

Aperture & Depth of Field



Thursday, November 1, 12



f/stop

Thursday, November 1, 12



- f/stop
- focused distance

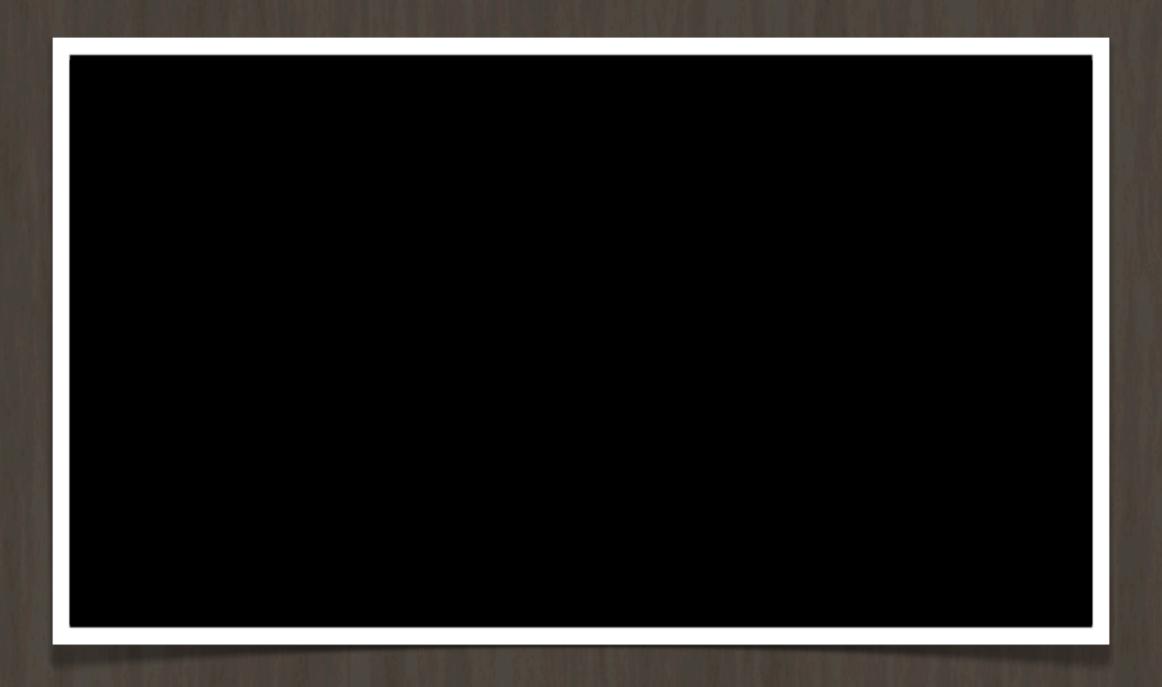
Thursday, November 1, 12



- f/stop
- focused distance
- focal length

Thursday, November 1, 12







1. f/stop

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Small/ Narrow apertures (higher f/numbers, such as f/11) increase the depth of field

Large/ Wide apertures (lower f/numbers, such as f/2.8 or f/3.5) decrease the depth of field.

So, if you want to background to be out of focus, try using a large aperture, try using a large aperture like f/2.8 or f/4.

If you want to maintain sharpness throughout your image, from foreground to background, use a small aperture like f/11 or f/16.



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Aperture - F-Stop



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f2.8 f4 f5.6 f8 f11 f16 f22



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Amount of light



The your place the camera from the focused subject, the the depth of field you will have in your image.



The farther your place the camera from the focused subject, the the depth of field you will have in your image.



The farther your place the camera from the focused subject, the deeper the depth of field you will have in your image.



The farther your place the camera from the focused subject, the deeper the depth of field you will have in your image.

The *closer* you place the camera to the focused subject, the depth of field becomes.

