



**Please
Turn off Your
Mobile Phones**

Llantwit Major Photographic Club

#17 - 8 November 2022



How was it for you?





Llantwit Major Photography Club

[Welcome](#) [About](#) [News](#) [Programme](#) [Galleries](#) [Members Area](#)

[About us](#)

[Documentation](#)

Club documentation

The following documents describe some key principles, approach and policies of the club.

[Constitution](#)

[Health and Safety Policy](#)

[Data Protection Policy](#)

+ New members galleries



Llantwit Major Photography Club

[Welcome](#) [About](#) [News](#) [Programme](#) [Galleries](#) [Members Area](#)

Sun, 6 November [Expand](#)

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Categories

NOV
6
SUN

[Homework #16 - hand in](#)

6 Nov, 2022

NOV
8
TUE

★ Featured

[Club meeting #17 - HDR & Focus Stacking](#)

8 Nov, 2022

The AGM



Reminder

Critique #2 - Kickoff

Theme - Empty

Closing date **13th November 2022**



??



Homework



Richard Skinner



Eric Roy



Geoff Poole



Chloe Monaghan



Cled Lewis



Andy Mont



Cheryl Chappell



Kelley Howlett



Peter Dennis



Jane Cook



Pamela Lewis



Alison Deere



Rachael Hughes

Rachael Hughes
PHOTOGRAPHY



Colin Davies

© Colin Davies Photography



John Dudley



James Wild

High Dynamic Range

Neil Aubin

What is it?

- “Multi-exposure High Dynamic Range capture”
- A technique to represent significant range of light/luminosity within a scene
- One aim of HDR is to present a similar range of luminance to that experienced through the human visual system (eyes + brain)



Comparison

- The human eye can typically cover a range of around 24 f-stops
- Even high end, full frame DSLRs only get to around 15 f-stops
- The human eye is remarkable...
 - The human eye, through non-linear response, adaptation of the iris, and other methods, adjusts constantly to a broad range of luminance present in the environment.
 - The brain continuously interprets this information so that a viewer can see in a wide range of light conditions.



How is it done

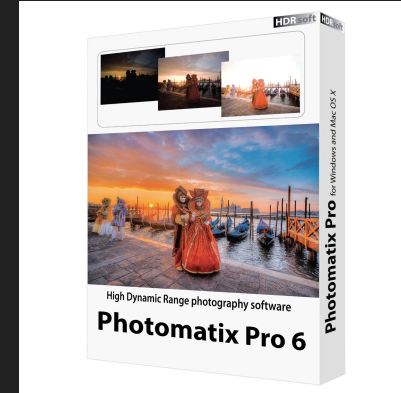
- Multiple images taken at different exposures
- Combined together in software
- Auto Exposure Bracketing
- My preference are 3 images: -1, 0, +1 steps





What software?

- Examples: Photoshop, Capture One, Lightroom, Aurora HDR, EasyHDR, HDR PhotoStudio, Nik Collection, HDR Efex Pro, Photomatix Pro, SNS-HDR, Affinity Photo, Dynamic Photo HDR, GIMP, Luminance HDR, Oloneo PhotoEngine, PTGUI, Picturenaut 3, FDRTools, etc
- I use Photomatix Pro.
- Many have try before you buy.
- Free = Luminance HDR, Picturenaut 3, FDRTools, easyHDR BASIC 2, GIMP



HDR SETTINGS

Fusion/Natural

Strength 10.0

Exposure Balance 0.0

Local Contrast 10.0

White Clip 0.0

Black Clip 0.0

360° panorama

COLOR SETTINGS

Image Colors*

Saturation 0.0

Temperature 0

Brightness -2.0

Reset All Color Settings

BLENDING

Blend with 0 EV photo

Opacity 0

Preset: Unlisted



Show Original



100%



- All Styles
- Detailed
 - Balanced
 - Realistic
 - Photographic
 - Natural
 - Painterly
 - Painterly 2
 - Painterly 3
 - Painterly 4
 - Painterly 5

Next: Finish

Built-in My Presets

70 settings, 40 presets

Common problems/effects

- Alien looking
- Movement / Ghosting
- Color vs mono
- Halo effects

Alien looking



Movement/ Ghosting



Color vs mono



Halo



Good for...

- Architecture, Landscape
- Moody
- Abstract
- Wide light range scenarios
- Estate agents!

Not so good for...

- Documentary/accuracy
- People
- Action + lack of light
- Fauna/movement - e.g. breezes



Demo

Gallery







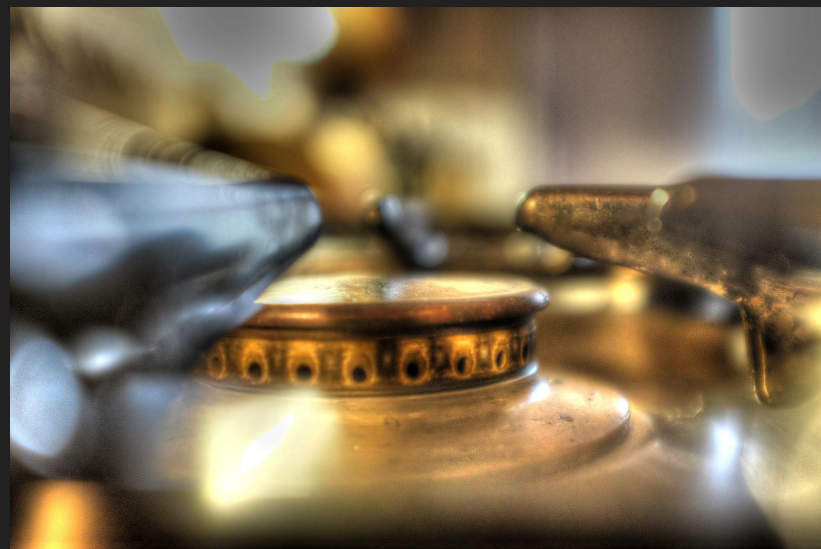



















A decorative fan with a blue and white pattern on an orange background. The fan is partially open, showing the intricate design of the blades. The background is a solid orange color.

More examples on my website
www.myeyespy.com

Thank you

Lots more examples on my website -
www.myeyespy.com

Thank you



Llantwit Major Photographic Club

8th November 2022

Focus Stacking

Focus Stacking – What is it & why use it?

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- With a **telephoto lens** when you are trying to frame a distant subject in a scene where there are elements are at different distances and you want to get everything in focus.

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- In **macro photography** when you want your **images in focus** all the way through.

Focus Stacking – What is it & why use it?

- Why not just use a low f-stop, say f-22?

Focus Stacking – What is it & why use it?

- Why not just use a low f-stop, say f-22?
- In extreme close up images even at f-22 may not make everything sharp.
- Lighting conditions may not allow for it.
- Often the 'sweet spot' of your lens is around f-5.6 to f-11.
- Using these mid range f-stops will give you the sharpest image.
- The advantage of focus stacking will give you a very precise control over your image.

