

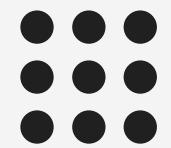
TECHNICAL PHOTOGRAPHY

ESSENTIALS: DAY 12



DONOW:

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



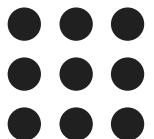
OBJECTIVES:



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



Manual M Aperture Priority **Shutter Priority** Program

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



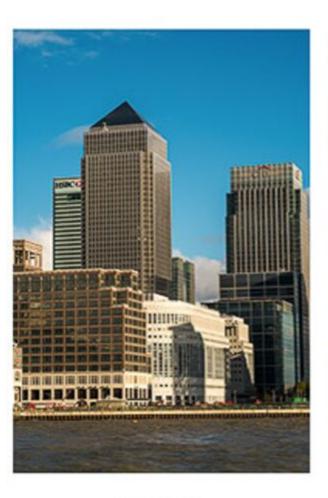




Tungten

Flourescent

Daylight





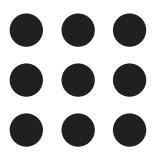


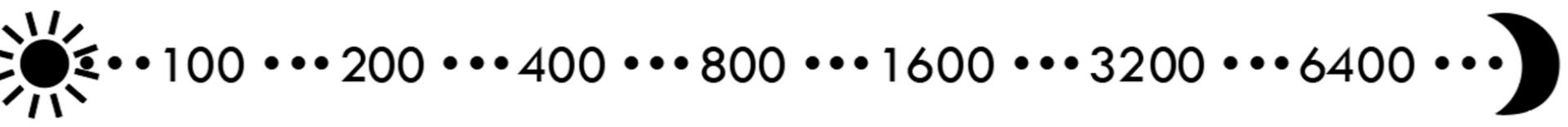
Cloudy

Shade

Auto White Balance







LOW SENSITIVITY TO LIGHT

LIGHT SENSITIVITY

HIGH SENSITIVITY TO LIGHT

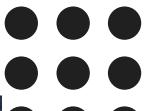
BLURRED MOTION | OUTDOORS | HIGH

USE INDOORS

SHARP ACTION | NIGHT TIME | LOW

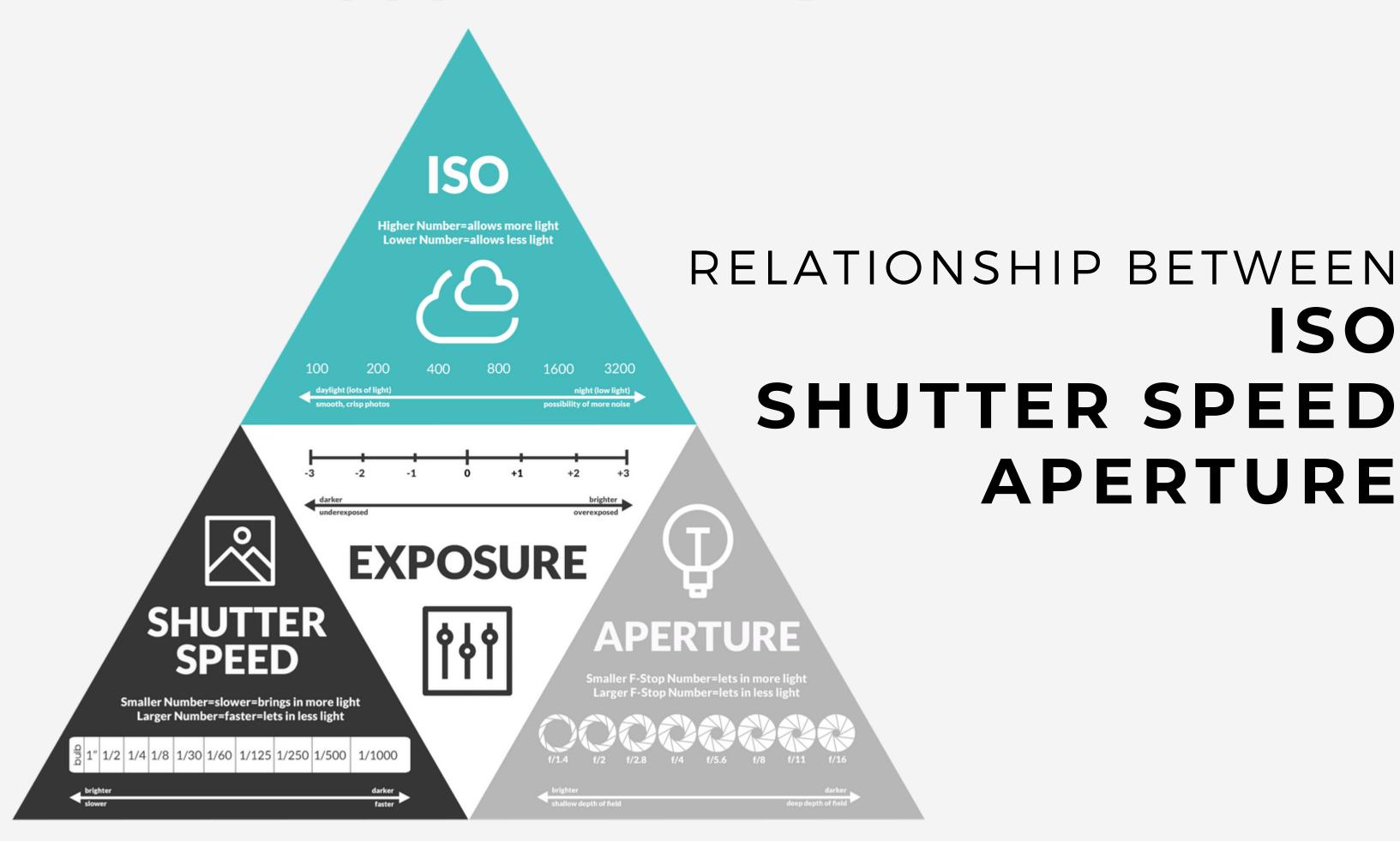
SENSITIVITY

NOISE AND ISO

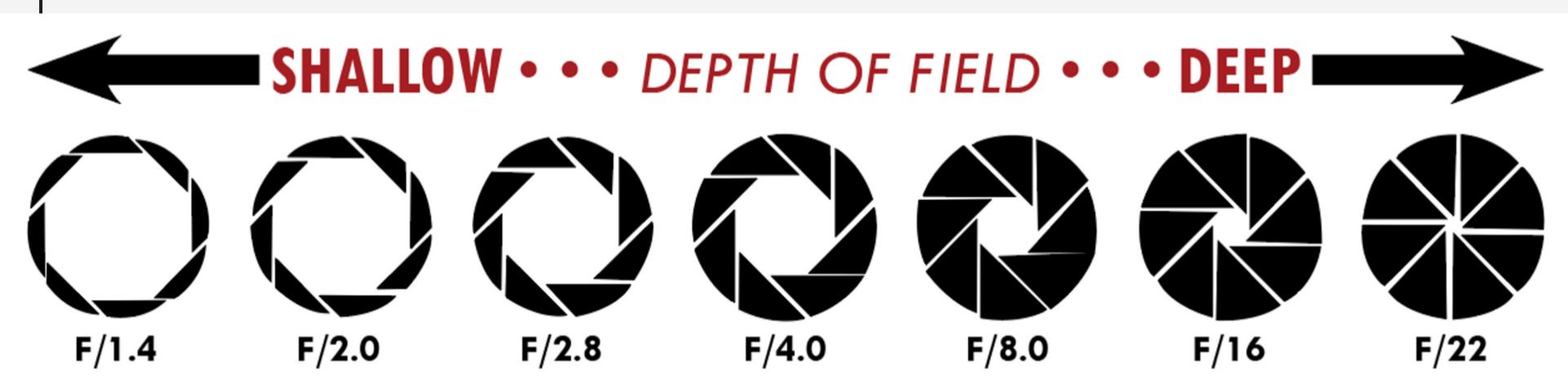




THE EXPOSURE TRIANGLE



APERTURE



DEPTH OF FIELD



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".

