

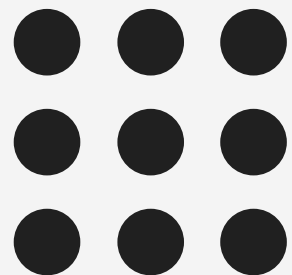
TECHNICAL PHOTOGRAPHY

ENTOURAGE ESSENTIALS: DAY 12

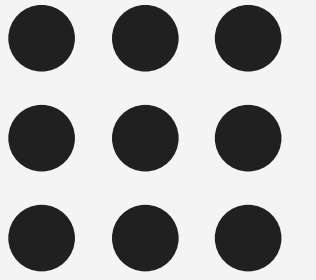


DONOW:

find your partner,
review your plans for
tomorrow's photo shoot.



OBJECTIVES:

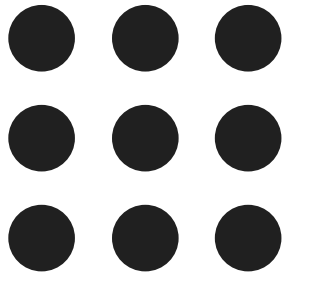


You will practice using the exposure triangle to take technically sound photographs.

You will gain understanding of a variety of lighting techniques and find different types of light in a location.



CAMERA MODES



M Manual **M**

AV Aperture Priority **A**

Tv Shutter Priority **S**

P Program **P**



WHITE BALANCE

(WB) is the process of removing unrealistic color casts, so that objects which appear white in person are rendered white in your photo



AUTO

camera sets white balance



DAYLIGHT

camera adds warm tones



CLOUDY

camera adds warm tones



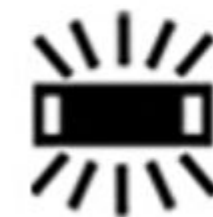
SHADE

camera adds warm tones



TUNGSTEN

camera adds cool tones



FLUORESCENT

camera adds warm (red) tones



FLASH

camera adds warm tones



CUSTOM

photographer sets white balance

WHITE BALANCE



Tungsten



Flourescent



Daylight



Cloudy



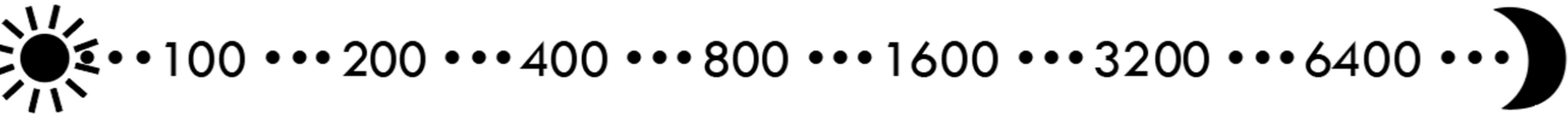
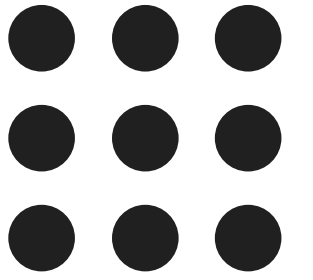
Shade



