

Introduction to Digital SLR Photography

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(Nikon)

Goals

- Find a good scene
- Choose the proper exposure
- Focus on your scene/subject

Work Flow

- Prep
- Shoot
- Process
- Sort/File
- Edit
- Show/Share

Composition

- Subject – Distance, composition, angle
- Background
- Light – Back/ side/ front
- 3 X 3 Rule
- Subject not usually in center, except portrait
- Avoid wires through peoples heads

Exposure Controls

- ISO
- Shutter speed
- Aperture
- Lens shake and VR
- Depth of field
- Flash
- AF Options
- Diopter

ISO/Shutter speed/Aperture

ISO

Shutter speed

Aperture

Full Stop: 1/1000, 1/500, 1/250, 1/125, 1/60

Full Stop: 1.4, 2.0, 2.8, 4.0, 5.6, 8.0, 11.0, 22.0

SS 1/200 or more—Sharp, Less than 1/200—Blur

Lens-300mm-1/300, 70mm-1/70, 18mm-1/18

Exposure Modes

- Aperture Priority – Set aperture, camera sets speed
- Shutter Priority – Set shutter speed, camera sets aperture
- Program – Point and shoot
- Manual – You set both of above + ISO, WB
 - Sunny 16 – Set ap at 16 and speed at 1/ISO
 - Take a shot, check, reset as needed.
 - Black cloth for bright days.

Auto Programs

- Portrait
- Distance
- Macro
- Sport
- Custom

Other Stuff

- Depth of field
 - Higher f = Greater
 - Wide angle = Greater
 - Telephoto = Less
 - f4.0 = Low depth of field
 - f22 = High depth of field
 - f105 = Good for portrait
- Flash
 - +/- 3
 - Use for fill or off

More Other

- Focus: Manual or Auto depends on situation
- Diopter: Focus on center-wheel by view finder
- Set picture control: Standard, Neutral, Vivid, Black and white
- Clean sensor: Lock-up mirror, Blow with bulb blower, Upside down
- Clean lenses, near end and far end with micro fiber cloth.

Digital Basics

- Camera Sensors
- Megapixels – Purpose of picture
- Processing for color, tone, sharpening, noise
 - JPEG (Joint Photo. Experts Group) Makes adjustments
 - TIFF (not offered much anymore)
 - RAW (NEF – Nikon word) Gets all the data
- Photo shop Elements 7.0 – iPhoto 7.0
- Edit for tone, color, size, correction.

Metering

- White balance/Exposure
 - Sun, Shade, Clouds, Inc. bulb, Fluor bulb, Flash, Macro -
 - Exposure - + or – up to 3 stops – Better to under expose
 - Histogram shows color/light distribution. Blinking high lights or hot spots.

More other

- Picture Cards
 - Ultra, Extreme III, Extreme IV, other
 - Always use a card reader
 - Do not erase in computer
 - Erase in camera – Do NOT format