



# **EXPOSURE: GET IT RIGHT IN THE CAMERA**

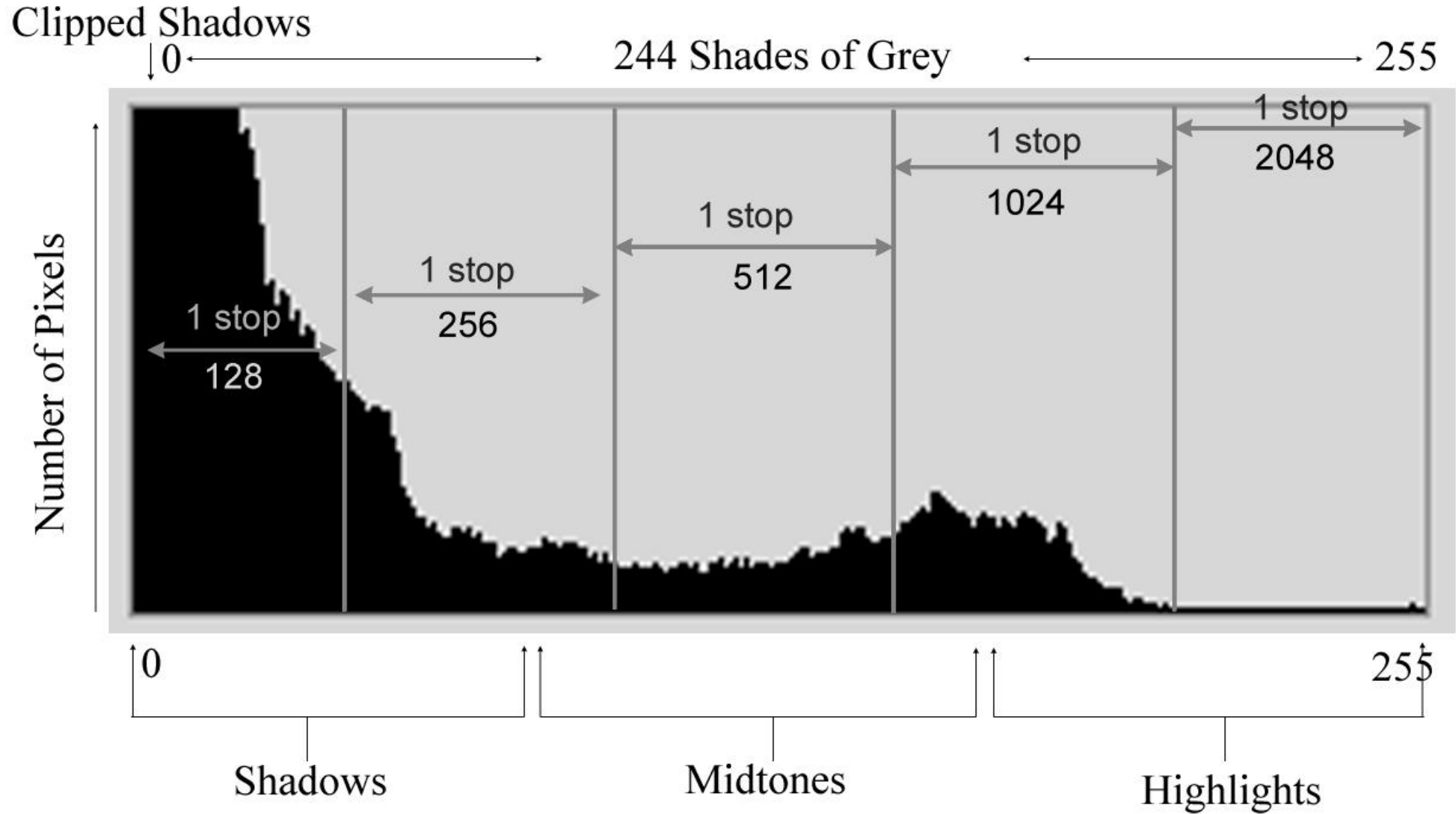
LARRY PETTERBORG

SUMMER, 2022

# SESSION THREE

1. REVIEW HISTOGRAM
2. EXPOSURE COMPENSATION