Auto White Balance



ISO



LOW SENSITIVITY TO LIGHT

LIGHT SENSITIVITY

HIGH SENSITIVITY TO LIGHT

BLURRED MOTION | OUTDOORS | HIGH

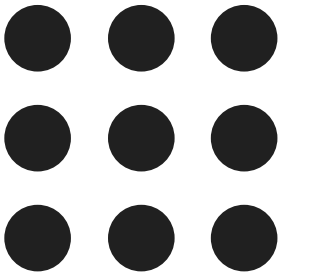
USE INDOORS

SHARP ACTION | NIGHT TIME | LOW



SENSITIVITY

NOISE AND ISO

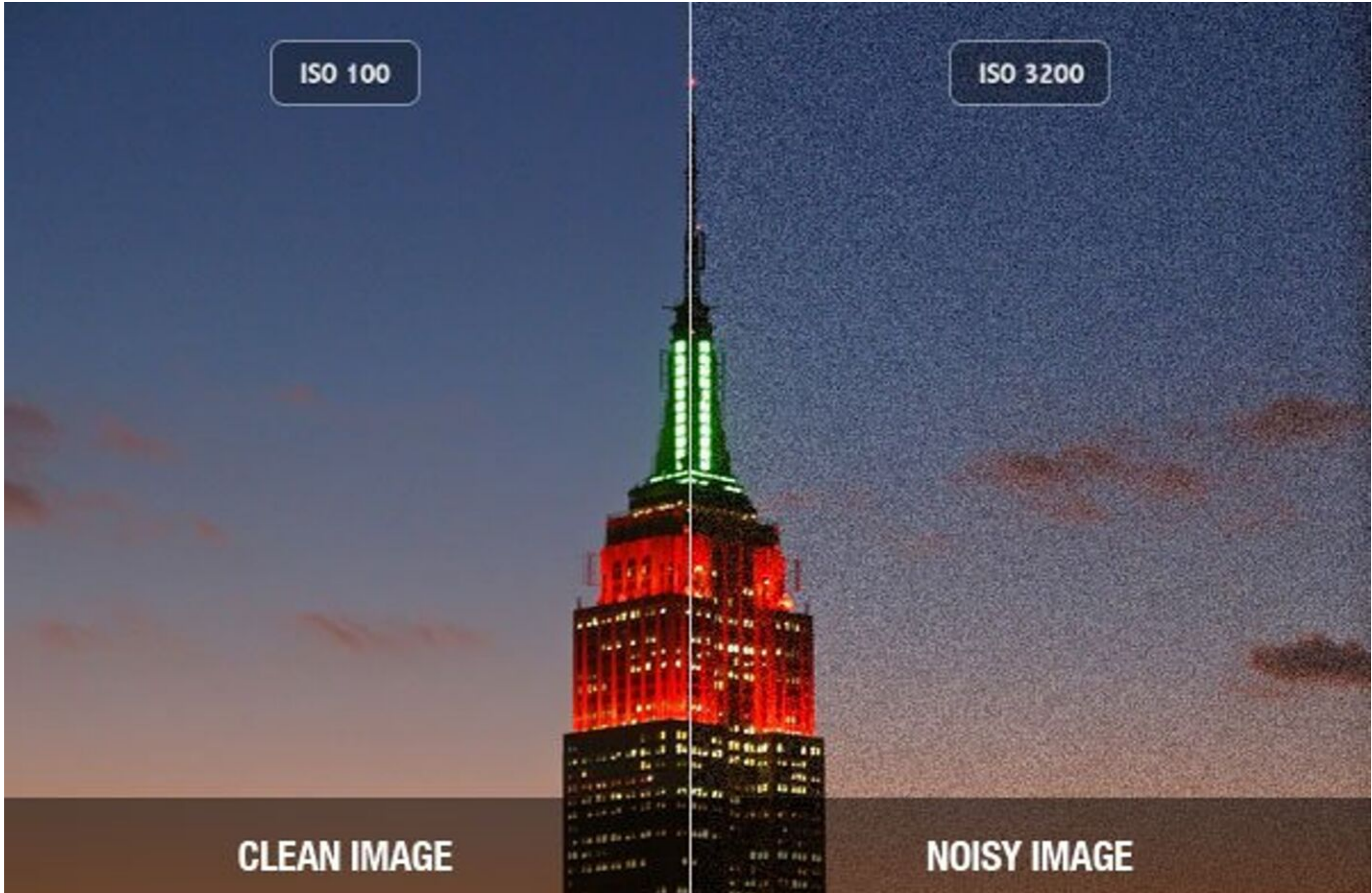


ISO 100

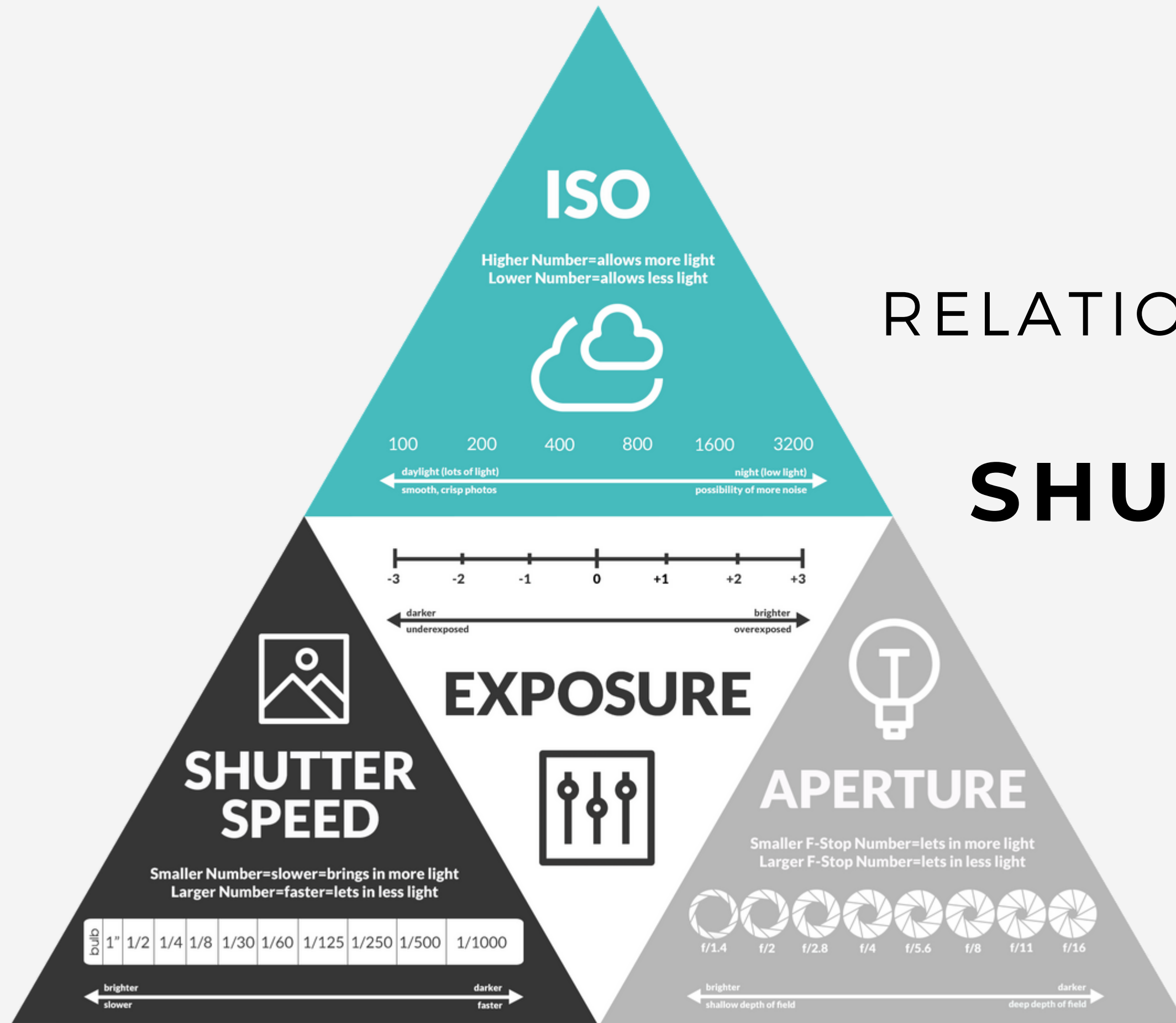
ISO 3200

CLEAN IMAGE

NOISY IMAGE



THE EXPOSURE TRIANGLE