Focus Stacking - Examples



Image by Tom Bricker

Focus Stacking - Examples



Focus Stacking - Examples



Focus Stacking - Examples



Focus Stacking - Examples



Focus Stacking - Examples



This example is made up from 9 images.

Image by Mark Lunn

Focus Stacking – How To Do It

Focus Stacking – How To Do It

- Two parts to producing a focus stacked image:

Focus Stacking – How To Do It

- Two parts to producing a focus stacked image:
- Shooting

Focus Stacking – How To Do It

- Two parts to producing a focus stacked image:
- Shooting
- Post processing

Focus Stacking – Shooting

Focus Stacking – Shooting

- A camera that can be used in Manual Mode

Focus Stacking – Shooting

- A camera that can be used in Manual Mode
- A tripod

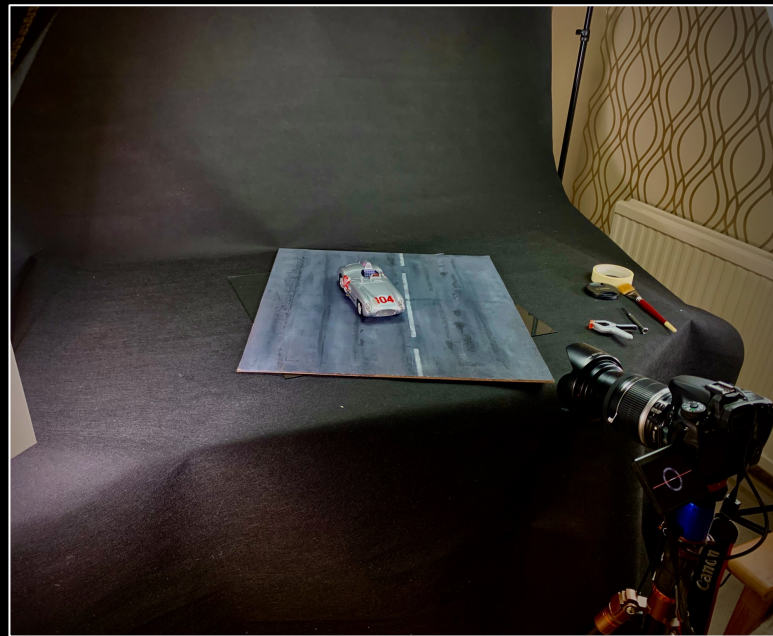
Focus Stacking – Shooting

- A camera that can be used in Manual Mode
- A tripod
- Remote shutter release/time delay shutter release

Focus Stacking – Shooting



Focus Stacking – Shooting



Focus Stacking – Shooting



Frame up shot and lock off camera on tripod.

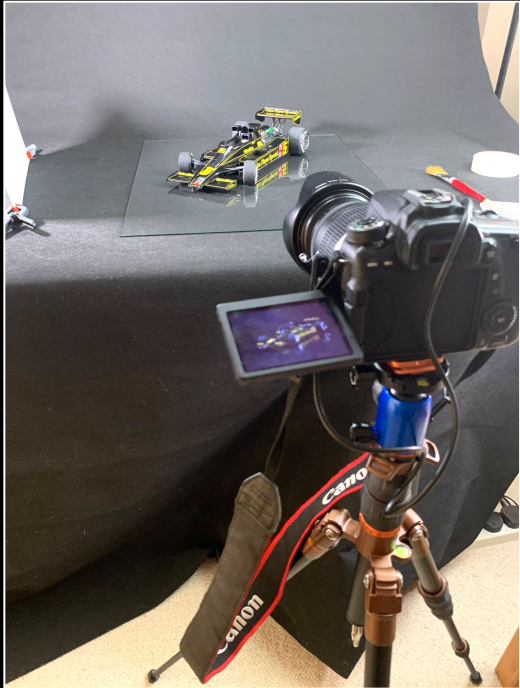
Switch lens to Manual Focus (MF)

Switch Stability to off.

Take a light reading to set your exposure, either from a light meter or camera light meter and set your aperture & shutter speed.

Set camera to manual (M).

Focus Stacking – Shooting



Using the focus ring on the lens, focus on the nearest point of the object.

It helps to use the fold out screen & use its zoom in function to get a closer look. You can check if your focus point is pin sharp.

Stand back, wait a few seconds, then take the shot using the remote shutter release.

Focus Stacking – Shooting



Next..

Don't touch anything! Except the focus ring. Refocus slightly behind your first focus point.

Use the fold out screen and its zoom in function again to find a pin sharp focus point.

Try to imagine a series of receding slices through your object.

Stand back, then take the shot.

Focus Stacking – Shooting



Repeat this until you have taken several 'slices' at a number of points until you reach the back of your object or scene.

Depending on your image and F-Stop you can take as little as three or four images but I find around seven to ten images works for me.

Taking more than this may slow your computer to a crawl when we comes to processing the image.

