Photographing Moving Water:

Considerations for Impactful Images

Session 2

© 2021 T. Alan Whiteside

Goal:

Understand the impact of individual and combined factors affecting images of moving water (and similar subjects)



Considerations for Photographing Moving Water

- Safety
- Your Intent
- Shutter Speed
- Amount of Movement (flow/volume)
- ★ Aperture (f-stop) and ISO
- ★ Neutral Density Filters
- ★ Direction of Movement
- ★ Depth of Field
- Composition

Aperture (f-stop) and ISO



Aperture (f-stop) and ISO



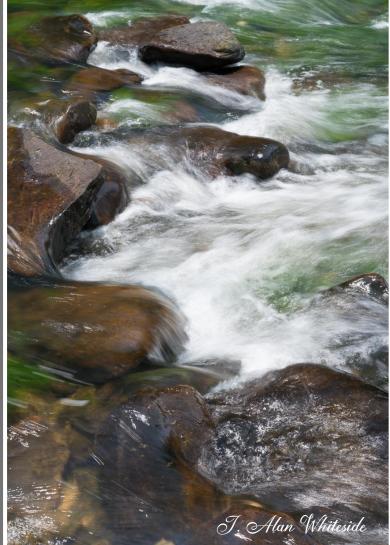
1/50th sec



1/8 sec

f / 16

Aperture as a Factor

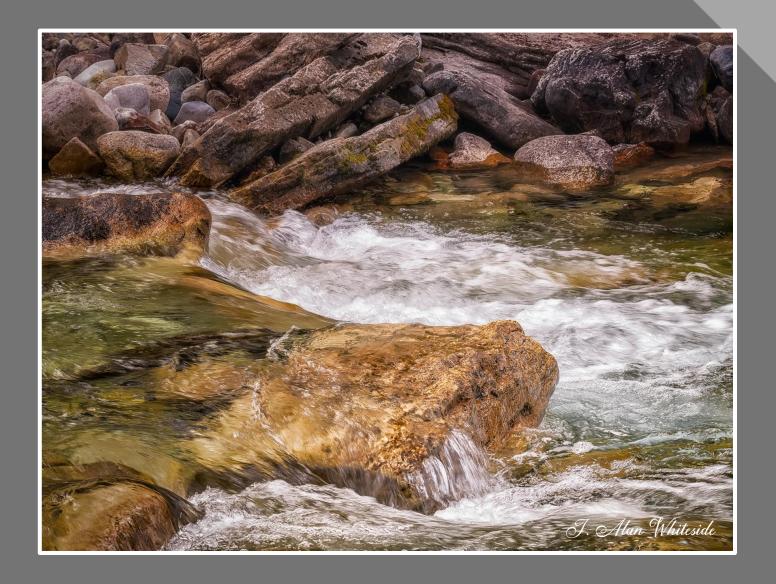


J. Alan Whiteside

1/30 sec f/8



Aperture (f-stop) and ISO



1/50th sec f/14 ISO 640 Cloudy



All Three Camera Controls + a New Variable

Shutter Speed

Aperture

ISO

Ambient Light







Application of Neutral Density Filter



10 sec f/16 ISO 100



Application of Neutral Density Filter



1/4 sec f/9 ISO 100



What Does a Neutral Density Filter Do?