RELATIONSHIP BETWEEN
ISO
SHUTTER SPEED
APERTURE



APERTURE

← **SHALLOW** • • • *DEPTH OF FIELD* • • • **DEEP** →



F/1.4



F/2.0



F/2.8



F/4.0



F/8.0



F/16



F/22



DEPTH OF FIELD



f2



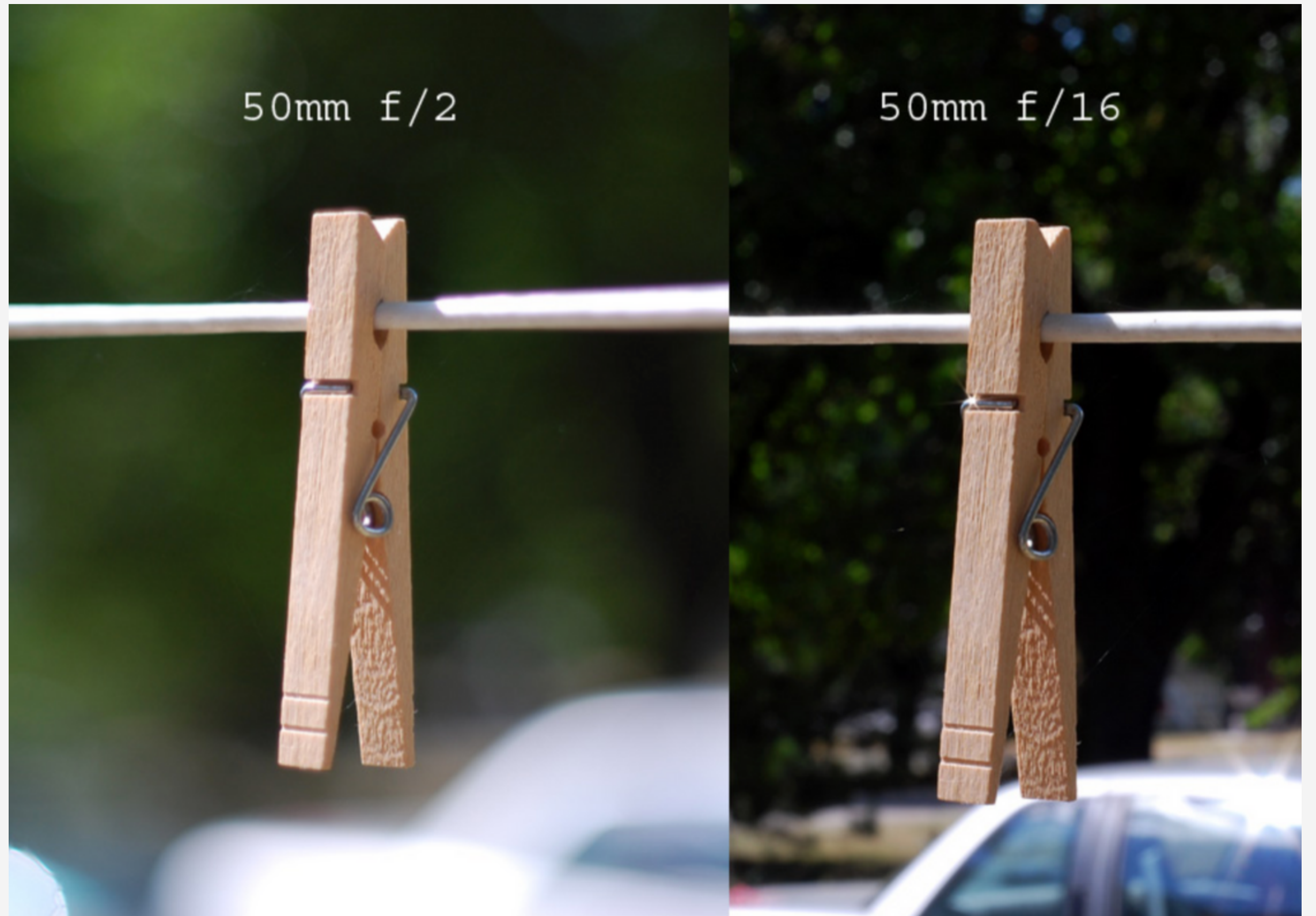
f22



DEPTH OF FIELD BOKEH

In photography, bokeh (boh-kay) is the aesthetic quality of the blur produced in the out-of-focus parts of an image produced by a lens.