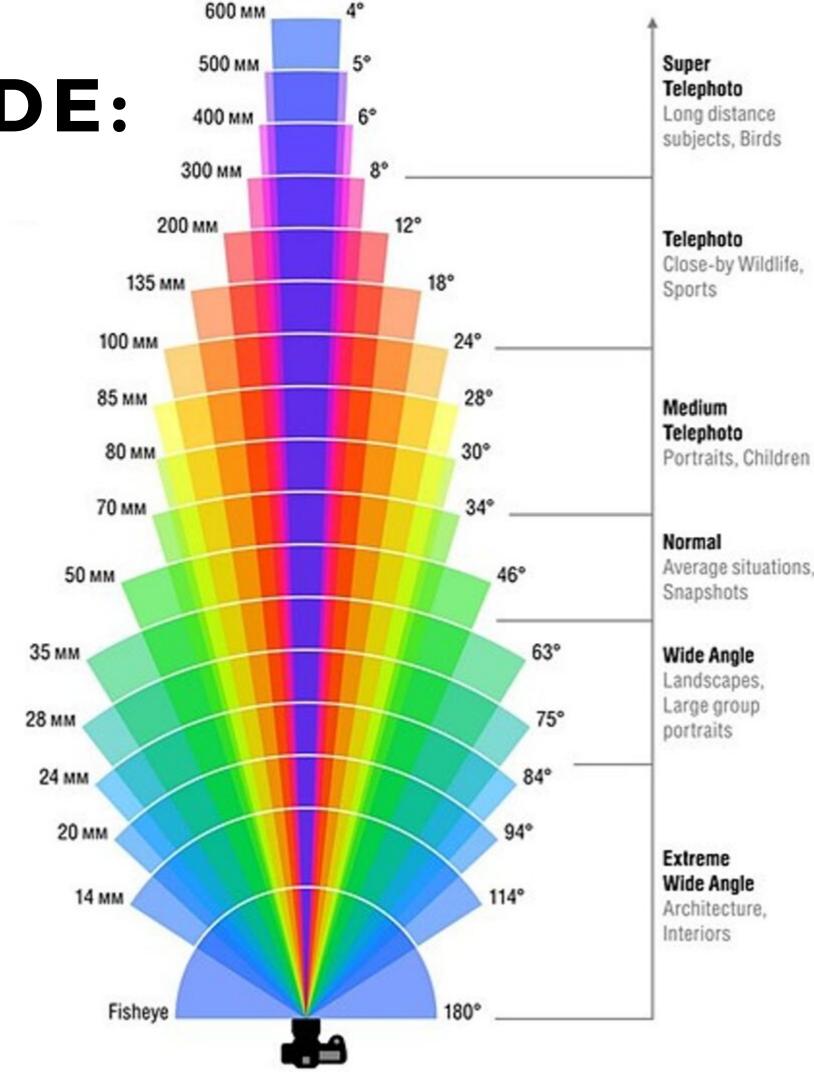


ANGLE OF VIEW GUIDE:

FOCAL LENGTH

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

Measured in MM

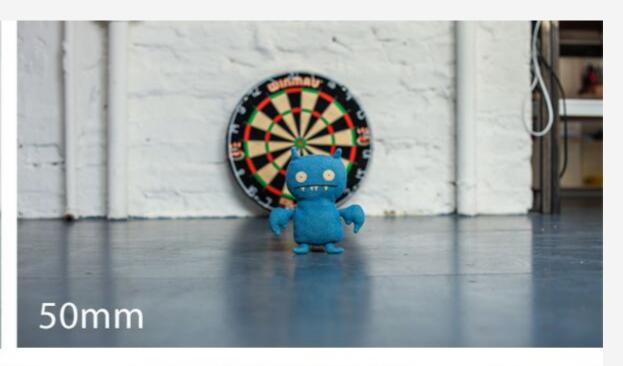


FOCAL LENGTH

Olaf von Voss

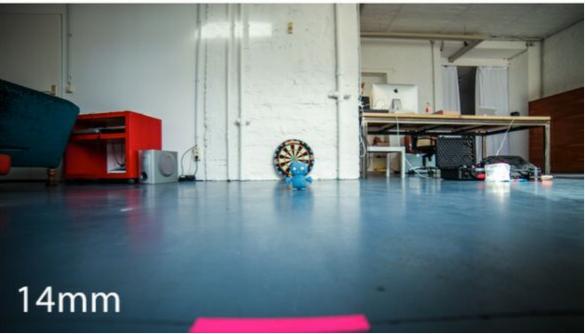












Same background and camera position using different focal lengths.

HOW DOES FOCAL LENGTH EFFECT DEPTH OF FIELD?

