



Monochrome Fun in Photography

GEORGIANNE GIESE

OCTOBER 12, 2017



Black, White, and Monochrome Photography

- I. In Camera
 - a. Subject selection
 - b. Black and White camera option
 - c. Infrared photography
- II. In Post Processing
 - a. Select an appropriate or convenient color to B&W conversion method
 - i. Camera Raw/Lightroom
 - ii. Image > Adjustment > Black & White
 - iii. Adjustment Layer > Black & White
 - iv. Plugin/Presets
 - 1. NIK Silver Efex Pro (non-destructive)
 - 2. Topaz BW Effects 2 (destructive: copy layer before using)
 - b. Select or make a tonal quality
 - c. Bring back a color or two

Select an Appropriate Image

- Not all images are best done in monochrome.
- Some images are improved with monochrome options.
- A good monochrome image has a wide range of shades, from black to white, with many different grays in between.
- There are many tones/tints allowed in monochrome. But true monochrome has only shades of the same color.
- Look for a subject that has high contrast and many tones in between.
- Monochrome can subtract the impact of color and focus the impact on the primary subject.





















Dorothy M. Case

16718





Georgiana Dick





Converted and tinted in Topaz BW Effects 2



MYRTLE BEACH
FRIES
GUARANTEED
FRESH CUT - SERVED HOT

COTTON CANDY · SOFT ICE CREAM · HOT WINGS

Gay
Dolphin
GIFT COVE
←

WING
CENTER

TYPE GRILL	CHICKEN	COMBS
SPICED SALAD	CHICKEN SANDWICH	5.99
ITALIAN BURGERS	CHICKEN SANDWICH	5.99
BEF BEEF SOUP	CHICKEN SANDWICH	5.99
BEF CHEESE STEAK	CHICKEN SANDWICH	5.99
DRINKS	FRESH CUT FRIES	4.99
Soft Drink	French Fries	4.99
Hot Coffee	French Fries	4.99
Hot Tea	French Fries	4.99
Hot Lemonade	French Fries	4.99
Hot Orange Juice	French Fries	4.99
Hot Apple Juice	French Fries	4.99
Hot Milkshake	French Fries	4.99
Hot Smoothie	French Fries	4.99
Hot Soft Drink	French Fries	4.99

WINGS
\$5.00
\$6.50

HAR WRAPS
HENNA TATTOOS



Infrared Photography

With IR filter

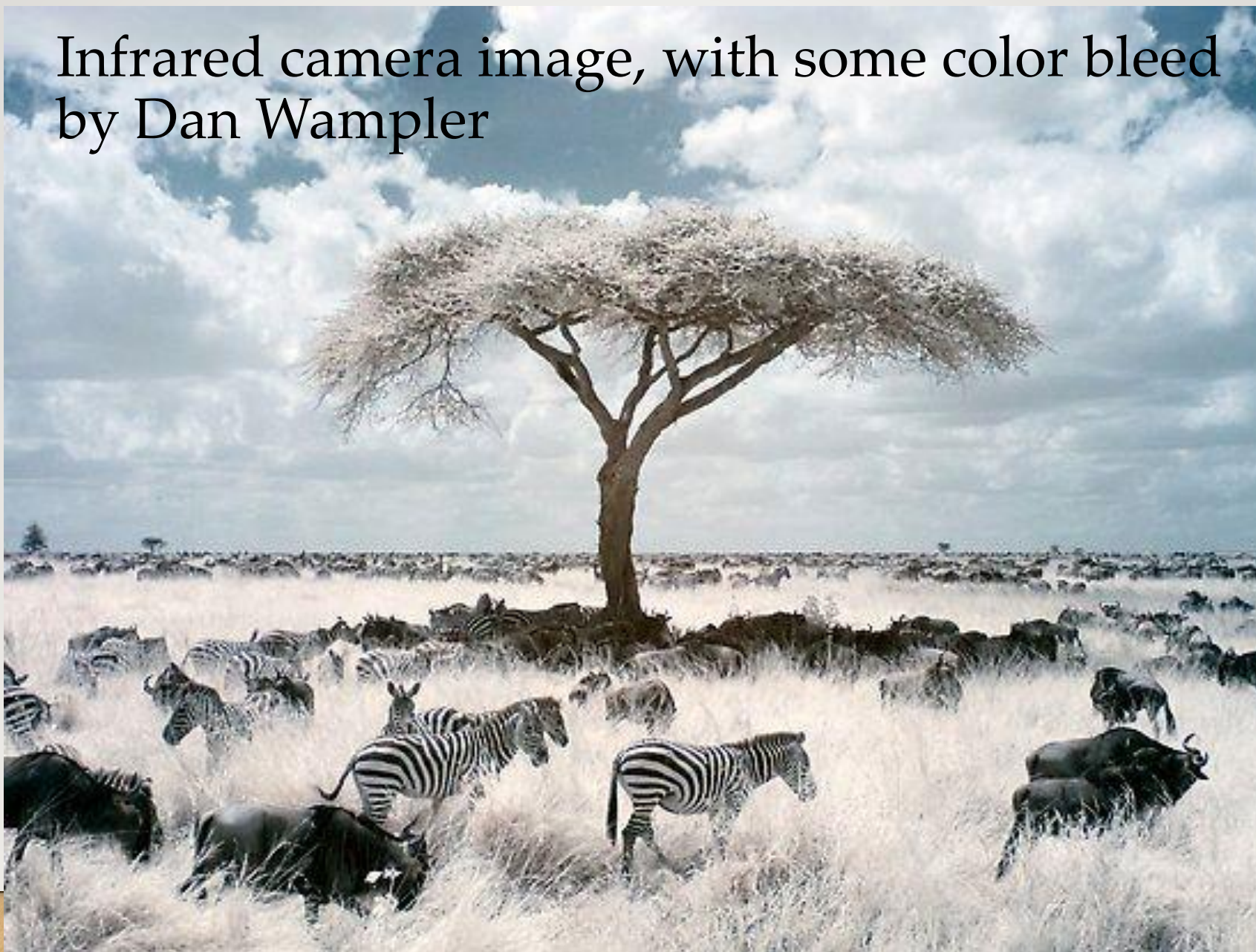
Or

Factory conversion of an existing camera

Dan Wamplar Infrared Photography

<https://www.lifepixel.com/galleries/infrared-photography-gallery/dan-wamplar-infrared-gallery>

Infrared camera image, with some color bleed
by Dan Wampler



IR camera photo by Dan Wampler



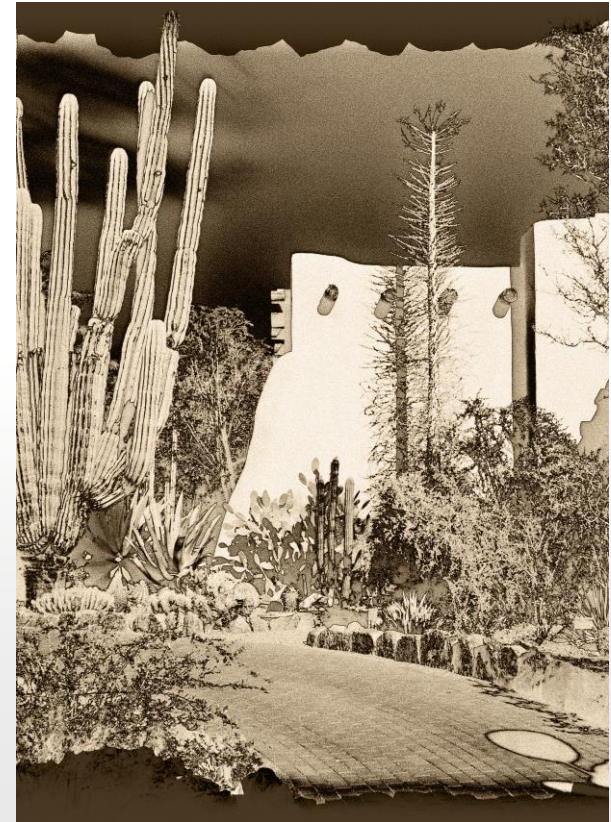
Conversion of DSLR to Infrared

- There are many options for IR filters, used in making a DSLR or P&S camera conversion to an IR camera. Make sure you know what you want. Each different filter allows you to capture infrared light plus a varying degree of color, depending upon the filter you order. With increased color capture, you can maintain the IR look, but also bring back selective color, in post processing. You can see this color control in Dan Wamplar IR images, above. See <https://www.lifepixel.com/infrared-filters-choices>
 - Normal lenses focus using visible light. Infrared light is not visible. You cannot use your standard lens to focus with an IR converted camera. You must use a lens that is calibrated for infrared. That means you will probably have to send in the lens you will use with your IR camera, so it can be calibrated to work with your conversion. See the video at <https://www.lifepixel.com/focus-calibration-options>
- * Conversion locations: <https://www.lifepixel.com/> for Nikon, Canon, Sony; about \$275 for DSLR and .

Desert Botanical Gardens, Phoenix, AZ

Hoya Infrared filter on a regular DSLR camera.

Exposure time was over 60 seconds.



Hoya IR filter
Japanese Garden on
Victoria Island



Infrared image from PS CC conversion with NIK Infrared preset.