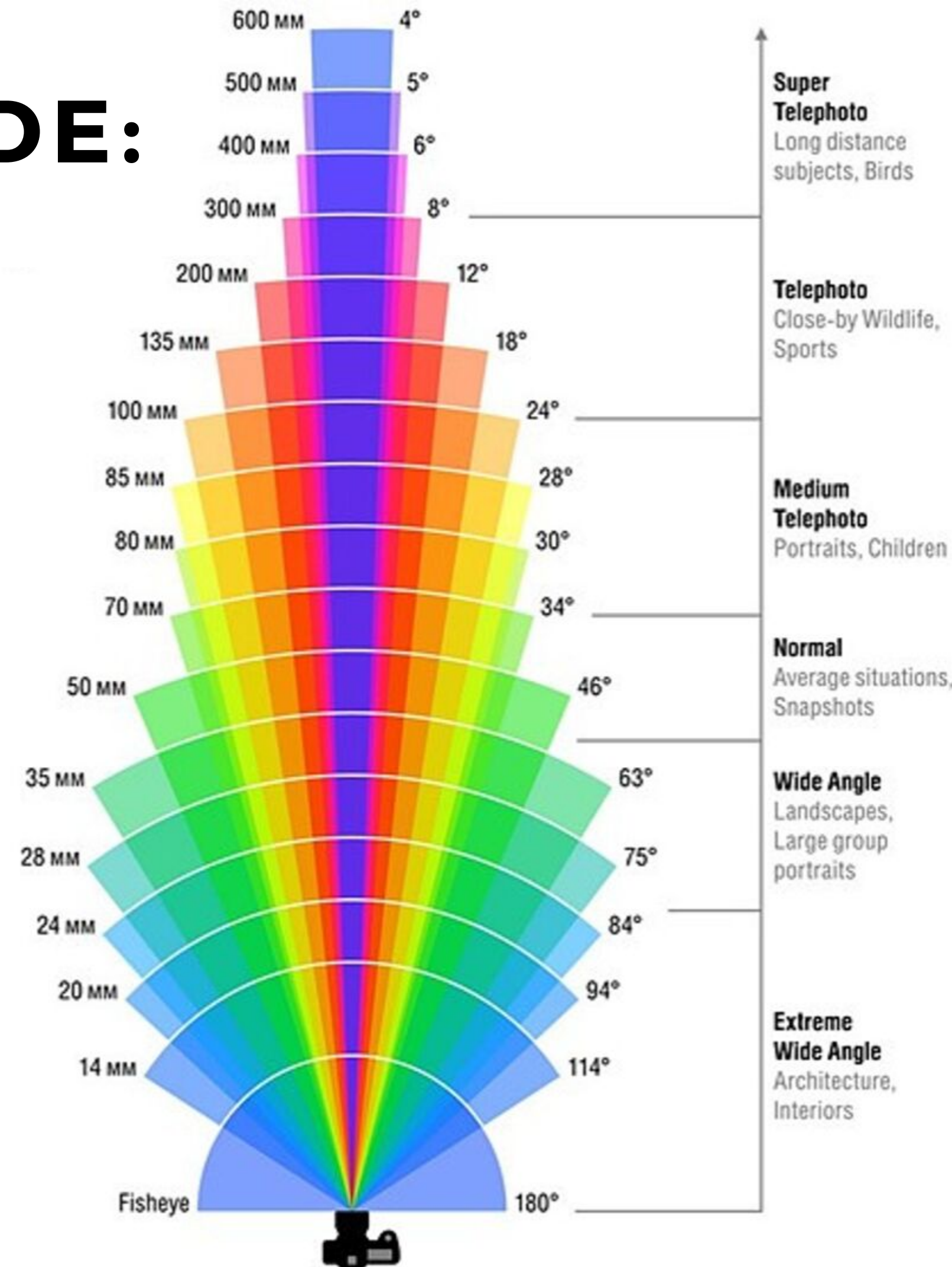
Bokeh has been defined as "the way the lens renders out-of-focus points of light".



ANGLE OF VIEW GUIDE:

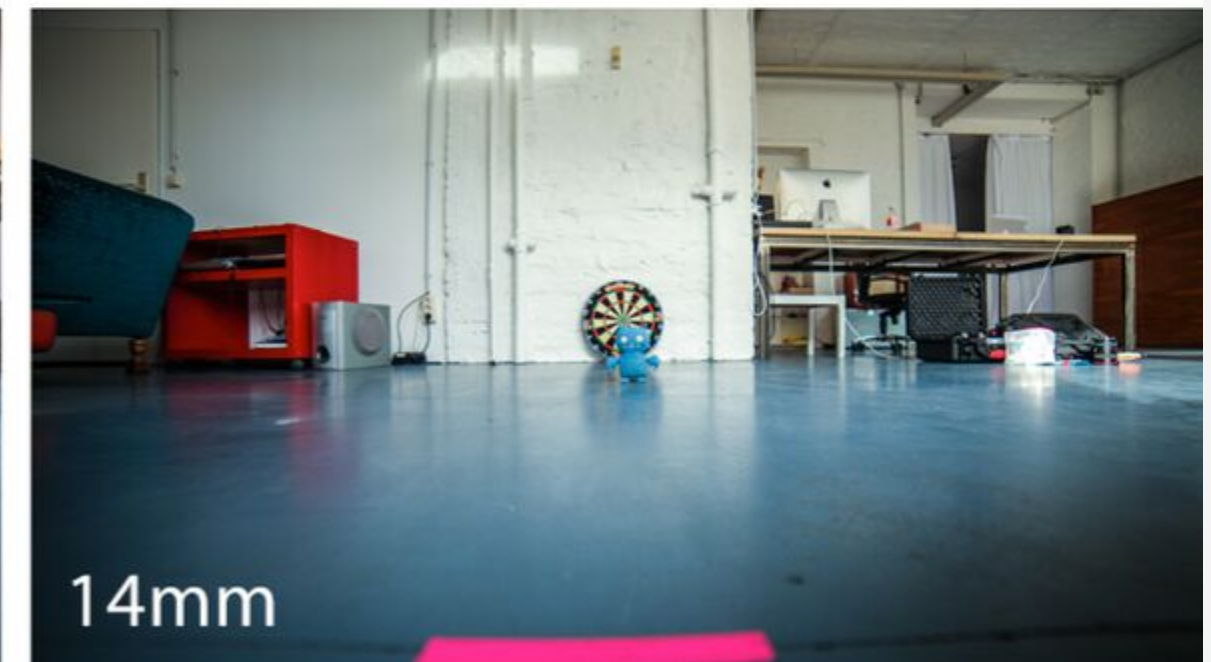
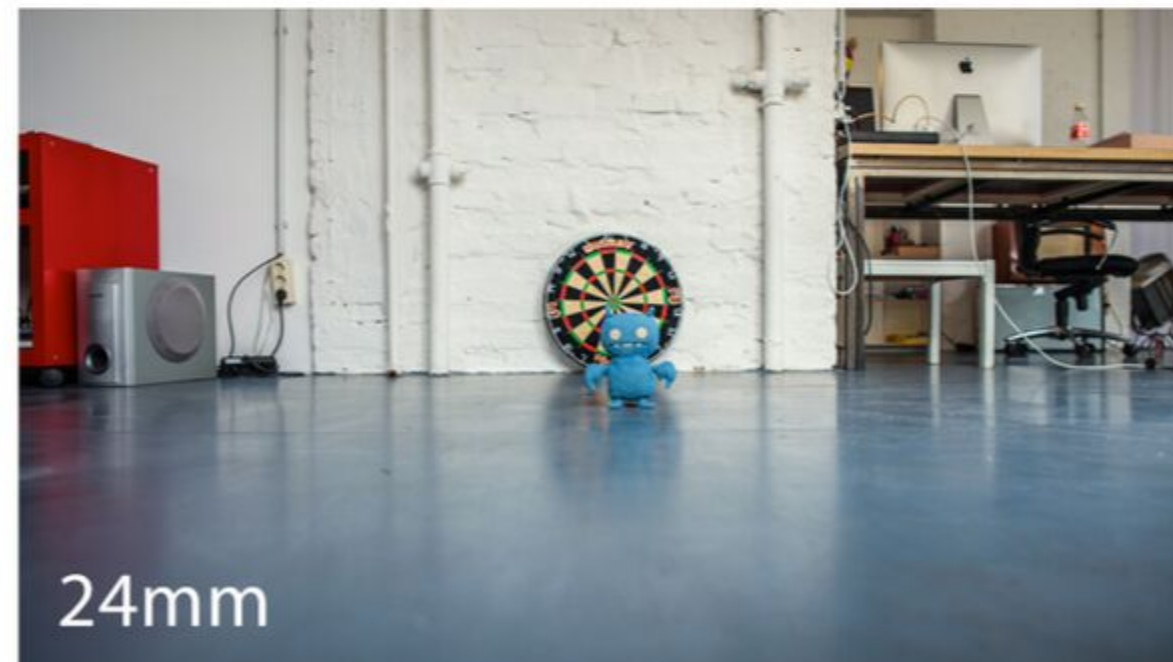
FOCAL LENGTH

The distance between the center of a lens or curved mirror and its focus.
Measured in MM



FOCAL LENGTH

Olaf von Voss



Same background and camera position using different focal lengths.
HOW DOES FOCAL LENGTH EFFECT DEPTH OF FIELD?



