

Photo 101 Making the moon look bigger

https://www.peteralessandriaphotography.com



Photo 101: January 2023 *Is focal length compression real?*

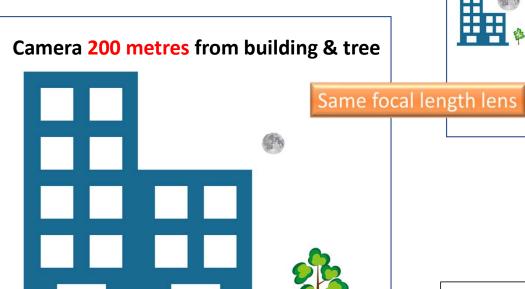
- Compression:
 - making distant objects appear larger compared to close objects





- Caused by moving camera further back
- Just changing to long focal length lens
 - narrows the angle of view
 - does *not* affect the size relationship between near & distant objects
 - does help retain quality of image
 - don't throw away (as many) pixels when cropping in to frame foreground subject

Use compression effect to make moon look big



Camera 1 Km from building & tree

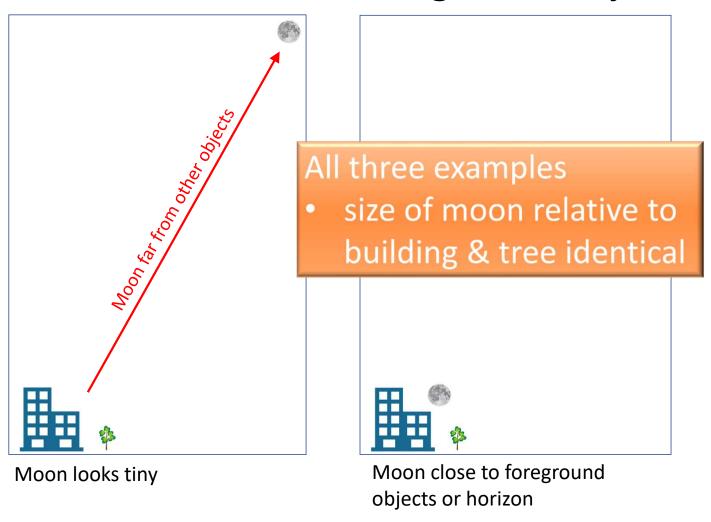
- building & tree appear ¼th the size
 - difference between 200 metres and 1 Km
- moon appears same size
 - insignificant difference between 384,400 Km and 384,401 Km

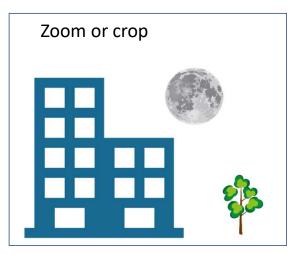
Zoom in or crop (change the angle of view)

When you want a distant object to appear larger compared to a foreground object, increase the distance to the foreground object



Moon closer to foreground objects





Moon looks larger because it's placed close to other objects of familiar sizes

Harvest moon appears large

- moon is full
- moonrise soon after sunset
 - closer to horizon

Super Moon?



The average size of the Full Moon is to a 15" pizza what the Super Moon is to a 16" pizza

- Neil deGrasse Tyson

Peter Alessandria famous for using distance to create stunning images



Planning your photos to position celestial objects

- Use an app or website to plan
 - PhotoPills (Android and iOS)
 - https://www.photopills.com



- Photo Ephemeris (web and iOS)
 - https://photoephemeris.com



- Sun Surveyor (Android and iOS)
 - https://www.sunsurveyor.com







Victor @vuitor Capture of Paris Henge under the Arc de Triomphe, in sunrise Part of Photopills Awards 2022 Legacy

https://static.photopills.com/awards/2022-pl

How is an image like this possible?

...without Photoshopping the sun

PhotoPills can help you plan it

date & time to get the angle right

• **distance** you must be from the Arc de Triomphe

to get the sun the right size to fit in the arch



https://www.photopills.com/videos/plan-9-sun-and-moon-10m-inside-arc-triomphe-paris-france