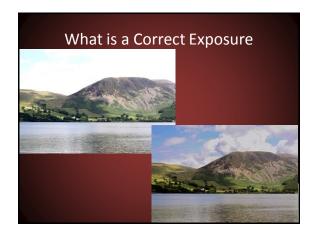




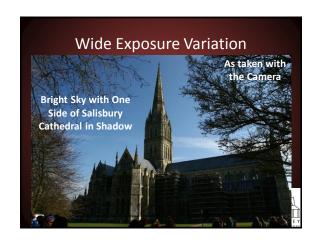


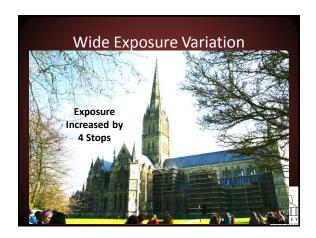


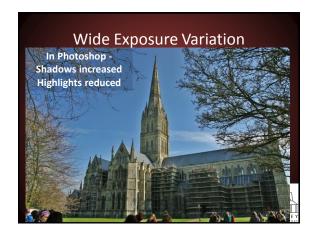


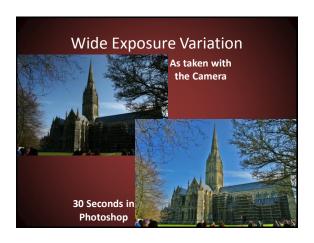


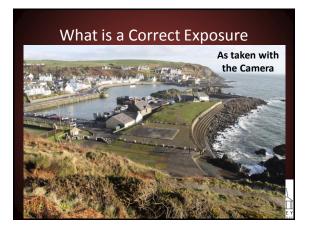


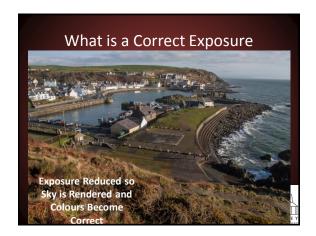














How to Deal With Exposure Simply - you cannot — in a single shot - with the camera Easiest way - use Lightroom or Photoshop OR Take multiple shots of the same image — Each exposure 1½ - 2½ stops different Use HDR packages such as Photomatix These take the correctly exposed parts from the different images — Combines them into a correct exposed image







Plan and Prepare

- What images do you want?
 - Do you know when and where you can use a camera?
 - There may be restrictions
 - A bar on cameras or flash or tripods
- Are you taking images to give to other people?
 - What images will your people require
- Take hundreds of images all with care
 - Give yourself many to choose from



Plan and Prepare

- Taking Landscapes or Seascapes
- Arrange to be there early morning or late evening
 - The light at midday is often harsh and 'contrasty'
 - Early morning or evening light is softer
- Take a tripod
 - Always makes landscapes better



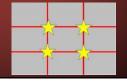
Plan and Prepare

- Professional Photographers prepare a list of images they wish to take at a location
- Then decide how to obtain those shots
- Tick these off as the 'shoot' becomes completed
- What camera(s) and lenses do you need?
- Do you need any waterproofs if it rains?
- For you and the kit



Composition

- There are NO hard and fast rules
- If the image is creative break all the rules
- Our eyes are more pleased to see:
 - Lines going from bottom left to top right
 - Main point(s) of interest on a 'third'
 - Not in the centre





Composition Suggestions

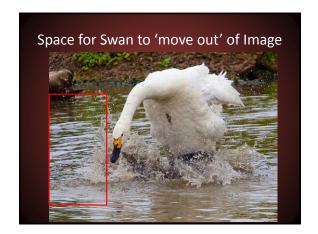
- Cut out information that is not contributing
 This means moving in (or zooming) closer
- Create a focal point for your image
- Give animals/birds space around them
 - Allow them space to 'move out' of an image
- Frame an image with vertical and horizontal components at the edges
- Create lines that move into the image
 - Recession



Composition Suggestions

- · Get the background right
 - Remove unwanted details
- A blurred and/or dark background is best
 - Avoid trees growing out of peoples heads
 - Clear away plastic bags etc. from the scene
 - A muddled background is distracting
- Make sure people are looking at the camera
 - Particularly children and talkative adults
 - Ask people to remove their sunglasses
 - So you can see their eyes