Original abandoned Methodist Church in NC hills



Methodist Church converted in PS CC with BW Adjustment layer



Methodist Church converted in PS CC with NIK Infrared preset

Comparisons between in-camera BW and post-processed conversions from color to BW





Red bench in Brookgreen Gardens, shot with in-camera BW setting



Red bench in Brookgreen Gardens, post-processed in BW

Flower in Brookgreen Gardens



Same flower shot with BW
settings in camera



Same flower converted to BW in
post-processing



Same flower converted to BW in
Topaz BW Effects Pro





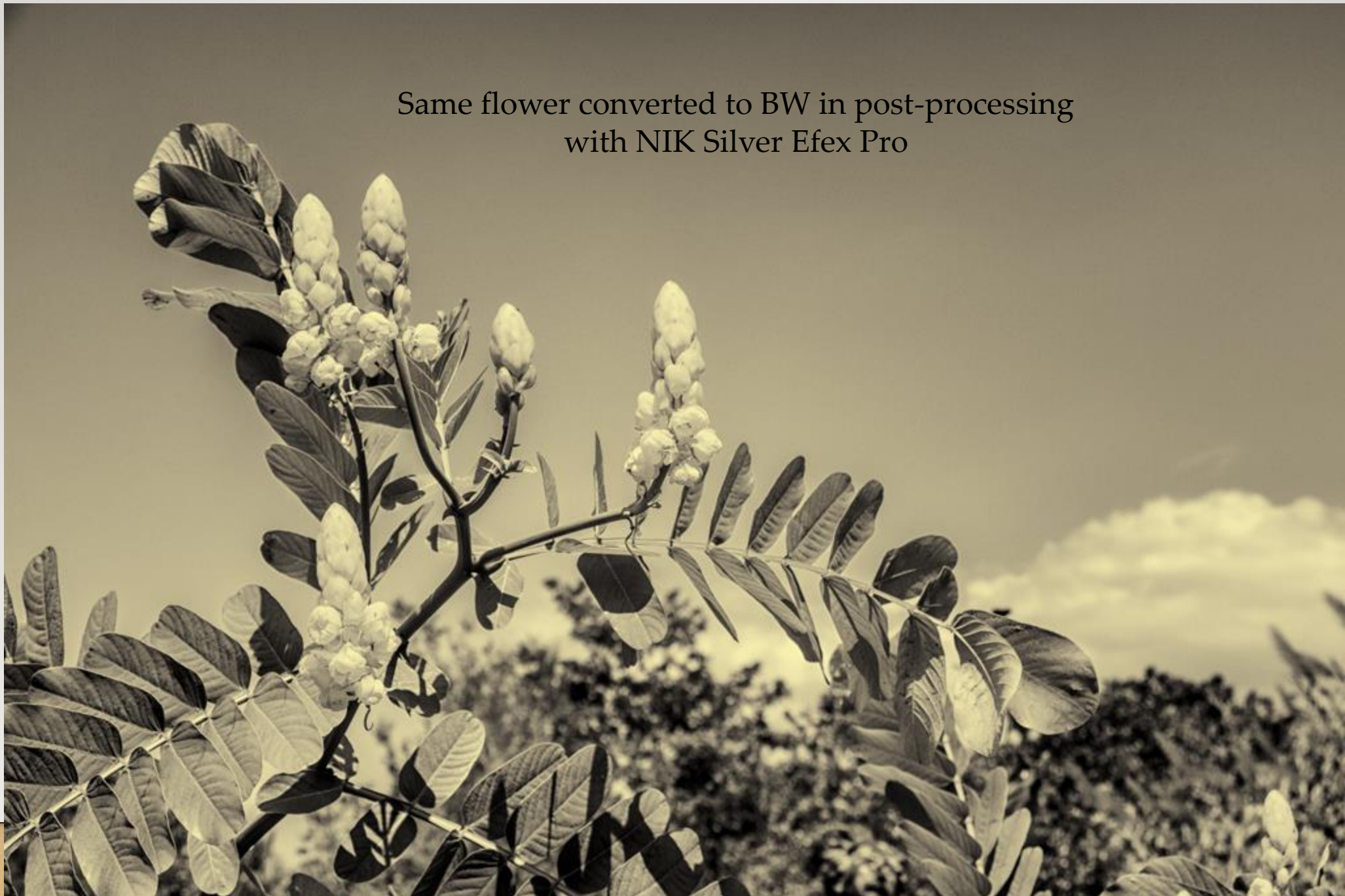
Candlestick plant shot in BW setting in-camera



Same flower converted to BW in post-processing



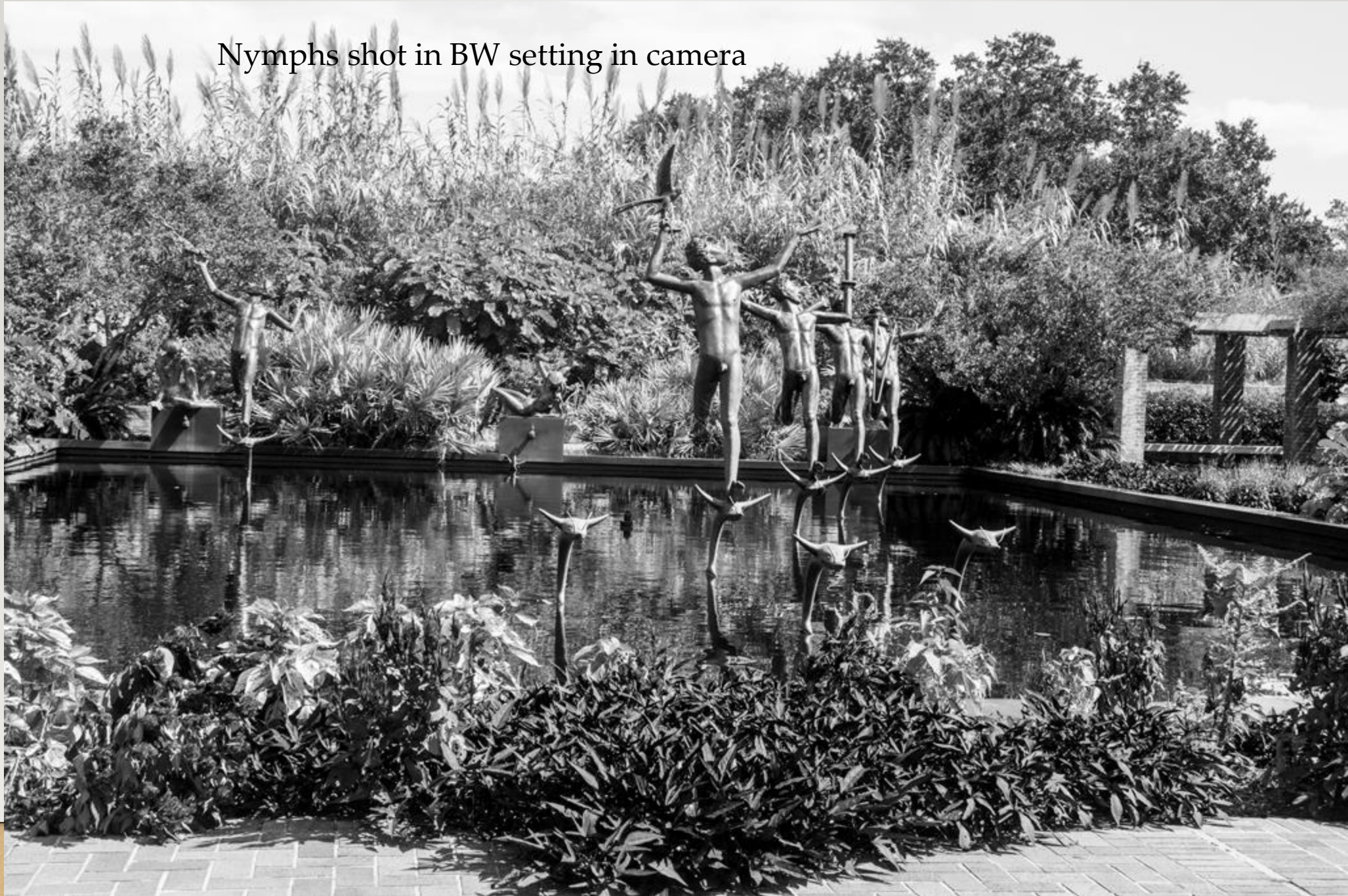
Same flower converted to BW in post-processing
with NIK Silver Efex Pro



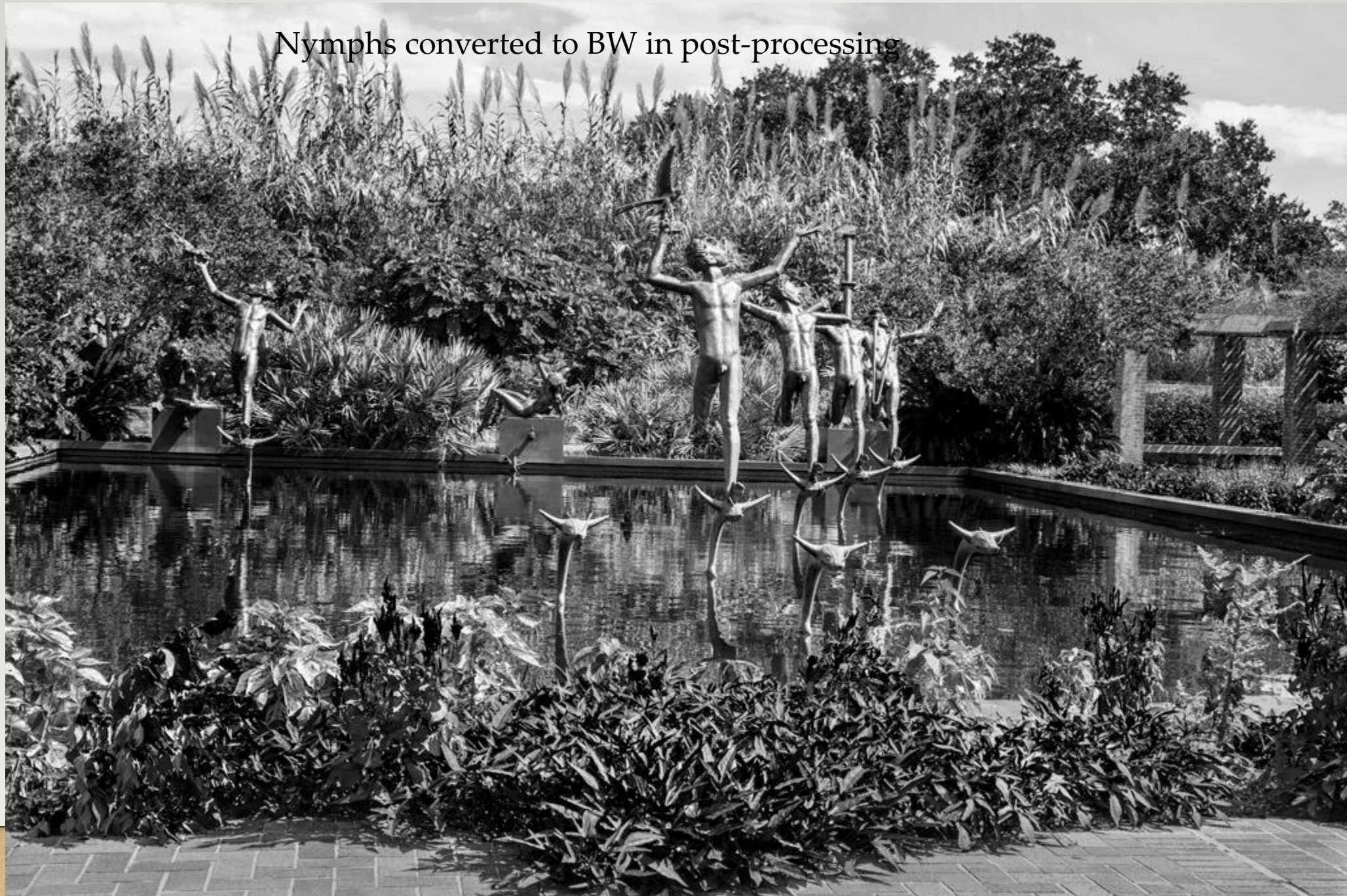
Nymph statues in Brookgreen Gardens



Nymphs shot in BW setting in camera



Nymphs converted to BW in post-processing



Nymphs converted to Monochrome in post-processing, with NIK Silver Efex Pro



Post-processed conversion allows the photographer control over the relative contributions of each color to the final monochrome image.

