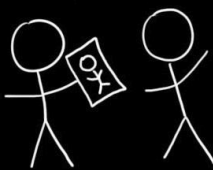


"Sometimes when I take a photo, it looks grainy."

"WHY?"



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### Digital Noise and how to fight it!

- Digital noise is the **POLKA-DOT EFFECT** in images with long exposures or images shot at high **ISO settings** in low-light situations.
- What is an ISO setting?

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### ISO Settings

- International Standards Organization (ISO)
  - a benchmark rating of the relative sensitivity of film
- Higher ISO # = sensor MORE sensitive to light
- Lower ISO # = sensor LESS sensitive to light
- A TYPICAL ISO range is from:
  - 100 - 200 - 400 - 800 - 1600 - 3200

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### Recommended ISO's

- Sunny: 100-400
- Cloudy: 200-400
- Indoors: 400-800
- Low Light Indoors: 800-1600

These are just starting points that you can adjust from.

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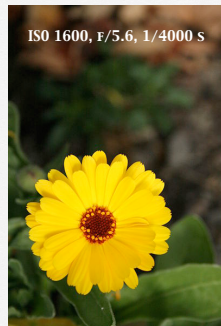
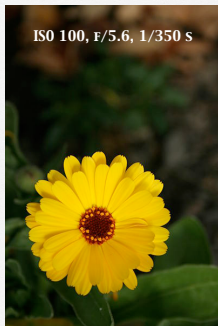
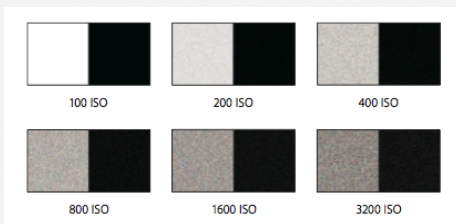
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## Problem

- The higher the ISO settings, the more DIGITAL NOISE a picture may have



*Let's see some examples*



ISO 100, F/5.6, 1/350 s

LESS "NOISE"

MORE "NOISE"

ISO 1600, F/5.6, 1/4000 s

## So, how does ISO affect the shutter speed?

- The more sensitive the sensor is to light, the faster the shutter speed can be set.
- If your camera does not allow you to adjust shutter speed independently, you can usually manipulate it with ISO settings.
- Try it out!



ISO Adjustments are available under the Function/SET button