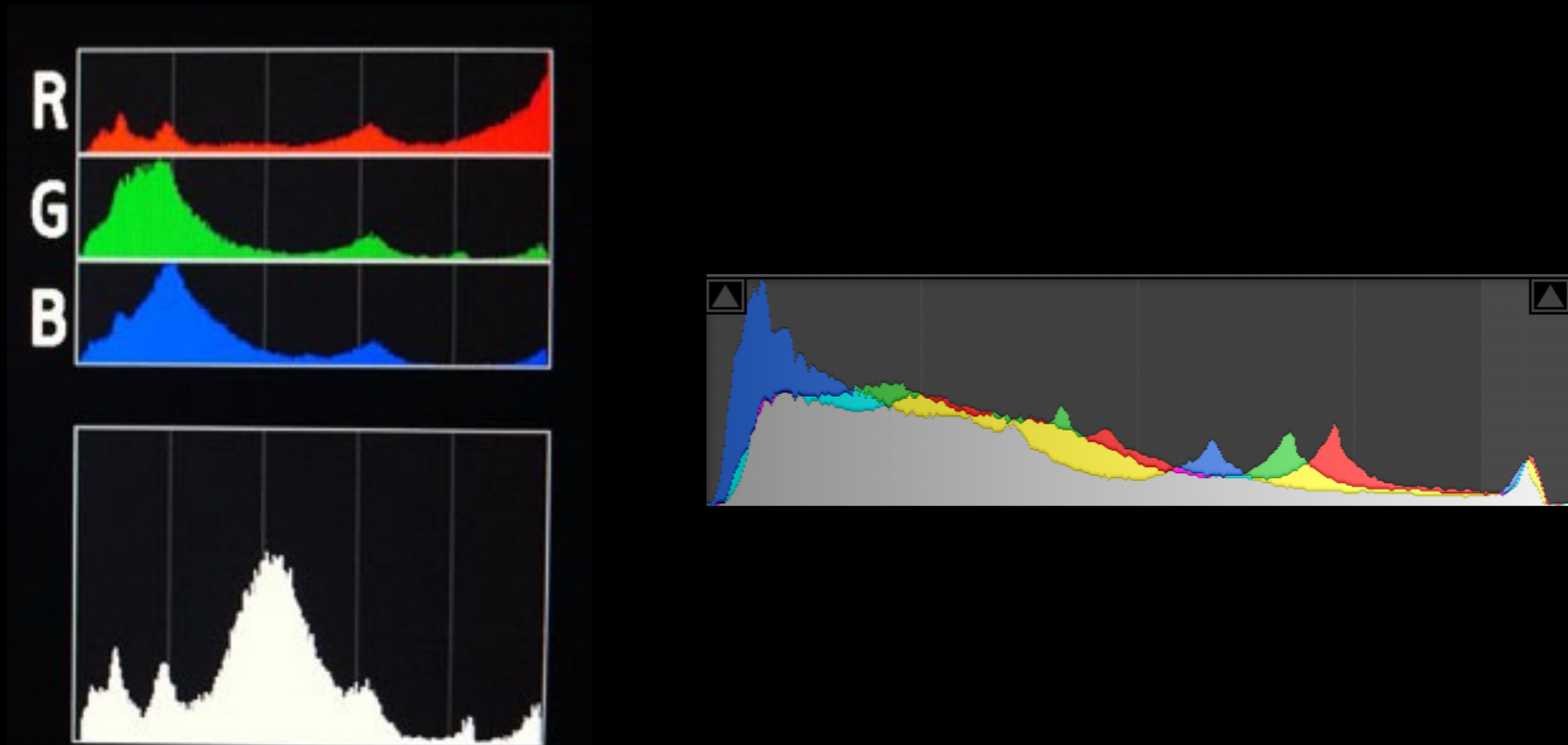


Black & White Photography

Coastal Photo Club
February 29, 2020

Histograms

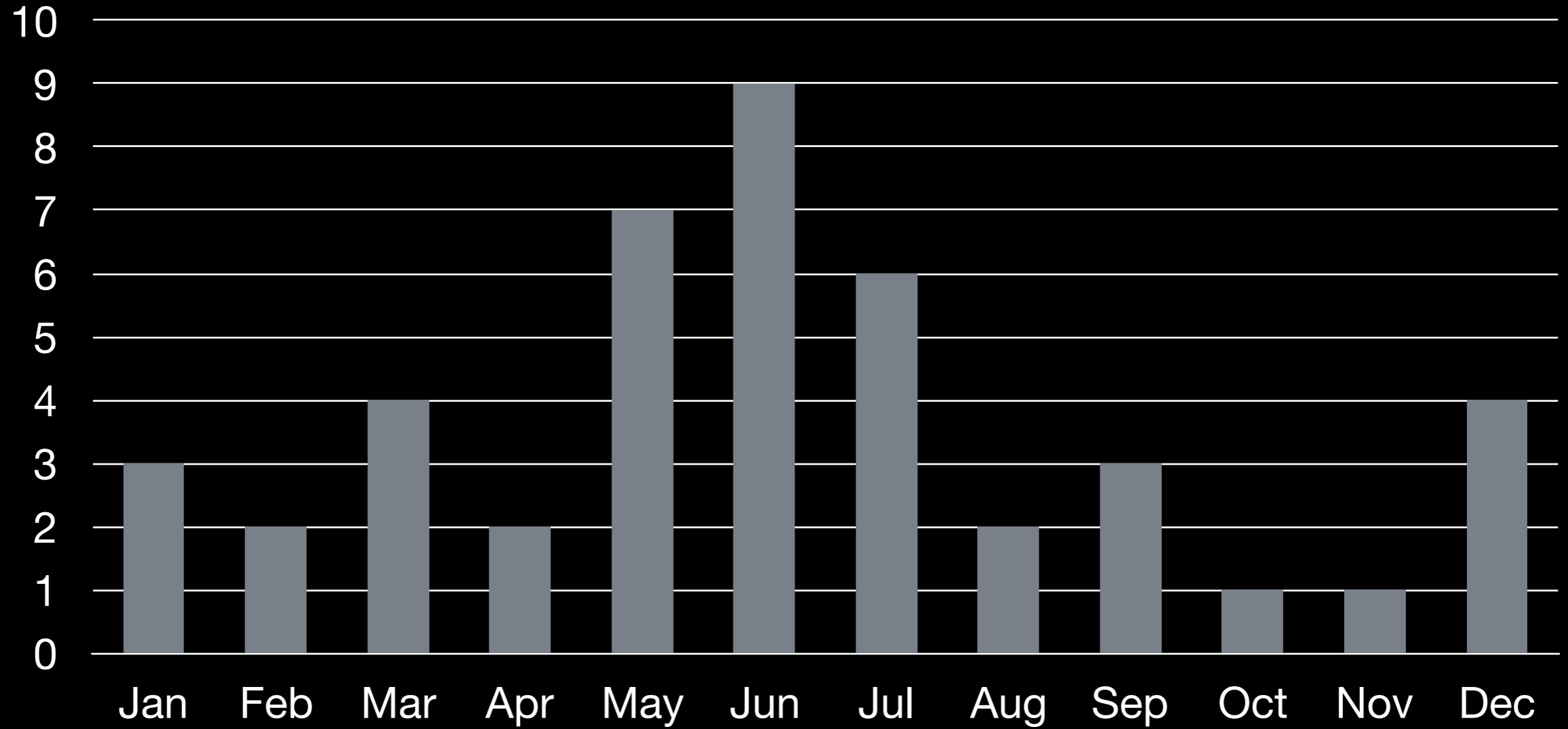


- ★ What is a histogram
- ★ How to read them
- ★ Why & How to Use them