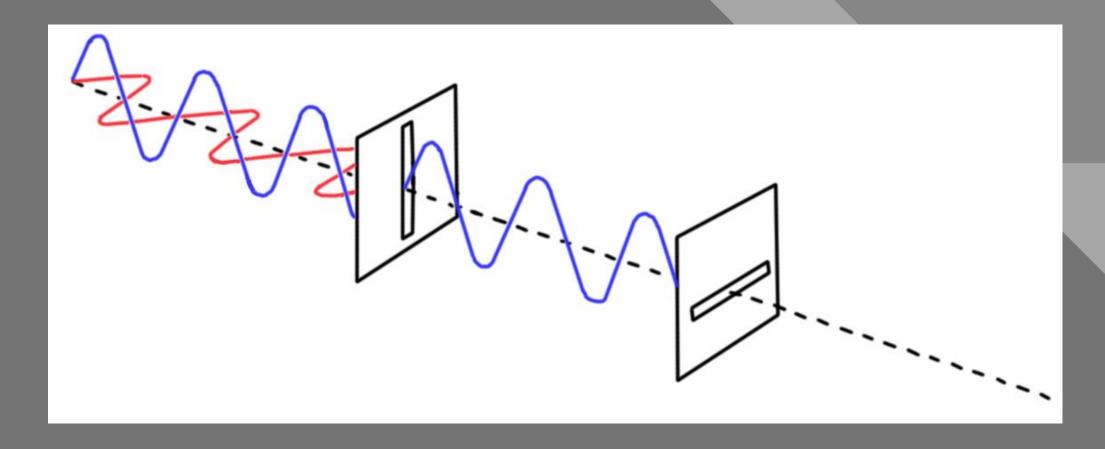


Diagram: resourcefulphysics.org



Neutral Density Shutter Speed Increase Example

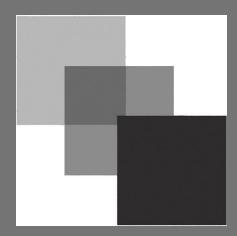
Original Shutter Speed	ND F-Stop Reduction	New Shutter Speed (Rounded)
1s	0	1s
1s	1	2s
1s	2	4s
1s	3	8s
1s	4	15s
1s	5	30s
1s	6	1m
1s	7	2m
1s	8	4m
1s	9	8m
1s	10	16m