FOCAL LENGTH

Shallow DOF

Softer foreground and background focus

Long DOF

Foreground and backgound more sharp

Wider Aperture

Longer Focal Length

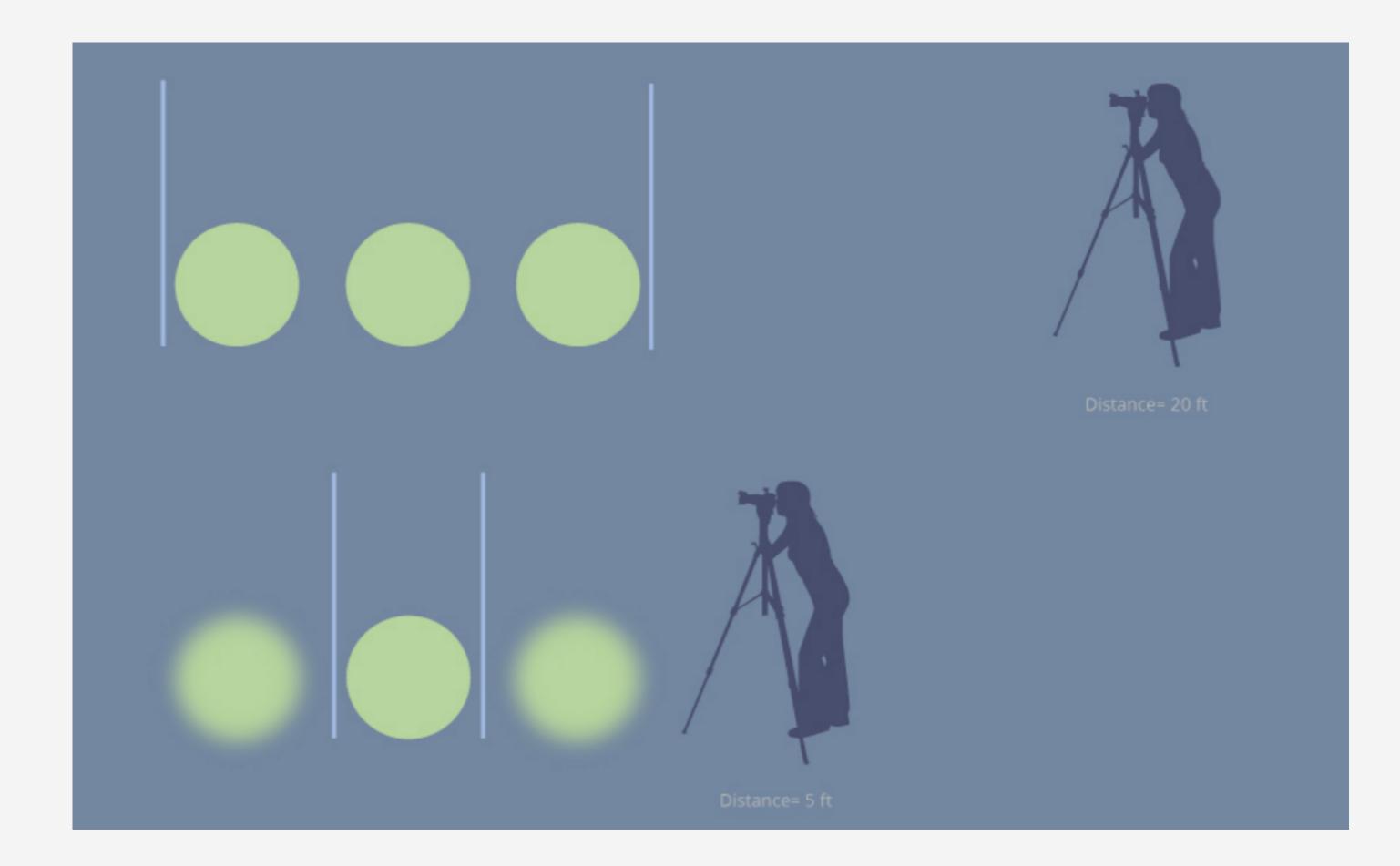
Closer to Subject

Narrow Aperture

Shorter Focal Length

Further from Subject

DISTANCE TO SUBJECT



DEPTHOF FIELD SIMULATOR

LINK