FOCAL LENGTH

Shallow DOF

Softer foreground and background focus

1

Wider Aperture

Longer Focal Length

2

Closer to Subject

3

Long DOF

Foreground and background more sharp

1

Narrow Aperture

Shorter Focal Length

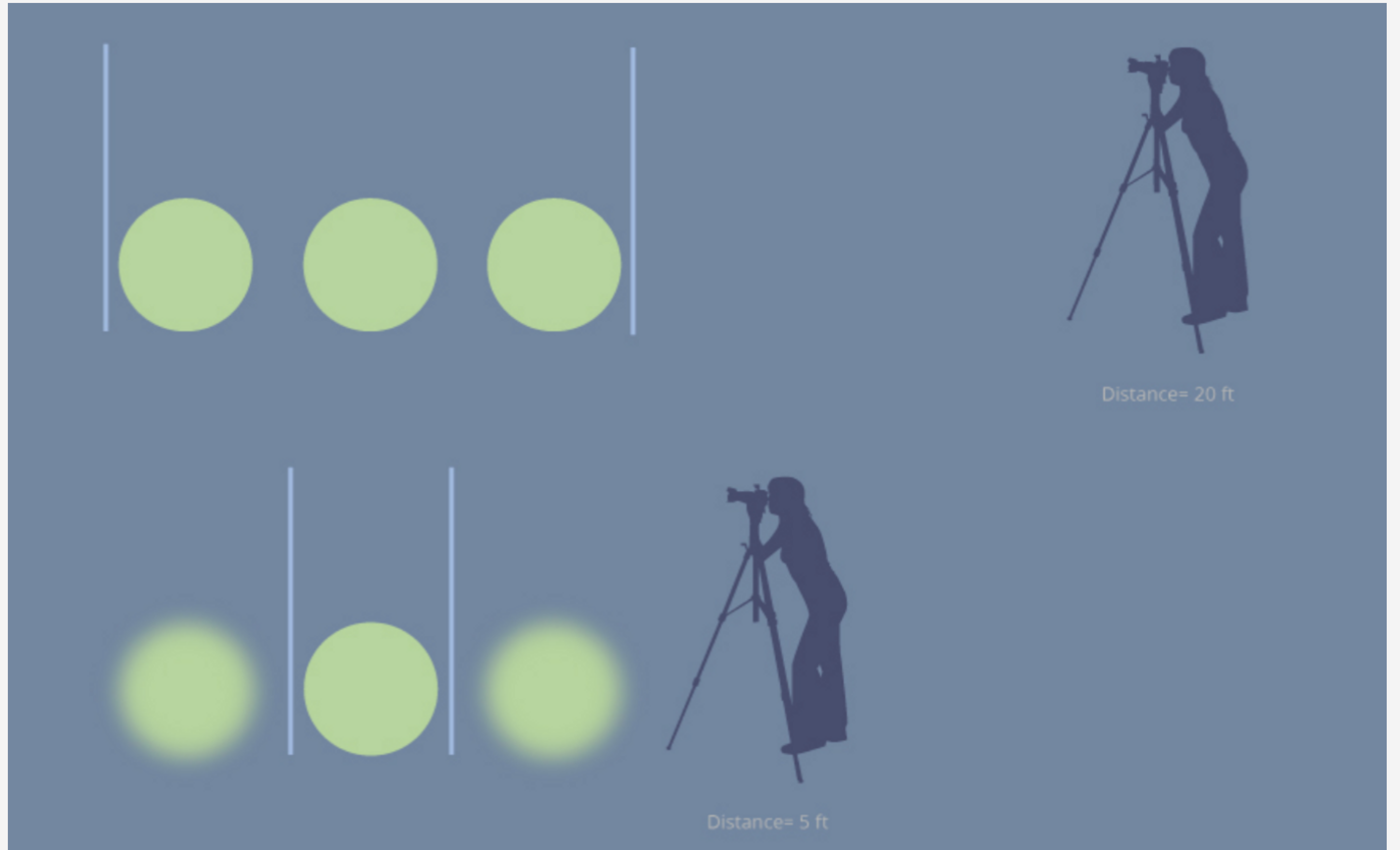
2

Further from Subject

3



DISTANCE TO SUBJECT

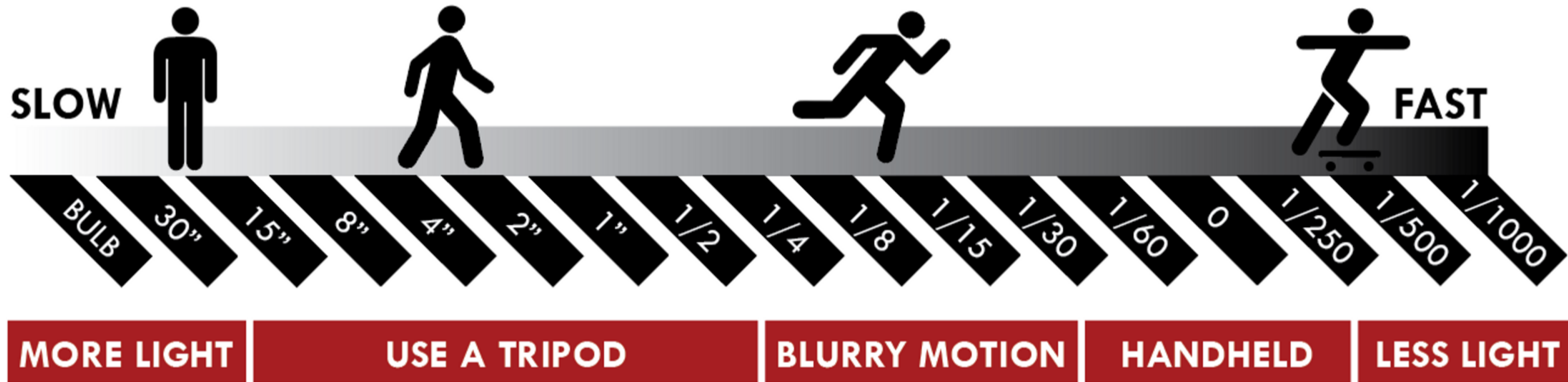


DEPTH OF FIELD SIMULATOR

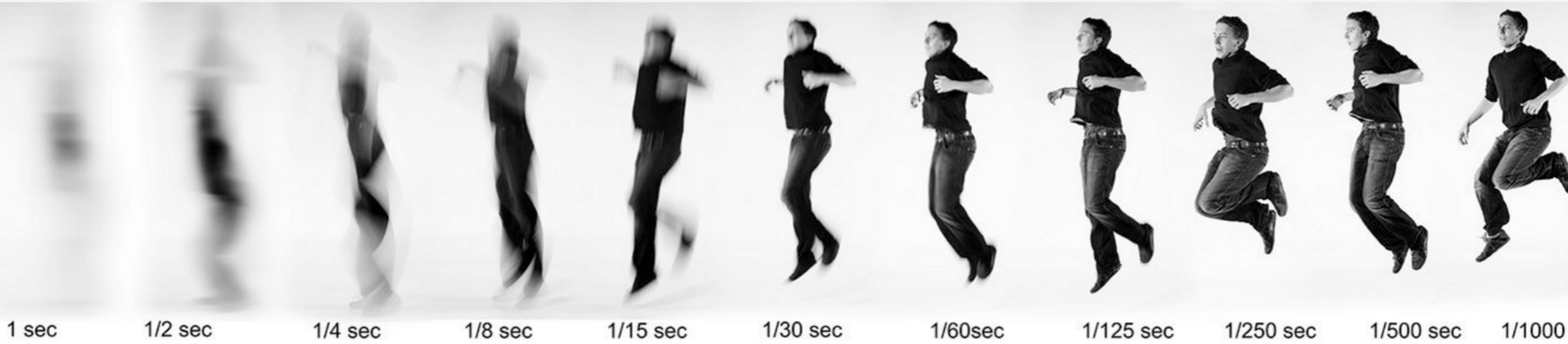
LINK



SHUTTER SPEED



SHUTTER SPEED



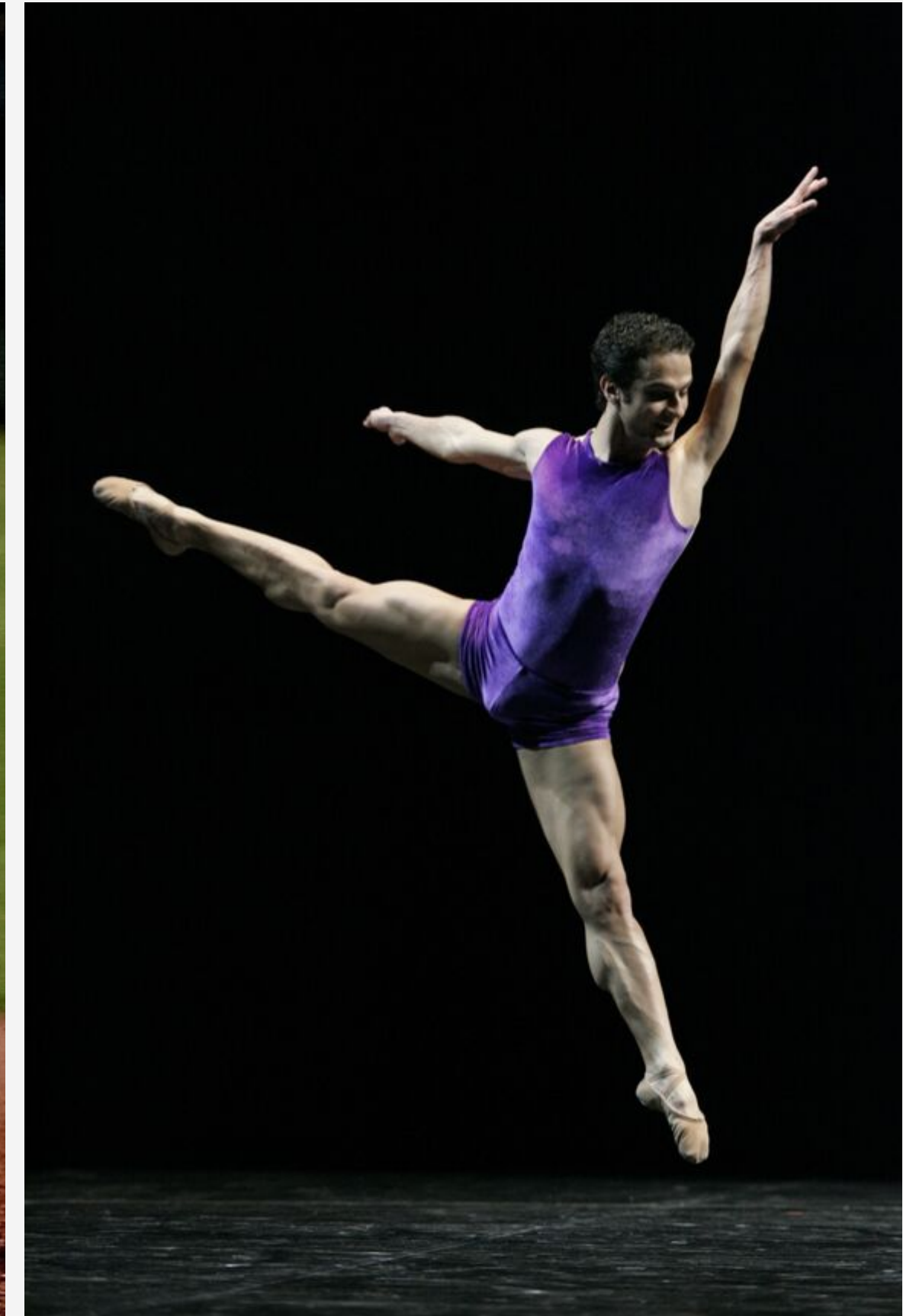
SHUTTER SPEED

longer exposure to
show movement



SHUTTER SPEED

shorter exposure to
freeze movement



EXPOSURE



over exposed

shtr spd - 1/20
f-stop - 1.8
ISO - 800



evenly exposed

shtr spd - 1/20
f-stop - 3.5
ISO - 800



under exposed

shtr spd - 1/20
f-stop - 6.3
ISO - 800



ACTIVITY:

COMPLETE CAMERA SIMULATOR WORKSHEET

Camera Simulator:

<http://www.canonoutsideofauto.ca/play/>

Photography Mapped:

<http://photography-mapped.com/interact.html>

Lens Simulator: Understanding Focal Length

<https://imaging.nikon.com/lineup/lens/simulator/>



UNDERSTANDING LIGHT



The word photography comes from Greek roots and means "light writing" (photo = light) (graphy = writing)

Photographers are light artists.



AMBIENT LIGHT

light that is already present in a scene,
before any additional lighting is added

Assess the light at your location, whether it's windows, artificial light, or the sun. How can you use this light to enhance your subject?



