

# Shutter Speed

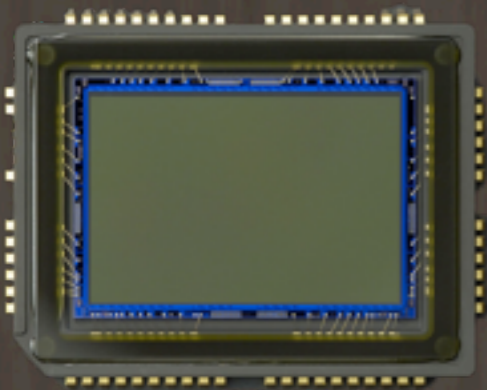
# EXPOSURE



1. The *size of the lens opening* (aperture)



2. The *length of time* that the image sensor receives light (shutter speed)



3. The *light sensitivity of your image sensor* (ISO).



# EXPOSURE

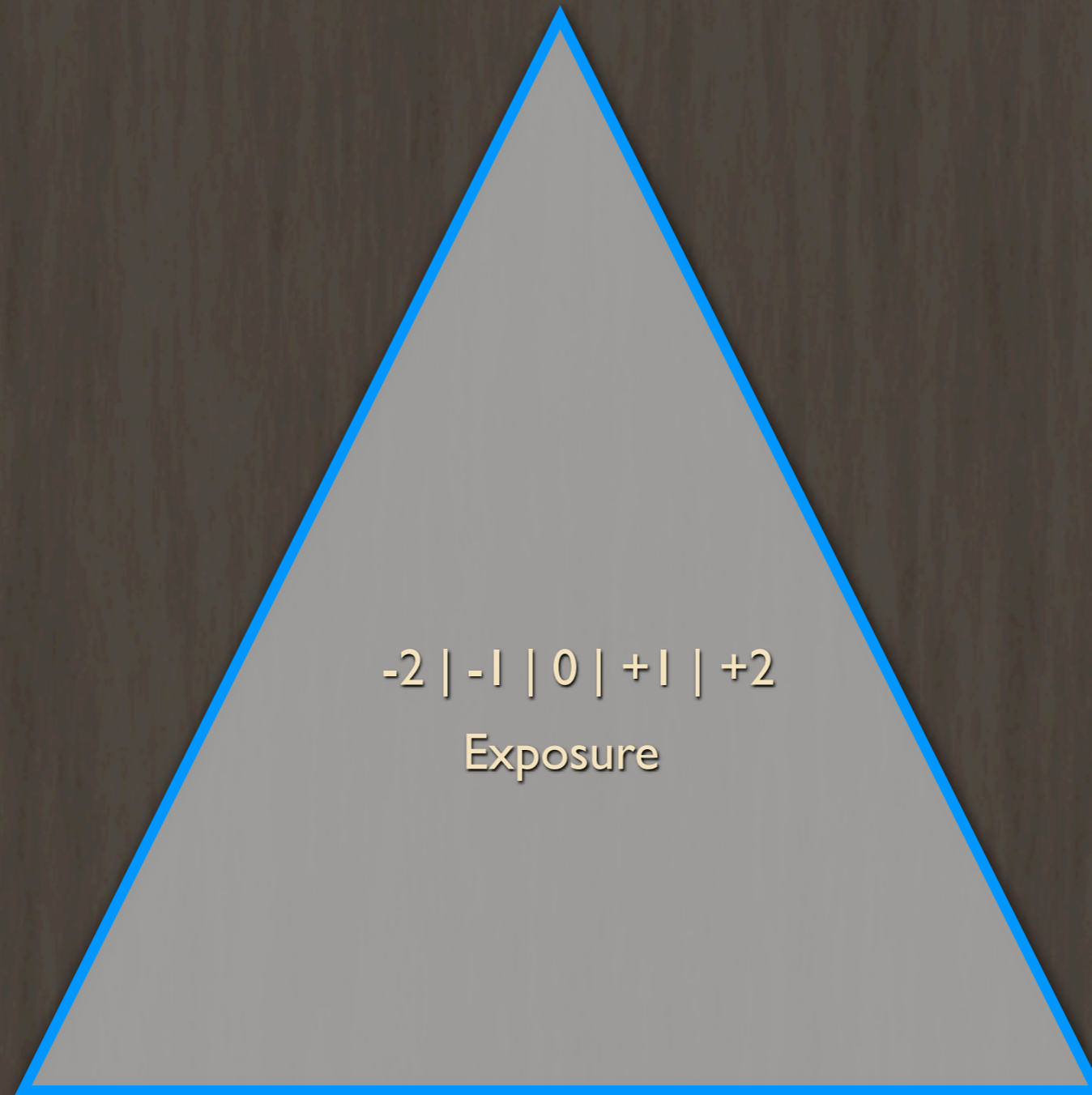


2. The *length of time* that the image sensor receives light (*shutter speed*)

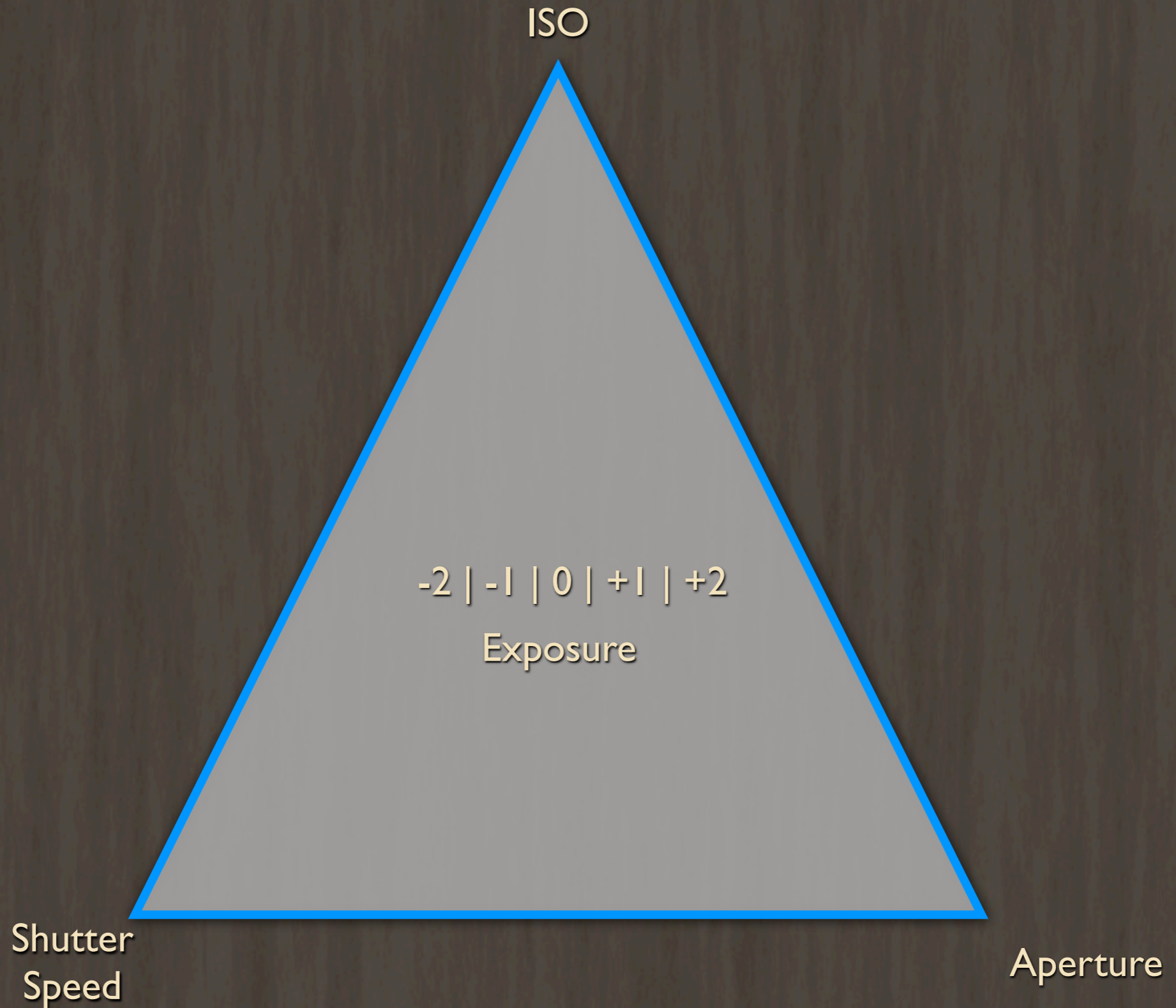
# EXPOSURE TRIANGLE



# EXPOSURE TRIANGLE

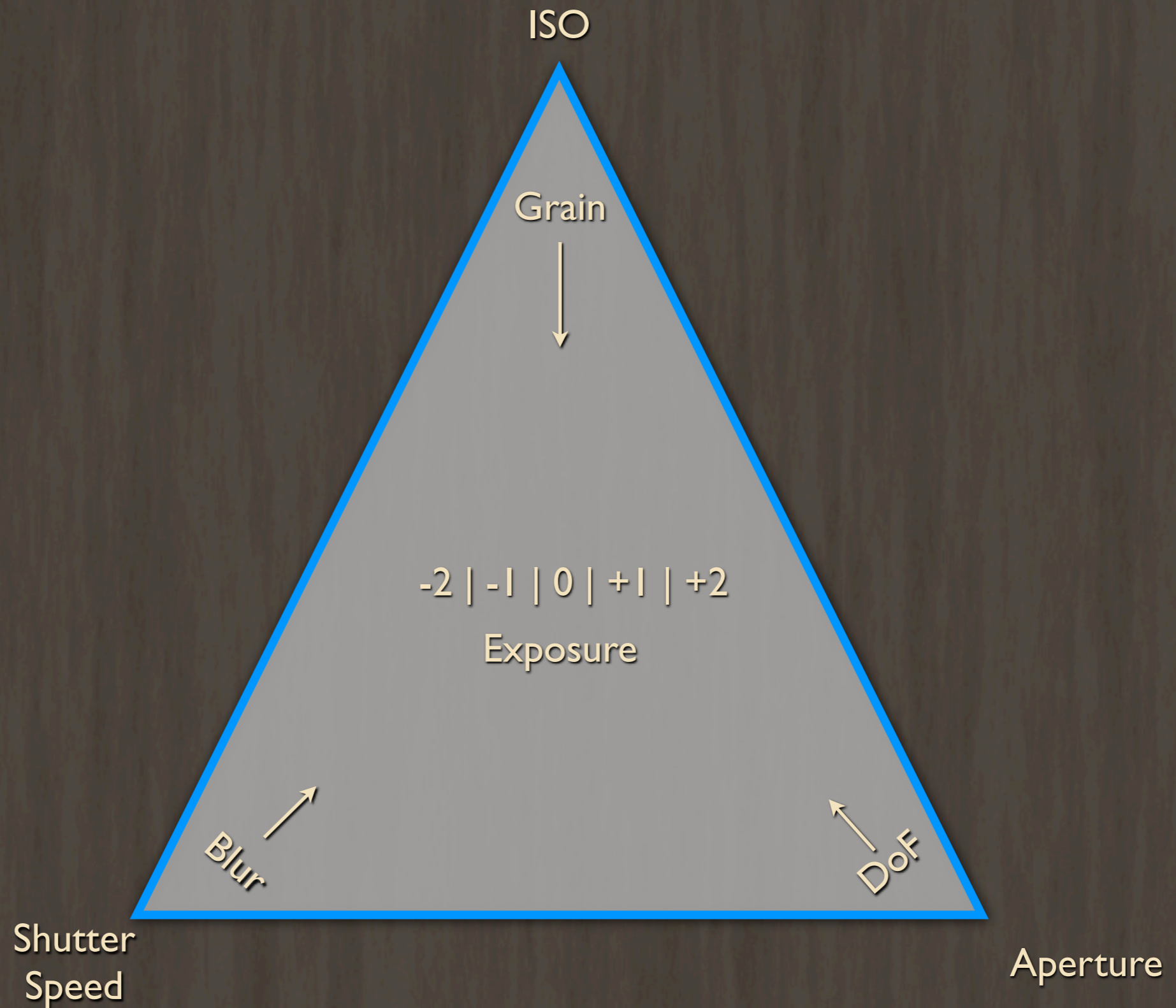


# EXPOSURE TRIANGLE

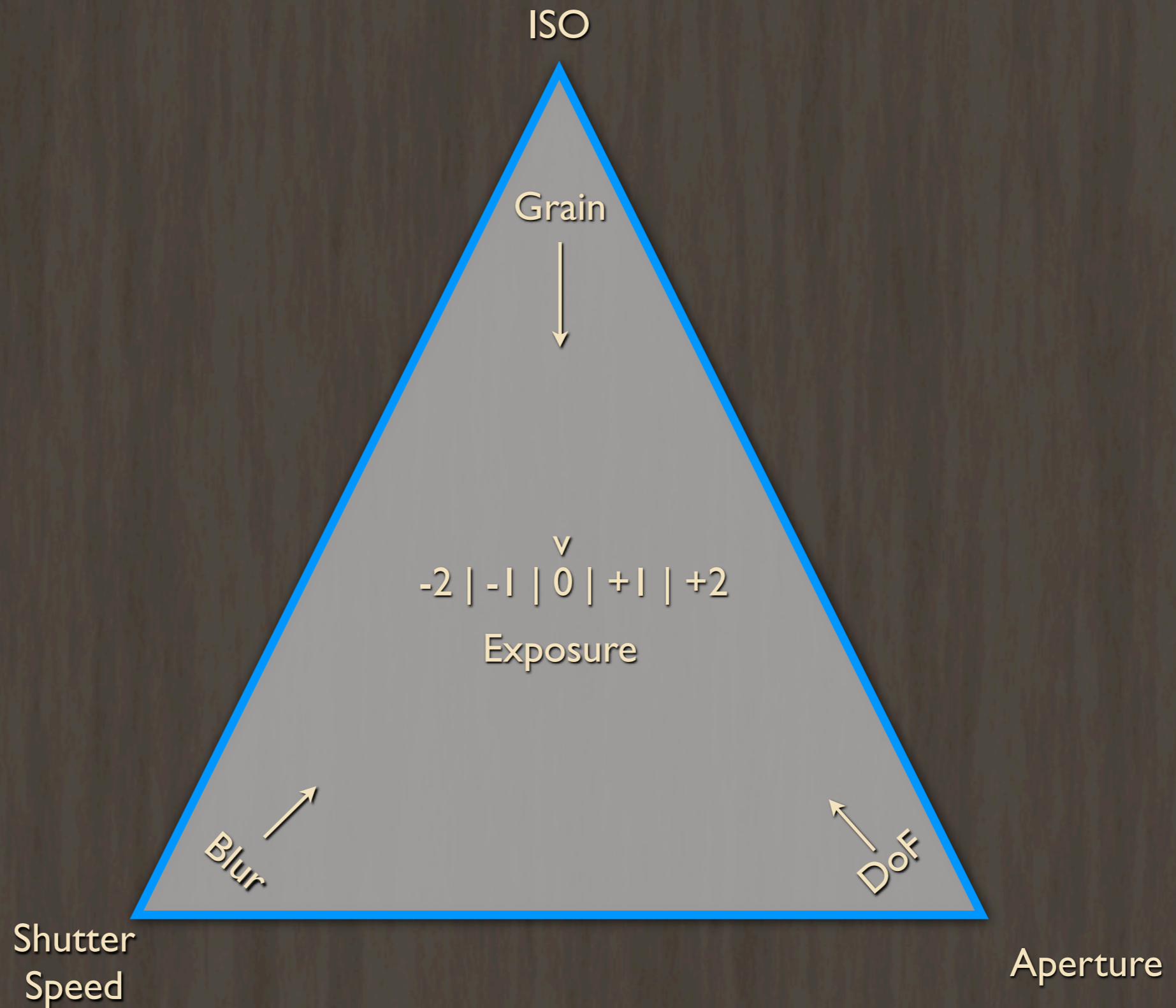




# EXPOSURE TRIANGLE



# EXPOSURE TRIANGLE









# 2. Length of Time - Shutter Speed

## The Shutter





# 2. Length of Time - Shutter Speed

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000