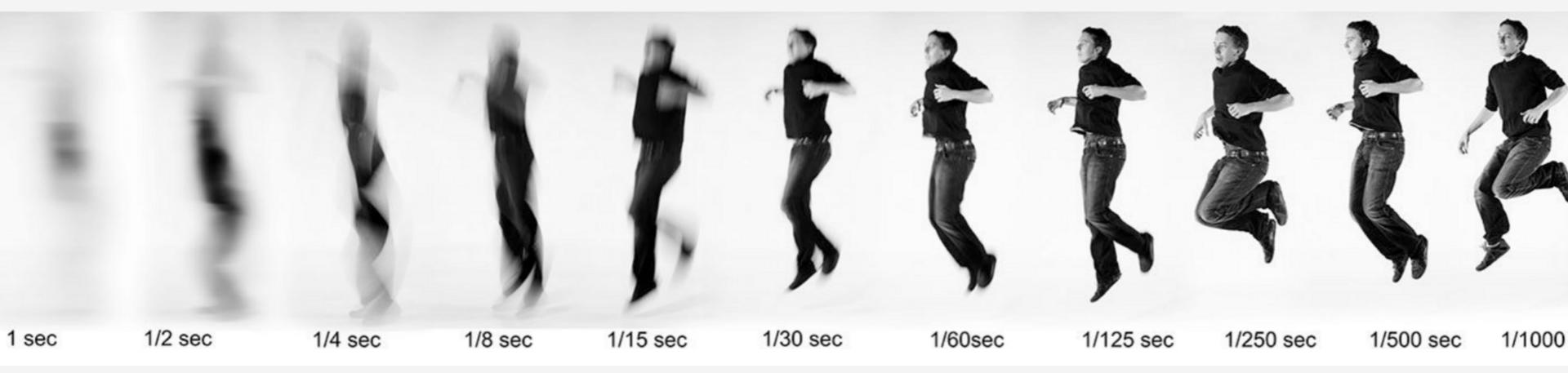
MORE LIGHT

USE A TRIPOD

BLURRY MOTION

HANDHELD

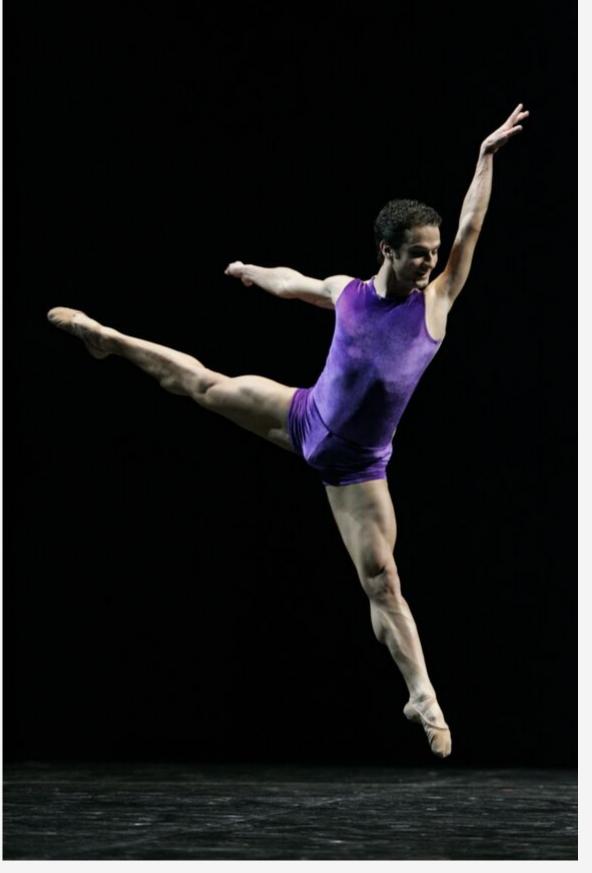
LESS LIGHT



longer exposure to show movement







EXPOSURE



over exposed shttr spd - 1/20 f-stop - 1.8 ISO - 800



evenly exposed shttr spd - 1/20 f-stop - 3.5 ISO - 800



under exposed shttr 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