Focus Stacking – Post Processing

Focus Stacking – Post Processing

- Lots of software available to focus stack your images

Photo Shop

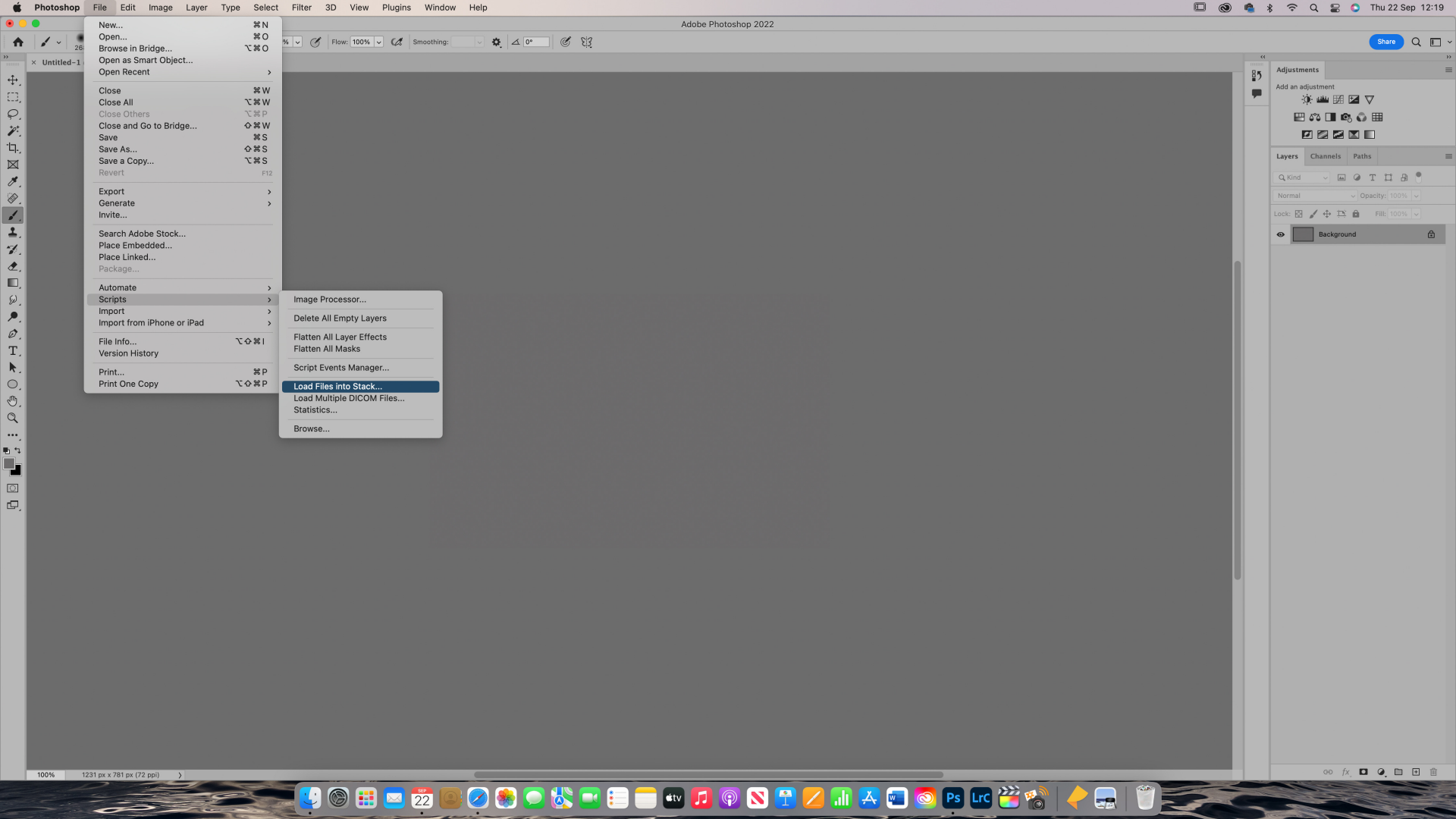
Photo Shop Element

Light Room

ON1 Photo RAW

Helicon Focus

Zerene Stacker



- New... ⌘N
- Open... ⌘O
- Browse in Bridge... ⇧⌘O
- Open as Smart Object...
- Open Recent
- Close ⌘W
- Close All ⇧⌘W
- Close Others ⇧⌘P
- Close and Go to Bridge... ⌘⇧W
- Save ⌘S
- Save As... ⌘⇧S
- Save a Copy... ⇧⌘S
- Revert F12
- Export
- Generate
- Invite...
- Search Adobe Stock...
- Place Embedded...
- Place Linked...
- Package...
- Automate
- Scripts
- Import
- Import from iPhone or iPad
- File Info... ⇧⌘I
- Version History
- Print... ⌘P
- Print One Copy ⇧⌘P

- Image Processor...
- Delete All Empty Layers
- Flatten All Layer Effects
- Flatten All Masks
- Script Events Manager...
- Load Files into Stack...**
- Load Multiple DICOM Files...
- Statistics...
- Browse...

Adjustments

Add an adjustment

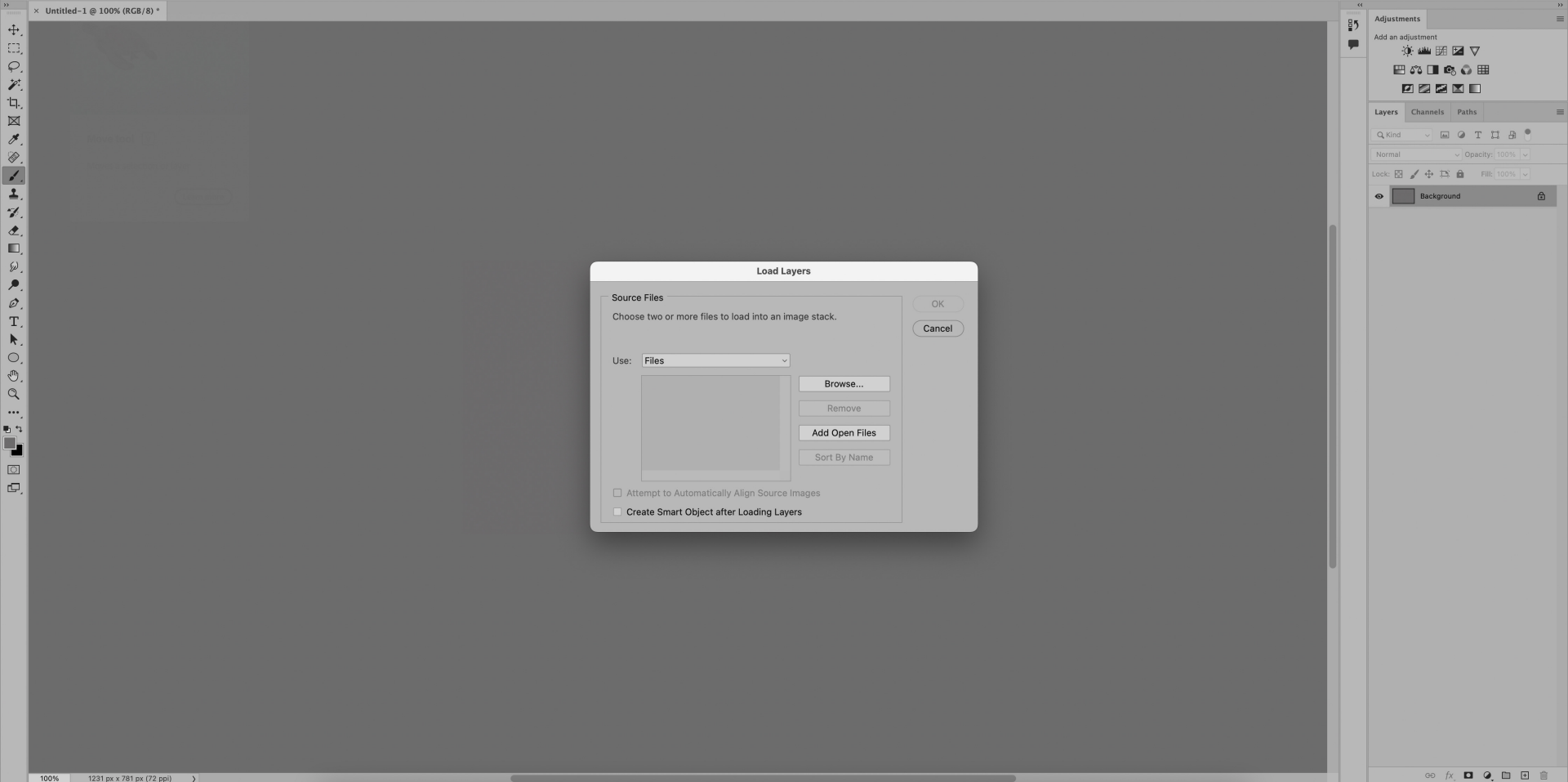
Layers Channels Paths

Normal Opacity: 100%

Lock: [] [] [] [] Fill: 100%

Background





Load Layers

Source Files
Choose two or more files to load into an image stack.