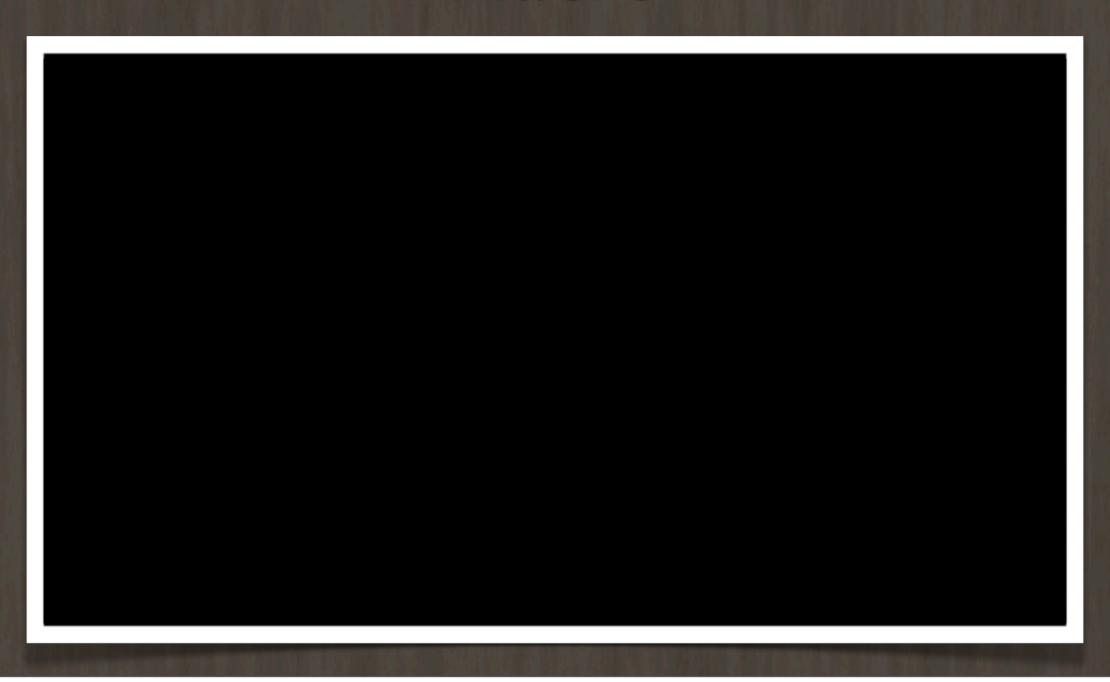


The farther your place the camera from the focused subject, the deeper the depth of field you will have in your image.

The *closer* you place the camera to the focused subject, the *shallower* the depth of field becomes.



Shallow Depth-of-Field Macro







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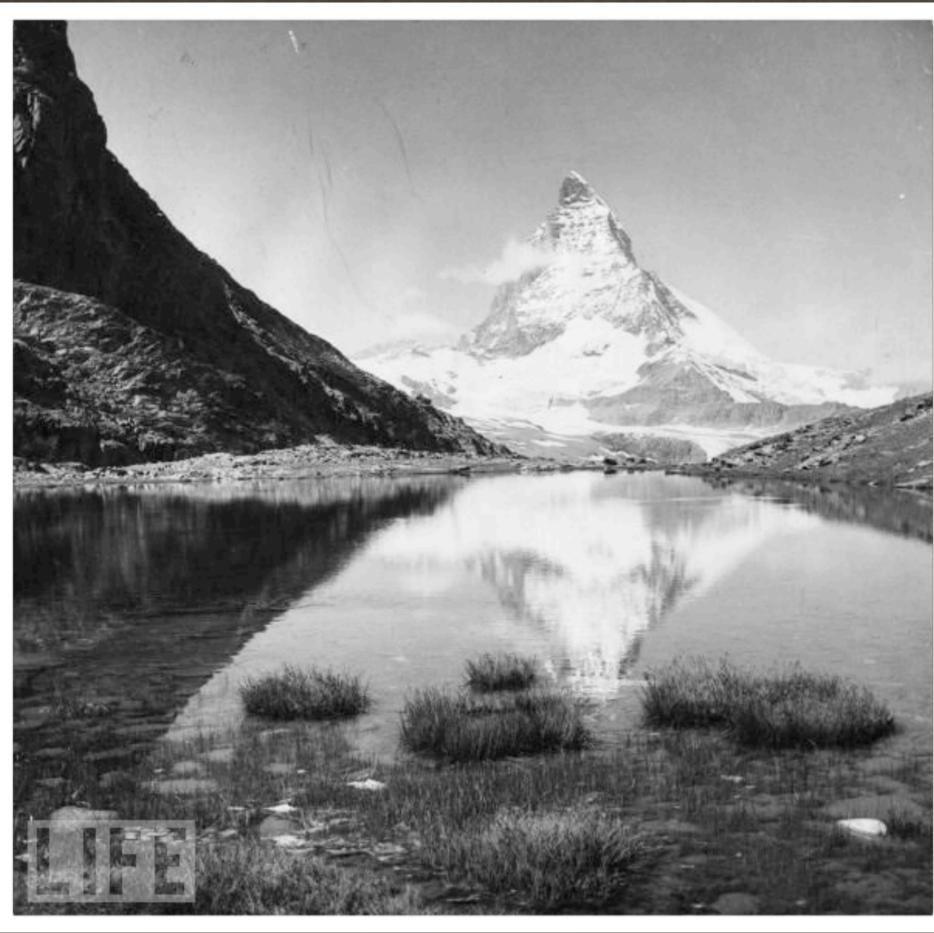