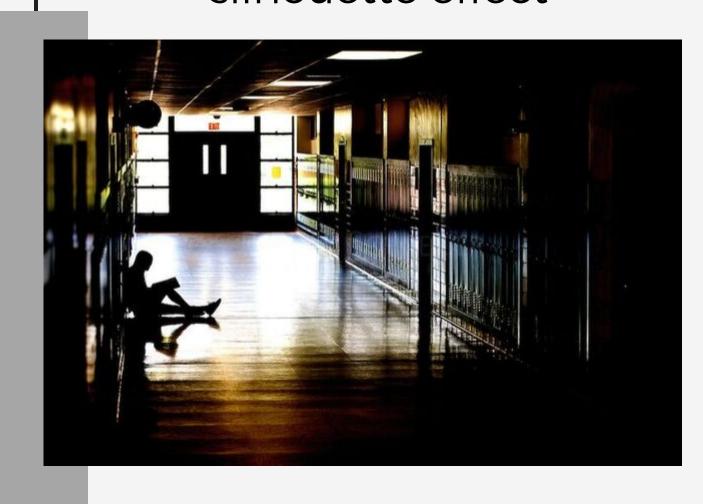
used for environmental portraits



BACKLIGHT

LIGHT SOURCE IS BEHIND THE SUBJECT

creates a dramatic silhouette effect





TOP LIGHT

LIGHT SOURCE IS ABOVE THE SUBJECT

creates a dramatic moody effect

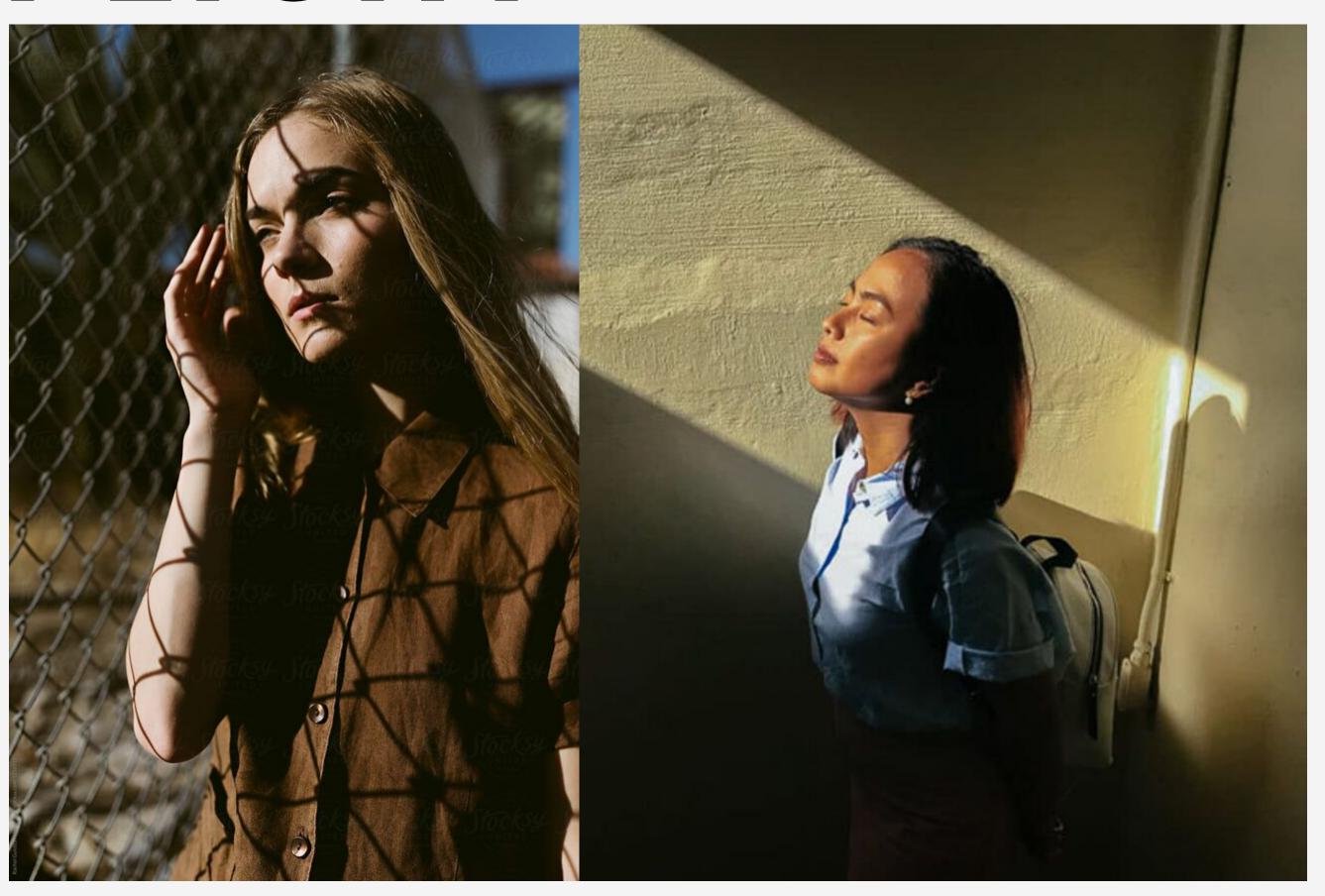




HARSH LIGHT