Use: Files

Browse...
Remove
Add Open Files
Sort By Name

Attempt to Automatically Align Source Images
 Create Smart Object after Loading Layers

OK
Cancel

Untitled

Favourites


- Recents
- Applications
- Desktop
- Documents
- Downloads
- Creative Clou...
- peter
- iCloud
- iCloud Drive
- Shared
- Locations
- Peter's iMac
- LaCie-01
- LaCie-02
- Network
- Tags
- Corfu
- Montenegro
- Kotor
- Red
- Orange
- Yellow
- Green
- All Tags...
- Media
- Music
- Photos
- Movies

Front 2

Search

- _Photography
 - Bills (Utilities)
 - FamilyArchive
 - FREELANCE
 - Greg Shoot
 - Holiday Videos
 - Start_Here_Mac
 - Start_Here_Win.exe
 - Warranty.pdf
 - Websites
- _Clubs
 - _Model Car Photography
 - Canon 70D
 - Canon G7X Mk3
 - Colour Neg Scans
 - Glyn Dewis Book
 - Loxley Printing
- Airbus Comp
 - Bel Air
 - Corvette
 - Dodge Viper
 - Examples
 - Ferrari
 - image1.jpeg
 - image1.psd
 - image2.jpeg
 - image3.jpeg
 - IMG_6255.jpg
 - Lotus
 - Mercedes
 - MG_01_iphone.jpg
 - MG_01.jpg
 - MG_01.psd
 - MG_02_iphone.jpg
 - Smoke
- Full
 - Half
- Front
 - Front 2
 - Rear+Open Door

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 _MG_3631-Half Size.TIF
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 _MG_3636-Half Size.TIF
 _MG_3637-Half Size.TIF
 121_01_The A...Miniature.jpg
 Bel Air Frnt-Fl...oad Edit 1.jpg
 Bel Air Frnt-Fl...oad Edit 1.psd
 Bel Air Frnt-Fl...Road Edit 1.tif
 Bel Air Frnt-Fl...oad Edit 2.jpg
 Bel Air Frnt-Fl...Road Edit 2.tif
 Bel Air Frnt-Fl...oad Edit 3.jpg
 Bel Air Frnt-Fl...Road Edit 3.tif
 Bel Air Frnt-Fl...d Stacked.psd
 Bel Air Frnt-Fl...ad Stacked.tif



7 items
7 documents - 105.8 MB

Information [Show More](#)

Created	7 Apr 2022
Modified	7 Apr 2022
Dimensions	2736 x 1824
Resolution	300 x 300

Tags
Add Tags...

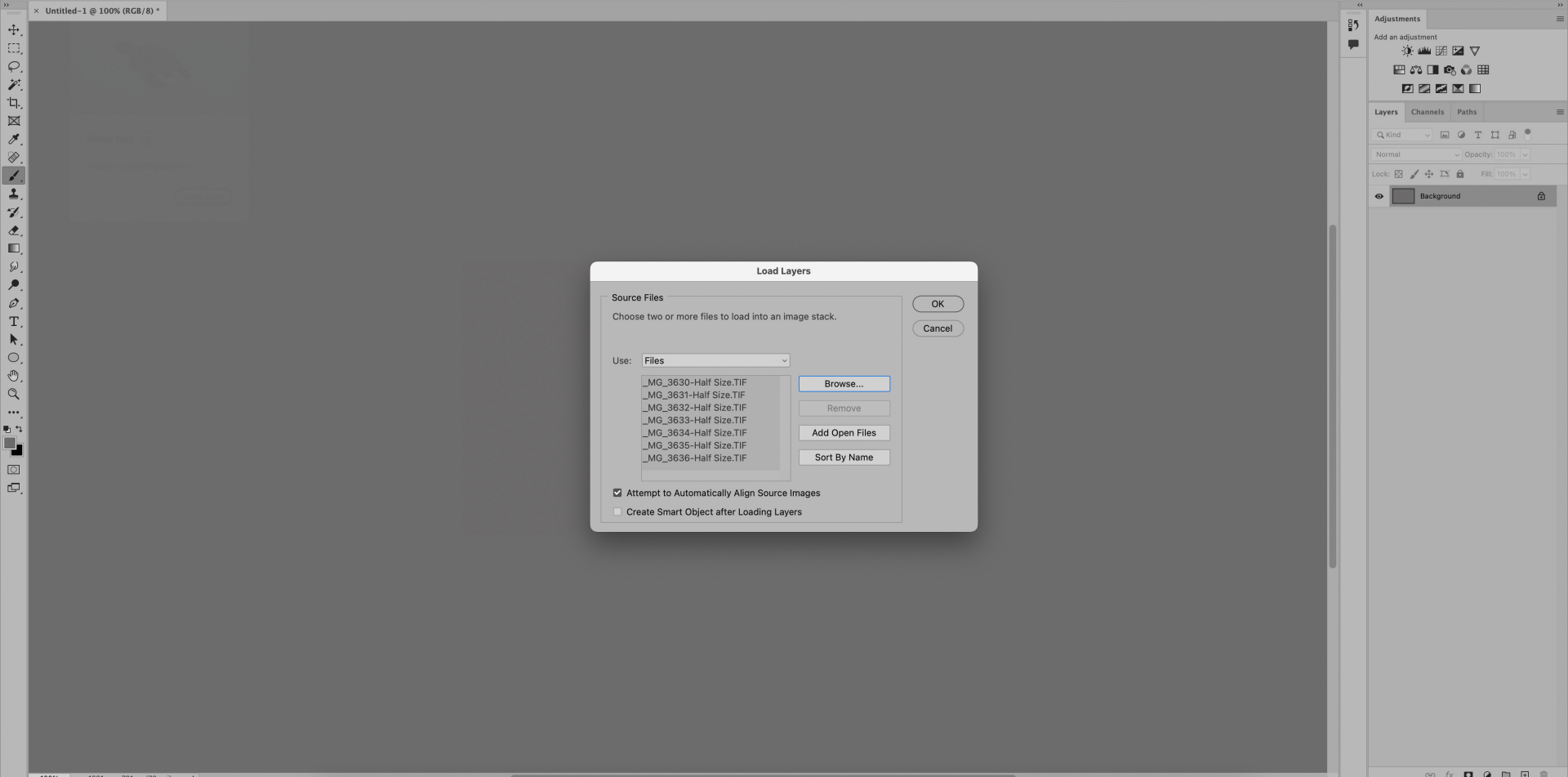
Open cloud documents

Enable: All Readable Documents

Format: Photoshop

Options

Cancel Open



Load Layers

Source Files

Choose two or more files to load into an image stack.