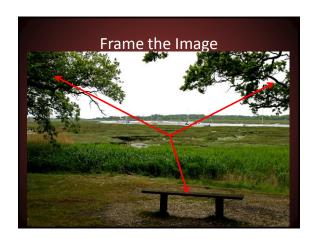


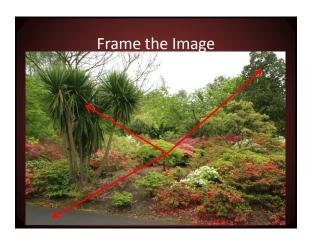






















Why Post Process? The main advantage of digital images — May be amended after taking You cannot (yet) recover out of focus images — Or those that are blurred with handshake Almost everything else you can recover or amend with software — Exposure, saturation, sharpness, shadow and highlights, crop (using part of an image), white light, tilting images, etc. etc.

Software with Cameras

- Cameras come with a bundle of Software
 - Updates on-line are regularly available
 - Mostly free of charge
- RAW Conversion
- Stitching images to form a wide/long panorama
- Operating a camera from a computer keyboard
- Image storing facility



RAW Conversion

- · Manufacturer's free software
- Adobe Lightroom about £110
 - Very sophisticated and intuitive software
 - Very sparing on disc storage
 - Can also manipulate jpeg files
 - A first choice by almost everyone (PC and Mac)
- Aperture (for Macs only) about £100
- Adobe Photoshop CS6 about £700
- Adobe Photoshop Elements £70



Photo Manipulation

- Lightroom will allow changes of settings
 - Exposure, contrast, sharpening, cropping, etc
 - Will not allow heavy manipulation
 - Layers, deletion of unwanted parts of an image
- Adobe Photoshop Elements about £70
 - Allows all the manipulation you can dream of
- Its big brother Photoshop CS is used by professionals - £700



Photo Manipulation

- Many free downloads:
 - Best of the bunch Picasa, PixIr,
 - Gimp, MS Picture Manager, Paint, etc
- Others you have to pay for:
 - Aperture £45 (for Macs only)
 - Corel £65
 - PhotoPlus Essentials £30
 - PhotoPlus X5 £65

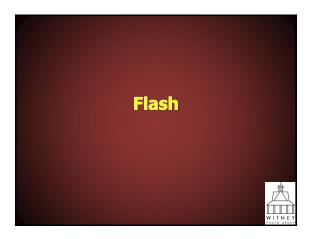


Advanced Manipulation • High Dynamic Range (HDR) Software - Creates a dynamic look to images - Marmite images – Some people love it • Many hate it - Photomatix – about £75 - Available in later versions of Adobe Elements • Nic Software - A range of simple to use manipulations creating dynamic results – again a bit Marmite for some











On the Camera Flash

- Small pop-up flash guns
- Very small light output
- Cannot direct the flash
- Often make the DSLR act as a compact
 Delay in firing after pressing the shutter
- · Limited use to create high quality images
- Some lens hoods get in the way of flash light
- Cause red eye, same as a compact



Independent Flash Guns

- All manufacturers make powerful flash guns
- · Either sit on the camera hot shoe
- Or can be cabled off the camera
- Head twists
 - 360° horizontally and 90° vertically
- Many can be wireless driven
 - Multiple flashguns
 - Automatic exposure guaranteed

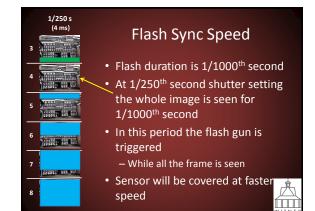




Flash Sync Speed

- The shortest shutter speed in which your camera shutter will allow a flash gun to fire when ALL the sensor is open to the light Normally 1/250th or 1/125th second
 - DSLR automatically sets sync speed when you switch on flash
- You can override the sync speed
 - So long as the shutter speed is longer
 - Creating a natural image supported by flash





Using a Flash Gun

- · Flash gives a harsh light
 - A small area from which the light is produced
 - Increasing its area reduces the harshness
- Use the built in deflector
- Bounce the flash off a ceiling or wall
 - Must be white area or you introduce a colour shift
 - Must be a fairly low ceiling





Spread the flash light • Manufacturers have all sorts of devices — Enlarging the flash area • However you spread the light — Camera automatically compensates the exposure — Called Through The Lens (TTL) metering • Some use ETTL - Evaluative Through the Lens Metering







