

Basics 3

Basics 3

When it goes on the computer!

Image Format

Cameras record the image during the exposure this is stored on the memory card

Image Format

Cameras record the image during the exposure and this is stored on the memory card

- JPEG - processed

Image Format

Cameras record the image during the exposure and this is stored on the memory card

- JPEG - processed
- RAW - unprocessed

Raw

A **raw file** is a collection of unprocessed data. This means the **file** has not been altered, compressed, or manipulateded in any way by the camera

Raw

Unprocessed file

JPEG

Image already compressed

Raw

Unprocessed file

Large file size

JPEG

Image already compressed

Smaller file size

Raw

Unprocessed file

Large file size

Non-destructive processing

JPEG

Image already compressed

Smaller file size

Image deteriorates in processing

Raw

Unprocessed file

Large file size

Non-destructive processing

JPEG

Image already compressed

Smaller file size

Image deteriorates in processing

Depends how serious you want to be, but recommendation is always set camera on Raw

File Size: How many pictures for each setting?

Raw

ISO 100	1397
ISO 640	1359
ISO 25,600	1047

File Size: How many pictures for each setting?

	<u>Raw</u>	<u>JPEG</u>
		Large
ISO 100	1397	6597
ISO 640	1359	6320
ISO 25,600	1047	4084

File Size: How many pictures for each setting?

	<u>Raw</u>	<u>JPEG</u>	
		Large	Medium
ISO 100	1397	6597	9999
ISO 640	1359	6320	9999
ISO 25,600	1047	4084	8604

What software do I need to process my images?

Use the software that comes with your camera

Canon
EOS

OLYMPUS[®]

Nikon



Panasonic

SONY

FUJIFILM

Free Software

- Microsoft Photos for Windows 10 no
-  • Apple Photos for macOS RAW
-  • Picasa 3 (No Longer Supported) RAW (some)
-  • Gimp (NLS) no

Purchased Software



• Affinity

RAW

£48.99



• Elements

RAW

£89.90



• Luminar 4

RAW

£81



• ON1

RAW

£95



• Exposure X6

RAW

£98



• Lightroom

RAW

} combined rental



• Photoshop CC

No

} £9.98/month

Work Flow

- Take picture
- Load RAW files into 'Lightroom' (Catalogue)
- Basic adjustments
 - Crop /Straighten
 - Exposure adjustment
 - Minor clone /heal
- Maybe take across to other software to further modify /apply finish
- Export as JPEG

Cataloguing Images

Cataloguing:

Year	Month	Subject
2020	1 January	Pre Raphaelite Sisters
		Olivia Grace
		Stubby 10k
	2 February	Titchfield at Night
		Burlesque Night
		Elle Black
	3 March	TFT Hollywood Glamour 2
		Saffy & Elly

Loading Images

Adding profiles:

Some programs allow you to apply corrections to all pictures as they load

- Convert Camera RAW files to DNG files (industry standard)
- Apply Lens Corrections

