All About Lenses



Wide Angle Lenses

• Typically wider than 35mm

Most widely used to capture

more of the scene

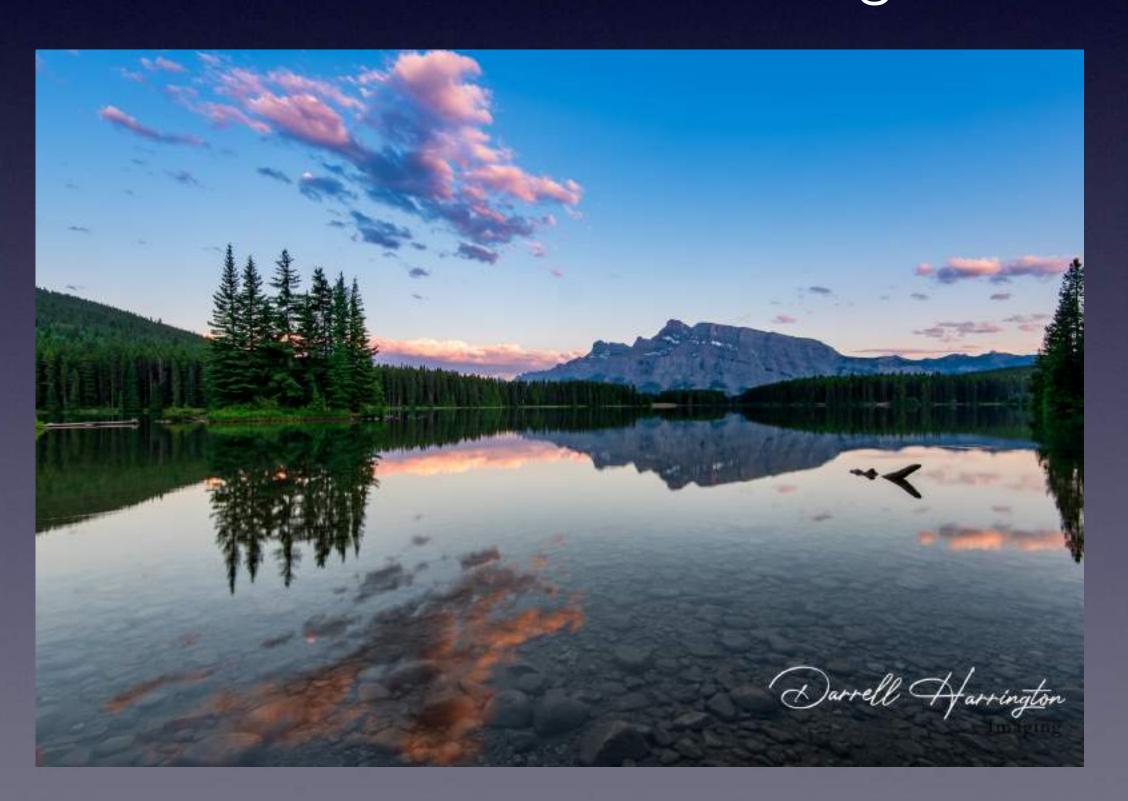


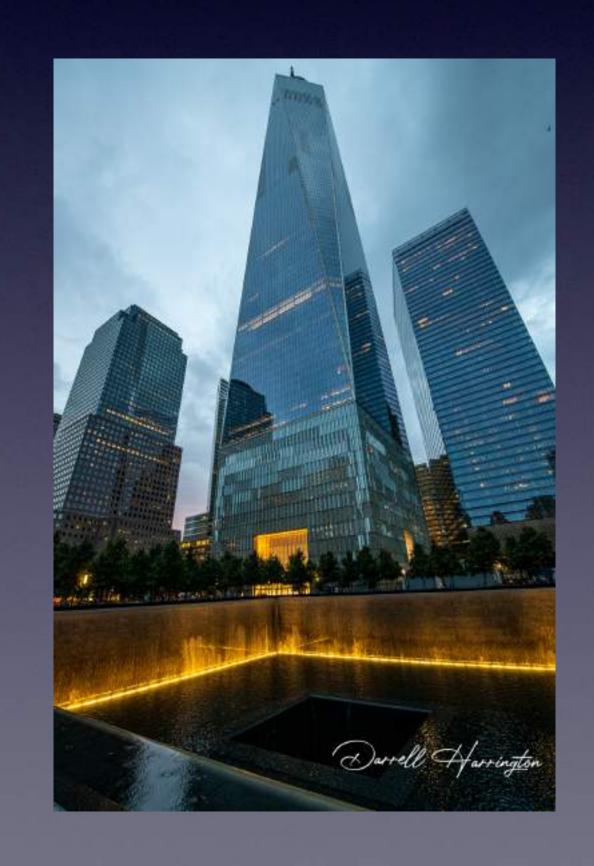
- They also allow you to get closer to your subject? (Not same as Macro)
- When shooting at night, wider lens allow you to shoot with longer shutter duration before stars stop being points (500 rule)





