

Key Learnings #5 – Unit 2 – Exposure

Depth-of-Field REDUX

Achieving a shallow depth-of-field: In order to isolate your subject from its distracting surroundings by reducing the area that remains in focus, there are three things you can do. *These are particularly important for point-and-shoot cameras since, because they have tiny sensors, they usually favor very deep depth-of-field:*

1. Use the **LARGEST** possible **APERTURE**, given the correct Shutter Speed and ISO
2. Move **CLOSER** to your subject
3. **ZOOM IN** and use a **LONGER FOCAL LENGTH LENS**

This technique is known as **Selective Focus**, and is typically used for close-ups, portraits, and other special effects used for creative purposes.











Achieving a deep depth-of-field: To maximize the area that remains in focus, there are three things you can do:

1. Use the **SMALLEST** possible **APERTURE**, given the correct Shutter Speed and ISO speed
2. Move **FURTHER AWAY** from your subject
3. **ZOOM OUT** and use a **SHORTER FOCAL LENGTH LENS**

This technique is typically used for landscapes or if you otherwise want everything from foreground to background in focus.

Camera Shooting Modes

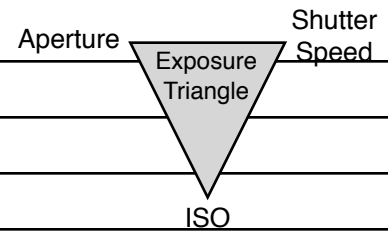
These special shooting modes are particularly useful if you own a point-and-shoot camera, as it most likely does not give you the capability to select specific apertures and/or shutter speeds in order to be more creative with your photography. Explore these modes, but be sure to check your camera owner's manual for all the specifics.

Common Camera Modes:	
Icons	Description
	Movie/Video In movie mode, Digital cameras can capture live streaming video.
	Macro/Close-Up this mode used for taking close-up pictures.
	Party/Night longer exposures to capture darker scenes. Usually used with flash, and some nice motion effects can be created.
	Portrait To attempt to blur out the background, camera will try to use the fastest available lens setting (aperture).
	Landscape camera will attempt capture detail in foreground and background by using high f-stop (aperture) settings.
	Sports To freeze motion, camera will use the highest shutter speed possible.
	Stitch For creating multi-shot panoramas, this mode will help to combine several shots into one wide scene. Good fun.
	Aperture Priority Photographer sets the aperture (f-stop) and the camera will attempt to deliver a good exposure. Some cameras use an "A" icon instead of "Av".
	Shutter Priority Photographer sets the shutter, and the camera will attempt to deliver a good exposure. Some cameras use an "S" icon instead of "Tv".
	Manual Full manual mode, the photographer must set both the shutter and the aperture. mode.

Your camera may have some, all, or more of these typical modes. Names and icons may vary.

- ← Camera will set largest aperture possible to minimize depth-of-field. May also increase saturation.
- ← Also known as Slow-Sync Flash. Flash fires and shutter stays open to allow for exposure of ambient light.
- ← Camera will set largest aperture possible to minimize depth-of-field. May also decrease saturation. Best with long lens.
- ← Camera will set smallest aperture possible to maximize depth-of-field. Flash will not fire. Best with short focal length lenses.
- ← Camera will set fastest shutter speed possible to "freeze" the action. Drive set to continuous shooting. Autofocus set to keep moving subject in focus. Best when used with long lens.
- ← Be sure to read your manual if your camera offers this.
- ← On more advanced cameras and d-SLRs. Aperture Priority used most by professional photographers.
- ← On more advanced cameras and d-SLRs. Shutter Speed Priority used most to capture motion/speed. Used by sports photographers.
- ← Want to really learn the nuances of exposure? If you have a d-SLR, try the Manual Mode. You work with the light meter to get your perfect, creative exposure.

NOTES



A Great Photograph ...

- Has a central theme or idea.
- Focuses attention to a single point-of-interest
- Simplifies

You may have others, like Snow/Beach, Fireworks, Underwater, and more