

Lab 2: *Shutter speed*

Grab your Camera! Make sure to charge your battery!

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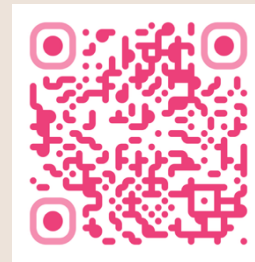
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Understand the basic of shutter speed

Shutter speed determines the **duration of light exposure** on the sensor



<https://www.cartoonize.net/aperture-and-shutter-speed-chart/>

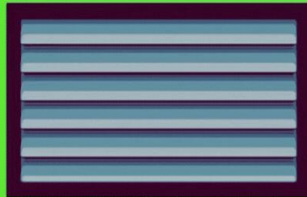
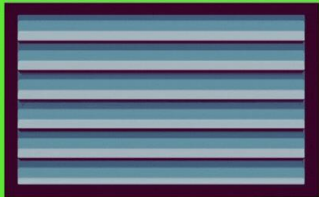
<https://giphy.com/explore/slow-motion-camera-shutter>

<https://www.wikihow.com/Choose-a-Camera-Shutter-Speed>

2500FPS
100X SLOWER

30"

1/8000



SHUTTER SPEED

MOTION



1"

1/2 sec

1/4 sec

1/8 sec

1/15 sec

1/30 sec

1/60 sec

1/125 sec

1/250 sec

1/500 sec

1/1000 sec

SLOW SHUTTER SPEED

FAST SHUTTER SPEED

LIGHT



MORE LIGHT

LESS LIGHT

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<https://visualeducation.com/shutter-speed-explained/>

What can you do with shutter speed?

Motion blurr



Brightness



Keep playing with camera, understand shutter speed!

Shutter Speed:

```
graph LR; A[Shutter Speed:] --- B[1/Focal Length (when on a tripod)]; A --- C[1/60 when hand holding the camera]
```

**1/Focal Length
(when on a tripod)**

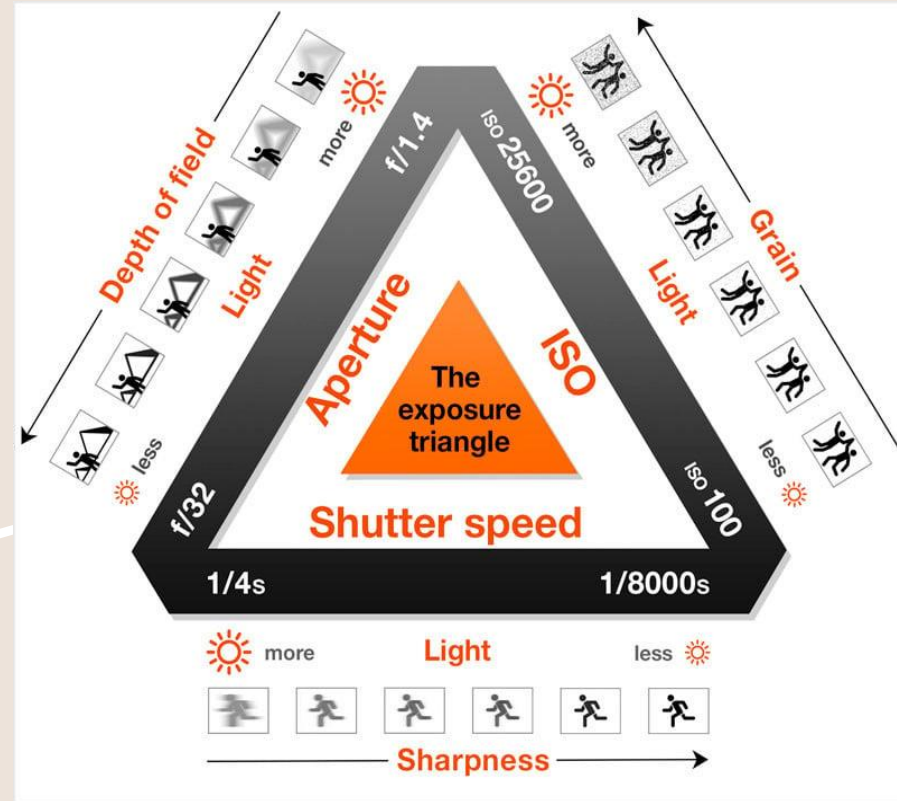
**1/60 when hand
holding the camera**

Stops of Light

You will hear this term in Forensic Photography as well as Photography in general.

To obtain one stop of light:

1. You can half your shutter speed denominator OR
2. divide your f stop by 1.4 OR
3. double your ISO



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

Spot the difference!

Poor lighting

Shutter speed: 1/60

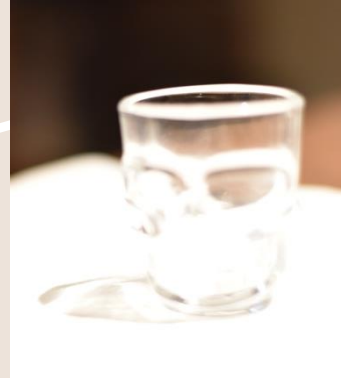


Shutter speed: 1/1000



Better lighting

Shutter speed: 1/60



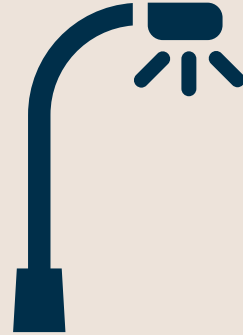
Shutter speed: 1/1000



Exercise!



Take pictures in and around Heep practicing changing shutter speed/fstop keeping in mind ISO from last lab!



Go to areas of diverse lighting and change the shutter speed to get the best quality photo!

Tips:

- No feet or other people in your pictures
- Ensure the ENTIRE picture is in focus
- No hands or objects blocking the camera lens
- Ensure the lighting is not over or under exposed

All photos will get
submitted under
your group folder
for Lab #2

Google Drive → Lab #2 Folder → Create
a Folder with YOUR name → Download
ALL photos

Digital Portfolio

**Each week you will
submit your 2 best
photos!**

You will RENAME the file to the name of the lab and photo number

For this lab:

Lab #2-Photo 1

Lab #2- Photo 2

Lab Worksheet (Post Lab
Questions) due next week on
Canvas!