Bridge filmed in Bridges of Madison County, Iowa

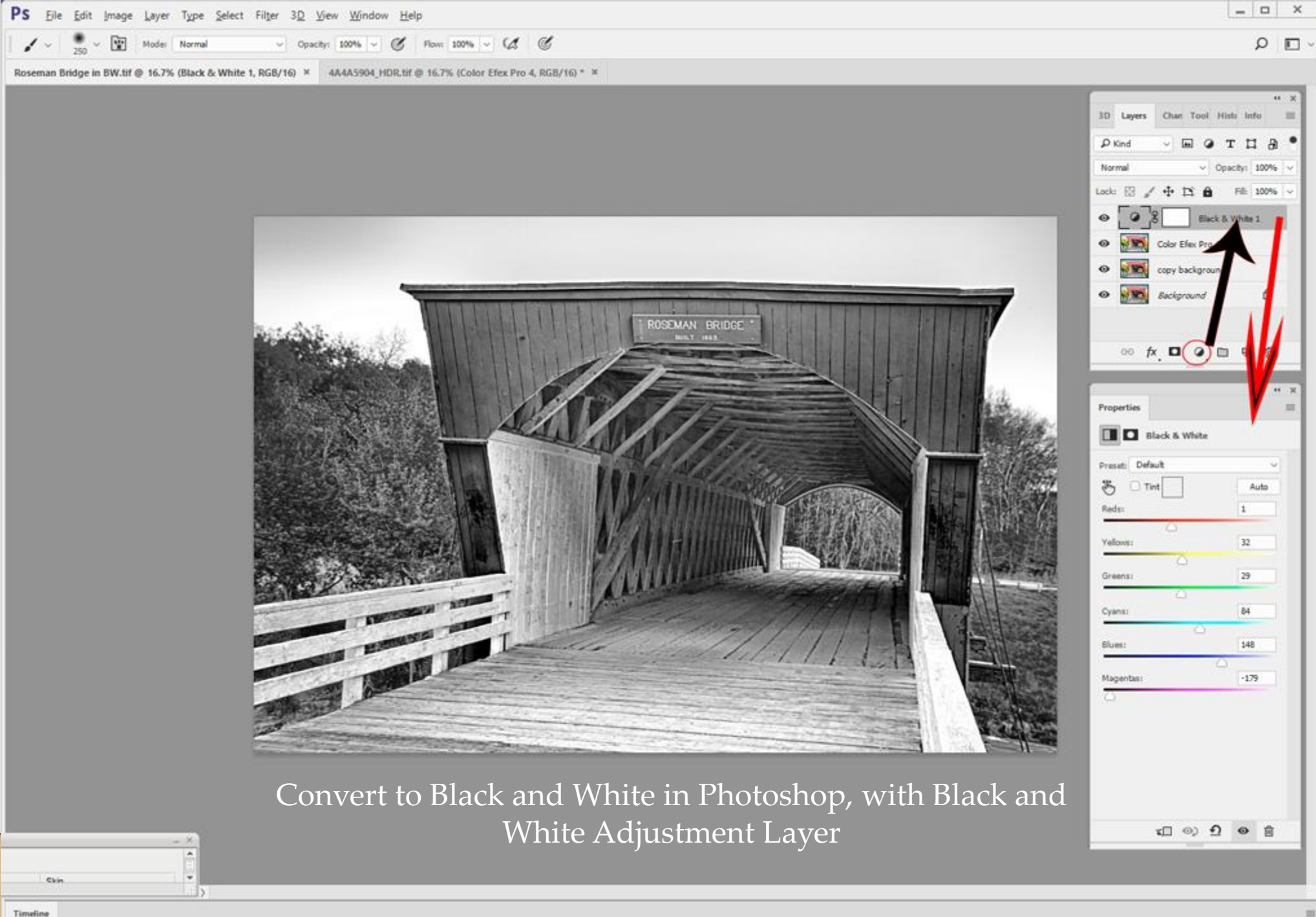


Bridge image converted to BW in post-processing
Used BW Adjustment layer, with no color pushing

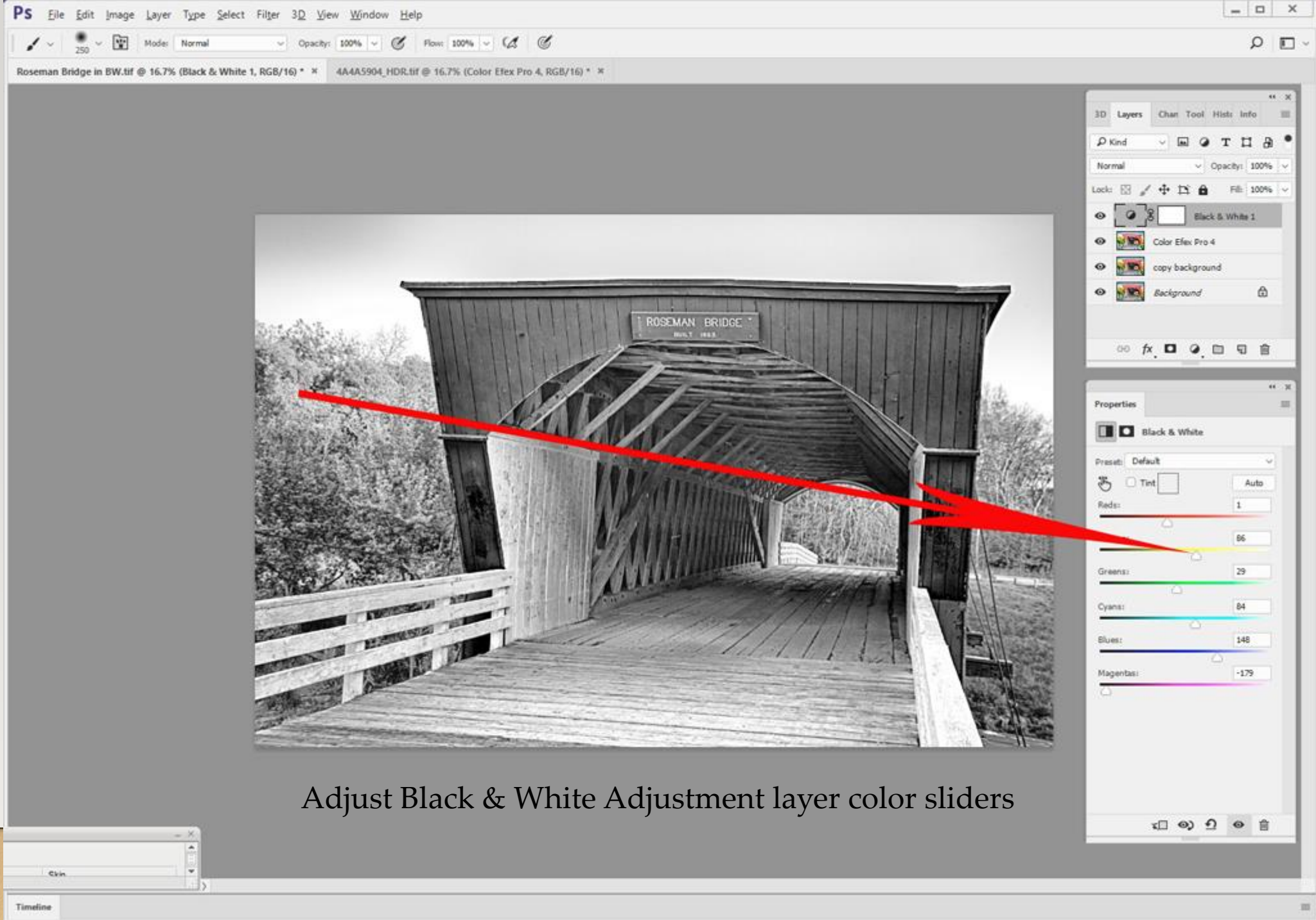


Bridge image converted to BW in post-processing
Used BW Adjustment layer, and pushed yellow up

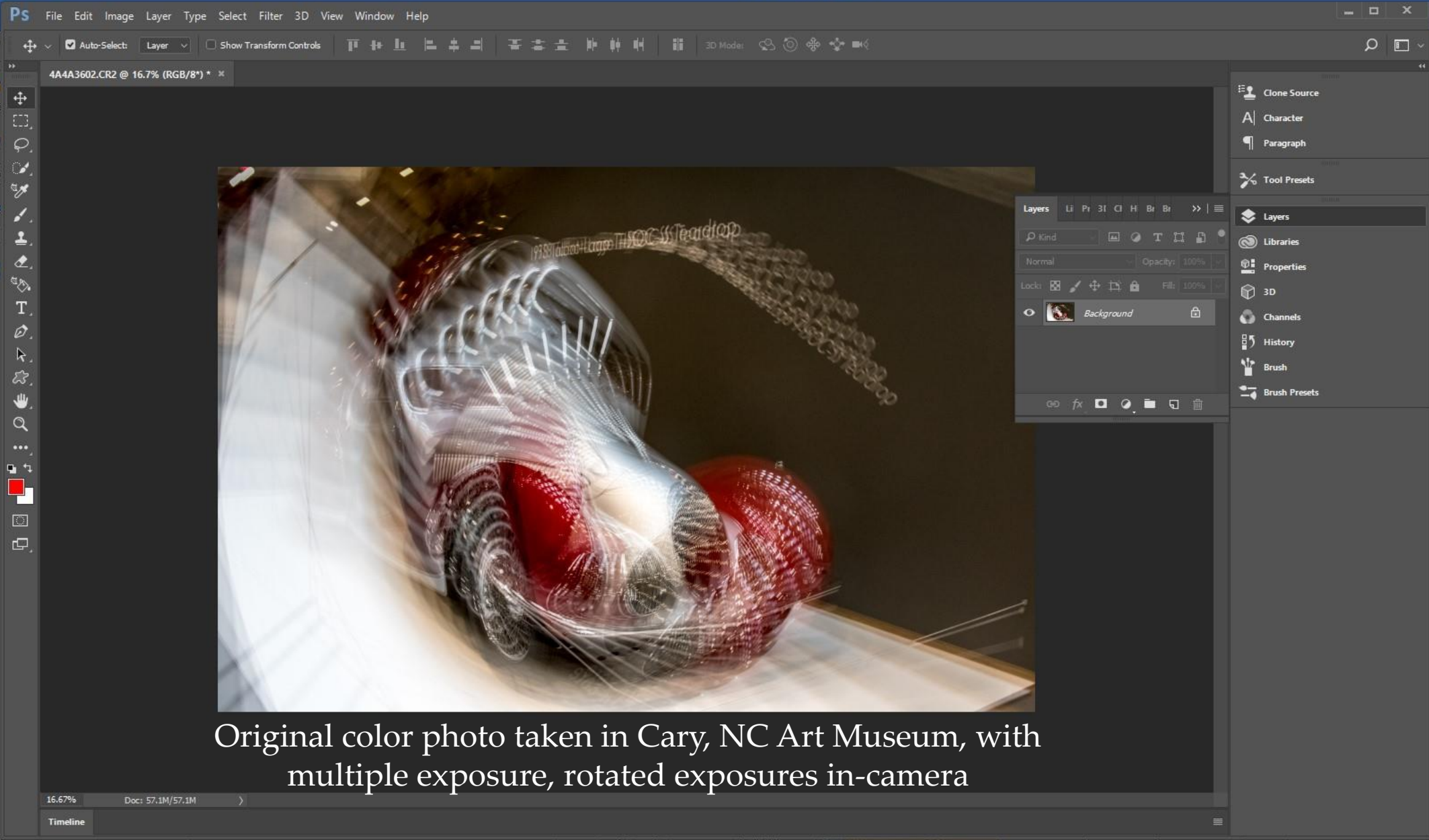




Convert to Black and White in Photoshop, with Black and White Adjustment Layer



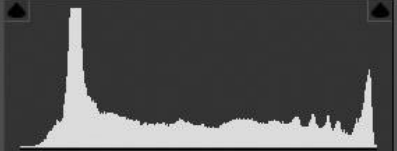
Adjust Black & White Adjustment layer color sliders



Original color photo taken in Cary, NC Art Museum, with multiple exposure, rotated exposures in-camera



Convert to BW in Camera Raw



R: --- f/8 1/30 s
G: --- ISO 2500 18-135@22 mm
B: ---

HSL / Grayscale

Convert to Grayscale

Grayscale Mix

- Auto Default
- Reds +9
 - Oranges -19
 - Yellows -23
 - Greens -27
 - Aquas -18
 - Blues +9
 - Purples +15
 - Magentas +4