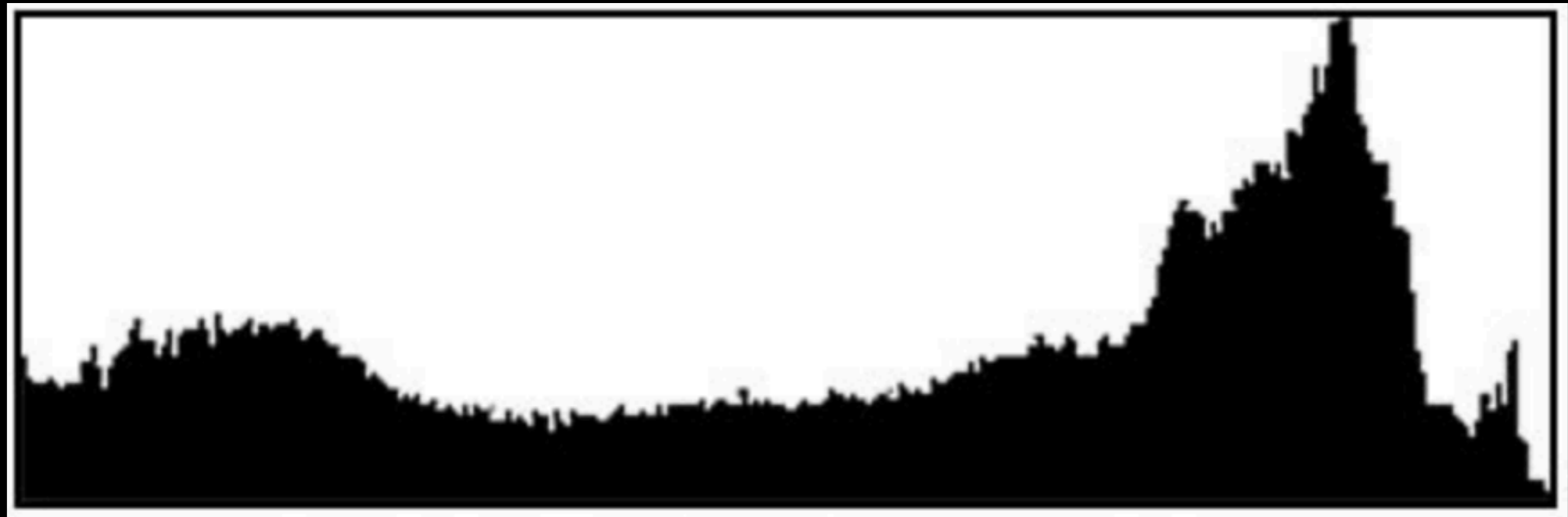
Histogram is a graph

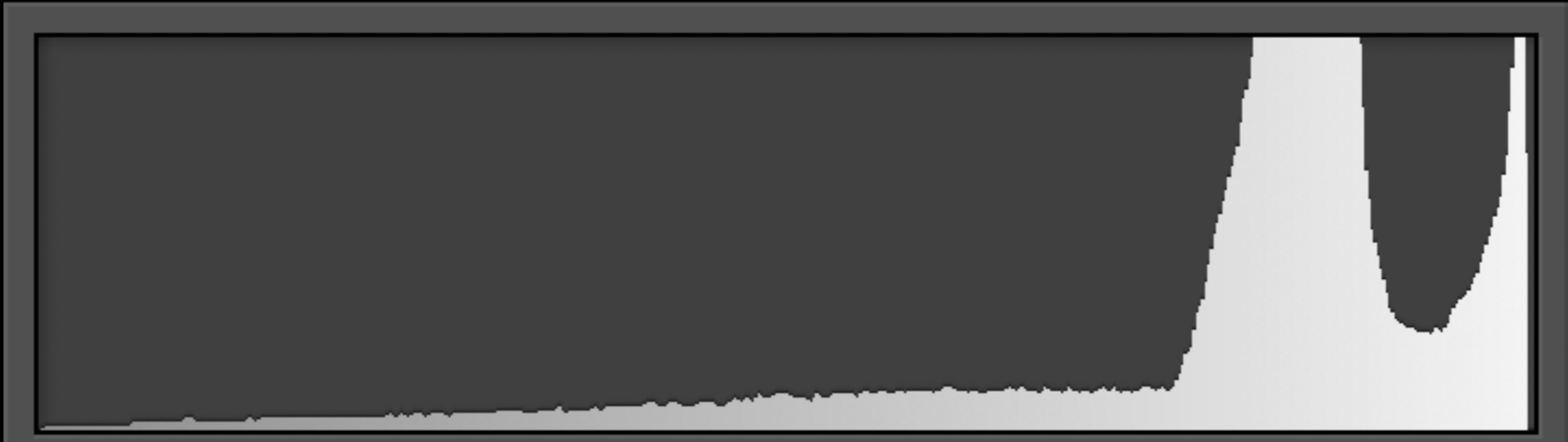


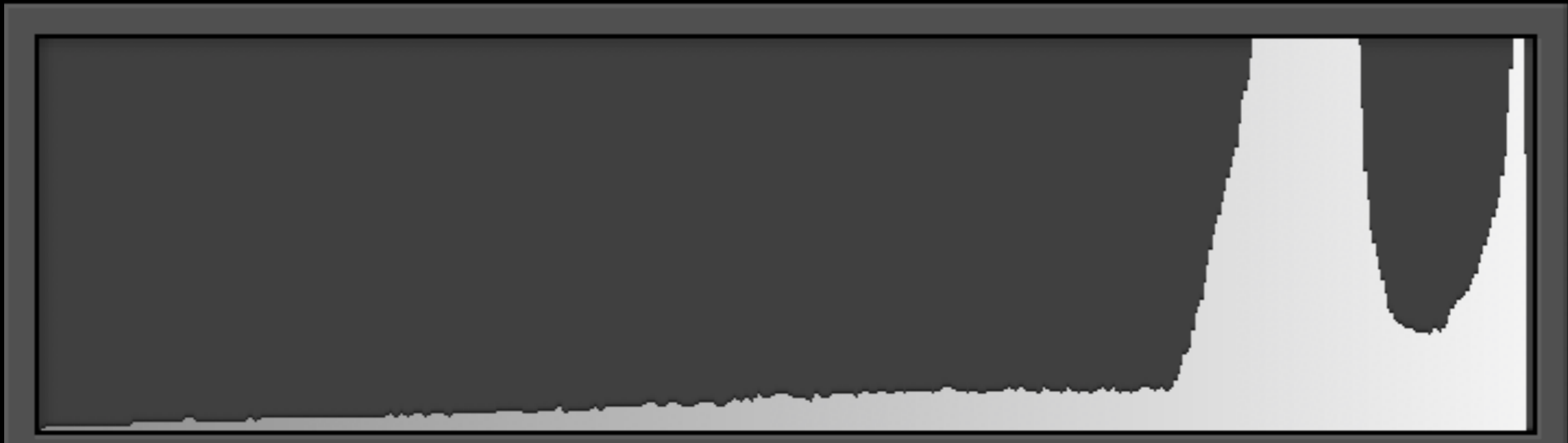
Month Born



How to Read Histograms