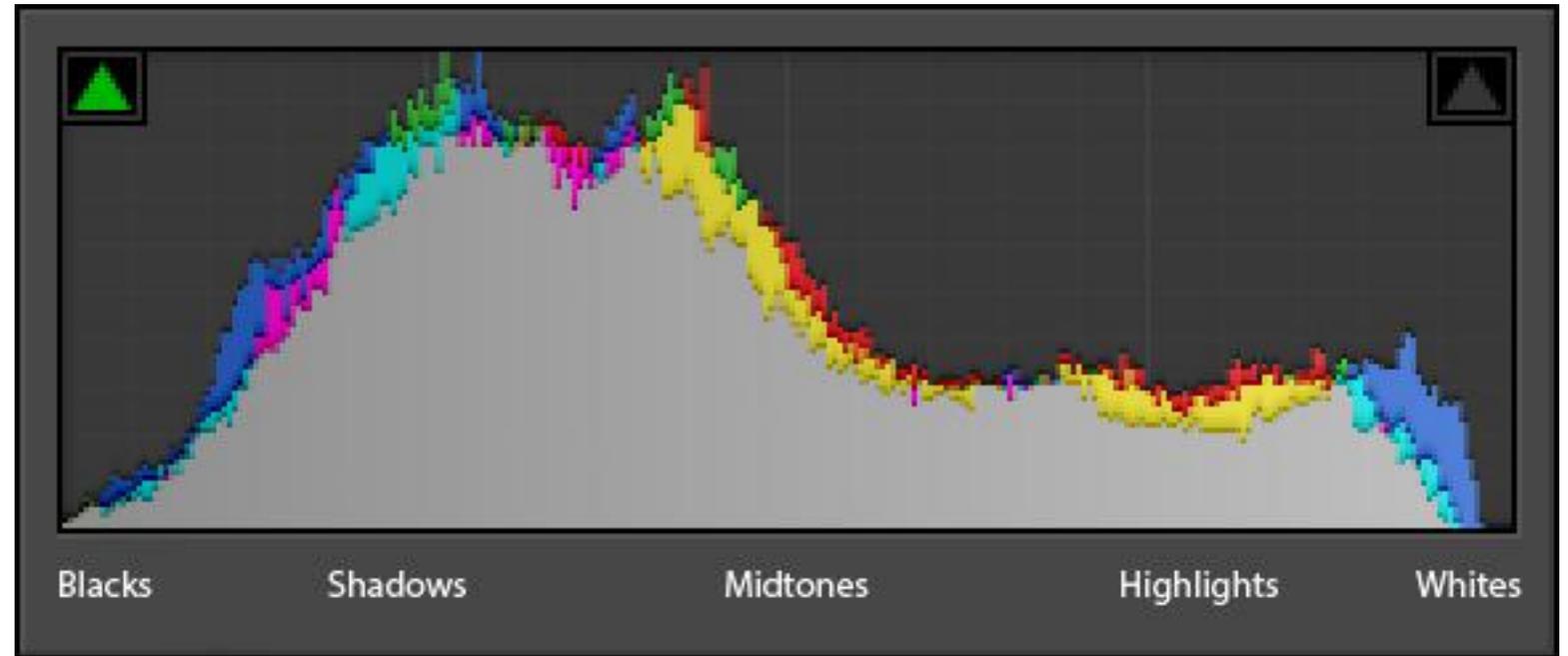
Loading Images

Some people use Keywords

e.g. Guillemot, sea bird, Bempton Cliffs, Bird swimming, bird at sea, Auk family, Yorkshire Belle etc. etc.



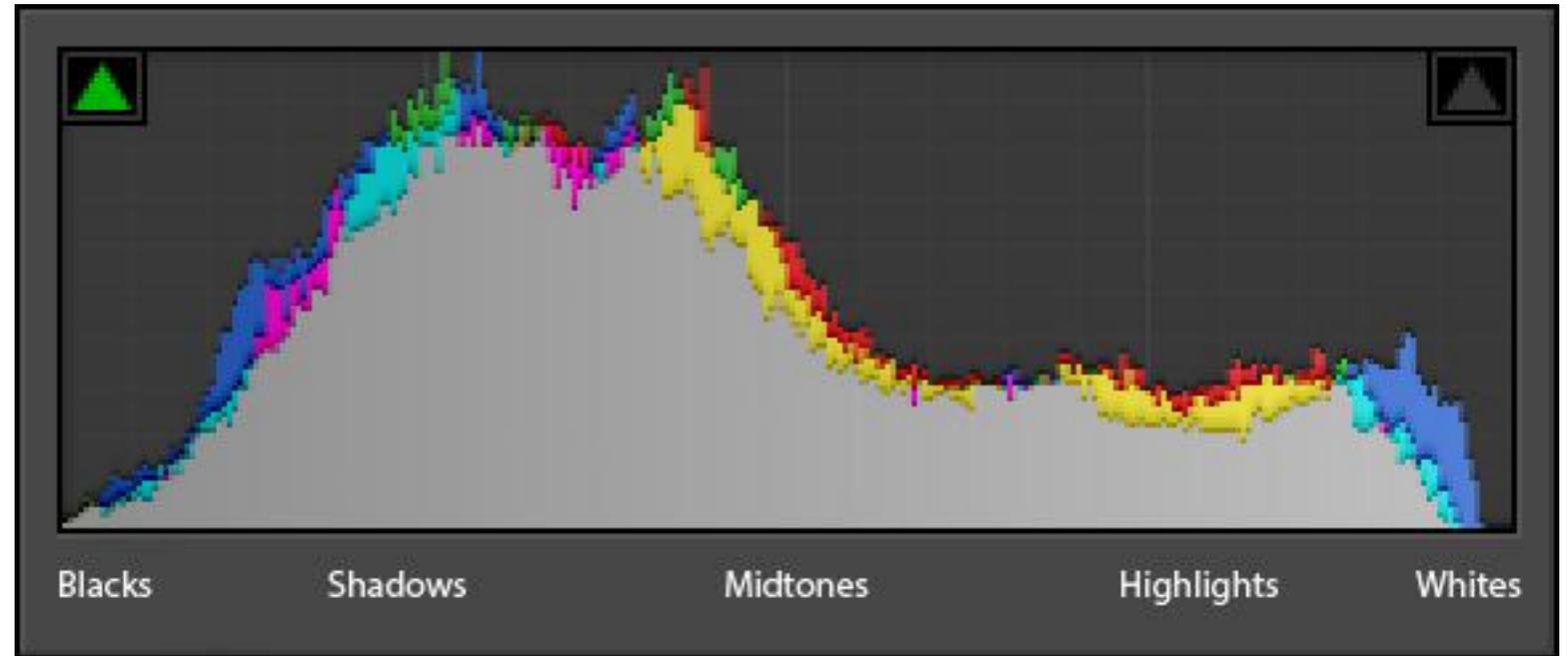
The Histogram



White and Black Clipping:

- If the Histogram graph goes beyond the right margin detail is lost in the whites
- Beyond the left margin detail is lost in the blacks

The Histogram



White and Black Clipping:

On this graph

- The blacks are just about right
- Possible to tweak the whites up a fraction

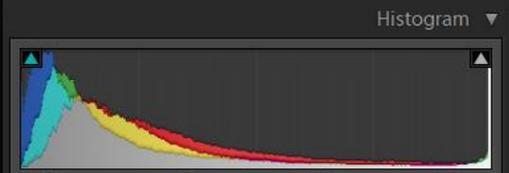
▼ Navigator FIT FILL 1:1 2:1



- Presets +
- Snapshots +
- History ×
 - Export - Hard Drive (10/16/2017 4:55:0...
 - Highlights -85 -15
 - Export - Hard Drive (10/15/2017 12:00:...
 - Saturation +26 -26
 - White Clipping -13 31
 - Clarity -71 71
 - Crop Rectangle
 - Crop Rectangle
 - White Clipping +44 44
 - Highlights -100 -100
 - Import (10/15/2017 10:37:28 AM)
- Collections +
 - Filter Collections
 - Smart Collections
 - Colored Red 1
 - Five Stars 18
 - Past Month 519
 - Recently Modi... 39
 - Video Files 47



Copy... Paste Soft Proofing



ISO 500 35 mm f / 4.0 1/20 sec

Original Photo

Basic ▼

Treatment: Color Black & White

WB: As Shot
Temp 3750
Tint -4

Tone Auto
Exposure 0.00
Contrast 0
Highlights -15
Shadows 0
Whites +31
Blacks 0

Presence
Clarity +71
Vibrance 0
Saturation +26

Tone Curve ◀

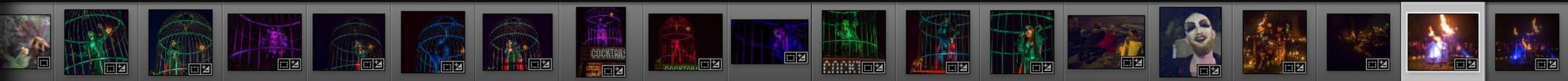
HSL / Color / B & W ◀

Split Toning ◀

Detail ▼

Previous Reset

1 2 ◀ ▶ Previous Import 39 photos / 1 selected / 203A0307.CR2



Filter: Filters Off

Adobe Lightroom 6
Get started with Lightroom mobile ▶

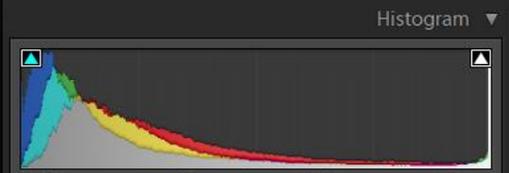
▼ Navigator FIT FILL 1:1 2:1



- Presets +
- Snapshots +
- History ×
 - Export - Hard Drive (10/16/2017 4:55:0...
 - Highlights -85 -15
 - Export - Hard Drive (10/15/2017 12:00:...
 - Saturation +26 -26
 - White Clipping -13 31
 - Clarity -71 71
 - Crop Rectangle
 - Crop Rectangle
 - White Clipping +44 44
 - Highlights -100 -100
 - Import (10/15/2017 10:37:28 AM)
- Collections +
 - Filter Collections
 - Smart Collections
 - Colored Red 1
 - Five Stars 18
 - Past Month 519
 - Recently Modi... 39
 - Video Files 47