BACKLIGHT

**LIGHT SOURCE IS
BEHIND
THE SUBJECT**

used for environmental
portraits



BACKLIGHT

Martín Diaz Meave

**LIGHT SOURCE IS BEHIND
THE SUBJECT**

creates a dramatic
silhouette effect



TOP LIGHT

**LIGHT SOURCE IS ABOVE THE
SUBJECT**

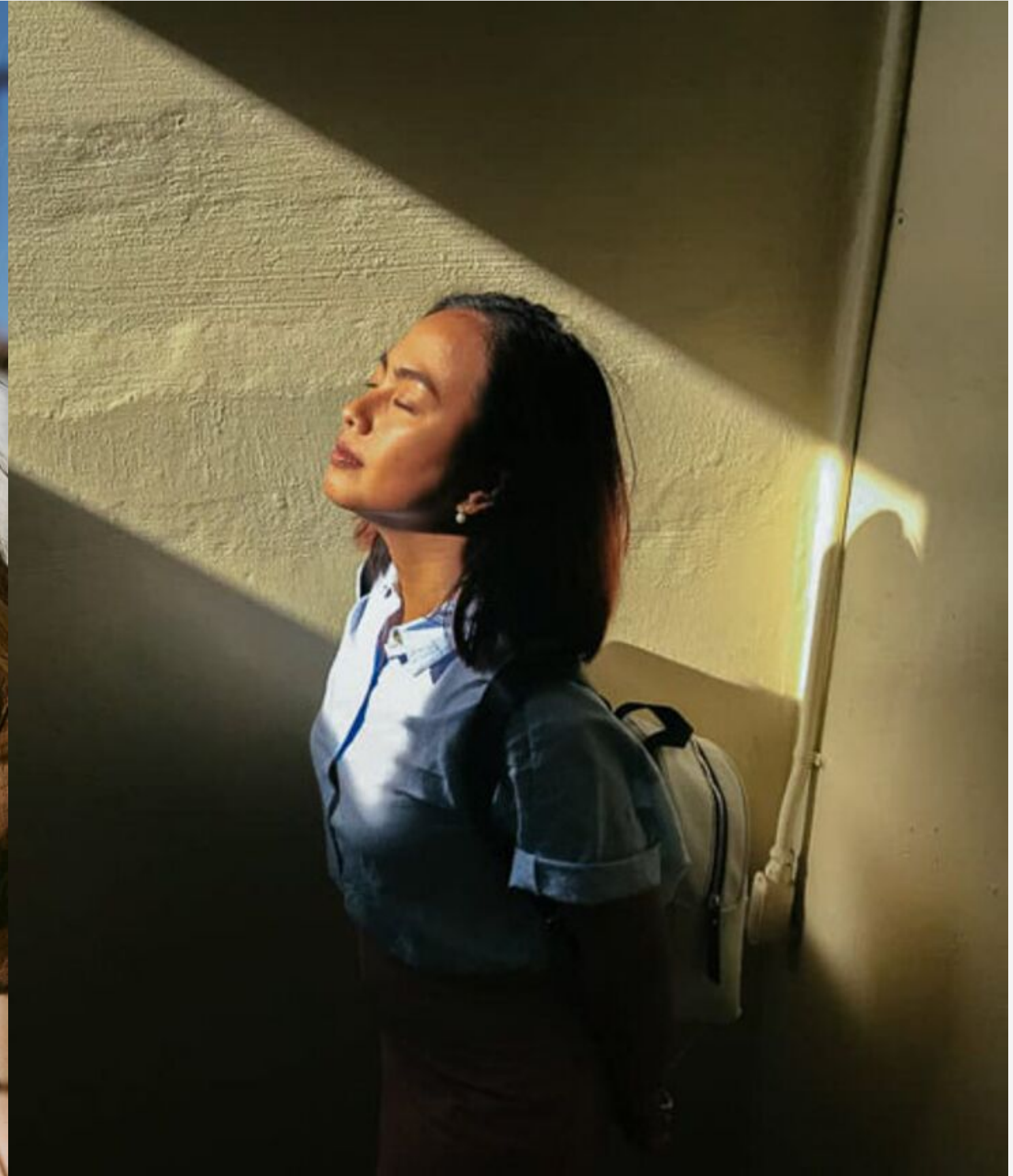
creates a dramatic moody effect



HARSH LIGHT

**SUBJECT IS IN
DIRECT LIGHT**

creates unique sharp
angular shadows



HARSH LIGHT

**SUBJECT IS IN
DIRECT LIGHT**

creates unique sharp
angular shadows



DIFFUSED LIGHT

**SUBJECT IS FAR
FROM LIGHT
SOURCE, LIGHT IS
SPREAD EVENLY
CREATES A SOFT
LOOK**



SPLIT LIGHT

**SUBJECT NEXT
TO LIGHT**

**HALF THE FACE IS
LIT, HALF IS IN A
SHADOW**



© Chuck Vosburgh | ChuckVosburgh.com



SPLIT LIGHT

SUBJECT NEXT TO LIGHT

half the face is lit,
half is in a shadow



SUNRISE/ SUNSET STORMY DAY

When you have a sky covered in dramatic clouds, keep an eye out for breaks in those that will allow sunset light to softly illuminate your subject. Walk around this light; shoot it from many angles. How does it illuminate your foreground? What happens to the parts of the image the warm glow does not hit? Do you prefer it when this light is strong and bright, or when it too is filtered by a light layer of clouds?



GOLDEN HOUR

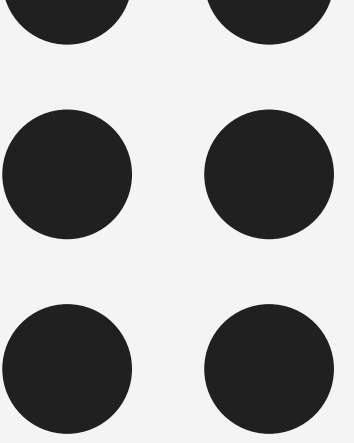
period of daytime an hour after sunrise and an hour before sunset, when the light is redder and softer than when the sun is higher in the sky



GOLDEN HOUR



ASSIGNMENT:



HOMEWORK:



Location Scouting / Looking for Light

Before the photo shoot tomorrow, visit your locations and look for good light. Visit other locations and make notes about lighting you find throughout our school.