22.2%

4A4A3602.CR2



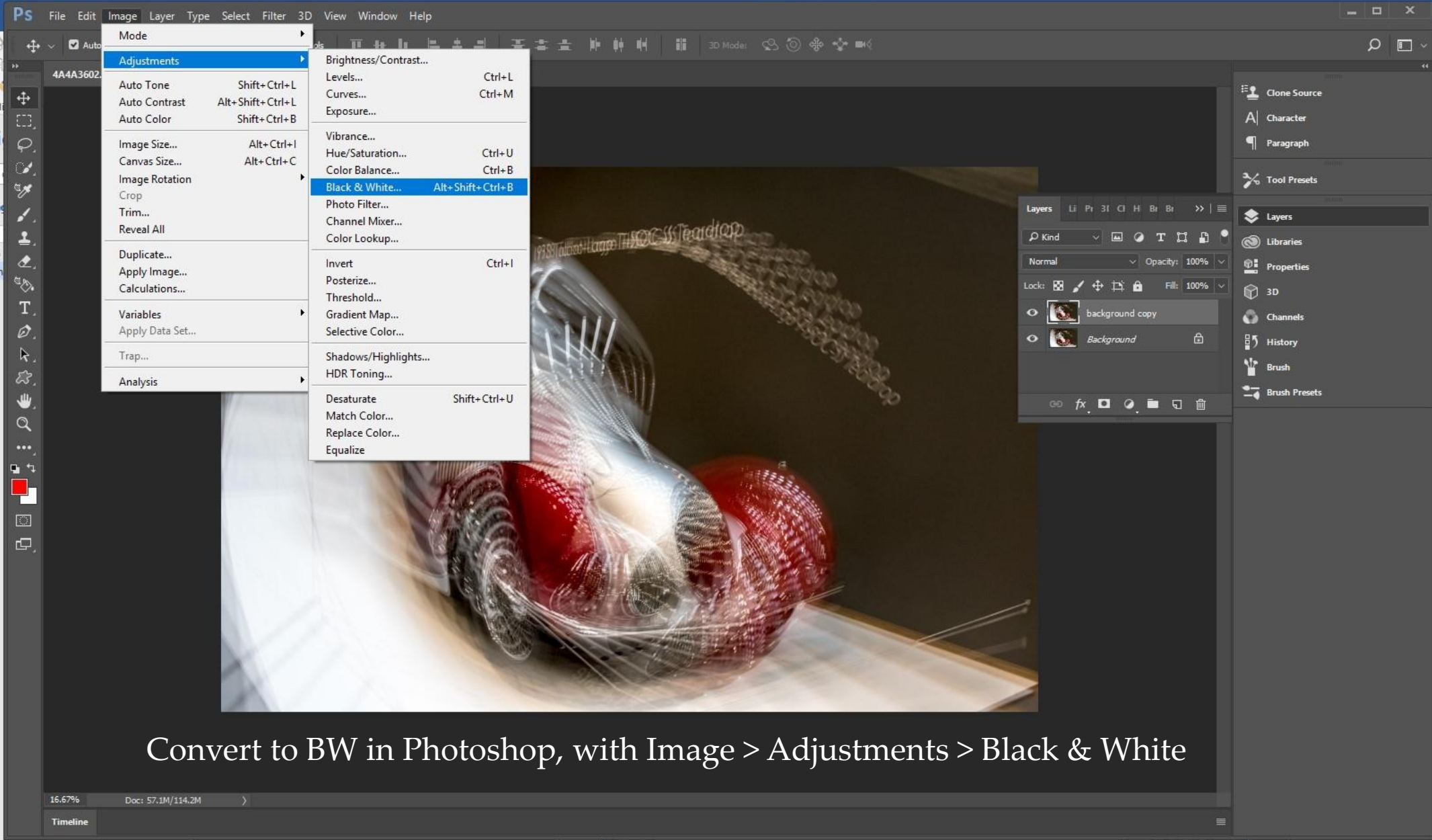
Save Image

Gray Gamma 2.2; 8 bit; 5472 by 3648 (20.0MP); 300 ppi

Open Copy

Reset

Done



Convert to BW in Photoshop, with Image > Adjustments > Black & White

Convert with Adjustment menu item



Layers

Li Pr 3I Cl H Br Br >> |

Kind [Image] [Text] [Shape] [Path] [Smart Object] [Layer Mask]

Normal Opacity: 100%

Locks [Lock] [Move] [Edit] [Fill] [Fill: 100%]

Background

Clone Source

Character

Paragraph

Tool Presets

Layers

Libraries

Properties

3D

Channels

History

Brush

Brush Presets

Black and White

Preset: Custom

OK Cancel

Reds: 87%

Yellows: -75%

Greens: -55%

Cyans: 60%

Blues: 20%

Magentas: 80%

Tint

Hue: °

Saturation: %

Auto Preview

AaBbCcDd

Book Title

Find

Replace

Select

Editing

VIEW 4A4A3602.tif @ 19.9% (background copy, RGB/8*) * x

VIEW

SELECT

ENHANCE

DRAW

MODIFY

COLOR



100%

- Solid Color...
- Gradient...
- Pattern...
- Levels...
- Brightness/Contrast...
- Hue/Saturation...**
- Gradient Map...
- Photo Filter...
- Invert
- Threshold...
- Posterize...

19.9% Doc: 57.1M/114.2M



Convert to black and white in Elements, Expert mode,
Adjustment Layer, Hue/Saturation

VIEW 4A4A3602.tif @ 19.9% (Hue/Saturation 1, Layer Mask/8) * x

VIEW

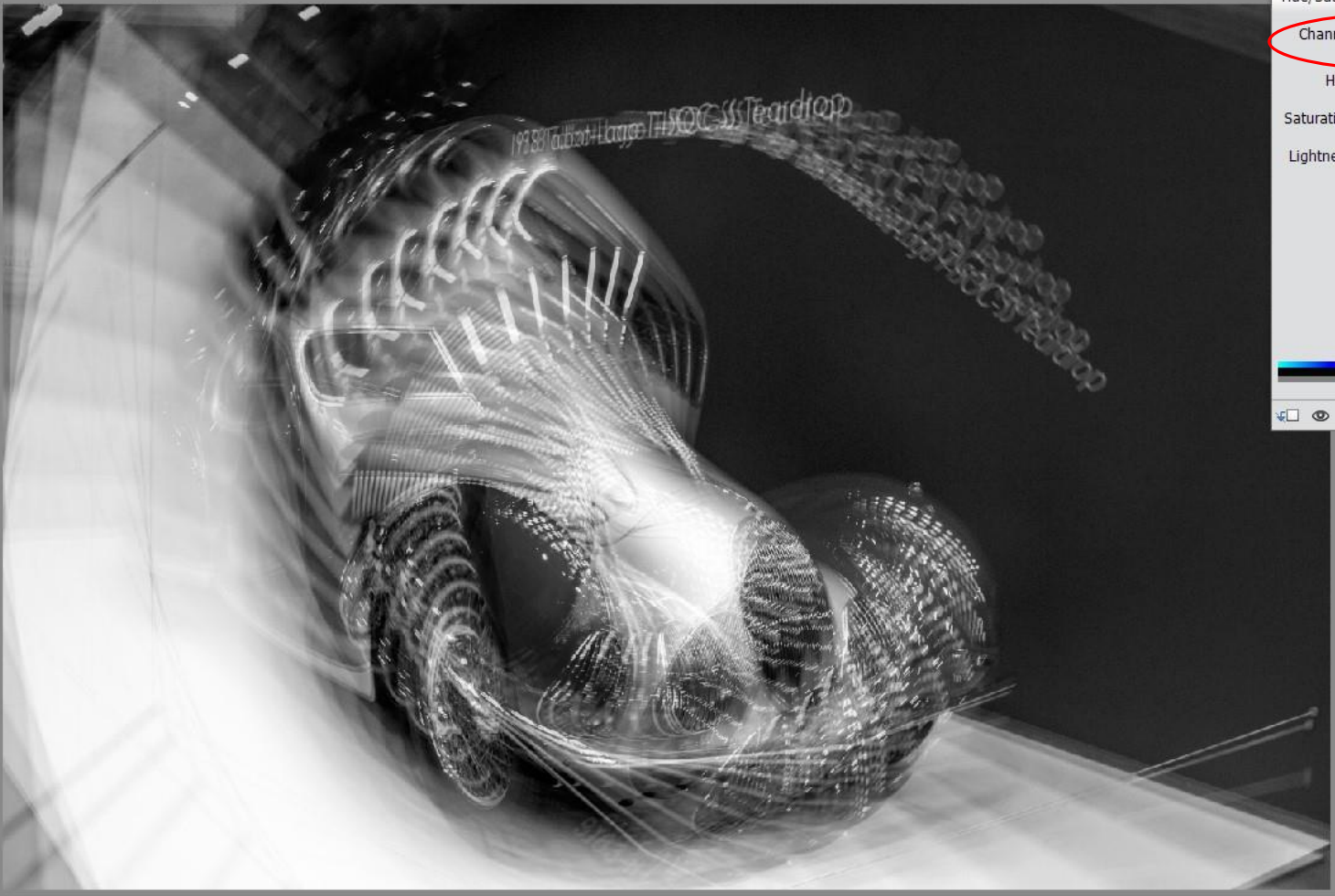
SELECT

ENHANCE

DRAW

MODIFY

COLOR



Hue/Saturation

Channel: Master

Hue: 0

Saturation: -100

Lightness: 0

Colorize

Reset

Normal Opacity: 100%

background copy

Background

19.9% Doc: 57.1M/114.2M


Show Open Files



Elements: Select Channel, Adjust Saturation and Lightness sliders

Conversion to BW in Lightroom

▼ Navigator FIT FILL 1:1 3:1



▼ Presets +

- ▶ Lightroom B&W Filter Presets
- ▶ Lightroom B&W Presets
- ▶ Lightroom B&W Toned Presets
- ▶ Lightroom Color Presets
- ▶ Lightroom Effect Presets
- ▶ Lightroom General Presets
- ▶ Lightroom Video Presets
- ▶ User Presets

▼ Snapshots +

▼ History ×

Import (10/5/2017 9:29:40 PM)

▼ Collections +

Filter Collections

▶ Smart Collections

6/6 ×

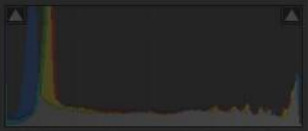
Using Presets

Presets are a great way to apply a saved set of develop adjustments to a photo. We've included some of our favorites or you can create your own.