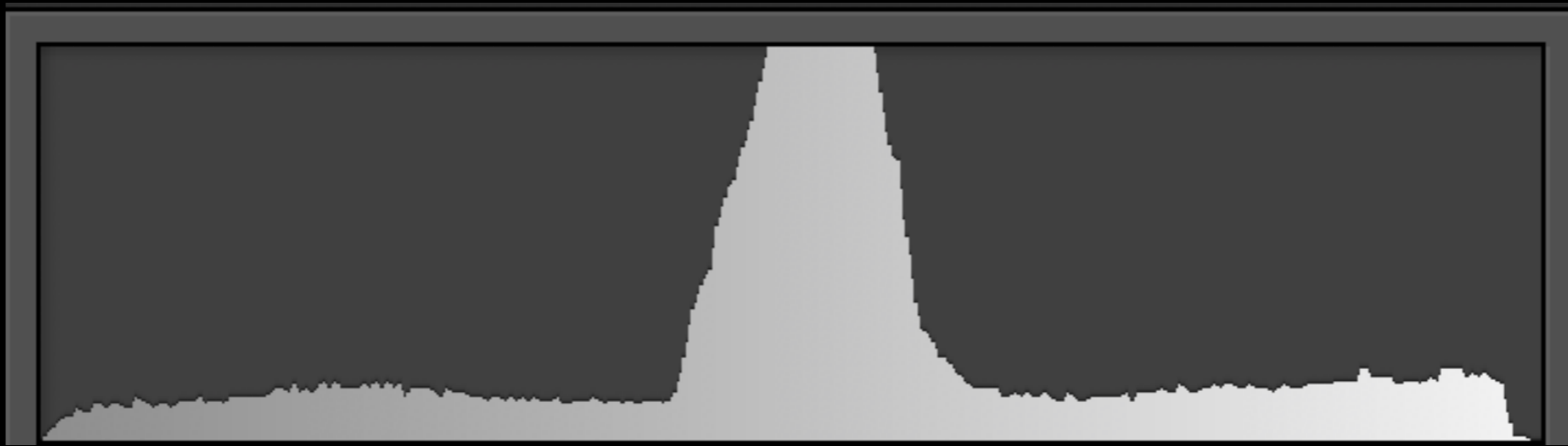


**Over Exposed Image.
Note the shift to the right
on the histogram**

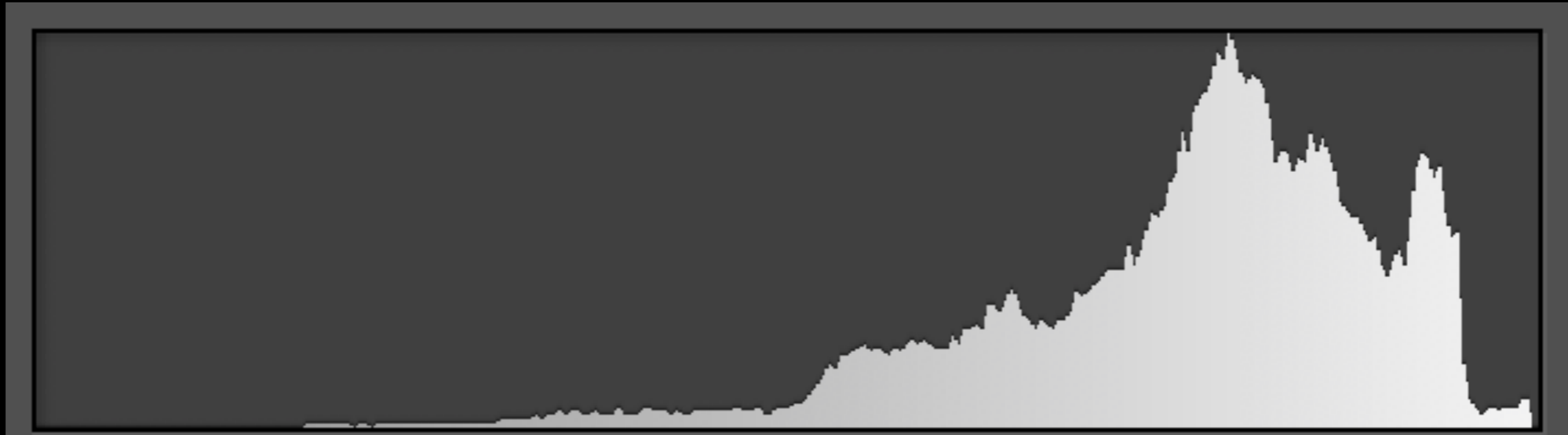




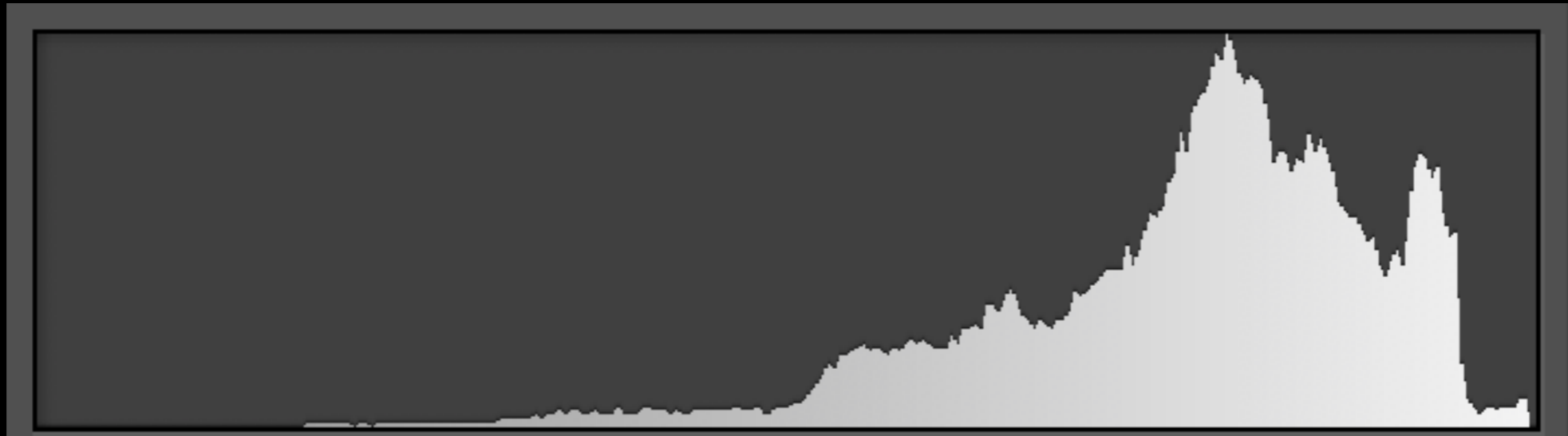
**Over underexposed Image.
Note the shift to the left
