

# A n g l e o f V i e w

“To me, photography is an art of observation. It’s about finding something interesting in an ordinary place... I’ve found it has little to do with the things you see and everything to do with the way you see them.”

— *Elliott Erwitt*

# A n g l e o f V i e w



*wide angle lens*

Selecting your lens focal length when creating an image is an aesthetic personal choice.

The Classroom Collection

# A n g l e o f V i e w



*wide angle lens*

Lens choice goes beyond just framing your image.

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# A n g l e o f V i e w



*telephoto lens*

The lens selected will impart characteristics specific to the lens's angle of view.

# A n g l e o f V i e w



*normal lens*

A normal focal length lens captures an angle of view that approximates the impression of human vision. A normal lens captures approximately a  $50^\circ$  angle of view.

# A n g l e o f V i e w



*Wide Angle (shorter focal length)*



*Normal*



*Telephoto (longer focal length)*

Lenses are categorized based upon their angle of view and fall into three basic categories.

**Normal** - captures approximately a  $50^\circ$  angle of view.

**Wide angle** - shorter focal length lenses that capture an angle of view greater than  $50^\circ$ .

**Telephoto** - longer focal length lenses capture an angle of view less than  $50^\circ$ .

# A n g l e o f V i e w



Your camera's sensor size determines what the normal focal length for that camera will be. The normal focal length will correspond to the measurement across the diagonal of your sensor.

**Full Frame Sensor** (24x36mm sensor size) **Normal lens range 40-55mm**

**APS-C Crop Sensor** (20.7x13.8 mm to 28.7x19.1 mm sensor size) **Normal lens range 28-30mm**

# Angle of View



*telephoto lens*

Longer lenses are very useful when you don't want to get close to your subject.



# A n g l e o f V i e w



*telephoto lens*

Longer lenses because of their limited angle of view help with isolating your subject.

# Angle of View



*telephoto lens*

Longer telephoto lenses can appear to visually flatten a scene.

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# A n g l e o f V i e w



*telephoto lens*

Longer lenses are very useful for increasing your subject magnification and bringing distant objects closer.

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# A n g l e o f V i e w



*telephoto lens*

Longer lenses can make the distance between objects appear visually compressed.

# A n g l e o f V i e w



*telephoto lens*



*wide angle lens*

Because a telephoto lens captures a narrow angle of view objects in the background will not appear as small or as far away as with a wide angle lens.

# A n g l e o f V i e w



*wide angle lens*

Wider angle lenses show more of the scene from the same position as a normal lens.

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# A n g l e o f V i e w



*wide angle lens*

Wider angle lenses can decrease subject magnification and can be used to deemphasize the subject size.

# A n g l e o f V i e w



*wide angle lens*

Wider angle lenses can exaggerate depth, distances, and relative sizes within the image .



# A n g l e o f V i e w



*wide angle lens*

Wider angle lenses can be used to create a visual distortion of perspective.

# A n g l e o f V i e w



*wide angle lens*

Wider angle lenses when pointed above the horizon can cause parallel vertical lines to appear that they converge.

# Angle of View



17 mm

20 mm

24 mm

28 mm

35 mm



50 mm

70 mm

100 mm

135 mm

200 mm

*Normal Lens*

Angle of view / Focal Length. Photographed with a Full Frame Camera.

# Angle of View



*wide angle lens*

# A n g l e o f V i e w



*wide angle lens*

Wide angle lenses can be used to emphasize the size and visual weight of objects in the foreground.

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*wide angle lens*

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# A n g l e o f V i e w

## Review – Angle of View

**Normal Lens** Approximates angle of view of human vision  $\approx 50^\circ$

**Wide Angle Lens** See greater angle of view than normal lens

**Telephoto Lens** See narrower angle of view than normal lens

# A n g l e o f V i e w

## Vocabulary Study Words

Focal length

Normal lens

Wide angle lens

Telephoto lens

Full Frame sensor

APS-C sensor

Perspective

# A n g l e o f V i e w



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