- Can make large objects look really small
- Can cause distortion on the edges





Telephoto Lenses

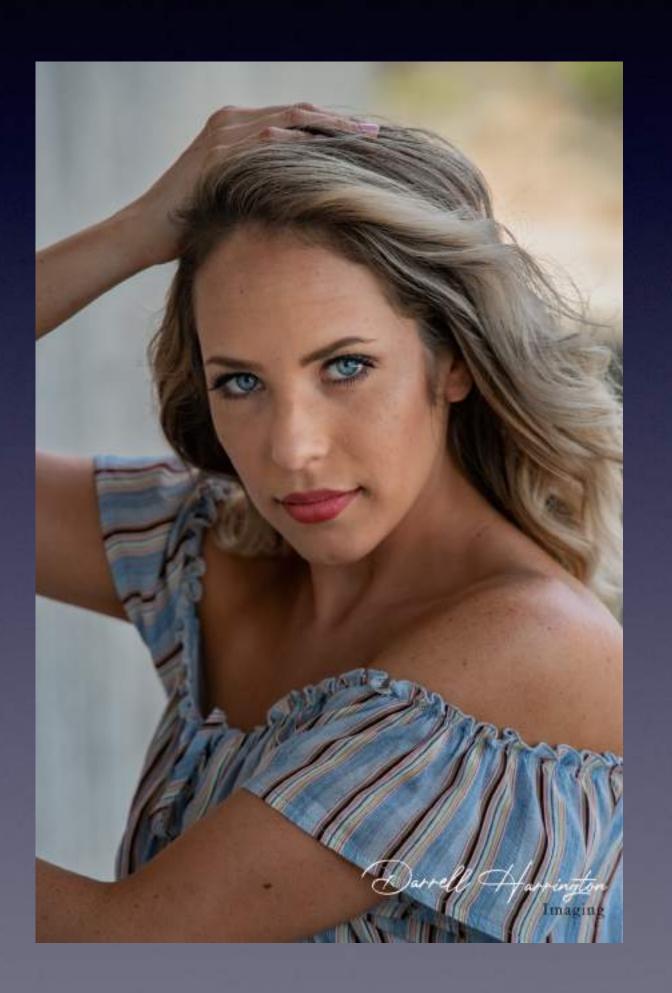
Typically 70mm and longer

Most widely used to get closer to

far away objects

Portait lens





- Can be used to create wide scene high mega pixel panoramas
- They can make objects far from each other look closer (Compression)





About 1 1/2 miles away

- They can be used to blur backgrounds (Bokeh)
- Isolate subject





Specialty Lenses

Tilt - Shift



Distorsion control

Macro/Micro



Macro = 1:1 magnification

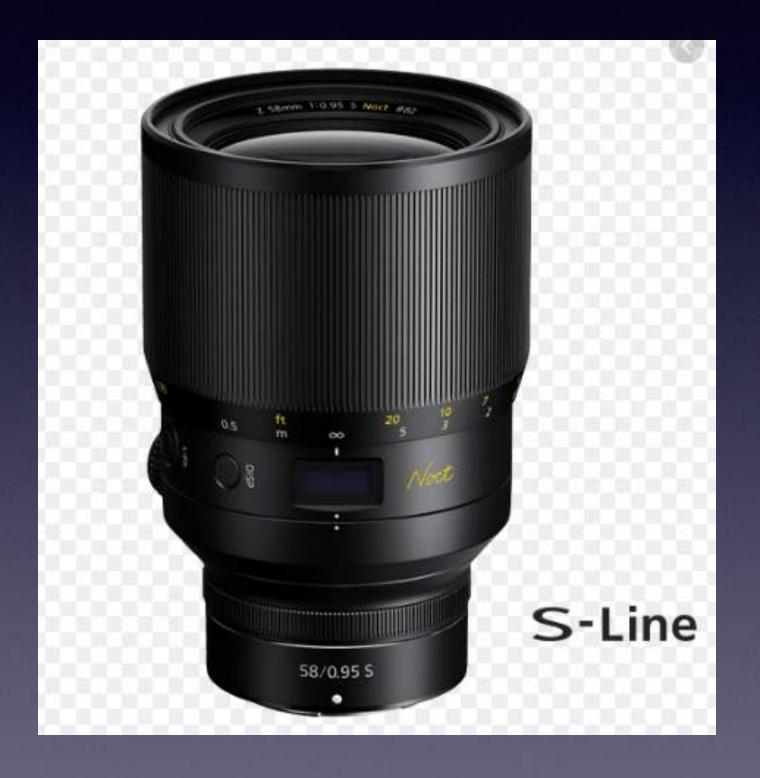
Specialty Lenses

Fisheye



Purposefully distorted

Big aperture glass



Aperture larger than F2.8

Common lens terms

- APS-C, micro 4/3
- Image vibration reduction (VR, IS, OSS, OIS) vs in body
- Prime vs Zoom
- Variable vs fixed aperture
- Holy Trinity
- Lens hood
- Lens foot

"Walk around" lenses

- Typically a larger focal length range (24-300, 18-200, 24-105 etc)
- Often times has variable aperture (ie f4.5-5.6)
- Give up some quality and or speed for range



Sigma 24-105 F4

How do I choose what to take?

- I almost always take my standard zoom (24-70, 24-120)
- "What do I need to bring to get the shot I'm looking for" or something different than what others have taken.
- Do I need a specialty lens?
- How many lenses can I, do I, or should I take?
- Am I traveling or walking a long way to get to destination? (Weight or space a factor?)
- Is weather a factor?
- Do I want to use filters?

Do you need to buy another lens?

- Biggest thing to ask yourself is what shots are you currently not able to get that you want to?
- Are you looking for wider or longer focal length, faster aperture, lighter weight, or better quality?
- Prime vs zoom
- Specialty lens



Questions?