SUBJECT IS IN DIRECT LIGHT

creates unique sharp angular shadows



HARSH LIGHT

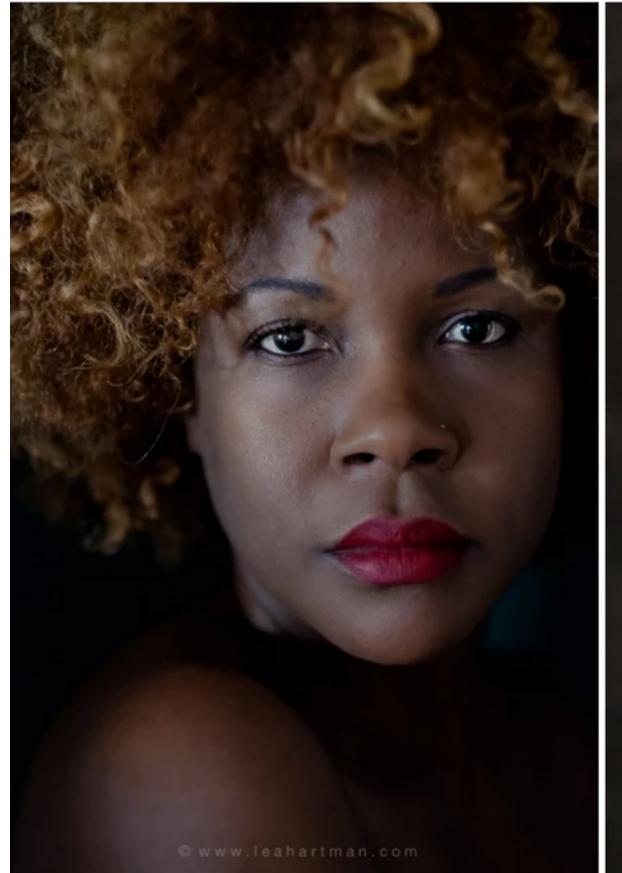
SUBJECT IS IN DIRECT LIGHT

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

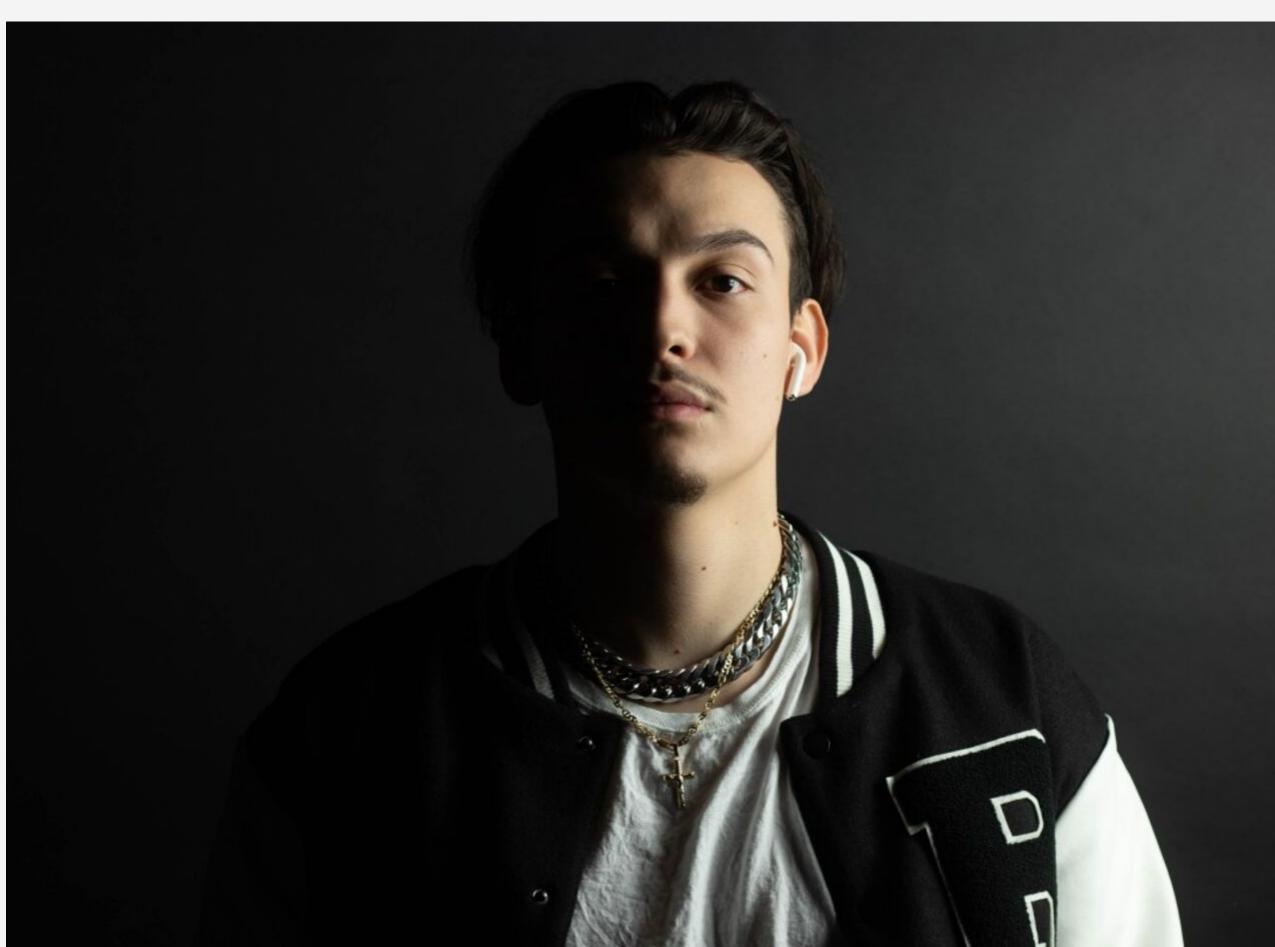
HALF THE FACE IS
LIT, HALF IS IN A
SHADOW



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?