Use: Files

- _MG_3630-Half Size.TIF
- _MG_3631-Half Size.TIF
- _MG_3632-Half Size.TIF
- _MG_3633-Half Size.TIF
- _MG_3634-Half Size.TIF
- _MG_3635-Half Size.TIF
- _MG_3636-Half Size.TIF

Attempt to Automatically Align Source Images

Create Smart Object after Loading Layers

Adjustments

Add an adjustment

Layers Channels Paths

Normal Opacity: 100%

Lock: Fill: 100%

Background

Untitled-1 @ 100% (RGB/8) *



Adjustments

Add an adjustment

Layers Channels Paths

Normal Opacity: 100%

Lock: Fill: 100%

Background

Load Layers

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Choose two or more files to load into an image stack.

Use: Files

- _MG_3630-Half Size.TIF
- _MG_3631-Half Size.TIF
- _MG_3632-Half Size.TIF
- _MG_3633-Half Size.TIF
- _MG_3634-Half Size.TIF
- _MG_3635-Half Size.TIF
- _MG_3636-Half Size.TIF

Buttons: Browse... Remove Add Open Files Sort By Name

Attempt to Automatically Align Source Images

Create Smart Object after Loading Layers

Buttons: OK Cancel





Adjustments
Add an adjustment
[Icons for various adjustment layers]

Layers Channels Paths
Kind [Dropdown]
Normal Opacity: 100% Fill: 100%
Lock: [Icons]
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[Layer 2] _MG_3631-Half Size.TIF
[Layer 3] _MG_3632-Half Size.TIF
[Layer 4] _MG_3633-Half Size.TIF
[Layer 5] _MG_3634-Half Size.TIF
[Layer 6] _MG_3635-Half Size.TIF
[Layer 7] _MG_3636-Half Size.TIF



- New... ⌘ N
- Open... ⌘ O
- Browse in Bridge... ⌘ # O
- Open as Smart Object...
- Open Recent
- Close ⌘ W
- Close All ⌘ # W
- Close Others ⌘ # P
- Close and Go to Bridge... ⌘ # W
- Save ⌘ S
- Save As... ⌘ # S
- Save a Copy... ⌘ # S
- Revert F12
- Export
- Generate
- Invite...
- Search Adobe Stock...
- Place Embedded...
- Place Linked...
- Package...
- Automate
- Scripts
- Import
- Import from iPhone or iPad
- File Info... ⌘ # I
- Version History
- Print... ⌘ P
- Print One Copy ⌘ # P

- Batch...
- PDF Presentation...
- Create Droplet...
- Crop and Straighten Photos
- Merge to HDR Efex Pro 2...
- Nik Selective Tool 2...
- Contact Sheet II...
- Conditional Mode Change...
- Fit Image...
- Lens Correction...
- Merge to HDR Pro...
- Photomerge...**

Adjustments

Add an adjustment

Layers Channels Paths

Normal Opacity: 100%

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- New... ⌘N
- Open... ⌘O
- Browse in Bridge... ⌘#O
- Open as Smart Object...
- Open Recent
- Close ⌘W
- Close All ⌘#W
- Close Others ⌘#P
- Close and Go to Bridge... ⌘#W
- Save ⌘S
- Save As... ⌘#S
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Adjustments

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- _MG_3636-Half Size.TIF



Auto-Blend Layers

Blend Method

Panorama

Stack Images

Seamless Tones and Colors

Content Aware Fill Transparent Areas

OK

Cancel

Adjustments

Add an adjustment

Layers Channels Paths

Kind: [dropdown] Opacity: 100%

Lock: [checkbox] [checkbox] [checkbox] Fill: 100%

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- ._MG_3635-Half Size.TIF
- ._MG_3636-Half Size.TIF



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Content Aware Fill Transparent Areas

OK Cancel

Adjustments

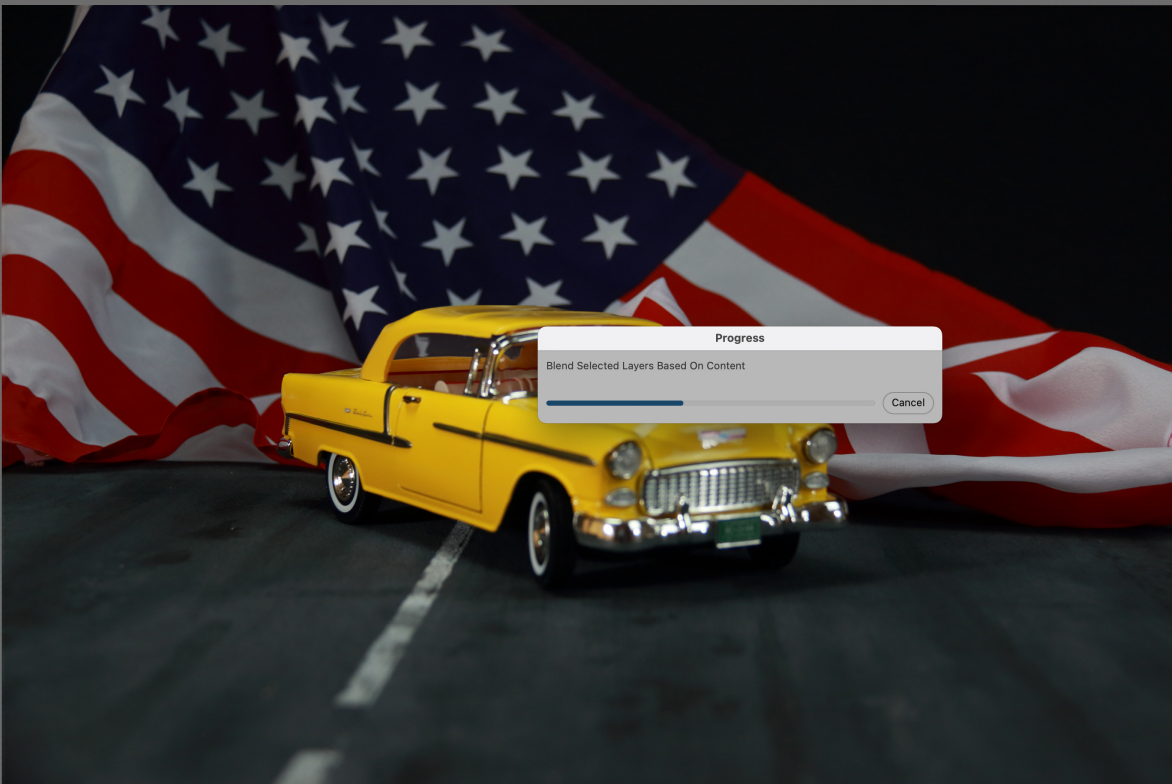
Add an adjustment

Layers Channels Paths

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Lock: Fill: 100%

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- ._MG_3632-Half Size.TIF
- ._MG_3633-Half Size.TIF
- ._MG_3634-Half Size.TIF
- ._MG_3635-Half Size.TIF
- ._MG_3636-Half Size.TIF