Types of Neutral Density Filters



Solid: Screw-on or magnetic snap-on



Solid: Filter Holder



Variable: Screw-on

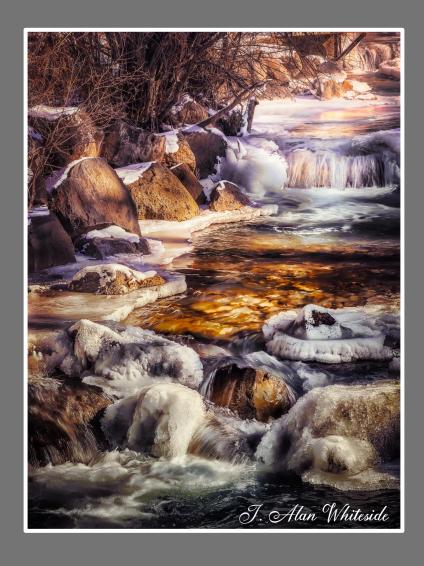


Filter(s) to fit largest lens plus step-down rings for other lenses

Direction of Movement



Direction of Movement Examples







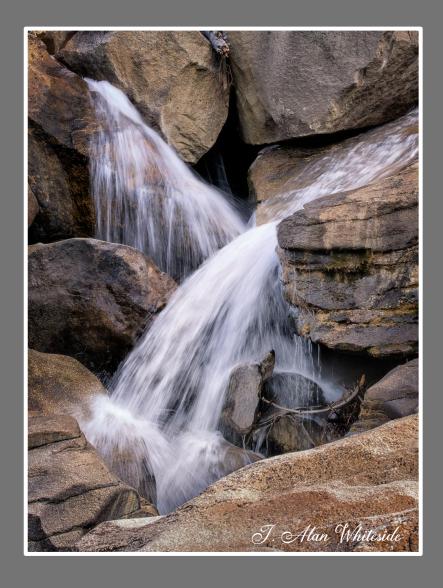
Direction of Movement Examples

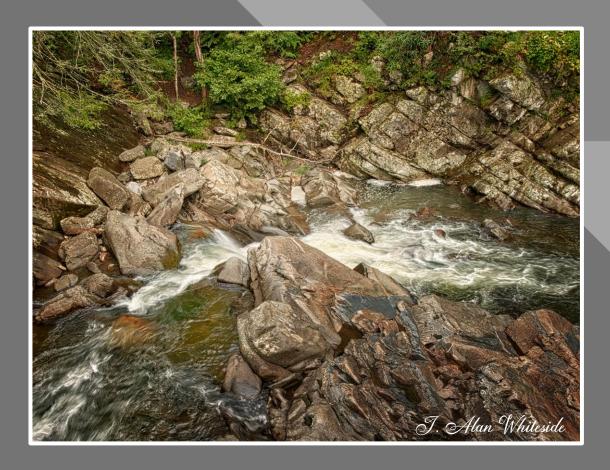






Direction of Movement Examples

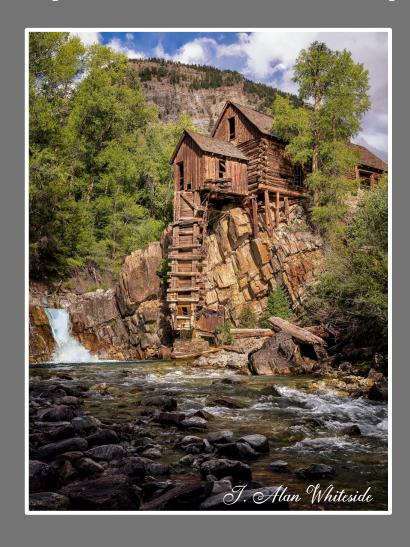




Depth of Field



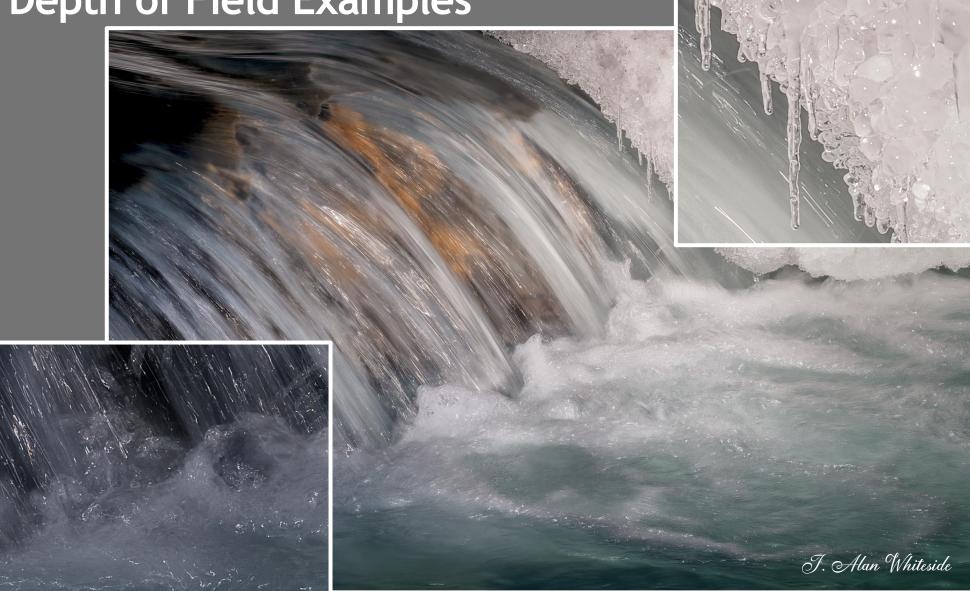
Depth of Field Examples







Depth of Field Examples



1/25th sec f/22 ISO 64 ND filter



Depth of Field Examples

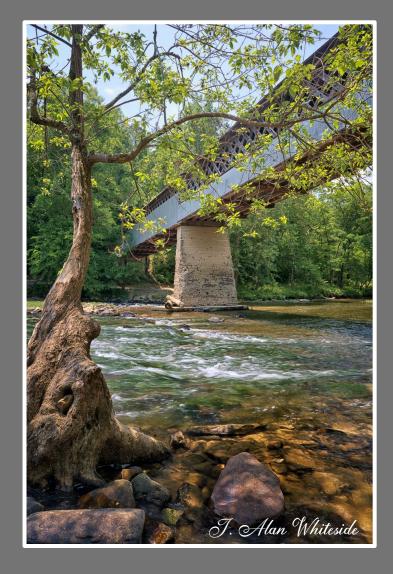


1/50th sec f/8 ISO 1250