Turn Off Tips

Back Close

Histogram ▼



ISO 2500 22 mm f/8.0 1/20 sec

Original Photo

Basic ▼

Treatment: Color Black & White

WB: As Shot

Temp: 4700

Tint: +3

Tone Auto

Exposure: +0.70

Contrast: -21

Highlights: -24

Shadows: +24

Whites: +37

Blacks: -53

Presence

Clarity: +68

Vibrance: +25

Saturation: 0

Tone Curve ◀

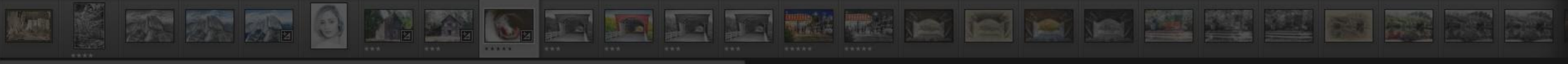
HSL / Color / B & W ◀

Split Toning ◀

Detail ◀


Previous Reset

1 2 Previous Import 55 photos / 1 selected / 4A4A3602.CR2 Filter: Filters Off



Adobe Lightroom CC 2015
Get started with Lightroom mobile ▶

▼ Navigator FIT FILL 1:1 3:1



▼ Presets +

- ▼ Lightroom B&W Filter Presets
 - Blue Filter
 - Blue Hi-Contrast Filter
 - Green Filter
 - Infrared
 - Orange Filter
 - Red Filter
 - Red Hi-Contrast Filter
 - Yellow Filter
- ▶ Lightroom B&W Presets
- ▶ Lightroom B&W Toned Presets
- ▶ Lightroom Color Presets
- ▶ Lightroom Effect Presets
- ▶ Lightroom General Presets
- ▶ Lightroom Video Presets
- ▶ User Presets


▼ Snapshots +

▼ History ×

Yellow Gray Level	-40	-29
Yellow Gray Level	-25	11
Temperature	-1.0K	3.7K



Histogram ▼



ISO 2500 1/30 sec

Original Photo

Tone Auto

Exposure	-0.12
Contrast	+48
Highlights	0
Shadows	0
Whites	-38
Blacks	-5

Presence

Clarity	+48
Vibrance	+25
Saturation	0

Tone Curve ◀

HSL / Color / B&W ▼

Black & White Mix

Red	+50
Orange	+38
Yellow	-29
Green	-5
Aqua	+25
Blue	0
Purple	-30
Magenta	-40

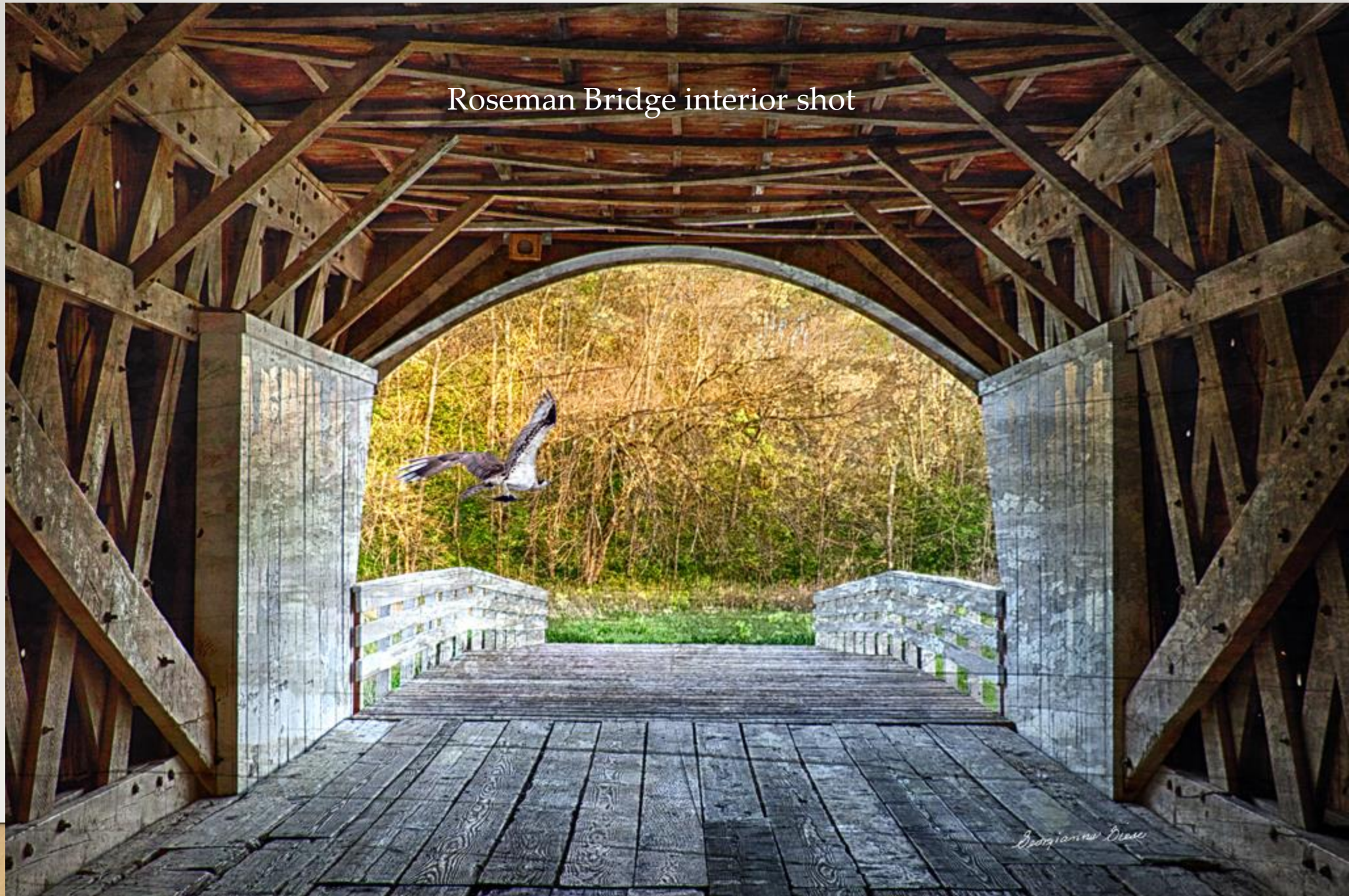
Auto

Copy... Paste

1 2 Previous Import 55 photos / 1 selected / 4A4A3602.CR2

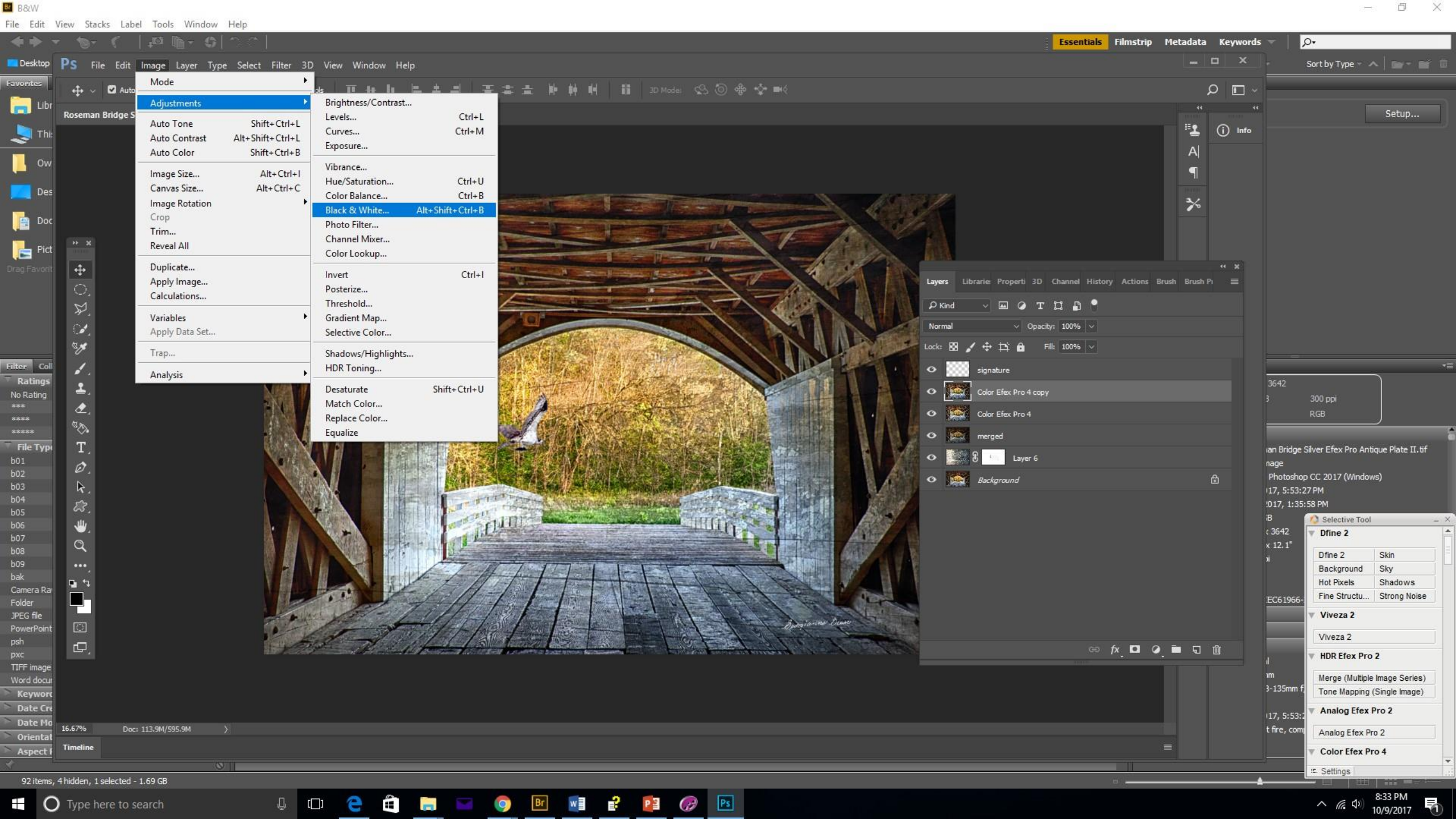


Roseman Bridge interior shot



Black and white adjustment layer





- Mode
- Adjustments
 - Brightness/Contrast... Ctrl+L
 - Levels... Ctrl+M
 - Curves... Ctrl+M
 - Exposure...
 - Vibrance...
 - Hue/Saturation... Ctrl+U
 - Color Balance... Ctrl+B
 - Black & White... Alt+Shift+Ctrl+B**
 - Photo Filter...
 - Channel Mixer...
 - Color Lookup...
- Image Size... Alt+Ctrl+I
- Canvas Size... Alt+Ctrl+C
- Image Rotation
- Crop
- Trim...
- Reveal All
- Duplicate...
- Apply Image...
- Calculations...
- Variables
 - Apply Data Set...
- Trap...
- Analysis

Layers

Kind: Normal Opacity: 100%

Lock: Fill: 100%

- signature
- Color Efex Pro 4 copy
- Color Efex Pro 4
- merged
- Layer 6
- Background

Selective Tool

Dfine 2

Dfine 2	Skin
Background	Sky
Hot Pixels	Shadows
Fine Structu...	Strong Noise

Viveza 2

HDR Efex Pro 2

- Merge (Multiple Image Series)
- Tone Mapping (Single Image)

Analog Efex Pro 2

Color Efex Pro 4

Settings

Roseman Bridge Silver Efex Pro Antique Plate II.tif @ 16.7% (Color Efex Pro 4 copy, RGB/16) * x



Layers Libraries Properti 3D Channel History Actions Brush Brush Pi

Kind: [Normal] Opacity: 100%

Locks: [] [] [] [] Fill: 100%

- signature
- Color Efex Pro 4 copy

Black and White X

Preset: Default [] [] OK Cancel

Reds: 40 %

Yellows: 60 %

Greens: 40 %

Cyans: 60 %

Blues: 20 %

Magentas: 80 %

Tint []

Hue [] °

Saturation [] %

Auto Preview

Find []

Replace []

Select []

Editing []

Selective Tool

Dfine 2

Dfine 2	Skin
Background	Sky
Hot Pixels	Shadows
Fine Structu...	Strong Noise

Viveza 2

Viveza 2

HDR Efex Pro 2

Merge (Multiple Image Series)