Progress

Blend Selected Layers Based On Content

Cancel

Adjustments

Add an adjustment

Layers Channels Paths

Kind Opacity: 100%

Normal Opacity: 100%

Lock: Fill: 100%

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- ._MG_3633-Half Size.TIF
- ._MG_3634-Half Size.TIF
- ._MG_3635-Half Size.TIF
- ._MG_3636-Half Size.TIF



Adjustments

Add an adjustment

- Levels
- Curves
- Color Balance
- Hue/Saturation
- Channel Mixer
- Black and White
- Camera Raw Filter
- Gradient Map
- Posterize
- Threshold
- Van Dijk

Layers Channels Paths

Kind

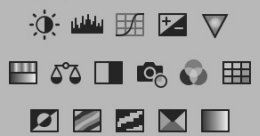
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- ._MG_3631-Half Size.TIF
- ._MG_3632-Half Size.TIF
- ._MG_3633-Half Size.TIF
- ._MG_3634-Half Size.TIF
- ._MG_3635-Half Size.TIF
- ._MG_3636-Half Size.TIF

Adjustments

Add an adjustment



Layers

Channels

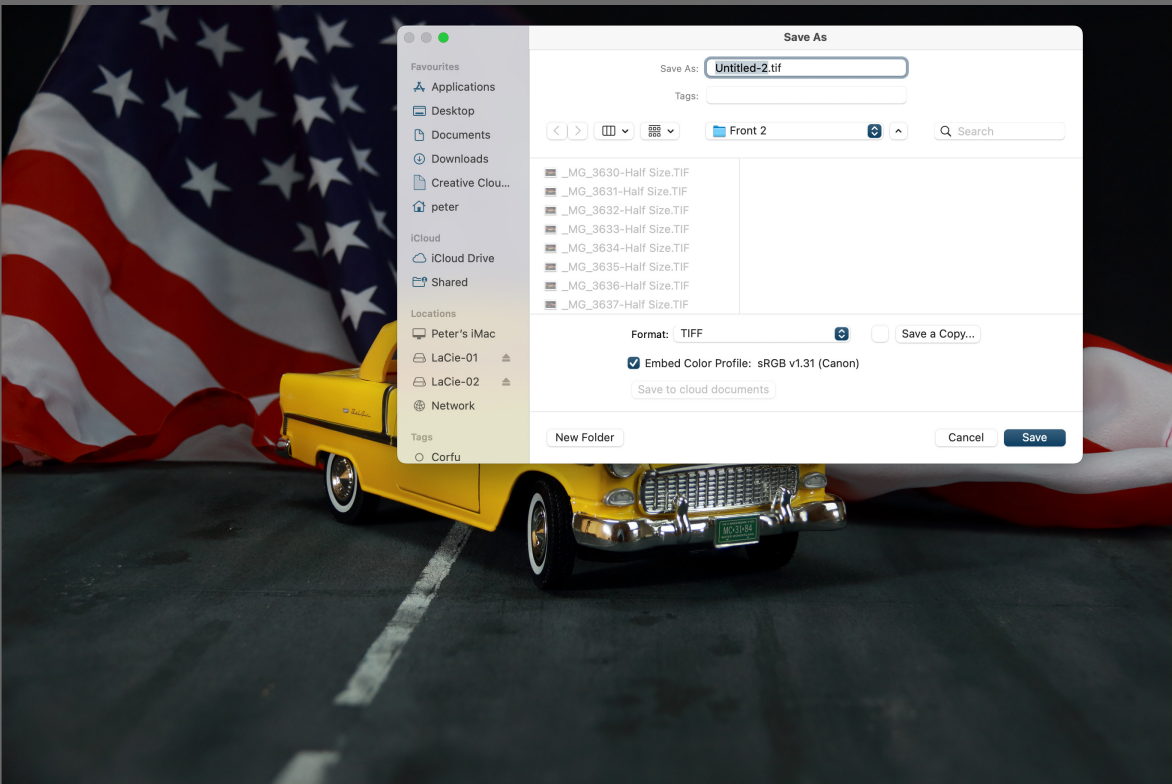
Paths

Q Kind [dropdown] [image icon] [circle icon] [text icon] [crop icon] [copy icon] [opacity icon]

Normal [dropdown] Opacity: 100% [dropdown]

Lock: [checkbox] [lock icon] [move icon] [fill icon] Fill: 100% [dropdown]

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- _MG_3635-Half Size.TIF
- _MG_3636-Half Size.TIF



Save As

Save As:

Tags:

Front 2

- ._MG_3630-Half Size.TIF
- ._MG_3631-Half Size.TIF
- ._MG_3632-Half Size.TIF
- ._MG_3633-Half Size.TIF
- ._MG_3634-Half Size.TIF
- ._MG_3635-Half Size.TIF
- ._MG_3636-Half Size.TIF
- ._MG_3637-Half Size.TIF

Format: **TIFF** Save a Copy...

Embed Color Profile: sRGB v1.31 (Canon)

Adjustments

Add an adjustment

Layers Channels Paths

Q Kind

Normal Opacity: 100%

Lock: Fill: 100%

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- ._MG_3630-Half Size.TIF
- ._MG_3631-Half Size.TIF
- ._MG_3632-Half Size.TIF
- ._MG_3633-Half Size.TIF
- ._MG_3634-Half Size.TIF
- ._MG_3635-Half Size.TIF
- ._MG_3636-Half Size.TIF

Bel Air Frnt-Flag-Road Edit 1.psd @ 100% (Dodge Highlight On Bonnet, RGB/8) *



Adjustments

Add an adjustment

Layers Channels Paths

Kind Opacity: 100%

Lock: Fill: 100%

- Key Lines
- Grain
 - Smart Filters
 - Add Noise
- Curves 1
- Gradient Map 1
- Body Line Highlight
- Hue/Saturation 1
- Corner Darkening
- Lens Flare
- Headlights
 - Night Time
 - Levels 1
 - Star Background
 - Real BG
 - Flag Darken Right
 - Fog Levels
 - Fog
 - Spotlight
 - Under Car Shadow Lighter
 - Color Fill Bonnet Highlight
 - Dodge Highlight On Bonnet
 - Levels 3
 - Chrome Highlights
 - Bel-Air 1955
 - Background

Bel Air Frnt-Flag-Road Edit 1.psd @ 100% (Dodge Highlight On Bonnet, RGB/8) *



Adjustments

Add an adjustment

Layers Channels Paths

Kind Opacity: 100% Fill: 100%

Lock: Key Lines Grain Smart Filters Add Noise Curves 1 Gradient Map 1 Body Line Highlight Hue/Saturation 1 Corner Darkening Lens Flare Headlights Night Time Levels 1 Star Background Real BG Flag Darken Right Fog Levels Fog Spotlight Under Car Shadow Lighter Color Fill Bonnet Highlight Dodge Highlight On Bonnet Levels 3 Chrome Highlights Bel-Air 1955 Background