## The Shutter



# Shutter Speed

## Is the subject moving?



# Shutter Speed

## Is the subject moving?





# Setting Shutter Speed





# Setting Shutter Speed



# Types of Motion



# Types of Motion

## Frozen Motion





# Types of Motion

## Frozen Motion



## Motion Blur





To NOT blur

# To NOT blur

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000



# To NOT blur

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000



# To capture GESTURES



# To capture GESTURES

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000

# To capture GESTURES

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000





# To capture a person running

# To capture a person running

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000



# To capture a person running

Amount  
of light



1"

1/2

1/15

1/30

1/60

1/125

1/250

1/500

1/1000



# Creative use



# Creative use

## Panning





# Creative use

## Panning



Follow the subject  
action.



# Creative use

## Panning



Follow the subject  
action.

Keep the same speed  
of the subject.



# Creative use

## Panning



Follow the subject  
action.

Keep the same speed  
of the subject.

Not a fast shutter  
speed.



# Creative use

# Creative use

## Zoom Blur



By Ralph Rayner



# Creative use

## Zoom Blur

Slow shutter speed.



By Ralph Rayner



# Creative use

## Zoom Blur

Slow shutter speed.

Not a bright environment.



By Ralph Rayner



# Creative use

# Creative use

## Velvet Water



By Gary Williams



# Creative use

## Velvet Water



By Gary Williams

Super slow  
shutter speed.



# Creative use

## Velvet Water



By Gary Williams

Super slow  
shutter speed.

Best time of  
day: dawn.



# Creative use

## Velvet Water



By Gary Williams

Super slow  
shutter speed.

Best time of  
day: dawn.

Maybe special  
filter.

# Tips



# Tips

- Set camera to Shutter Speed Priority.

# Tips

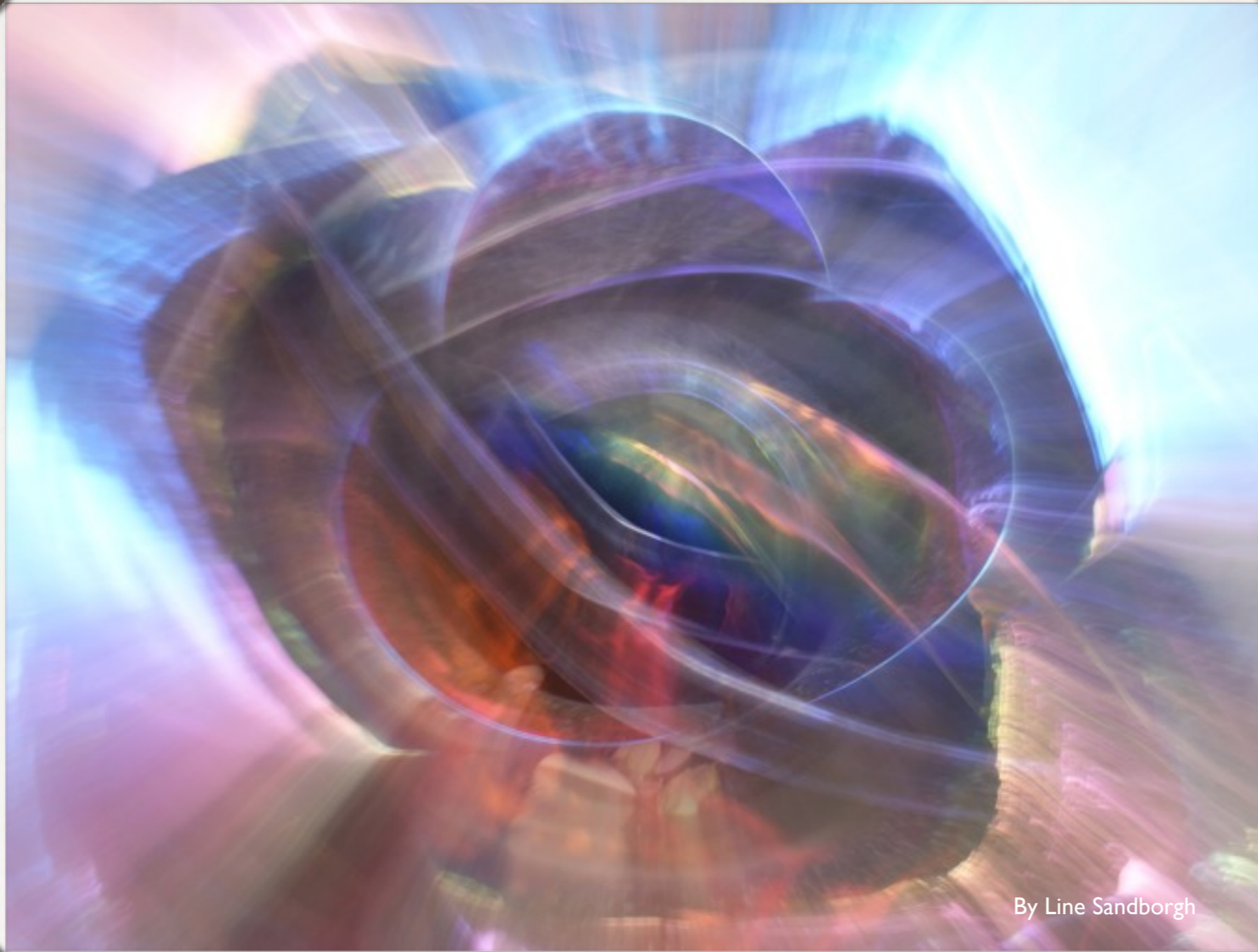
- Set camera to Shutter Speed Priority.
- Slow? Tripod!