Composition



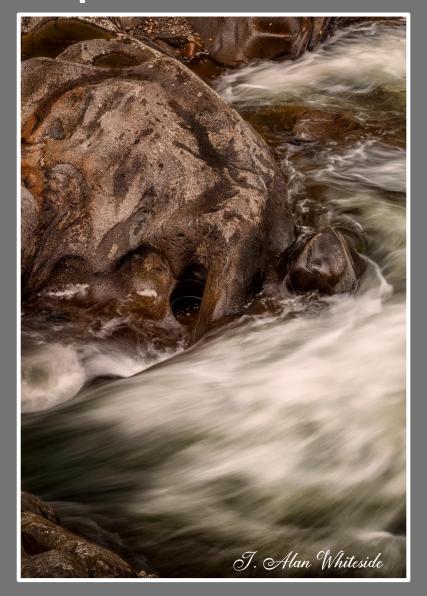
Composition: Anchor Points







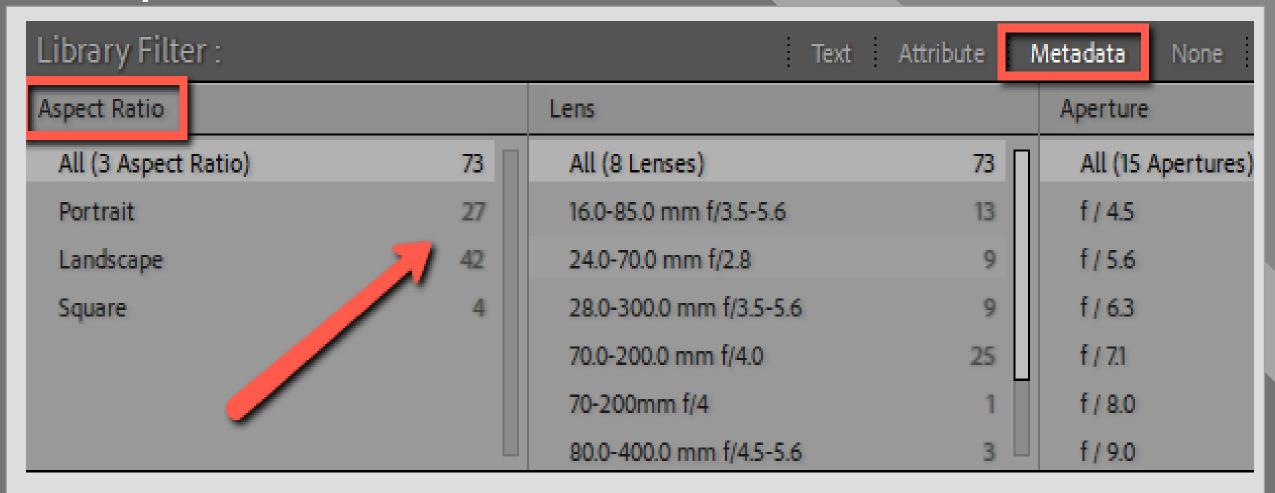
Composition: Camera Orientation







Composition: Camera Orientation





Composition: Field of View







85 mm

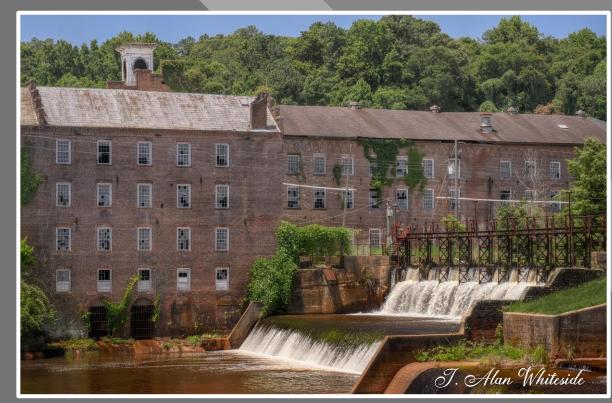
58 mm

250 mm



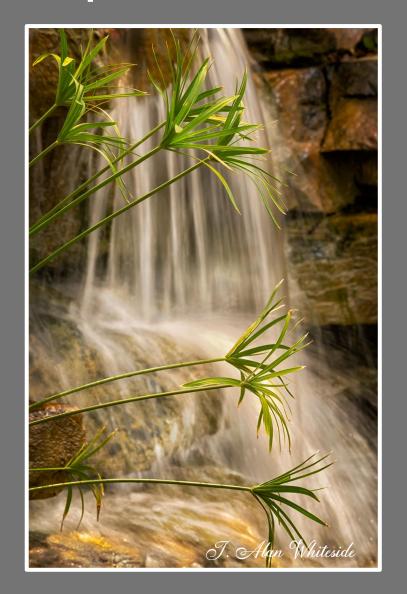
Composition: Prominence and Balance







Composition: Prominence of Water vs. Environment







Composition: Nighttime





Conclusion



Considerations for Photographing Moving Water

- Safety
- Your Intent
- Shutter Speed
- Amount of Movement (flow/volume)
- Aperture (f-stop) and ISO
- Neutral Density Filters
- Direction of Movement
- Depth of Field
- Composition