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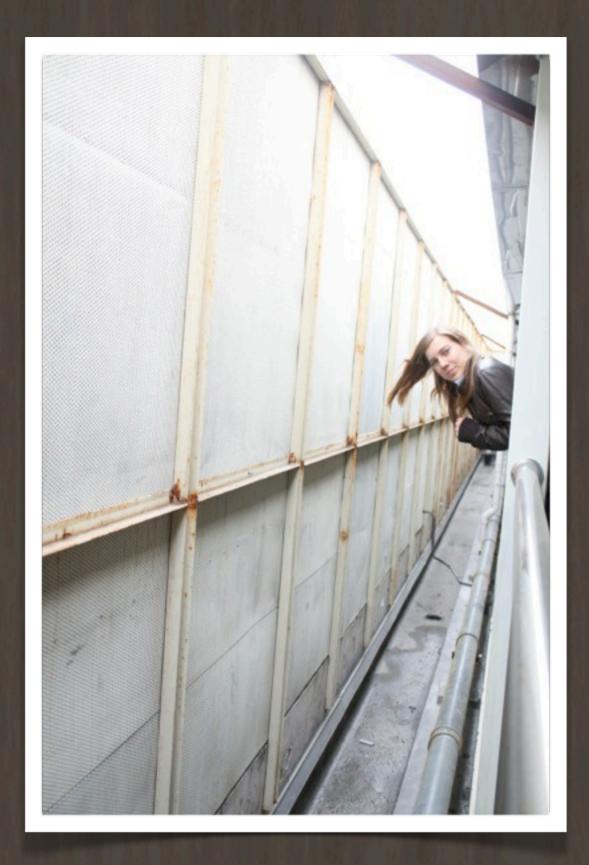
Deep Depth-of-Field





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depth of field

depth of field

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Wide-angled lengths give deeper apparent depth of field, while telephoto lengths create a shallow depth of field,

creating a background which is out of focus.

When you need to have a scene appear sharp from foreground to background, use the smaller focal lengths on your zoom or change to a wide-angle lens.



Wide-angled = depth of field

depth of field

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Wide-angled = deeper depth of field
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telephoto = depth of field

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Wide-angled = deeper depth of field

telephoto = shallow depth of field

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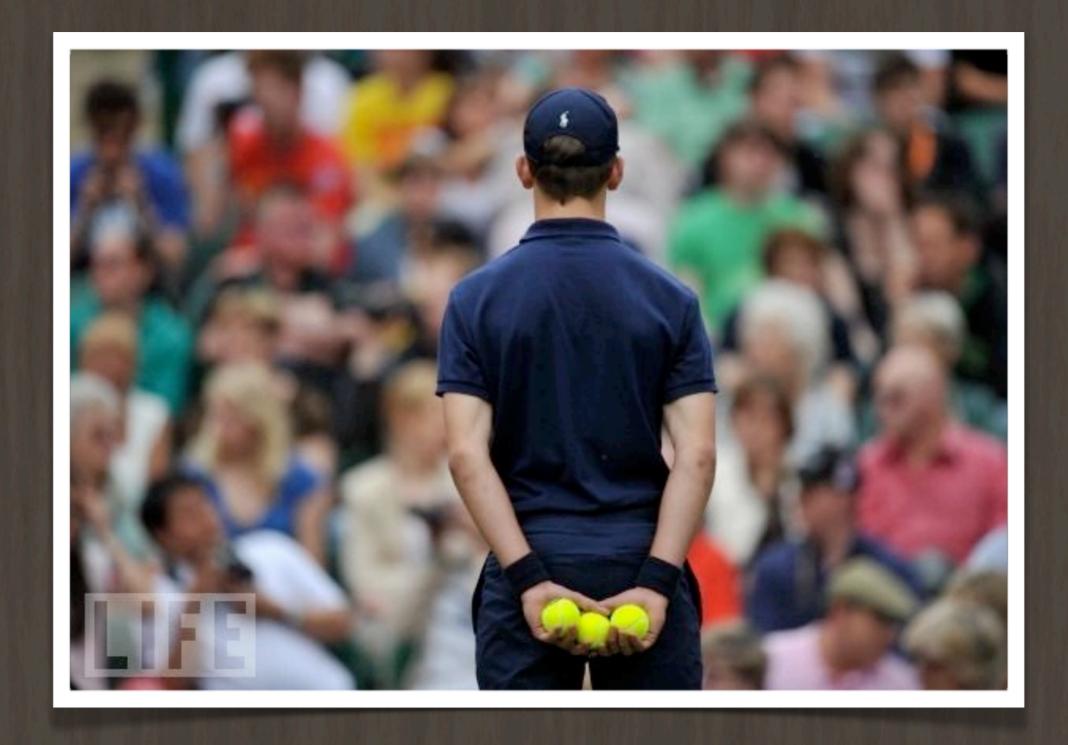