on the histogram**



**Good Exposure.
Note the middle gray
pixels on the histogram
are in the center**



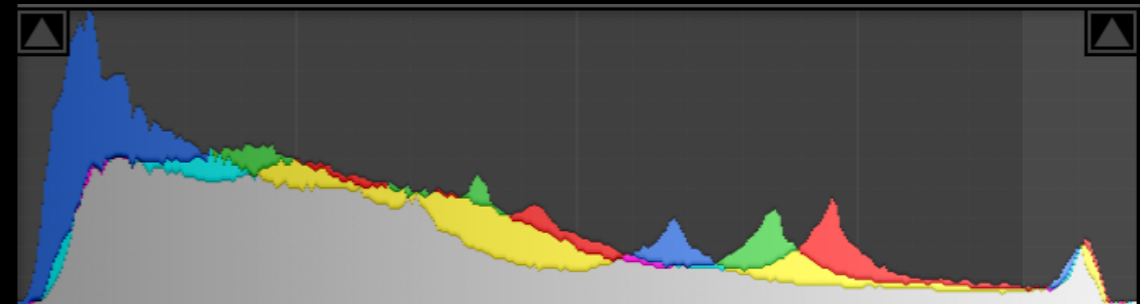
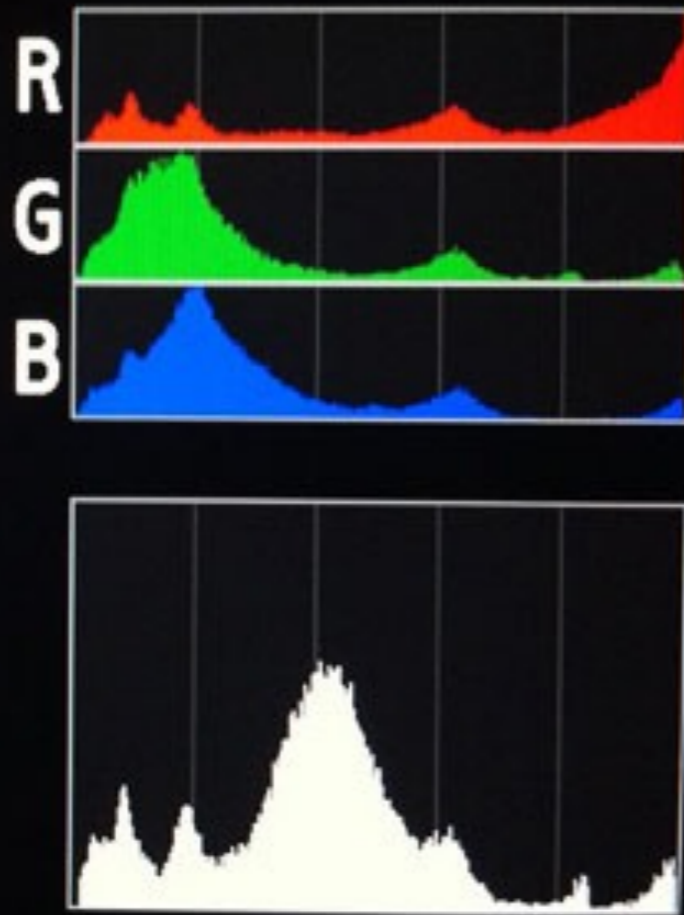
But Don't be fooled