Copy... Paste Soft Proofing



ISO 500 35 mm f / 4.0 1/20 sec

Original Photo

Basic ▼

Treatment: Color Black & White

WB: As Shot
Temp 3750
Tint -4

Tone Auto
Exposure 0.00
Contrast 0
Highlights -15
Shadows 0
Whites +31
Blacks 0

Presence
Clarity +71
Vibrance 0
Saturation +26

Tone Curve ◀

HSL / Color / B & W ◀

Split Toning ◀

Detail ▼

Previous Reset

1 2 Previous Import 39 photos / 1 selected / 203A0307.CR2



Filter: Filters Off

▼ Navigator FIT FILL 1:1 2:1



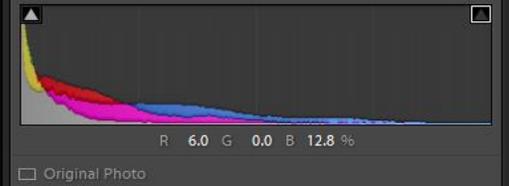
- Presets +
- Snapshots +
- History ×
 - Export - Hard Drive (10/16/2017 4:55:3...
 - Black Clipping -21 -21
 - Export - Hard Drive (10/15/2017 11:59:...
 - Crop Rectangle
 - Crop Rectangle
 - Crop Rectangle
 - Crop Rectangle
 - White Clipping -61 61
 - Highlights -100 -100
 - Crop Rectangle
 - Crop Rectangle
 - Crop Angle -2.84 -2.84
 - Import (10/15/2017 10:31:58 AM)
- Collections +
 - Filter Collections
 - Smart Collections
 - Colored Red 1
 - Five Stars 18
 - Past Month 519

Copy... Paste



Soft Proofing

Histogram ▼



Original Photo

Basic ▼

Treatment: Color Black & White

WB: As Shot

Temp 6950

Tint -6

Tone Auto

Exposure 0.00

Contrast 0

Highlights -100

Shadows 0

Whites +61

Blacks -21

Presence

Clarity 0

Vibrance 0

Saturation 0

Tone Curve ◀

HSL / Color / B & W ◀

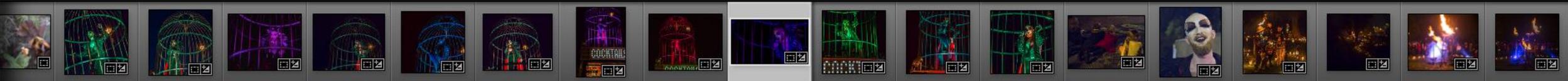
Split Toning ◀

Detail ▼

Previous Reset

1 2 Previous Import 39 photos / 1 selected / 203A0248.CR2

Filter: Filters Off



Adobe Lightroom 6
Get started with Lightroom mobile ▶

Navigator FIT FILL 1:1 2:1



- Presets +
- Snapshots +
- History x
 - Export - Hard Drive (10/16/2017 4:55:3...
 - Black Clipping -21 -21
 - Export - Hard Drive (10/15/2017 11:59:...
 - Crop Rectangle
 - Crop Rectangle
 - Crop Rectangle
 - Crop Rectangle
 - White Clipping -61 61
 - Highlights -100 -100
 - Crop Rectangle
 - Crop Rectangle
 - Crop Angle -2.84 -2.84
 - Import (10/15/2017 10:31:58 AM)

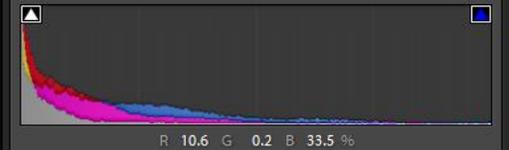
- Collections +
 - Filter Collections
 - Smart Collections
 - Colored Red 1
 - Five Stars 18
 - Past Month 519

Copy... Paste



Soft Proofing

Histogram



Original Photo
R 10.6 G 0.2 B 33.5 %

Basic

Treatment: Color Black & White

WB: As Shot

Temp 6950
Tint -6

Tone Auto

Exposure 0.00
Contrast 0

Highlights -100
Shadows 0
Whites +61
Blacks -21

Presence

Clarity 0
Vibrance 0
Saturation 0

Tone Curve

HSL / Color / B & W

Split Toning

Detail

Previous Reset

39 photos / 1 selected / 203A0248.CR2





This is Anne in the Banksey Chair



Let's work through all the adjustments done to this Raw image in LightRoom



- Straighten the horizon
- Bit off the top and minimal amount off other edges



Highlights Tool:
Brings out detail in sky





Shadow Tool:

Opens up the darker detail - important here as Ann is in shadow (sun is rear right)

It can make the image a bit flat



Contrast and Clarity





Adjustment Brush: 'painted on' alterations, here I have lightened Ann and the chair



Adjustment Brush: here I have applied tanning lotion to Ann's legs, and a bit more cropping





White Clipping and Black Clipping
Slight tweak to each



Vignette: -10
This darkens the edges and brings the sky
up a bit more



Final tweaks: enable lens profile, and more adjustment brush



... and after



before