Shallow Depth-of-Field













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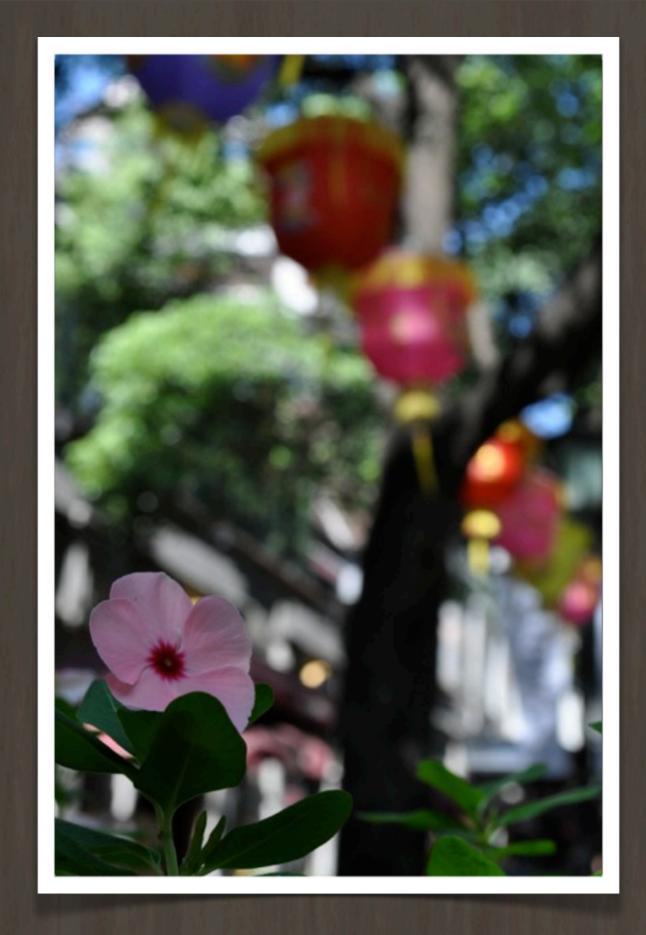
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Boring!





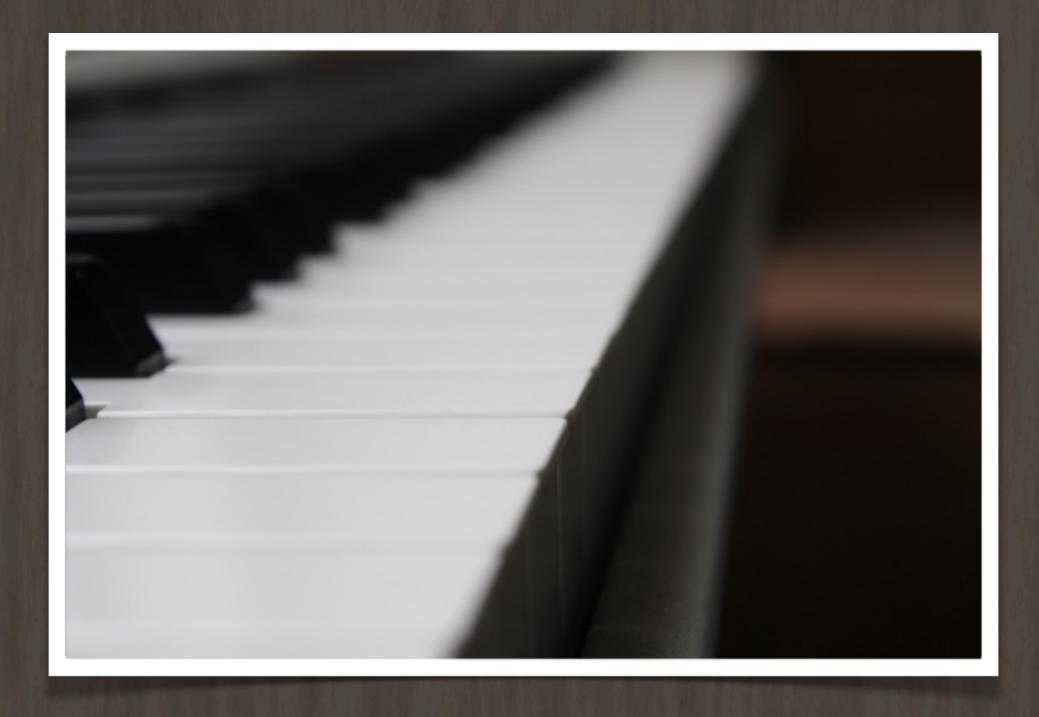
good





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Why use a deep depth of field?



Why use a deep depth of field?

For photographing landscapes and skylines.



Why use a shallow depth of field?



Why use a shallow depth of field?

It draws interest to your subject.