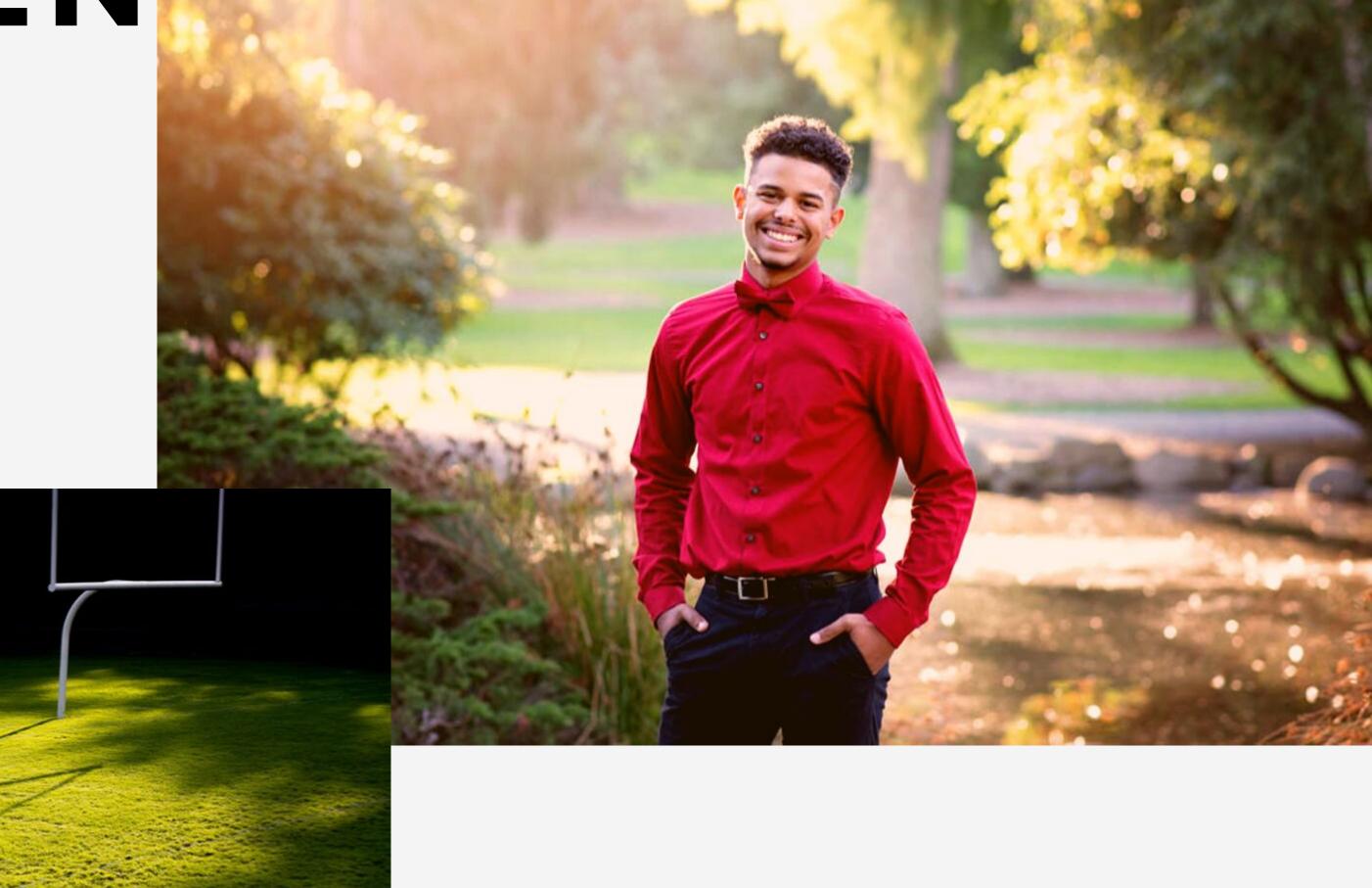
GOLDEN HOUR

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

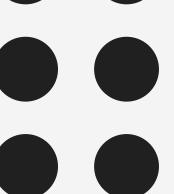




GOLDEN HOUR



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 your find throughout our school.