# Tips

- Set camera to Shutter Speed Priority.
- Slow? Tripod!
- Use the Timer.

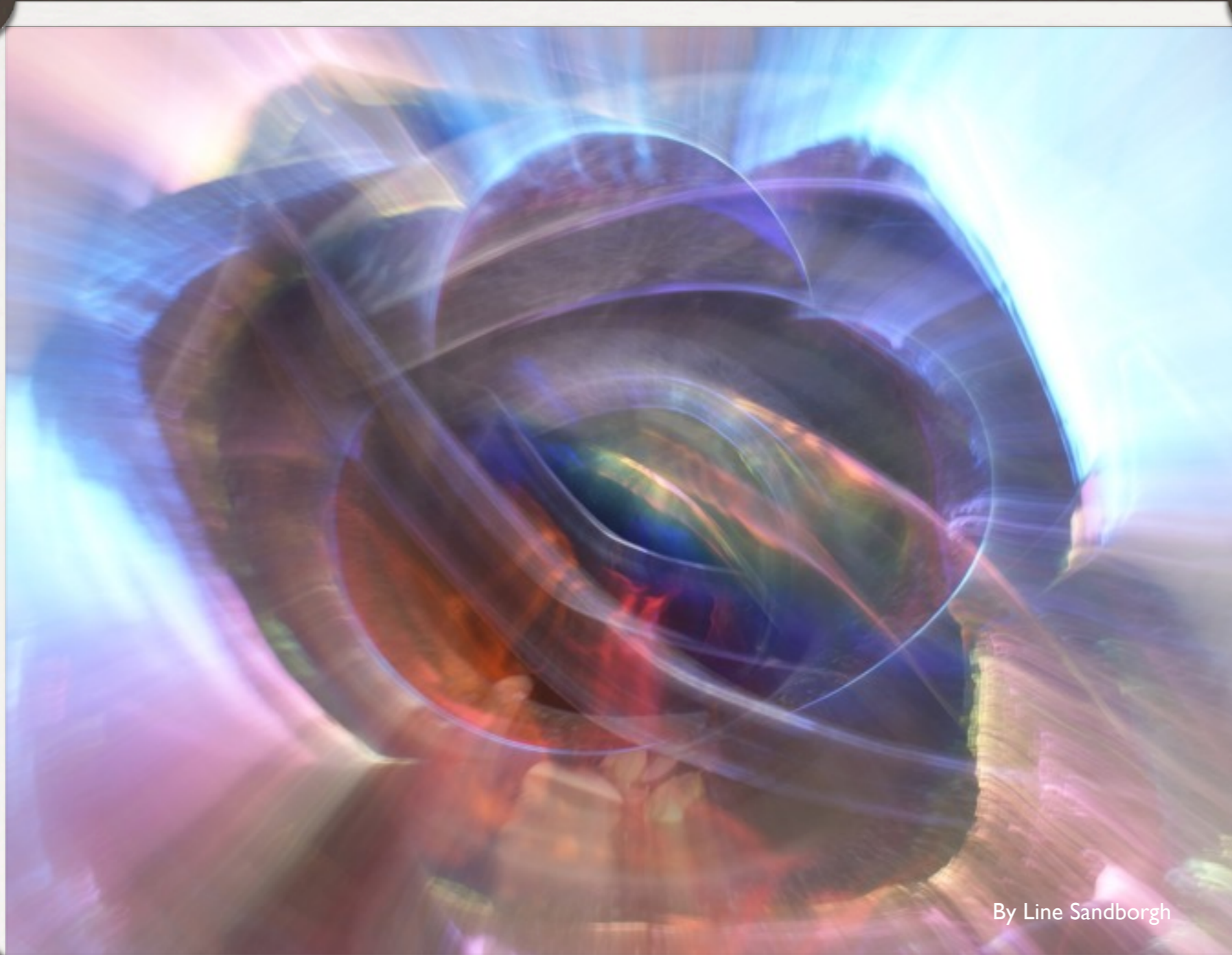
# Examples



By Line Sandborgh



# Examples



By Line Sandborgh

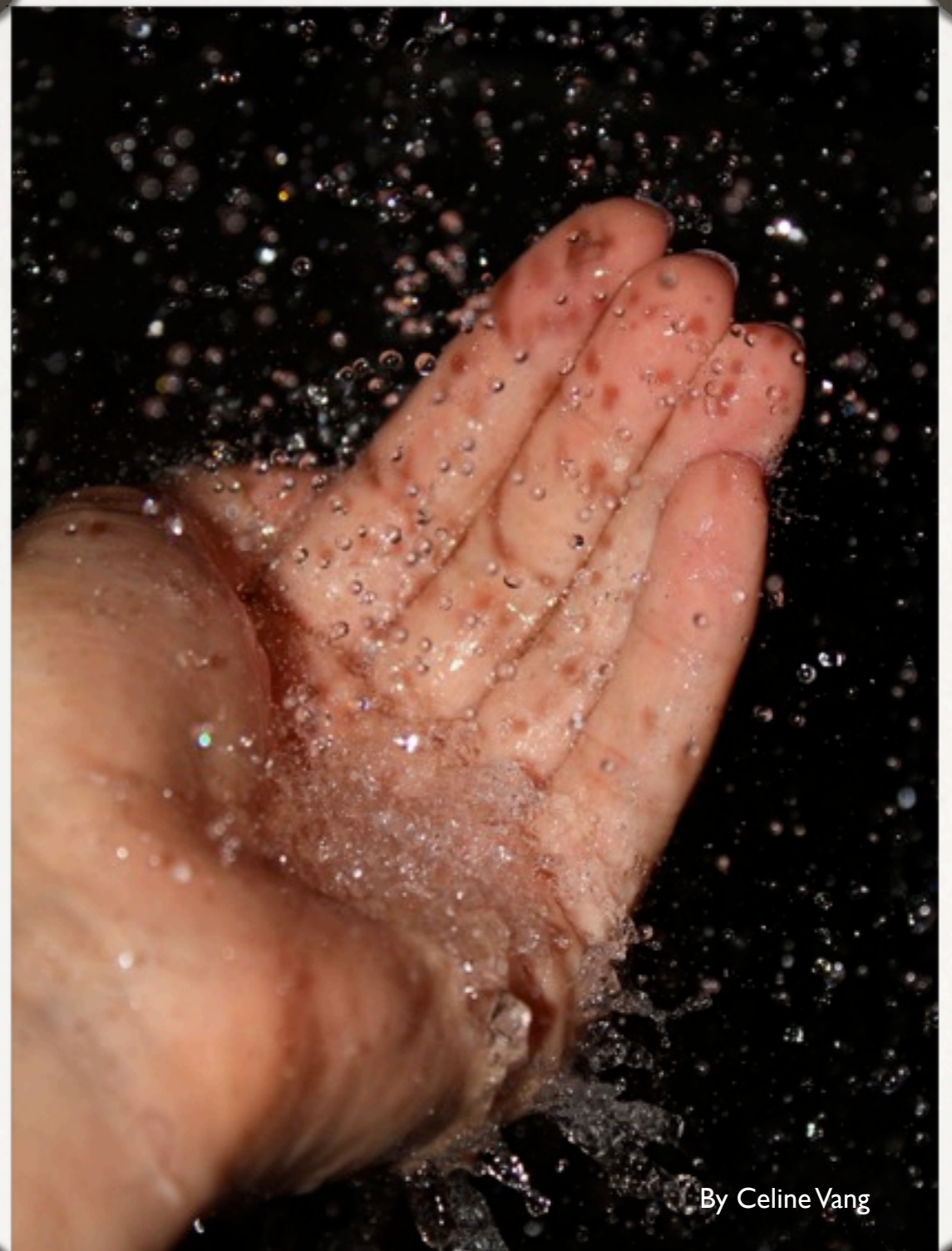
f-stop - 5.6