3. EXPOSE TO THE RIGHT (ETTR)
4. HOMEWORK
5. EXPOSURE BLENDING
6. TIPS

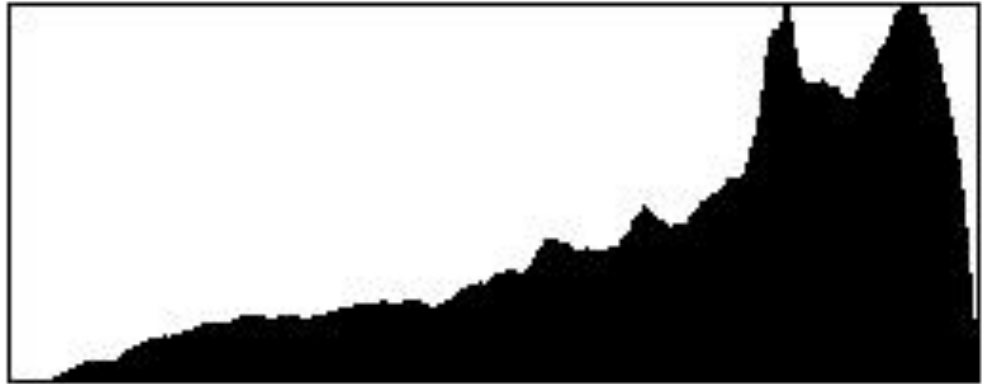
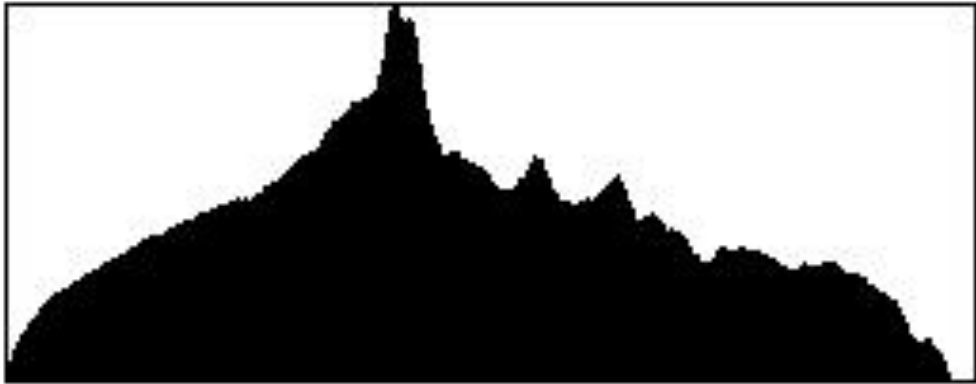
# HISTOGRAMS