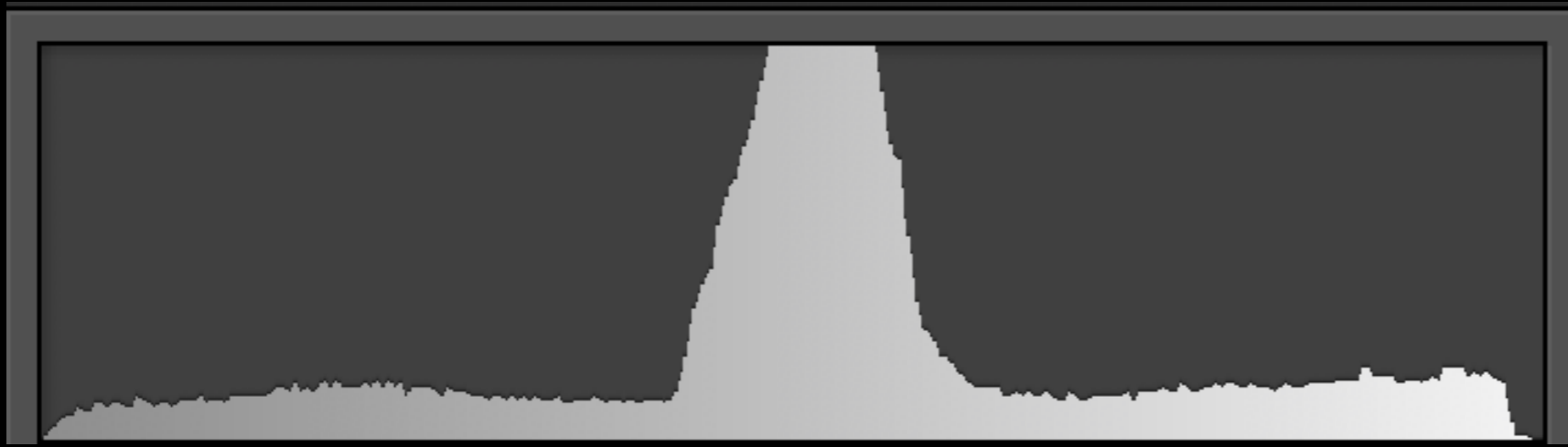
These pixels are shifted to the right and yet the image is properly exposed.

This is a “high key” image. It has a lot of pure white pixels because that is what the photographer wanted to show.

Histograms



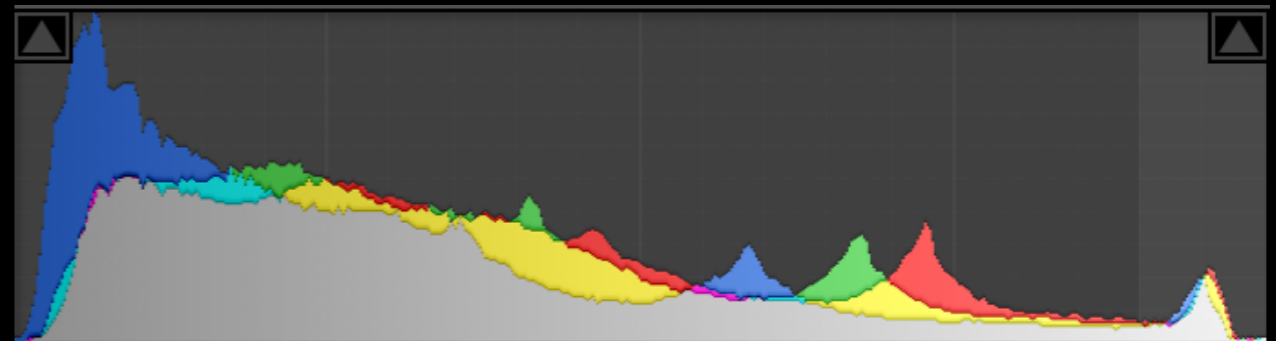
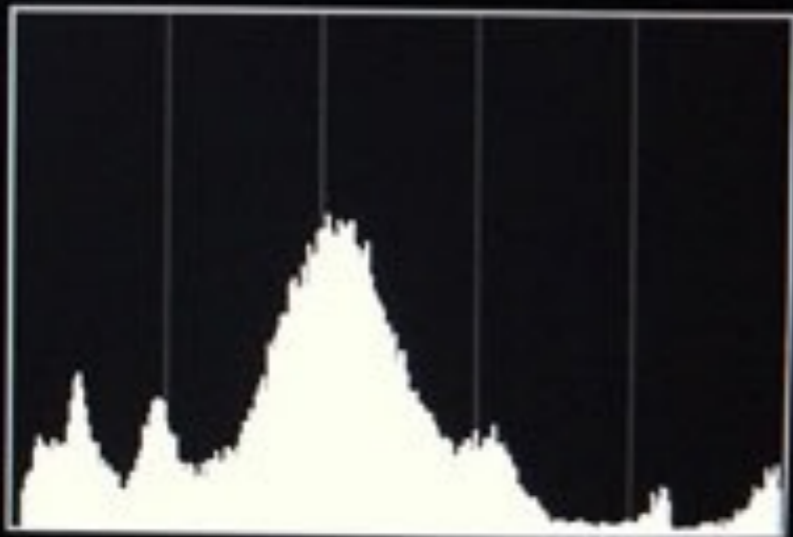
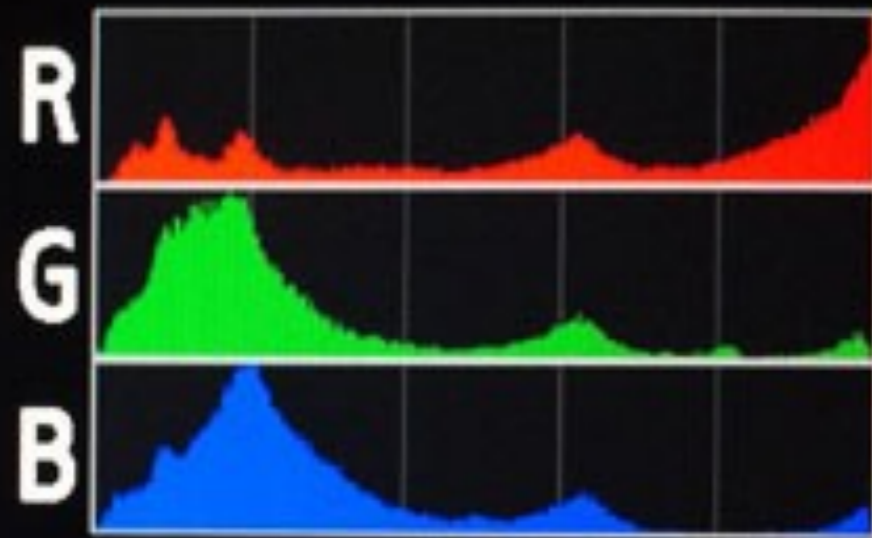
- ★ What is a histogram
- ★ How to read them
- ★ Why & How to Use them