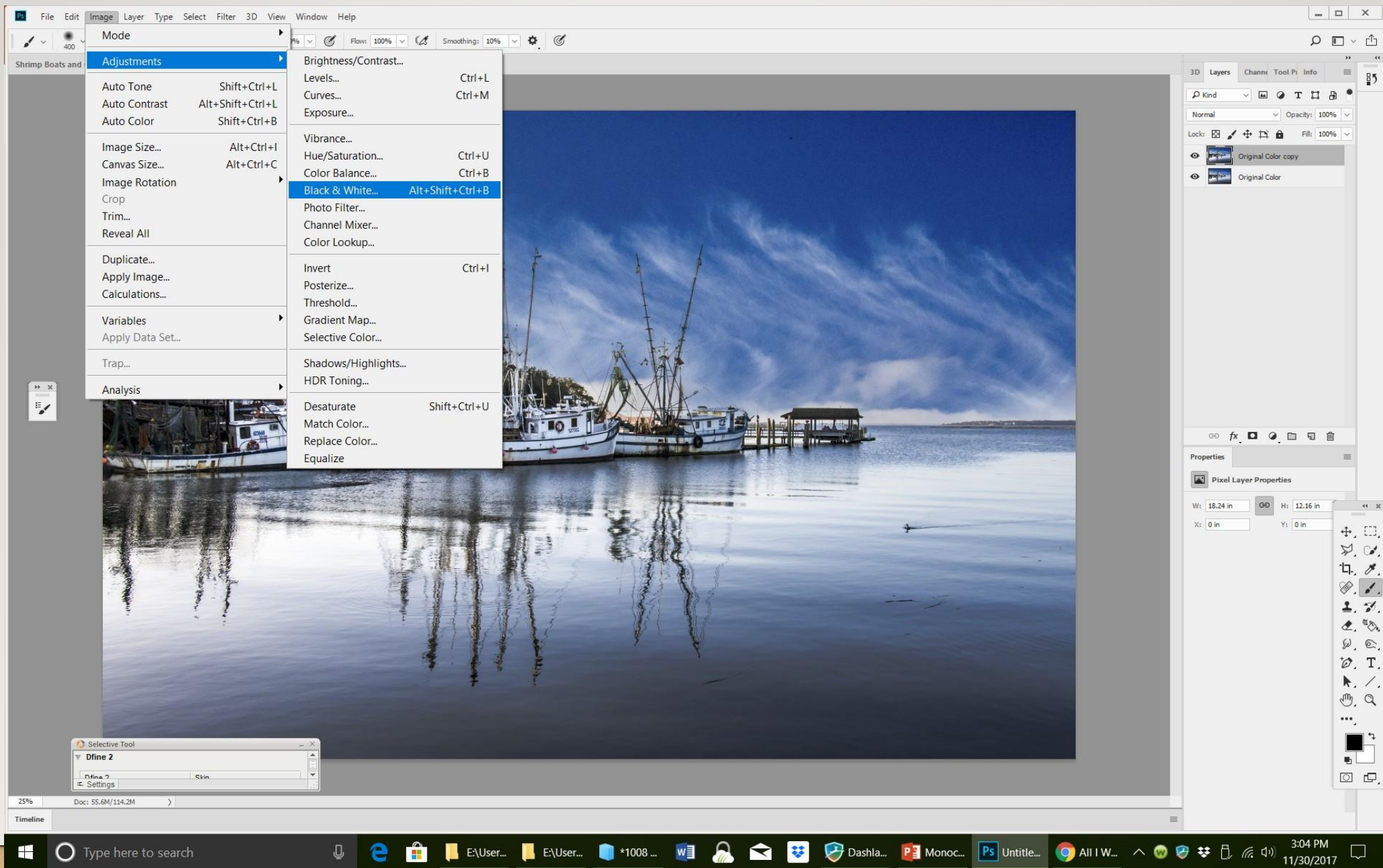
Tone Mapping (Single Image)

Analog Efex Pro 2

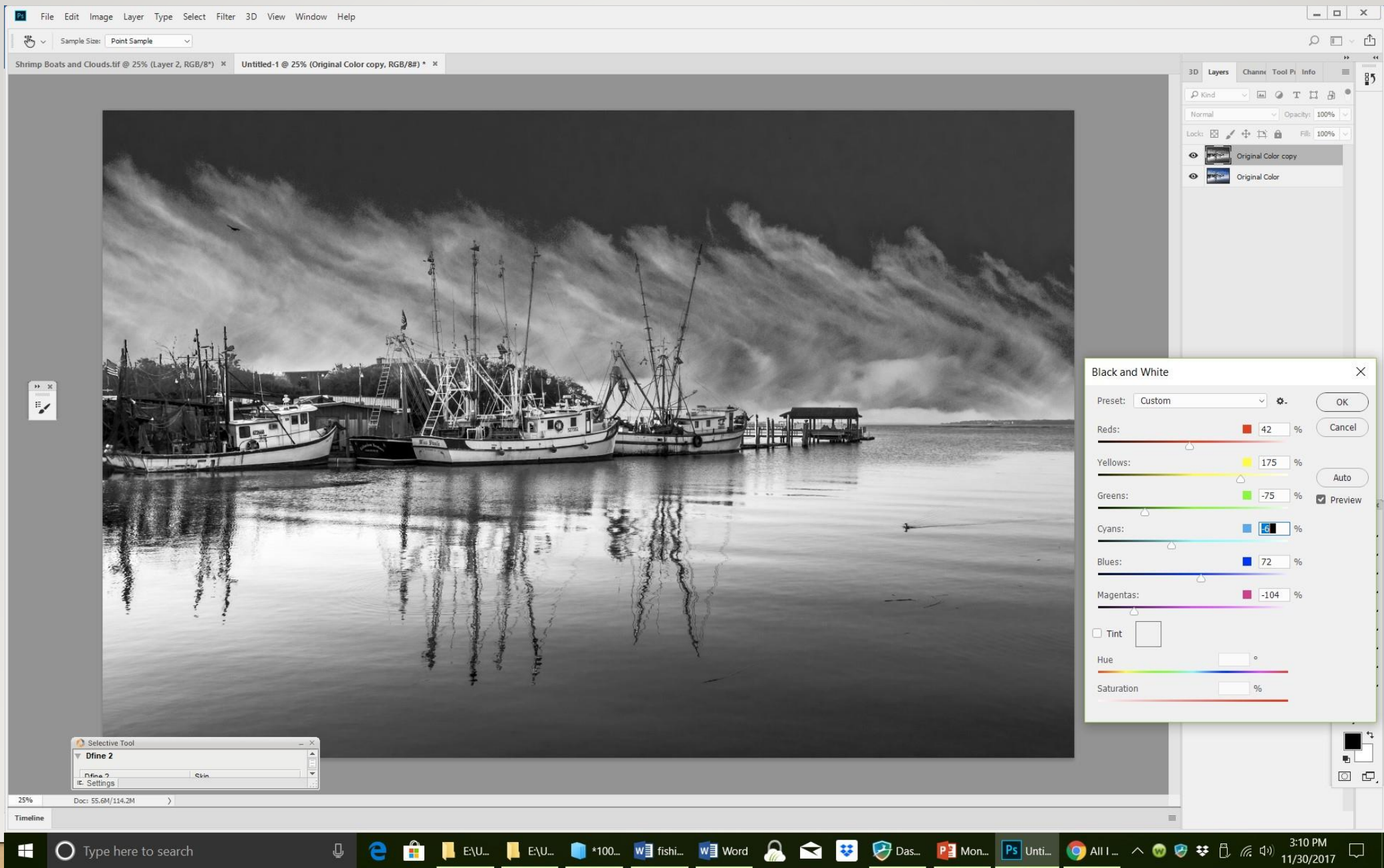
Analog Efex Pro 2

Color Efex Pro 4

Settings



Color image is converted to black and white via Image > Adjustments > Black & White

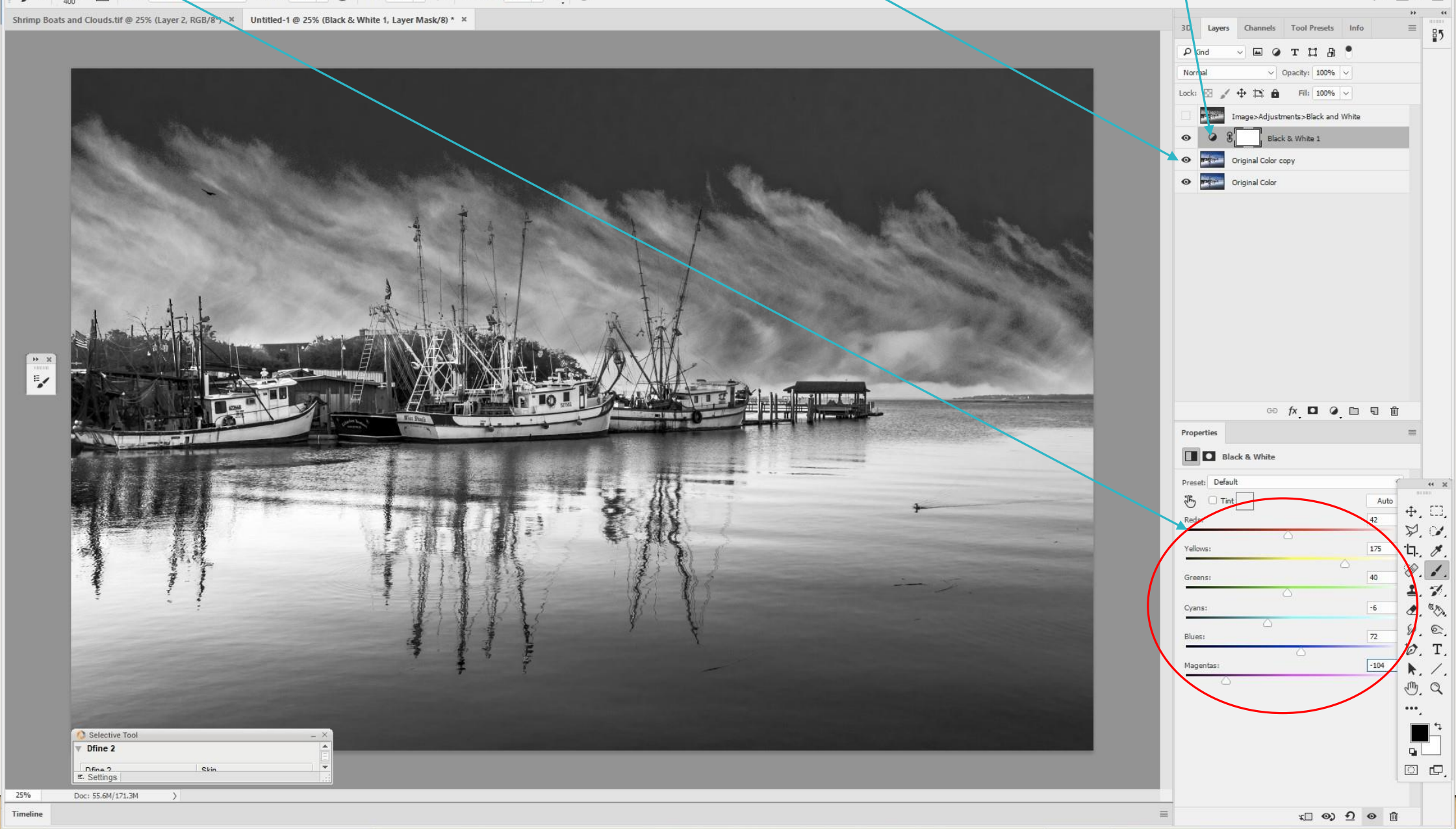


Sliders are available to change each color channel, until you click OK. Then the sliders are gone.



The layer is changed, destructively, and you cannot go back to readjust the sliders at a later time.

The next to click with the adjustment layer, for future changes. You access them with a click on the black and white ball on the layer. This is a non-destructive edit, as it does not change the affected layer.