# EXPOSURE COMPENSATION



# ETTR



HOME  
WORK

# DENNIS FRITSCHÉ



190 MM, F 5.6, 1/1250 SEC, ISO 25600



190 MM, F 2.8, 1/1000 SEC, ISO 11400, -1/3

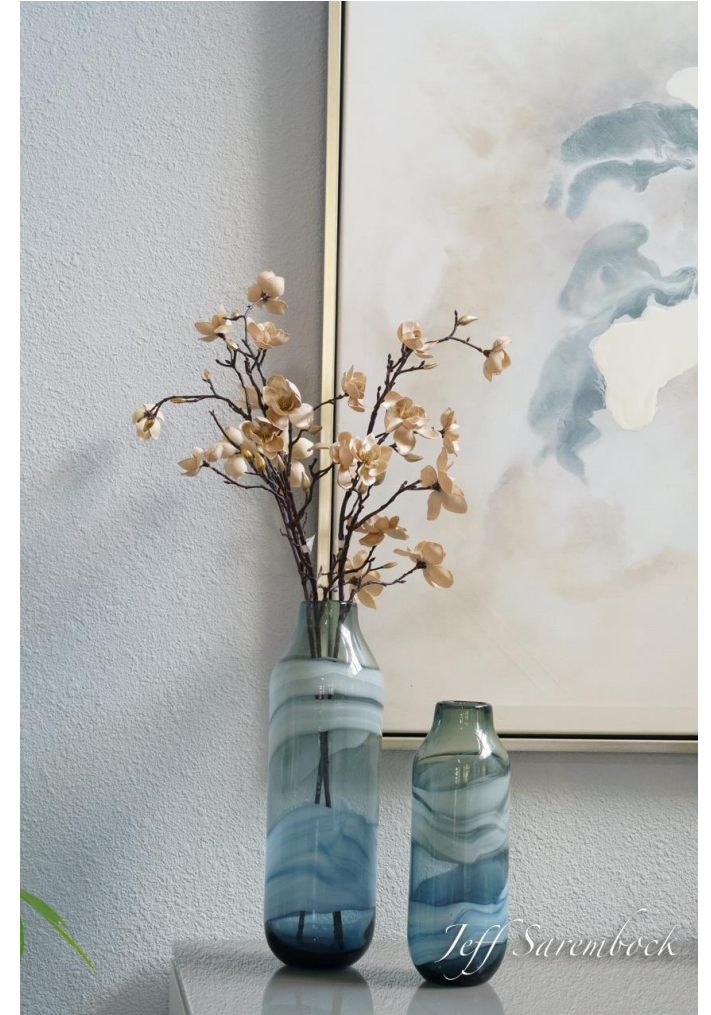
# Impact of Proper Exposure on Noise

## Manual with Auto ISO (Maximum 25600)

	Camera	Lens	Focal Length	White Balance	Shutter Speed	Aperture	Exposure Compensation	ISO
Rodeo 1	Nikon Z7ii - 45M, Full Frame	Nikon z 100-400 f/4.5-5.6	190mm	Auto	1/1250	5.6	0	25600
Rodeo 2	Nikon Z7ii - 45M, Full Frame	Nikon 70-200 f/2.8	190mm	Custom	1/1000	2.8	-1/3	11400
		2 Stops Additional Light			1/3	2	-1/3	



# JEFF SAREMBOCK



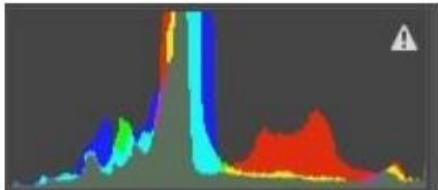
# JEFF SAREMBOCK



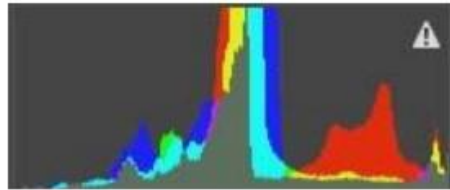
# RESULTS

- **The ETTR exposure provided the best image. It displayed less noise and more clarity**
- **The camera selected exposure was 2nd best at about 1.7 stops less exposure. At 3200 ISO it was noticeably more grainy**
- **The underexposed image at 1.7 stops less exposure than the camera selected exposure was by far the worst, revealing weird color artifacts, grain, and noise which are very noticeable when cropped.**