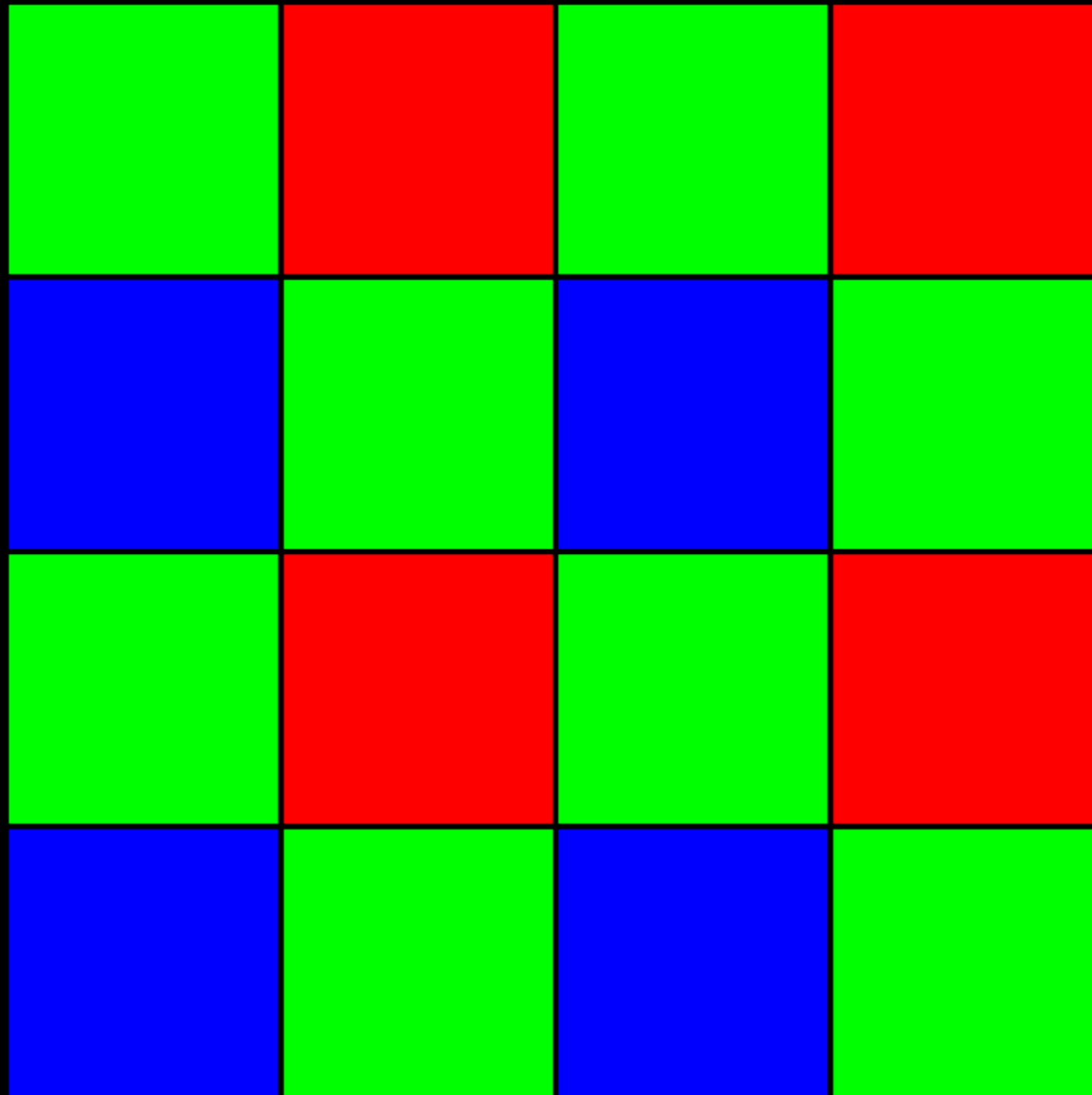
You Need

- knowledge of what the histogram is showing you
- knowledge of the scene you are capturing
- knowledge of the final image you wish to produce
- then you look at the histogram and evaluate how and if you want to adjust your exposure for the next image by tweaking your aperture, shutter speed, ISO, or make adjustments using exposure compensation. You might also try recomposing the scene to reduce the amount of dark or light area in the image.

