

# Digital Images

## ● Topics

- RAW versus Jpeg
- Filing, Downloading and Storing Images
- Backing up

# RAW versus Jpeg

## ● RAW advantages:

- Reserves original data
- Has more information, no compression and may be sharper
- Exposure and White Balance errors can be recovered

## ● RAW disadvantages:

- Takes up 3 – 4 times more storage space
- Slower for continuous frame shooting
- Has to be pre-processed before printing or projecting

# RAW versus Jpeg

## ● Jpeg advantages:

- Smaller files so less storage space required
- Instant access
- Universal format
- No pre-processing

## ● Jpeg disadvantages:

- Compressed “lossy” format
- Pre-processed by camera
- Some camera data lost
- Less forgiving than RAW

# RAW versus Jpeg

## ● NB

In some of the latest cameras (especially CSC)

The software in the camera will adjust:

- Noise
- Len distortions
- Sharpness
- Colour

So Jpeg file may be a better than RAW file

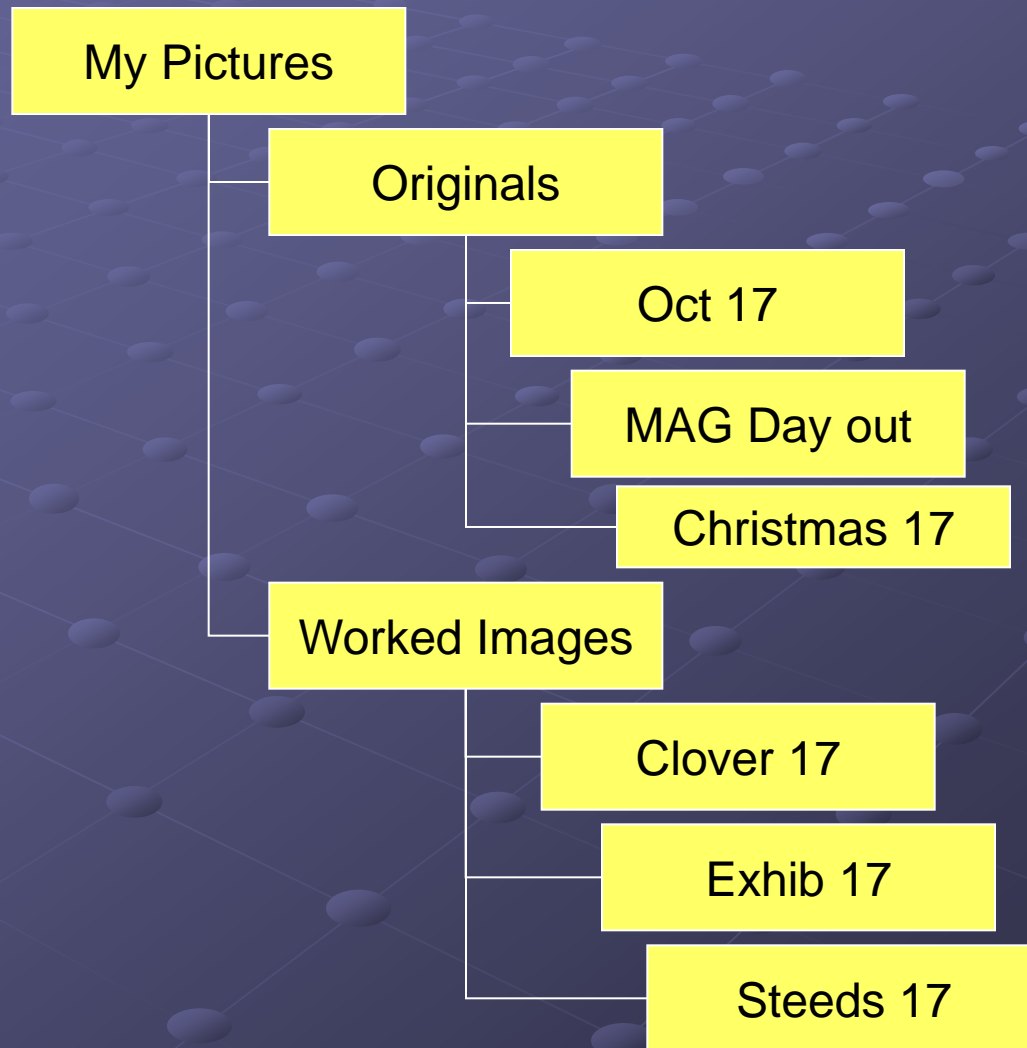
# RAW versus Jpeg

## ● Conclusions:

- Use RAW in “critical” situations such as:
  - Landscape, architectural, portraits, still life etc.
- Use Jpeg in fast moving situations such as:
  - Sport, fast moving bird photography, news
- Jpeg also good when storage space is short
- Use Jpeg until you are confident of your computer skills!
  - NB many compact cameras only shoot Jpeg

# Filing, Downloading and Storing

- Filing – set up using Windows Explorer (PC)



# Filing, Downloading and Storing

- Download using Bridge, Lightroom or Elements Organiser:
  - Card reader (NB may be built in to computer)
  - Portable storage device (USB usually)
  - Downloading from Camera to Computer
    - Can be very slow
    - Needs camera to be fully charged or on mains
    - May need proprietary software
- Download images to a folder in “Originals”

# Filing, Downloading and Storing

- Review Images using Lightroom, Adobe Bridge or Cataloguing software
- Jpegs can be reviewed using MS viewer
- Open image, **“Save As” immediately** to a folder in “Worked Images” with a meaningful name
- For “Save As” use PSD or TIFF not Jpeg
- Then adjust and manipulate as required and “Save” frequently as you progress
- Use “Save As” again when resizing to 1600 by 1200 for competition.
- **Never “Save” over an original image!!!**

# RAW versus Jpeg

## ● Free alternative to Bridge:

### ■ Faststone Viewer:

● <http://faststone.org/>

### ■ This is official site – do not download from anywhere else.

- An image browser, converter and editor that supports all major graphic formats including BMP, JPEG, JPEG 2000, GIF, PNG, PCX, TIFF, WMF, ICO, TGA and camera raw files. It has a nice array of features such as image viewing, management, comparison, red-eye removal, emailing, resizing, cropping, color adjustments, musical slideshow and much more.

# Backing up

- **Essential to Backup regularly**
- Back up to a different physical drive
  - An external drive is recommended
- Use proprietary software (can schedule this)  
OR
- Simply copy data folders to back up drive
- **Hard drives fail – it is not “if” it is “when”**



Any Questions?