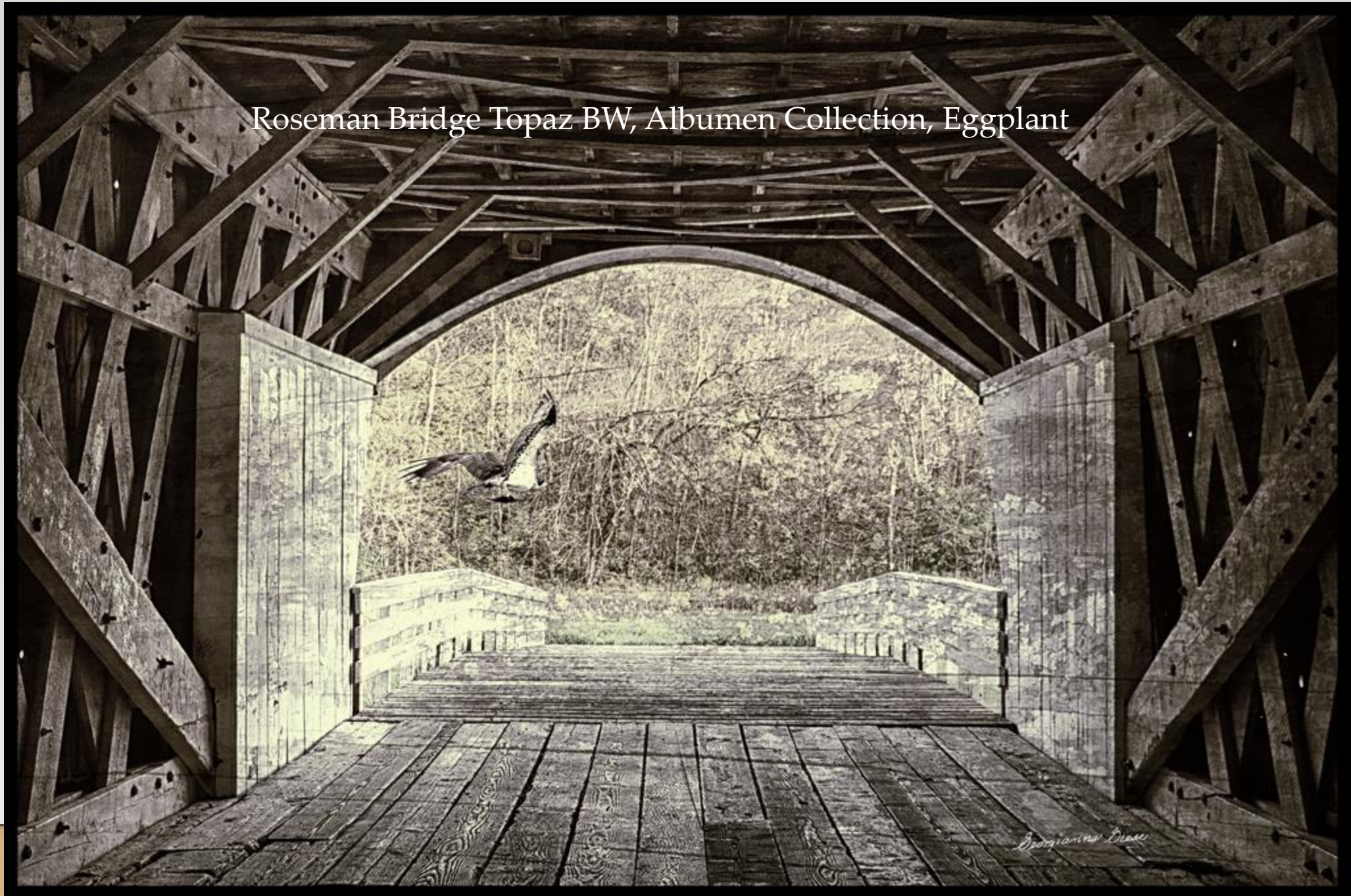


Property	Value
Radius	42
Yellows	175
Greens	40
Cyans	-6
Blues	72
Magentas	-104

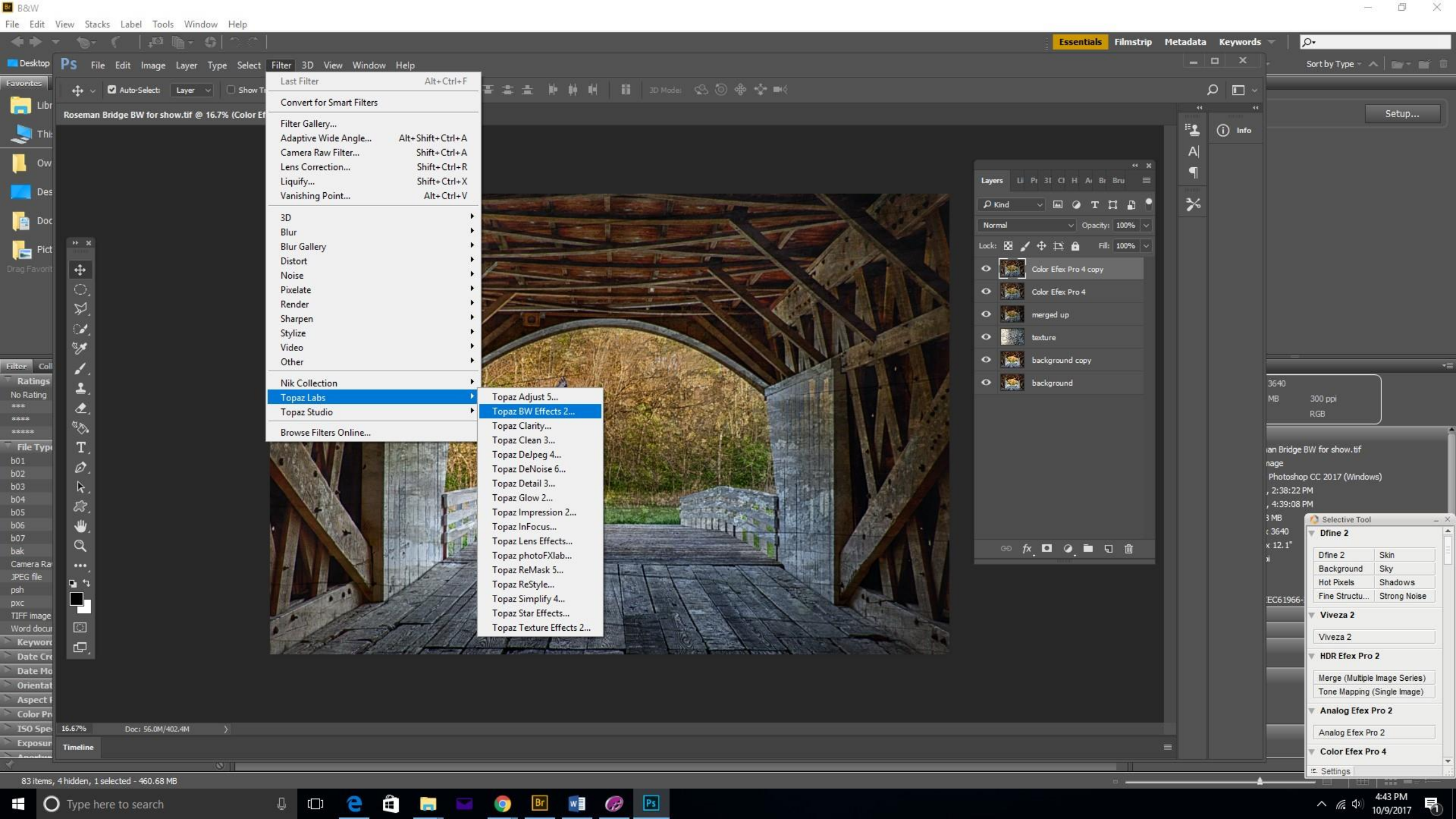
Monochrome with Topaz BW Effects 2

Topaz and NIK filters are simply presets to the left of your loaded image. You can apply them to your image, but then you can also customize that application with a multitude of sliders on the right of the screen.

Roseman Bridge Topaz BW, Albumen Collection, Eggplant



Georgiana Dixie



- Last Filter Alt+Ctrl+F
- Convert for Smart Filters
- Filter Gallery...
- Adaptive Wide Angle... Alt+Shift+Ctrl+A
- Camera Raw Filter... Shift+Ctrl+A
- Lens Correction... Shift+Ctrl+R
- Liquify... Shift+Ctrl+X
- Vanishing Point... Alt+Ctrl+V
- 3D
- Blur
- Blur Gallery
- Distort
- Noise
- Pixelate
- Render
- Sharpen
- Stylize
- Video
- Other
- Nik Collection
- Topaz Labs
- Topaz Studio
- Browse Filters Online...

- Topaz Adjust 5...
- Topaz BW Effects 2...
- Topaz Clarity...
- Topaz Clean 3...
- Topaz DeJpeg 4...
- Topaz DeNoise 6...
- Topaz Detail 3...
- Topaz Glow 2...
- Topaz Impression 2...
- Topaz InFocus...
- Topaz Lens Effects...
- Topaz photoFXlab...
- Topaz ReMask 5...
- Topaz ReStyle...
- Topaz Simplify 4...
- Topaz Star Effects...
- Topaz Texture Effects 2...

Layers

Kind: Normal Opacity: 100%

Lock: Fill: 100%

- Color Efex Pro 4 copy
- Color Efex Pro 4
- merged up
- texture
- background copy
- background

Selective Tool

Dfine 2

Dfine 2	Skin
Background	Sky
Hot Pixels	Shadows
Fine Structure...	Strong Noise

Viveza 2

Viveza 2

HDR Efex Pro 2

- Merge (Multiple Image Series)
- Tone Mapping (Single Image)

Analog Efex Pro 2

Analog Efex Pro 2

Color Efex Pro 4

Settings

EFFECTS:

- Traditional Collection
- Toned Collection
- Stylized Collection
- Cyanotype Collection
- Albumen Collection
- Van Dyke Brown Collection
- Opalotype Collection
- Platinum Collection
- My Collection
- Favorites
- Snapshots

PRESETS:

- ★ Flavescent
- ★ Hand Tinted Chiffon
- ★ Hand Tinted Cream
- ★ Hazy Viewfinder
- ★ Last Used Settings
- ★ Laurel
- ★ Milk Memories
- ★ Tea Green Fall Off
- ★ Warm Papaya
- ★ White Chocolate
- ★ Yellowing Lilac

1:1 20.0%



Apply Yellow Filter

Apply

1 CONVERSION

2 CREATIVE EFFECTS

LOCAL ADJUSTMENTS

Local Adjustment

Adjustment Type

Dodge Burn

Color Detail

Smooth

Overall Strength 0.20

Undo Redo

Dodge Eraser

Brush Size 100

Opacity 0.15

Hardness 0.01

Edge Aware 0.50

MENU...



Conversion to monochrome with the use of NIK Silver Efex Pro presets

Home Insert Design Layout References Mailings Review View Format Tell me what you want to do

File Edit Image Layer Type Select Filter 3D View Window Help

Auto-Select: Layer Show T...

Roseman Bridge BW for show.tif @ 16.7% (Color Ef...

Layers

Li Pr 3D Cl H A Br Bru

Kind

Normal Opacity: 100%

Lock: Fill: 100%

Viveza 2

Topaz BW Opalotype Collec...