Adjustments

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- Real BG
- Flag Darken Right
- Fog Levels
- Fog
- Spotlight
- Under Car Shadow Lighter
- Color Fill Bonnet Highlight
- Dodge Highlight On Bonnet
- Levels 3
- Chrome Highlights
- Bel-Air 1955
- Background



Adjustments

Add an adjustment
[Icons for various adjustment layers]

Layers Channels Paths

Kind [dropdown] T [checkbox] Y [checkbox] [checkbox]
Normal Opacity: 100%
Lock: [checkbox] [checkbox] [checkbox] Fill: 100%

- Key Lines
- Grain
 - Smart Filters
 - Add Noise
- Curves 1
- Gradient Map 1
- Body Line Highlight
- Hue/Saturation 1
- Corner Darkening
- Lens Flare
- Headlights
 - Night Time
 - Levels 1
- Star Background
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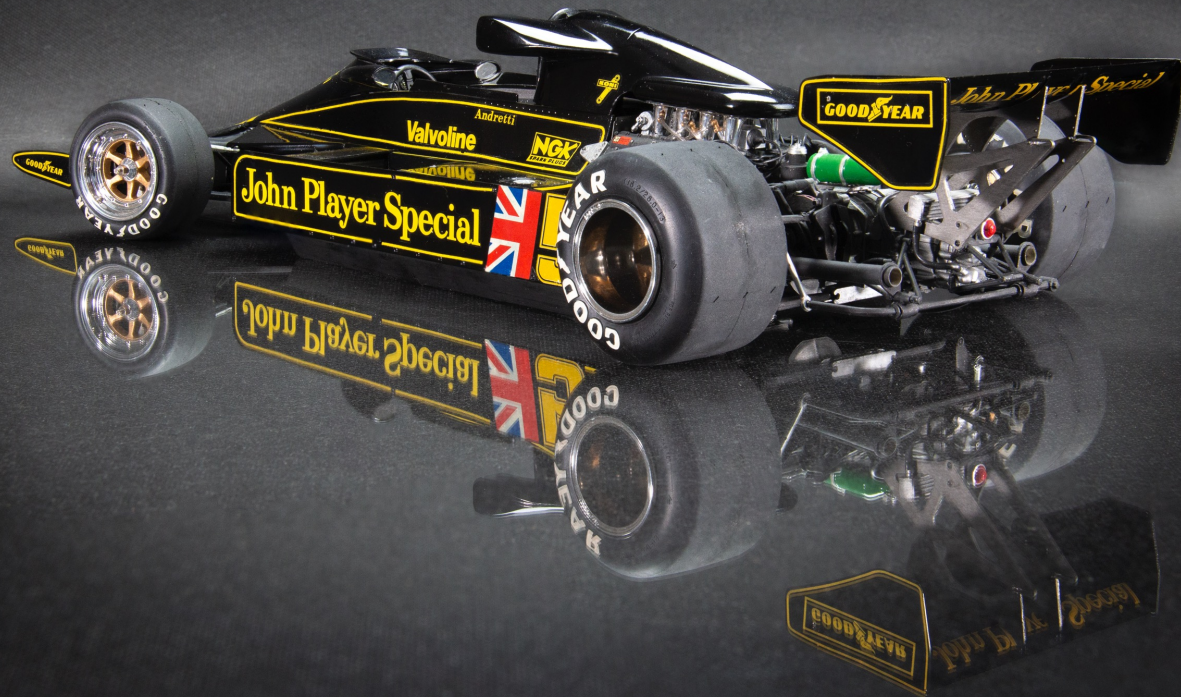