S.Speed - 1/10

ISO - 100



# Examples



By Celine Vang



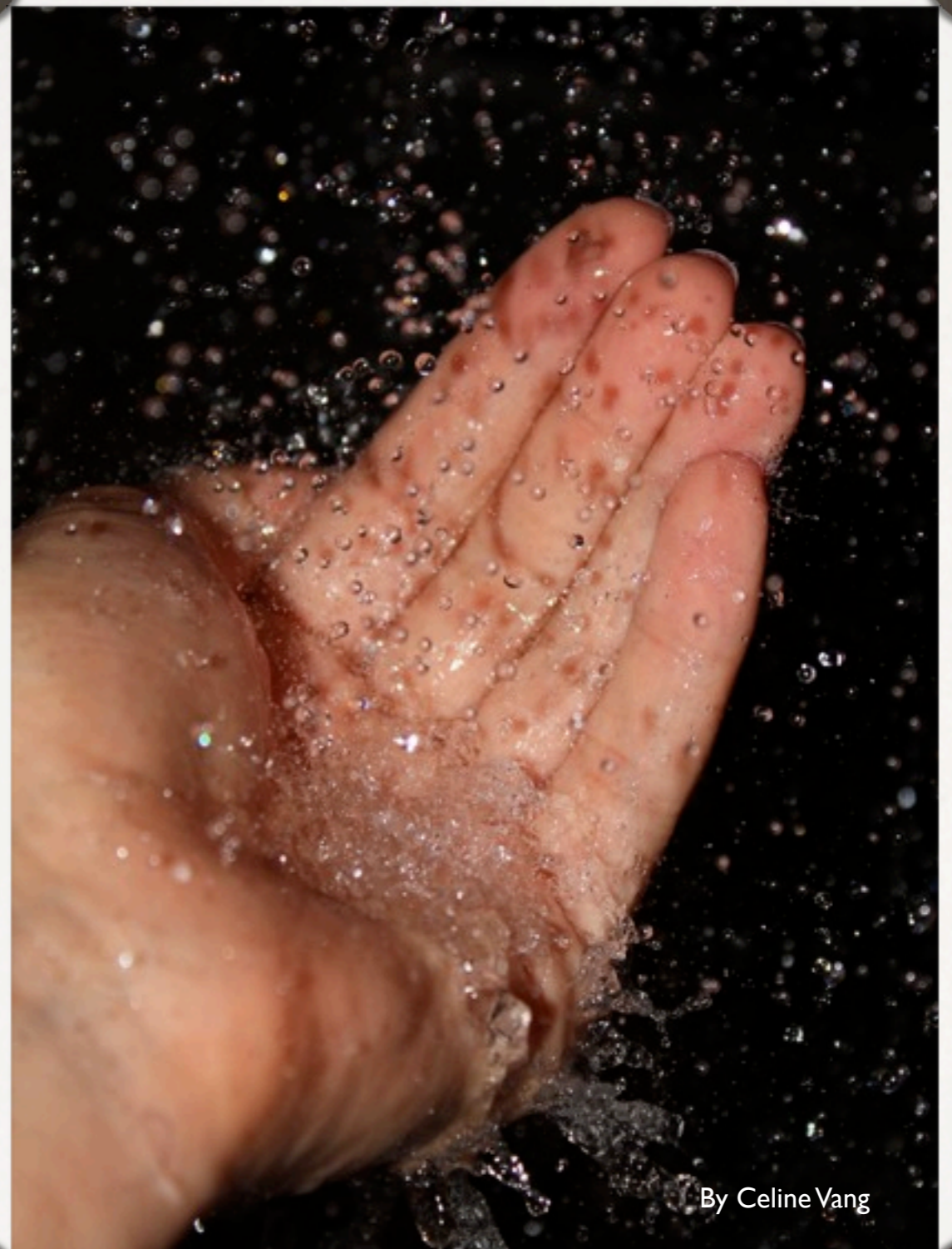
# Examples

f-stop - 5.6

S.Speed - 1/60

ISO - 400

Flash Fired



By Celine Vang



# Examples



By Carrie Lewis



# Examples



By Carrie Lewis