Histograms



Bayer Arrangement of Color Filters



Black & White Photography

The Challenge

Black & White Photography

The Challenge

Color is often used in photography to create that
“Wow” factor

That Sinking Feeling by Rick Gourley

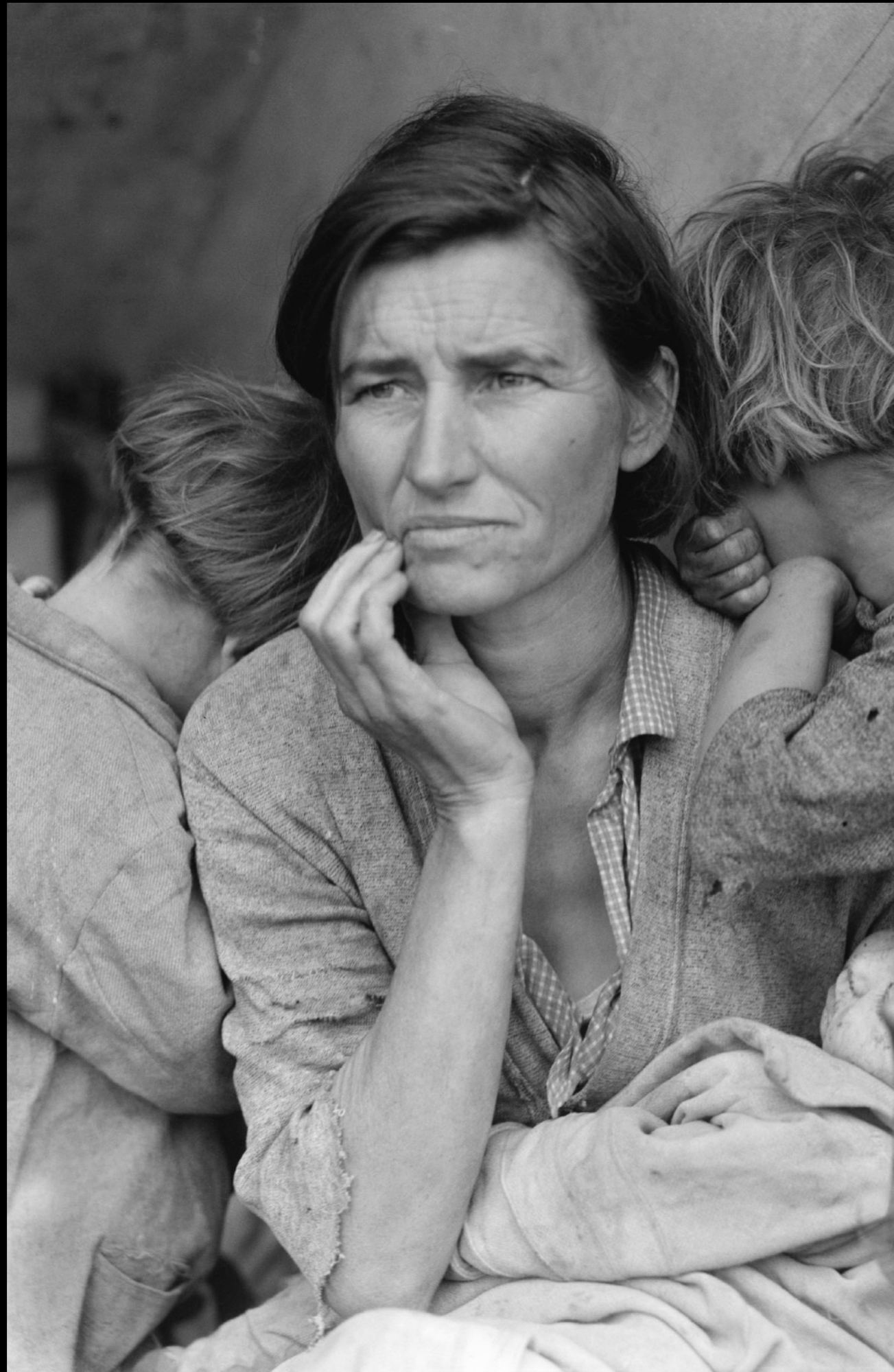


Black & White Photography

The Challenge

Color is often used in photography to create that “Wow” factor

With Black & White or Monochrome we lose a very powerful tool — color



Dorothea Lang - Migrant Mother



Dorothea Lang - Grandfather and grandson of Japanese ancestry at the "War Relocation Authority center"



Dorothea Lang - "Broke, baby sick, and car trouble!" (1937)



Julian Wasser - Rev. Dr. Martin Luther King Jr. speaking

Black & White Photo

- Composition
- Texture, Pattern, Lines
- Contrast, Wide Tonal Range

Black & White Photo

- Composition
- Texture, Pattern, Lines
- Contrast, Wide Tonal Range

Black & White Photo

- Composition
- Texture, Pattern, Lines
- Contrast, Wide Tonal Range

Black & White Photo

- ★ Composition
- ★ Texture, Pattern, Lines
- ★ Contrast, Wide Tonal Range

A tourist in New York city was running late for a concert and didn't know exactly where she was going.

The tourist asked a street vendor, "How do I get to Carnegie Hall?"

The vendor replied...

“Practice, practice, practice!”

