## LAB 4 **DEPTH OF FIELD**

Grab your camera and put the battery on charge! Make your folder under Lab 4 in google drive

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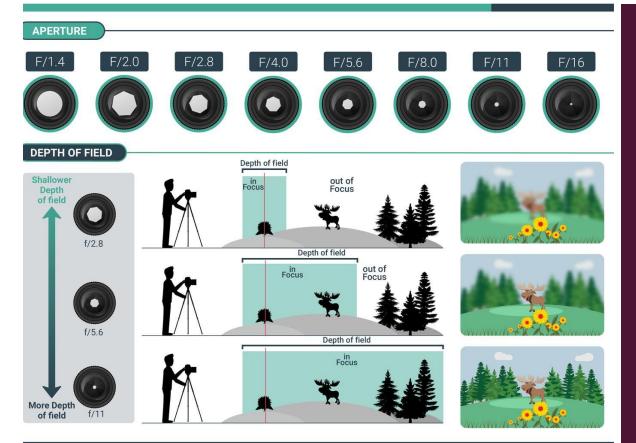
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# WHAT IS DEPTH OF FIELD?

The range of picture staying in focus



Wide aperture: focused in front.



FIGURE 2.30

Wide aperture: focused at the rear.

## **Aperture and DOF**



#### FIGURE 2.31

Small aperture: entire range in focus.

Photos from Crime Scene Photography by Edward (Ted) Robinson



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### MAKEA GUESS!

CSI investigators use a high FStop, fI I or higher. This shrinks the aperture and creates a larger depth of field. Why do CSI investigators do this?

Think about if your taking a picture through a fence. What would you do in that case?

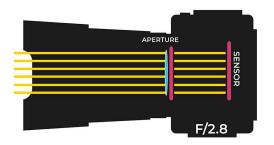
Cardinal RULE - <u>Maximize your depth of</u> field.

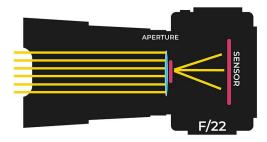


Picture courtesy: Megan Kughen

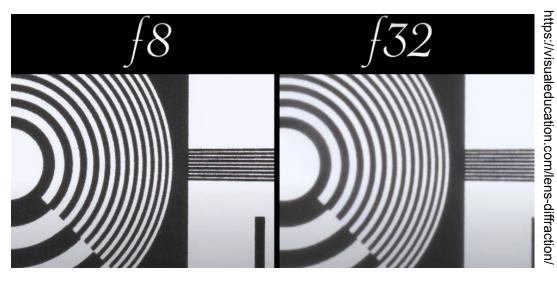
### MAKE A GUESS!

Forensic Photographers use high f stop, fl I or higher but why don't they use the highest?

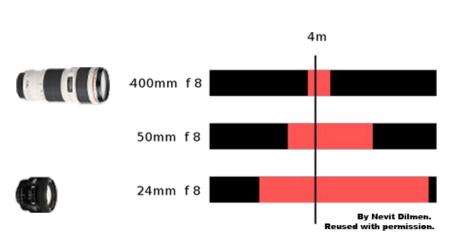




### **Diffraction**



### DEPTH OF FIELD CHANGES WITH FOCAL LENGTH



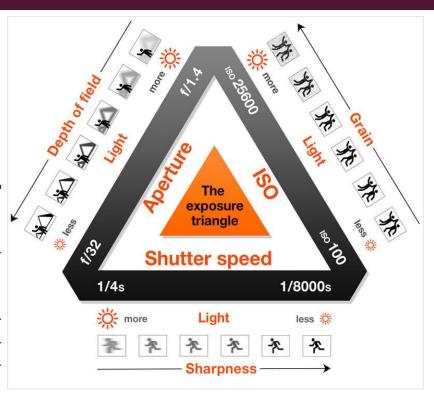
https://chattanoogaphoto.org/the-artistic-uses-of-depth-of-field-controls/





Focal length: 300mm

### DON'T FORGET THE EXPOSURE TRIANGLE!



- Setting up a higher f stop might decrease the brightness of your image.
- To fix this, set up your shutter speed accordingly for a poorly dim environment
- If you need to lower your shutter speed -PUT IT ON A TRIPOD

https://petapixel.com/exposure-triangle/

### TODAY'S LAB

Set up a small mock crime scene with a few pieces of evidence (large and small) and randomly dispersed across the scene so that the recording of the scene in photographs offers a challenge to the photographer. Think about evidence placement and DOF.

		Example  PHOTOGRAPHY LOG  PAGE L OF 2  MON MANUAL M								
		Agency Nam	Sunshine Forensics	Incident# FIVS 210 - 1234						takes
		Date 02	2-19-2025	Photographer Shaifer Croalen						it!!
Focal length # Shown in camera		Location HEEP 205, 370 01520 Drive College Station, TX 77843 Incident Type: Death Investigation Camon Rabel T5  Film Type: Toggistal Film Speed: Rolls  Rolls  Rolls								
1500.	۷	Exposure Number	Description	150	Lens	Flash	F/Stop	Shutter	Remarks	
# Shown		0001	Scene identifier	1600	55	_	F/11	1100	Dork	
IN Camera		0002	Overall	3200	18		F/22	1/60	Bright	means
		0003	Mid-range	400	35		F/16	1/250		It was
		0004	CLOSC-UP	800	55		F/4.0	1/15	Bright	perfect pocomment
										1/10 Co.
					_					

Submit two photos to your Digital Portfolio!

Remember to name them Lab #4-Photo I
Lab #4-Photo 2

Submit **ALL** photos to Google Drive under Lab 4 Folder!

Don't forget photo log