f-stop - 20  
S.Speed - 1/8  
ISO - 800



# Examples



ck Pessoa



# Examples



f-stop - 16

S.Speed - 8''

ISO - 200

Time: 6:45 PM

ck Pessoa



# Examples





# Examples



f-stop - 22

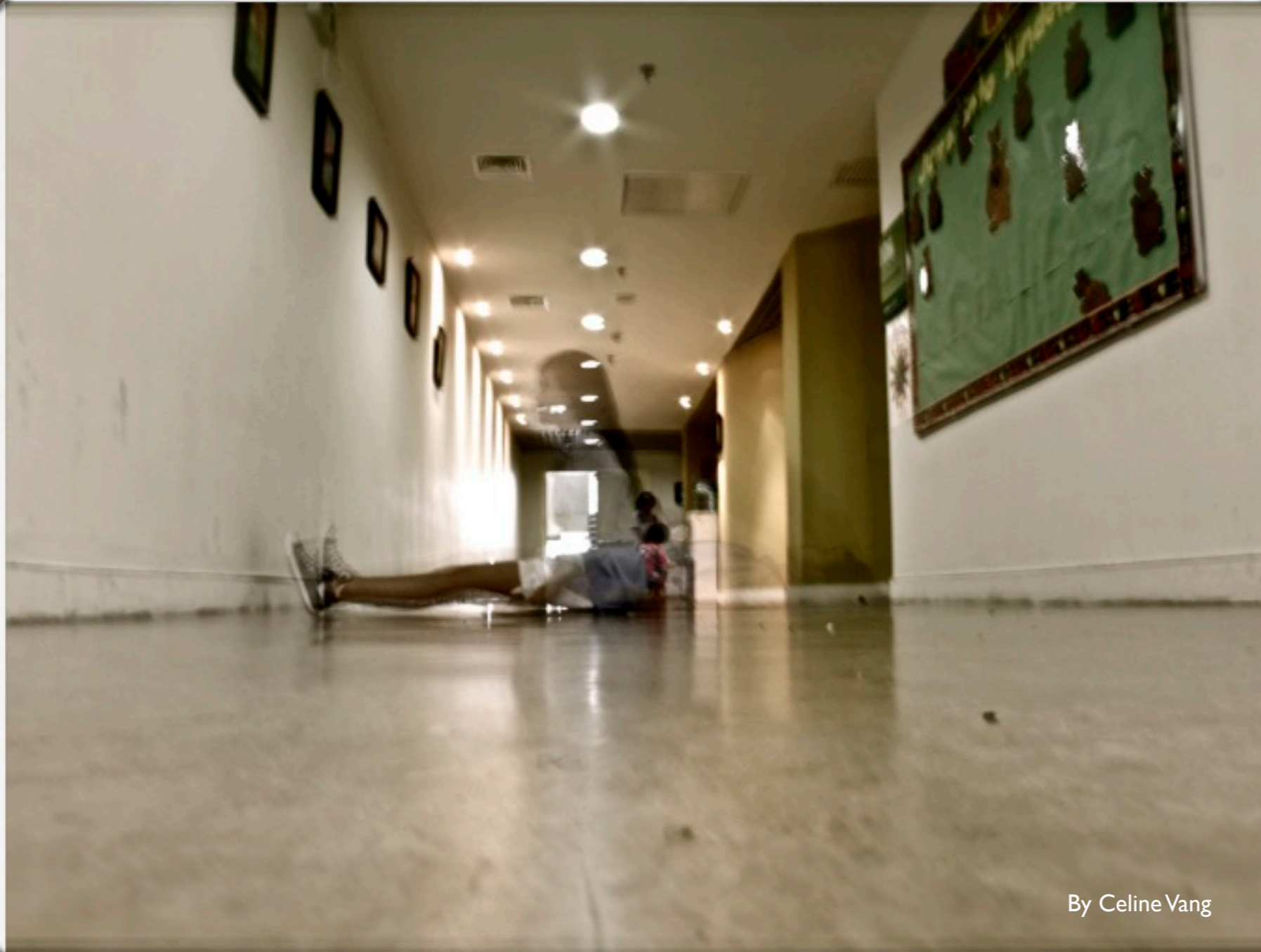
S.Speed - 1”