Color Efex Pro 4

merged up

texture

background copy

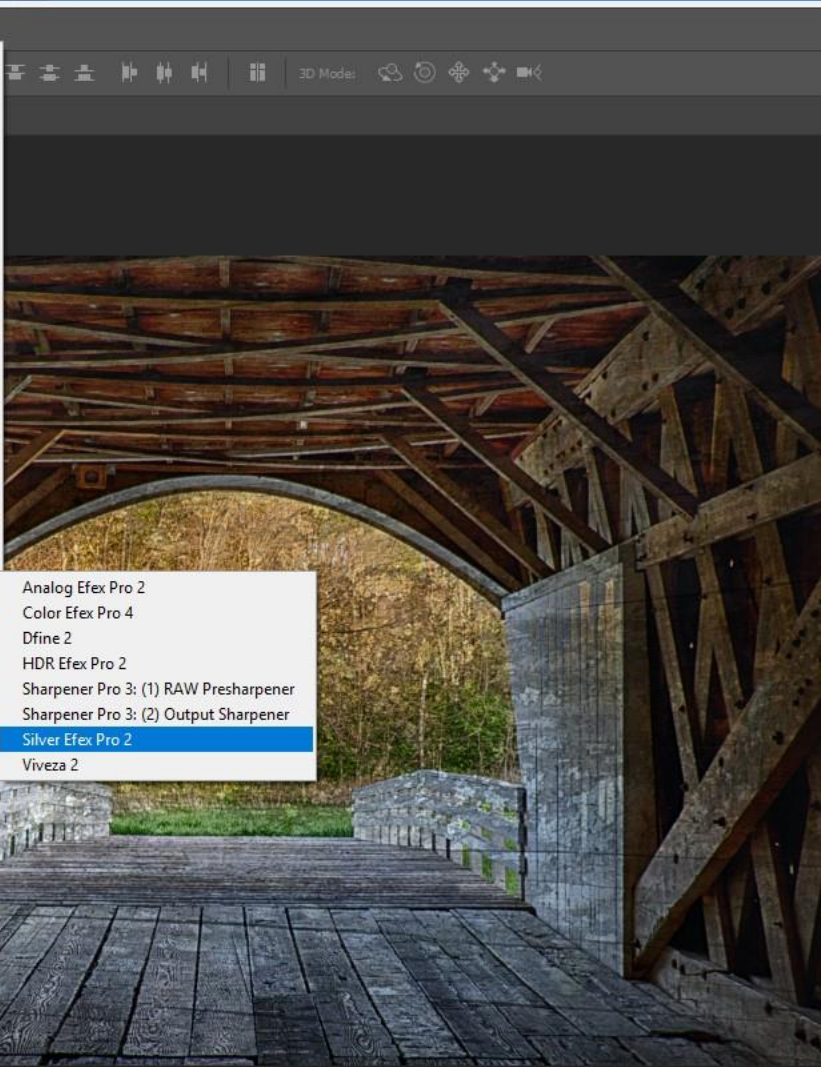
background

GO fx

16.67% Doc: 56.0M/471.1M

Timeline

- Viveza 2 Alt+Ctrl+F
- Convert for Smart Filters
- Filter Gallery...
- Adaptive Wide Angle... Alt+Shift+Ctrl+A
- Camera Raw Filter... Shift+Ctrl+A
- Lens Correction... Shift+Ctrl+R
- Liquify... Shift+Ctrl+X
- Vanishing Point... Alt+Ctrl+V
- 3D
- Blur
- Blur Gallery
- Distort
- Noise
- Pixelate
- Render
- Sharpen
- Stylize
- Video
- Other
- Nik Collection
- Topaz Labs
- Topaz Studio
- Browse Filters Online...



- Analog Efex Pro 2
- Color Efex Pro 4
- Dfine 2
- HDR Efex Pro 2
- Sharpener Pro 3: (1) RAW Presharpener
- Sharpener Pro 3: (2) Output Sharpener
- Silver Efex Pro 2
- Viveza 2

Find Replace Select Editing

Info

Layers

Li Pr 3D Cl H A Br Bru

Kind

Normal Opacity: 100%

Lock: Fill: 100%

Viveza 2

Topaz BW Opalotype Collec...

Color Efex Pro 4

merged up

texture

background copy

background

GO fx

Selective Tool

Dfine 2

Dfine 2	Skin
Background	Sky
Hot Pixels	Shadows
Fine Structu...	Strong Noise

Viveza 2

HDR Efex Pro 2

Merge (Multiple Image Series)

Tone Mapping (Single Image)

Analog Efex Pro 2

Color Efex Pro 4

Settings

Silver Efex Pro 2

PRESET LIBRARY

- ALL (38)
- MODERN (11)
- RECENTLY USED
- CLASSIC (15)
- VINTAGE (12)
- FAVORITES (0)

034 Yellowed 2

036 Antique Plate II

036 Antique Plate II

GLOBAL ADJUSTMENTS

- Brightness: 18%
- Contrast: 30%
- Structure: -29%

Tonality Protection

- Shadows
- Highlights

SELECTIVE ADJUSTMENTS

Control Points

Control Points

COLOR FILTER

Details

FILM TYPES

FINISHING ADJUSTMENTS

LOUPE & HISTOGRAM

BRUSH CANCEL OK

Roseman Bridge BW for show.tif 24.0 MP

16.67% Doc: 56.0M/471.1M

Timeline

1 Slide Selected - 6.000 seconds Slide 53 of 53 - Slide 53 Blank Slide

JPEG Image - Roseman-Bridge-Silver-Efex-Pro-Antique-Plate-II.jpg (627.34 KB - 1024 x 682) - Show...



Selective Tool

Dfine 2

Dfine 2	Skin
Background	Sky
Hot Pixels	Shadows
Fine Structu...	Strong Noise

Viveza 2

Viveza 2

HDR Efex Pro 2

- Merge (Multiple Image Series)
- Tone Mapping (Single Image)

Analog Efex Pro 2

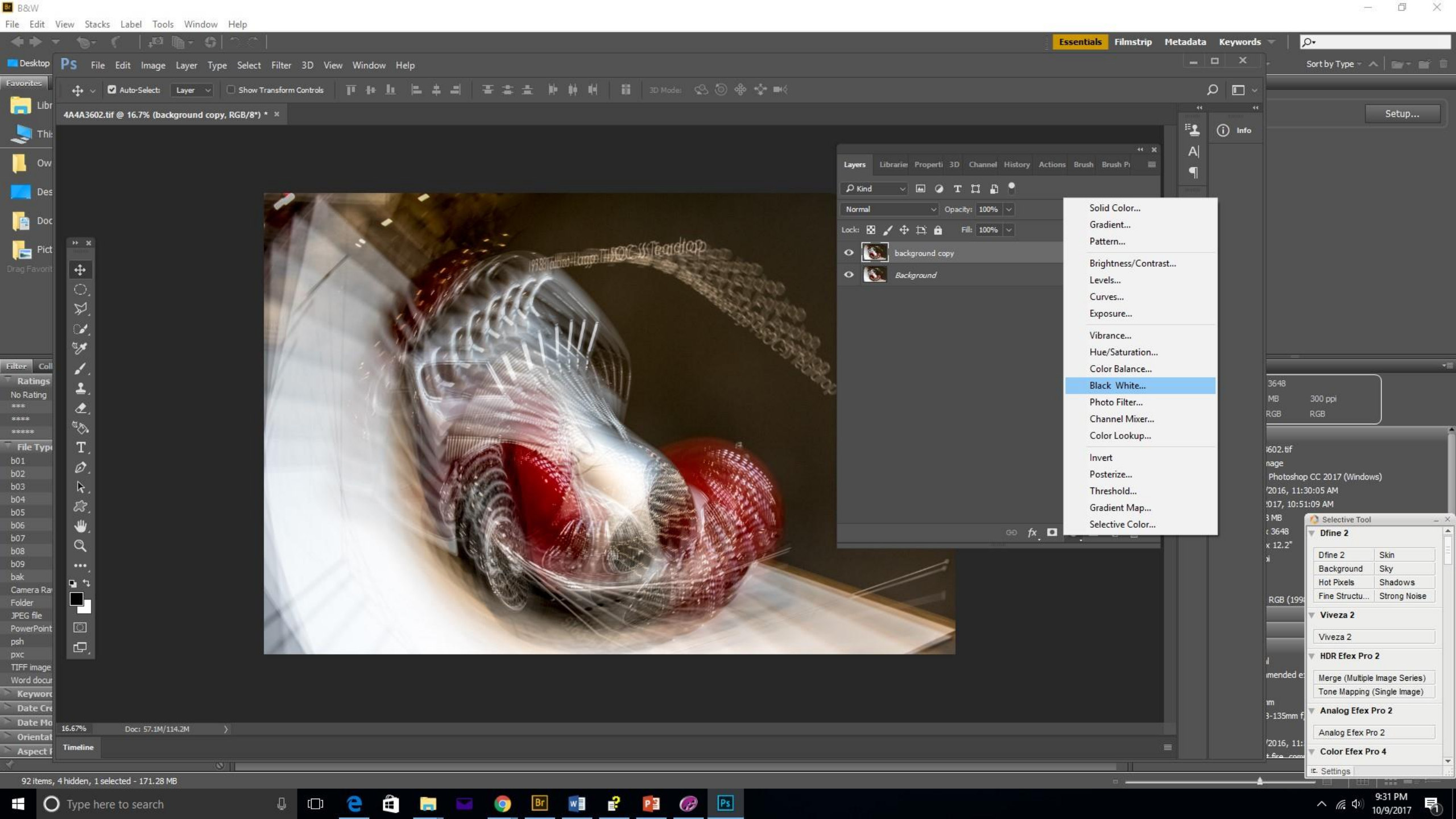
Analog Efex Pro 2

Color Efex Pro 4

Settings



Monochrome with a color (or more) brought back



4A4A3602.tif @ 16.7% (background copy, RGB/8*) * x

Layers Librarie Properti 3D Channel History Actions Brush Brush Pi

Normal Opacity: 100% Lock: Fill: 100%

background copy Background

- Solid Color...
- Gradient...
- Pattern...
- Brightness/Contrast...
- Levels...
- Curves...
- Exposure...
- Vibrance...
- Hue/Saturation...
- Color Balance...
- Black & White...**
- Photo Filter...
- Channel Mixer...
- Color Lookup...
- Invert
- Posterize...
- Threshold...
- Gradient Map...
- Selective Color...

Selective Tool

Dfine 2

Dfine 2	Skin
Background	Sky
Hot Pixels	Shadows
Fine Structu...	Strong Noise

Viveza 2

Viveza 2

HDR Efex Pro 2

- Merge (Multiple Image Series)
- Tone Mapping (Single Image)

Analog Efex Pro 2

Analog Efex Pro 2

Color Efex Pro 4

Settings



Clone Source
Character
Paragraph
Tool Presets

Layers

Kind: [Image] Opacity: 100%

Lock: [Icons] Fill: 100%

- Black & White 1
- background copy
- Background

1. Click and drag the color layer you wish to reveal, to just beneath the Black & White adjustment layer.
2. Click the white mask on the Black & White adjustment layer.
3. On the tools palate, select a brush. On the top menu, select a brush opacity. It's good to start low, with 20-25%. Adjust opacity as needed.
4. Size the brush to fit just within the widest boundaries of the object you wish to color.
5. Click 'D' to get black and white 'paint' on the paint palate at the bottom of the tools palate. Verify that black is the top, foreground color.
6. On the picture itself, start painting the area you wish to color: Position your brush at the widest part, then click to lay down the black paint. Continue to paint by adjusting the size of your brush to avoid as much overlap as possible. To make the brush larger, click the ']' key. To make it smaller, click the '[' key.

Tinting with Black and White Layer



Original developed color image with lots of saturation!

Added a Black and White Adjustment Layer and changed its opacity to 66%

Opacity of layer