See in color

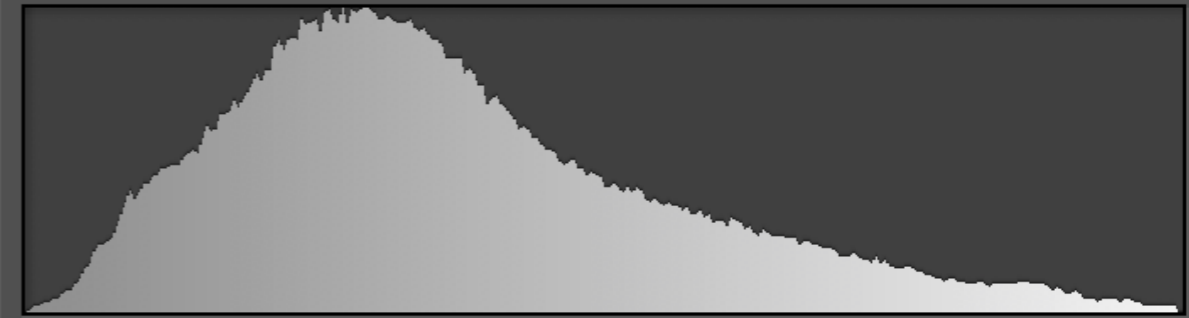
Think in black in white











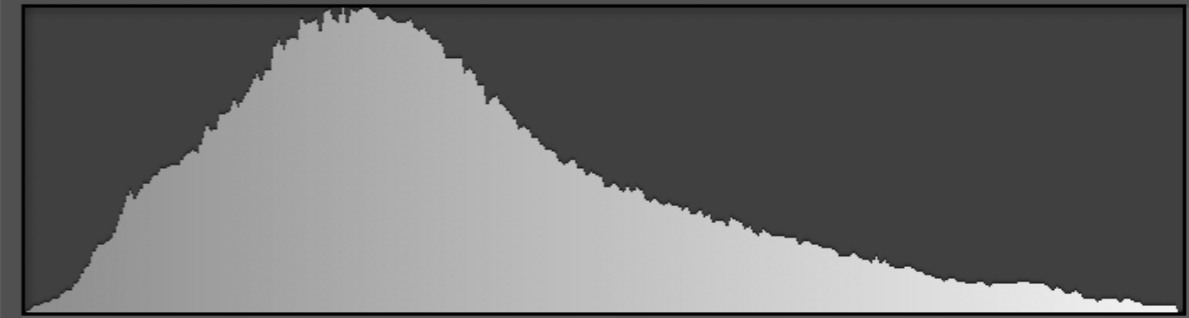
ISO 250

70 mm

f / 7.1

1/320 sec





ISO 250

70 mm

$f/7.1$

$1/320$ sec



Shooting in Black & White (Monochrome)

Shooting in B&W

- Picture Style, Creative Style, Picture Profile
 - Standard
 - Portrait
 - Landscape
 - Monochrome - will display black & white on the back of your camera
- Picture Quality
 - Camera Raw (various sizes)
 - Jpeg (various sizes)
 - both

Shooting in B&W

- Picture Style, Creative Style, Picture Profile
 - Standard
 - Portrait
 - Landscape
 - Monochrome
- Picture Quality - determines what gets recorded on the card
 - Camera Raw (various sizes) - camera will still record all the color
 - Jpeg (various sizes) - camera deletes all color information
 - both

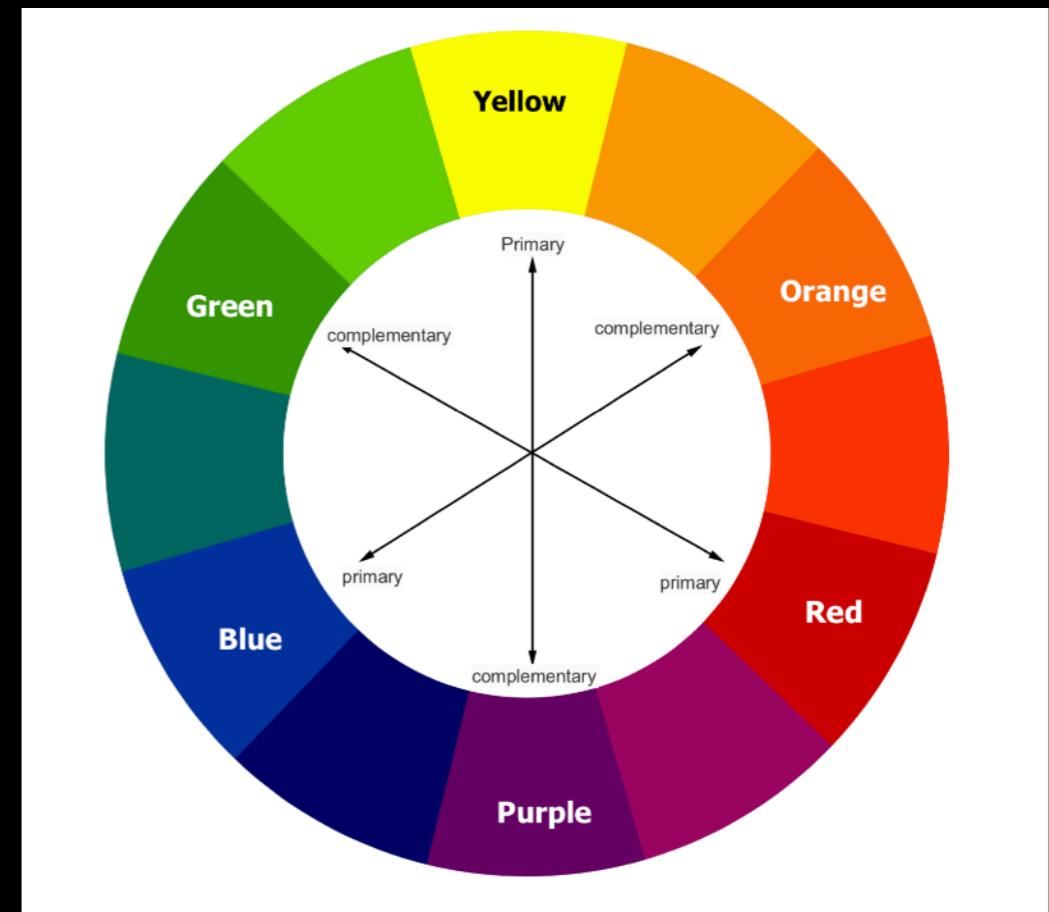
Two Final Thoughts

- ★ Lens Filters

- ★ Printing

Lens Filters

- Lighten their own color and darken their complement



Printing

- The paper you choose will impact what your image looks like

Let's play with some editing tools