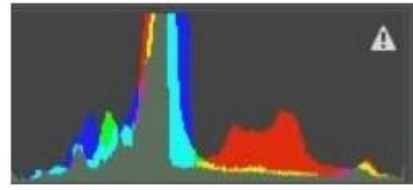
# KENI EVANS



Auto SS 1/60  
f2.8 ISO 1000



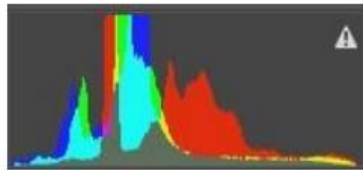
Over SS 1/50  
f2.8 ISO 1000



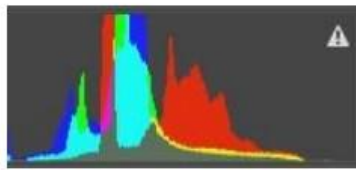
Under SS 1/80  
f2.8 ISO 1000

# KENI EVENS

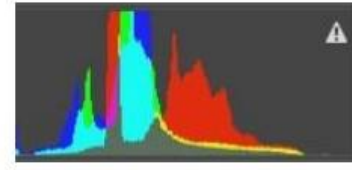
Exposure and Highlight Adjustment Only



Auto SS 1/160 f2.2  
ISO 1000



Over SS 1/100 f2.2  
ISO 1000



Under SS 1/250 f2.2  
ISO 1000

# RESULTS

- **My biggest take away in homework 1 is the difference in noise by using ETTR.**
  -
- **My biggest take away in homework 2 is the difference in color with ETTR. I have often struggled with that in post.**
  -
- **I have known about ETTR and tried to remember to do it but often forget as I really wasn't understanding it completely and didn't value the difference it made. Lessoned learned.**

*Lois Schman*  
*Exposure Compensation: -2*  
*Raw Data*



*Lois*  
*Exposure Compensation: 0*  
*Raw Data*



*Lois*  
*Exposure Compensation: +2*  
*Raw Data*



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LOIS

# CLIVE

Exposure-3129.JPG  
1/15 sec at *f* / 4.5, ISO 5000  
105 mm (RF24-105mm F4 L IS USM)



Histogram

ISO 5000 105 mm *f* / 4.5 1/15 sec

Original Photo

Basic

Treatment: Color Black & White

Profile: Color

WB: As Shot

Temp: 0  
Tint: 0

Tone: Auto

Exposure: 0.00  
Contrast: 0  
Highlights: 0  
Shadows: 0  
Whites: 0  
Blacks: 0