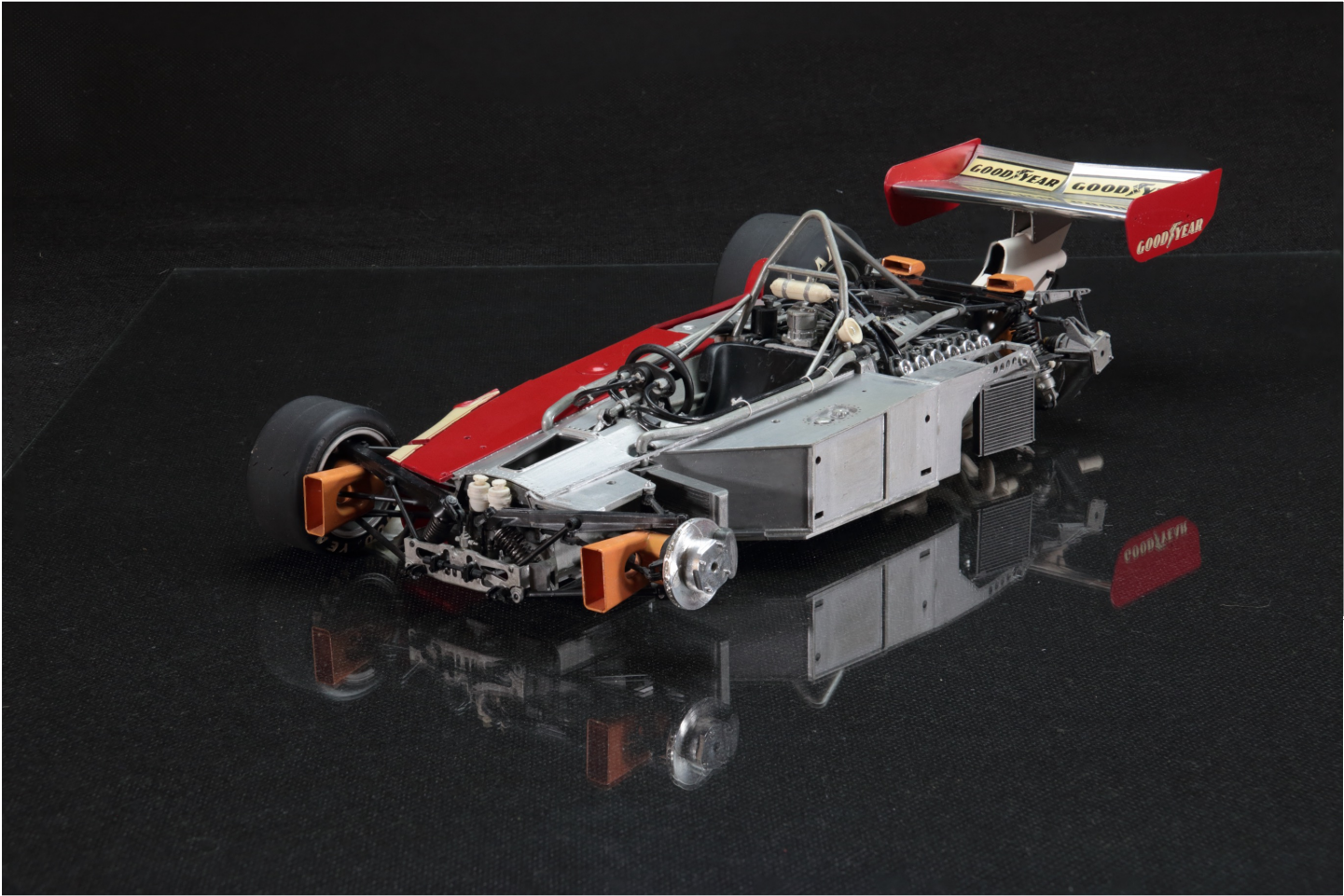




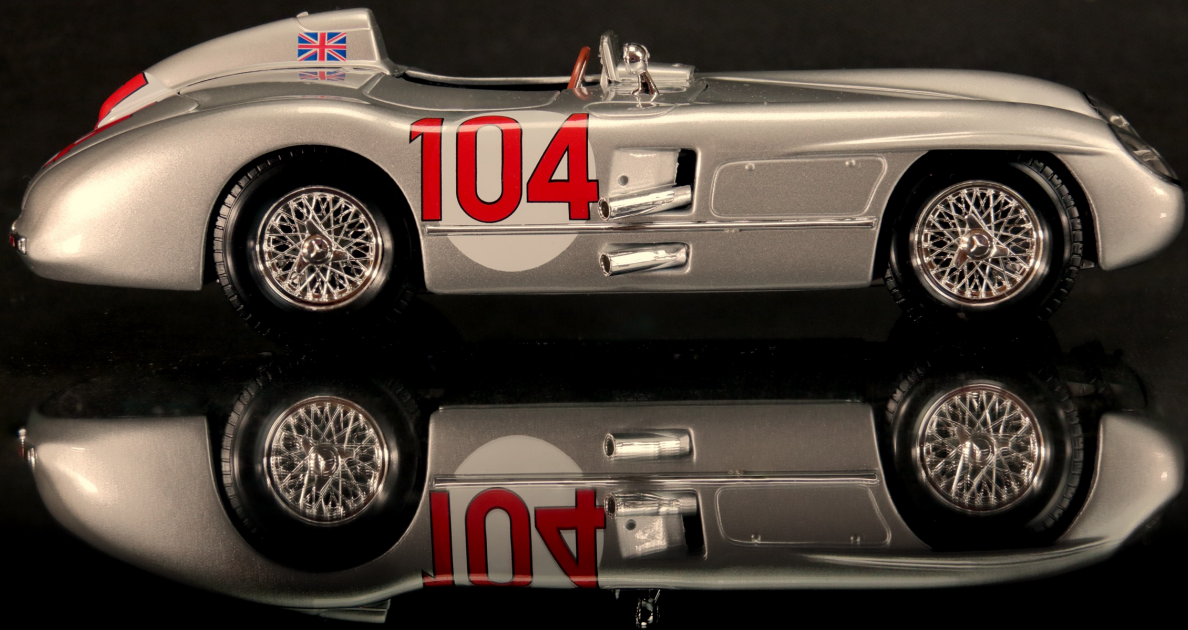


















Llantwit Major Photographic Club

8th November 2022

Thank you for listening

Break

Skills - Macro

noun: **macro-photography**

1. photography producing photographs of small items larger than life size.









So what stuff do I need ?





G

AF MF

FE 2.8/100 STF GM OSS

0.57m-1.0m 0.85m-∞

1 22 ∞

A



Particular terminology ;-

Minimum Focal Distance MFD

Magnification

Working distance

Camera settings ? (Light available is the issue)

Experimentation is the best teacher

Aperture - 1 stop less than smallest (depth of field is tiny)

Speed - Is it moving? Can you use a tripod? How slow can you go?

ISO - highest for quality? 400? 600?

Flash!







A



B



C



D



E



ACTION ASSIGNMENT!

1- Study the sample photographs:

- A-** Begin with objects that don't move. This will help you learn how to place focus, work with minimal depth of field (DOF), and achieving a sharp picture.
- B-** Proper focus placement is critical in macro photography. For subjects that don't move, use a tripod. Keep the f/stop closed down. However, do not go to the smallest f/stop. Use the aperture just before the smallest. If the smallest f/stop on your lens is f/22 – then use f/16.
- C-** Excellent macro photography typically examines common objects from an unusual angle. This is part of what makes these photos exciting. Be prepared to get onto the ground.
- D-** The use of a tripod is difficult with moving subjects. Instead, brace the camera tightly to your face and tuck the elbows in. Set your focus ring. Use your upper body as a focusing tool by gently moving it forward and backward. When the proper part of the subject comes into focus, freeze your body, and release the shutter.
- E-** Part of the fun in macro photography is to highlight common subjects very closely. Make sure that your shutter speed is fast enough to create a sharp picture. Pay attention to your lighting, especially backlighting. Use reflectors or electronic flash if necessary.

CREATING SKILLFUL MACRO PHOTOGRAPHY



PHOTZY.COM

Macro photography is not 'close-up' photography. It is defined as a photograph in which the size of a small subject is reproduced onto the negative or image sensor at 1/2 life size to 5X life size.

KEY LESSON: The simplest way to get to macro magnifications is with a macro lens. You can also use extension tubes, a reversal ring, or a bellows. Depth of field is crucial; do not use an aperture wider than f/16. Shutter speed is also crucial; use a tripod or increase ISO.



TIPS! These settings can vary widely. This is a starting point.

Shooting Mode	A/Av	Metering mode	Center weighted
Shutter Speed	1/125 th or faster	Format	RAW + JPG
Aperture	f/11 to f/22	White balance	AWB AUTO
ISO	400 And adjust as necessary for shutter speed		
Lens	Use a tube, reversal ring, or filter if necessary. A bellows is not recommended for beginners		

Hints and Tips Panorama

Panorama - a simple method without a tripod

1. Decide where to start and end the panorama. 2 or 3 shots should be OK.
2. Choose focal length - suggest not wide-angle or telephoto.
3. Determine ISO, exposure settings and point of focus.
4. Set manual ISO and manual exposure (Suggest at least 1/125 sec and f/8 or smaller)
5. Focus using auto , change to manual to lock.



Move camera carefully and
Take 2 or 3 overlapping shots.

And then.....

Just blend the 2 or 3 images in e.g. Photoshop or Photoshop Elements. Crop as necessary. The final result is a very high quality panorama (41Mb in this case).



Homework #17 - Macro



Not on Facebook?
Use the Upload option on the LMPC website,
in the members only menu.

Or you can use lmpc-files@googlegroups.com email address

Post one image onto the Facebook group &
tag it with #LMPC017

All entries by 5pm Sunday 20th November
please

Please take NEW images and don't just send
out old images - this is about practicing skills



Club meeting #18 - 22nd November

What to expect...

- Photographing People
- Practical - bring your cameras!