ISO - 200

With two filters



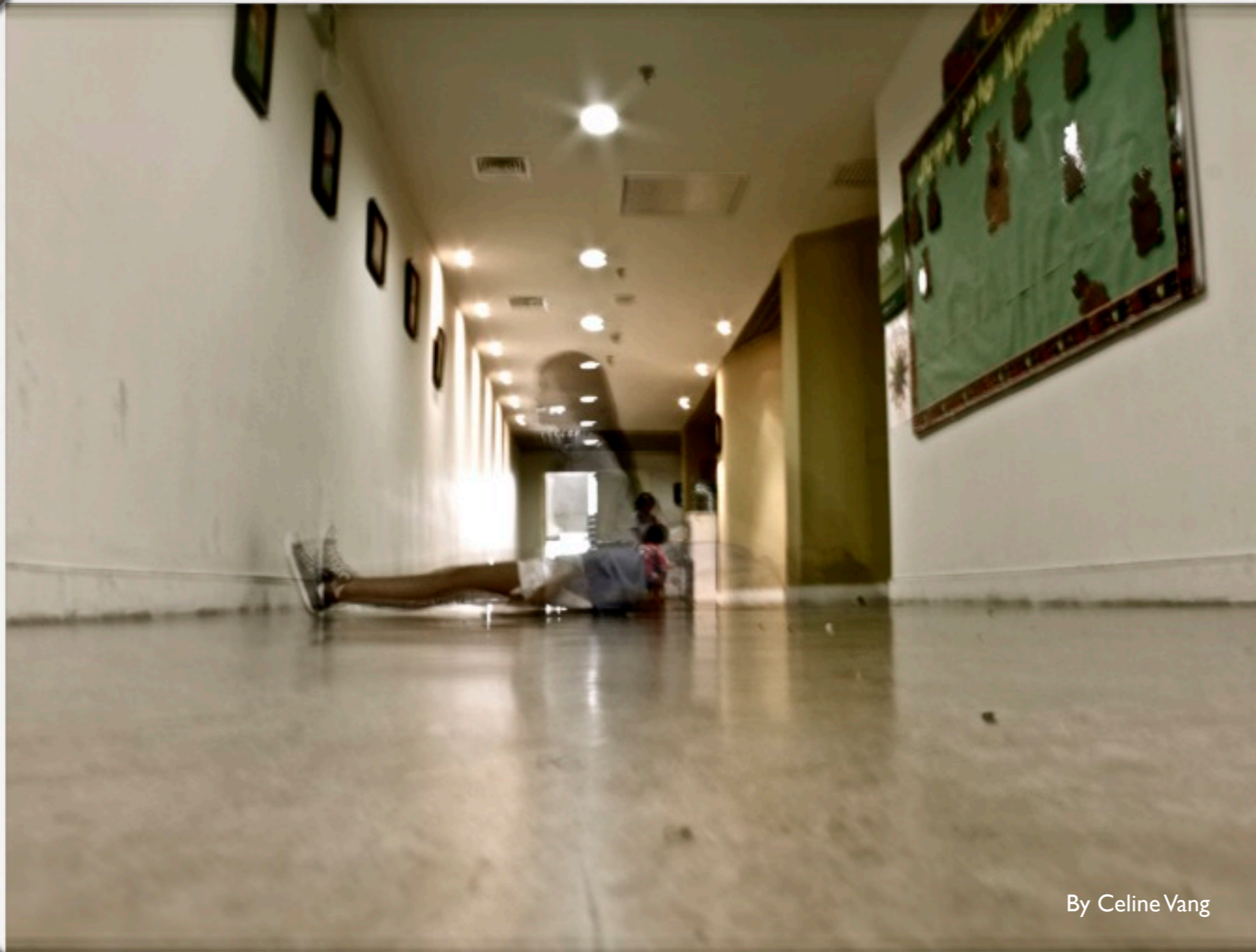
# Examples



By Celine Vang



# Examples



By Celine Vang

f-stop - 14  
S.Speed - 3.2"  
ISO - 100





“Dragging the Shutter”





“Dragging the Shutter”