Presence

Texture: 0  
Clarity: 0  
Dehaze: 0  
Vibrance: 0  
Saturation: 0

Tone Curve

Adjust

Region

Highlights: 0  
Lights: 0  
Darks: 0  
Shadows: 0





**CLIVE**

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# CLIVE



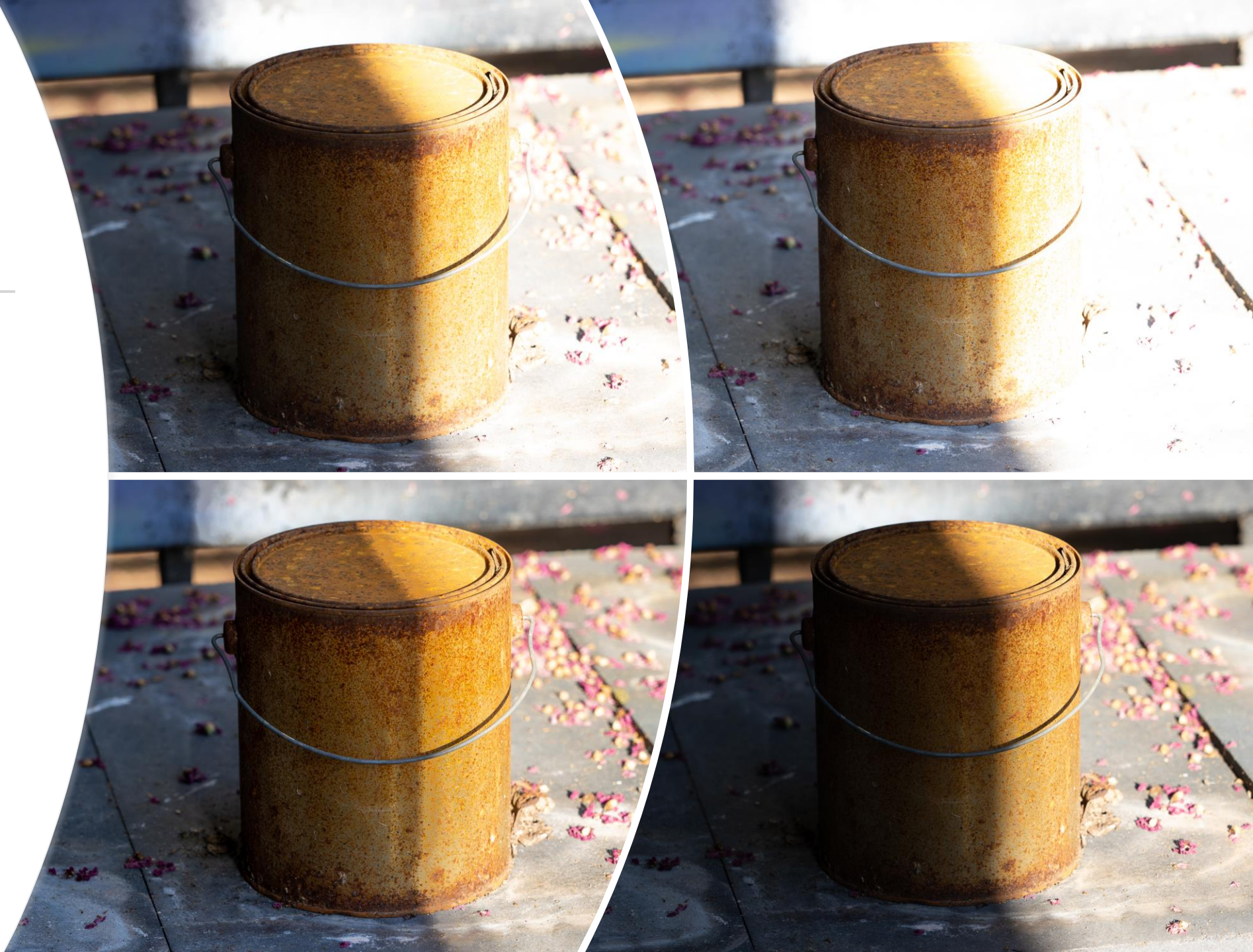
NEW STUFF

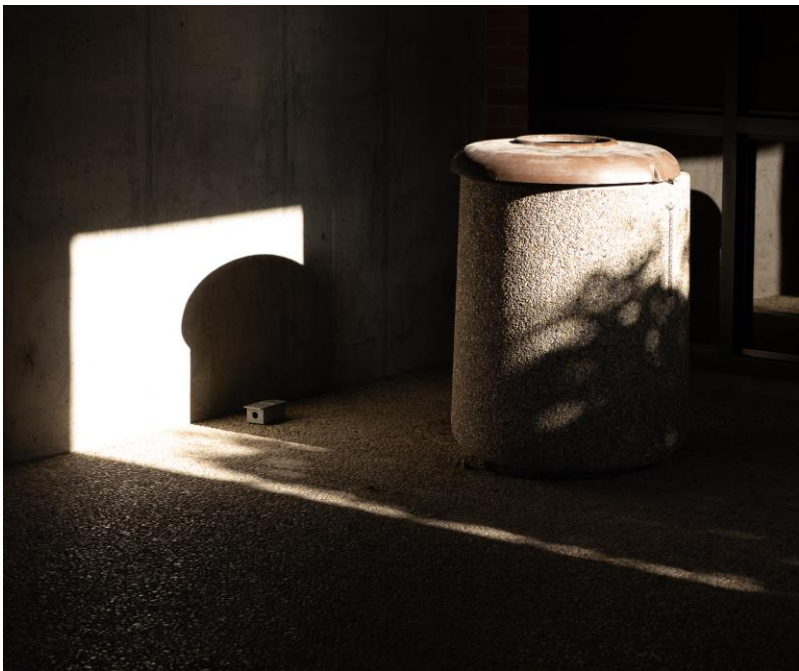
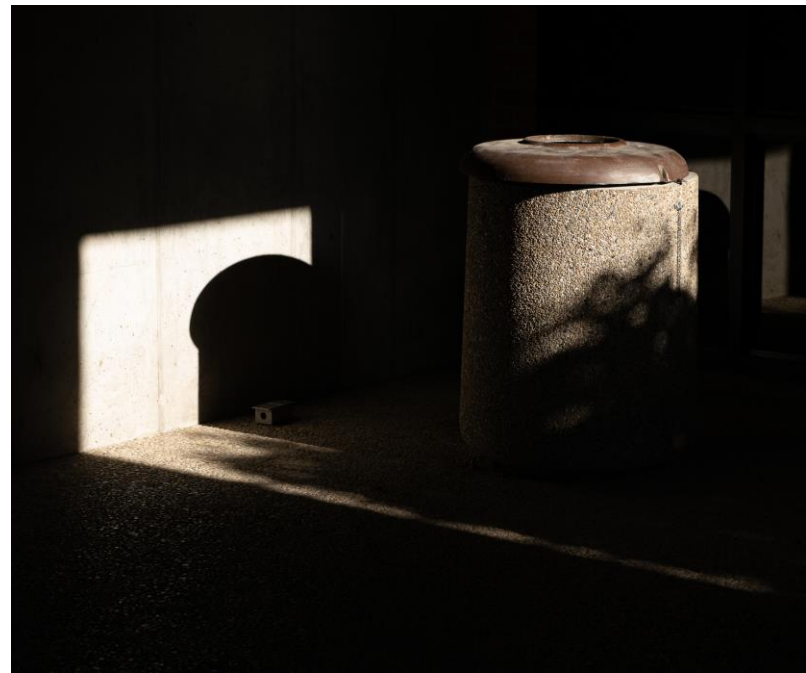
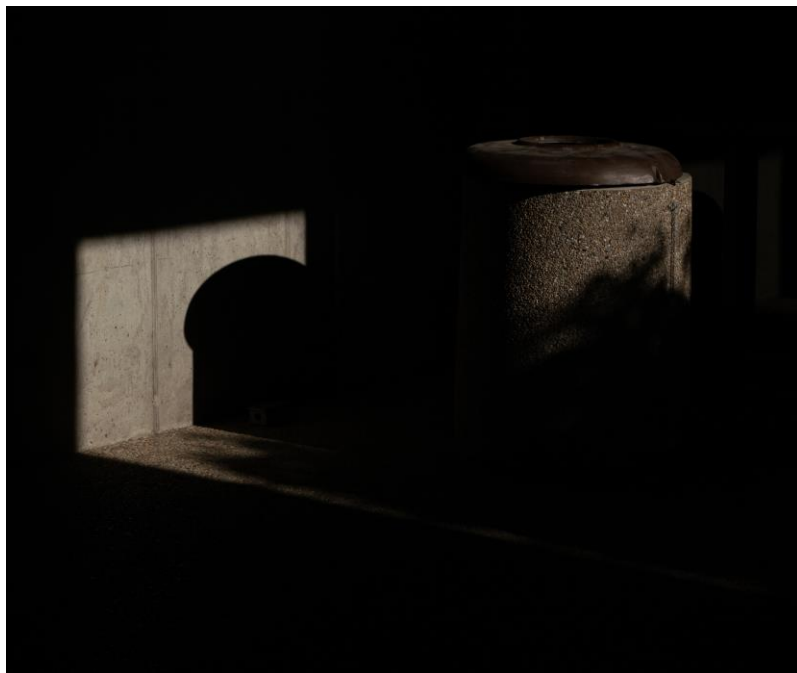


## EXPOSURE BLENDING (HDR)

TO INCREASE THE DYNAMIC RANGE IN AN IMAGE, YOU CAN TAKE MULTIPLE SHOTS OF THE SUBJECT AT DIFFERENT EXPOSURES AND COMBINE THEM IN SOFTWARE TO GET THE BEST PARTS OF EACH.

([Auto Exposure Bracketing - Digital Photo \(dpmag.com\)](http://dpmag.com))





A top-down view of a collection of various cameras and lenses scattered on a dark, textured surface. The collection includes several vintage rangefinders, a large SLR with a prominent lens, a camera with a large external flash, and various lenses with different markings. The text 'MY CAMERA SET-UP' is centered in white, bold, sans-serif font.

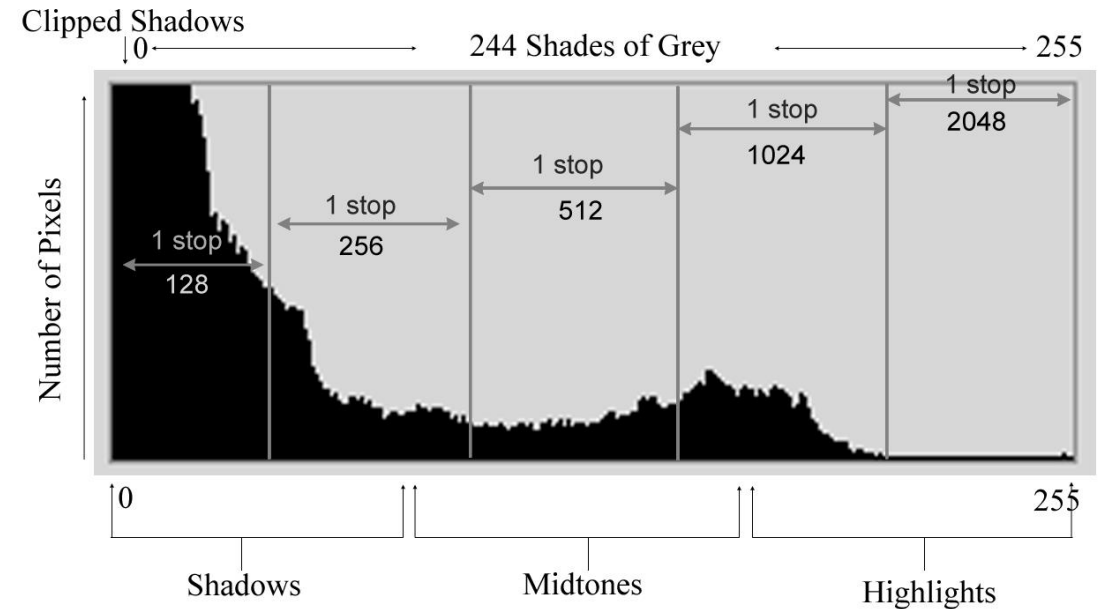
# MY CAMERA SET-UP

BASED ON RECCOMENDATIONS FROM  
PETER FORSGARD FOR OM-1 (<https://youtu.be/qPhrV0mj40Y>)



# MY SETTINGS

- I SHOOT **RAW**
- DISPLAY MODE IS MUTED WITH -2 CONTRAST AND -2 SATURATION
- ADOBE RGB COLOR SPACE
- HIGHLIGHT AND SHADOW WARNINGS ON (BLINKYS, ZEBRAS ECT.)
- HISTOGRAM SET AT 254 AND 1





# TIPS

1. TAKE MORE PICTURES
2. MAKE MORE THOUGHT SHOTS
3. HANG AROUND PEOPLE THAT KNOW MORE THAN YOU DO
4. ASK QUESTIONS
5. RE-SET CAMERA TO DEFAULTS EVERY DAY
6. DON'T BE AFRAID OF HIGH ISO
7. SIGN-UP FOR A REGULAR NEWSLETTER OR YOUTUBE
8. **HAVE FUN**

# RESOURCES

- [Home : Michael Frye Photography](#)
- [Landscape Photography by Nigel Danson | UK](#)
- [Backcountry Gallery | Wildlife And Nature Photography By Steve Perry](#)
- [Landscape Art | Mads Peter Iversen Photography \(mpipphoto.dk\)](#)
- <https://youtu.be/IAEwNvT9Mxc> Nick Page, PS Expo Blending
- <https://fstoppers.com/gear/beginners-guide-camera-settings-617388>
- Proper “Exposure” is a myth. <https://youtu.be/ABosqWqLNJ8>

Any

Questions