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Writing with Light: Analyzing the Technical and Creative Significance of Light in Photography

Sarah Dean

Ouachita Baptist University

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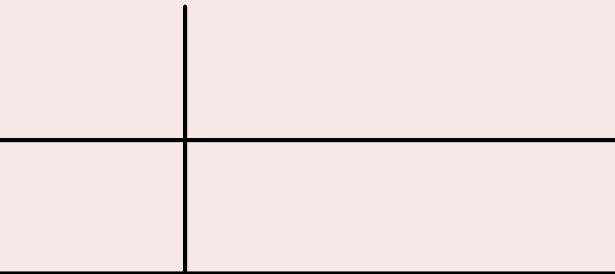
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Writing with Light:

Analyzing the Technical and Creative Significance of Light in
Photography

By Sarah Dean



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A brief
history

02

My
photography
journey

03

The technical
and creative
use of Light





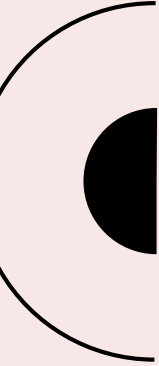
01

A brief history



The beginning

- discovery that chemicals can be altered by light
- Camera obscura
- Joseph Niepce

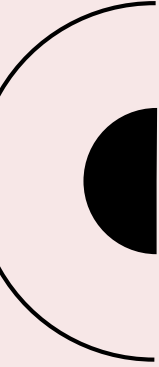




Niepce, Joseph, 1827. "Untitled." Harry Ransom Center, 2015

The beginning

- discovery that chemicals can be altered by light
- Camera obscura
- Joseph Niepce
- Henry Talbot

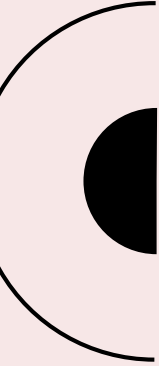




Calotype - Buckle, Samuel. "Foliage and Figures, Thorpe Park." Getty Museum Collection, 2023

The Digital World of Photography

- computer development
- Russell Kirsch






Kirsch, Russell. The first digitized photo.

The Digital World of Photography

- computer development
- Russell Kirsch
- the first digital camera created in 1975
- first commercially available camera in 1990



02

My Photography Journey

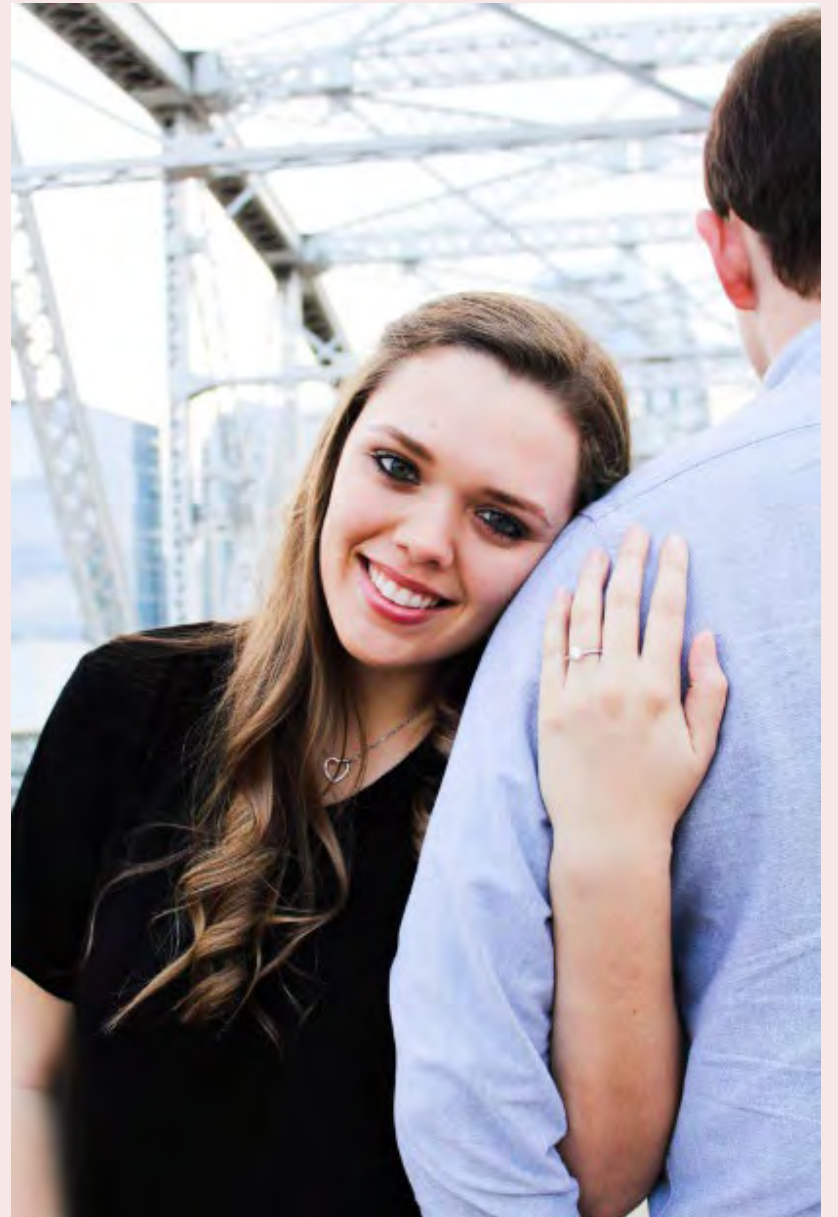
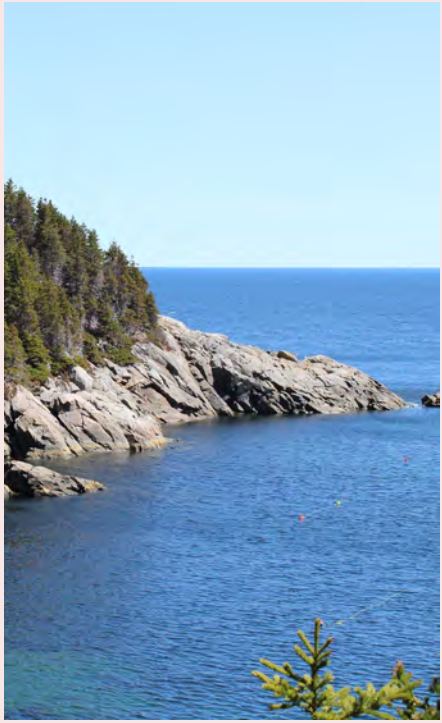


Summer camp - 2015



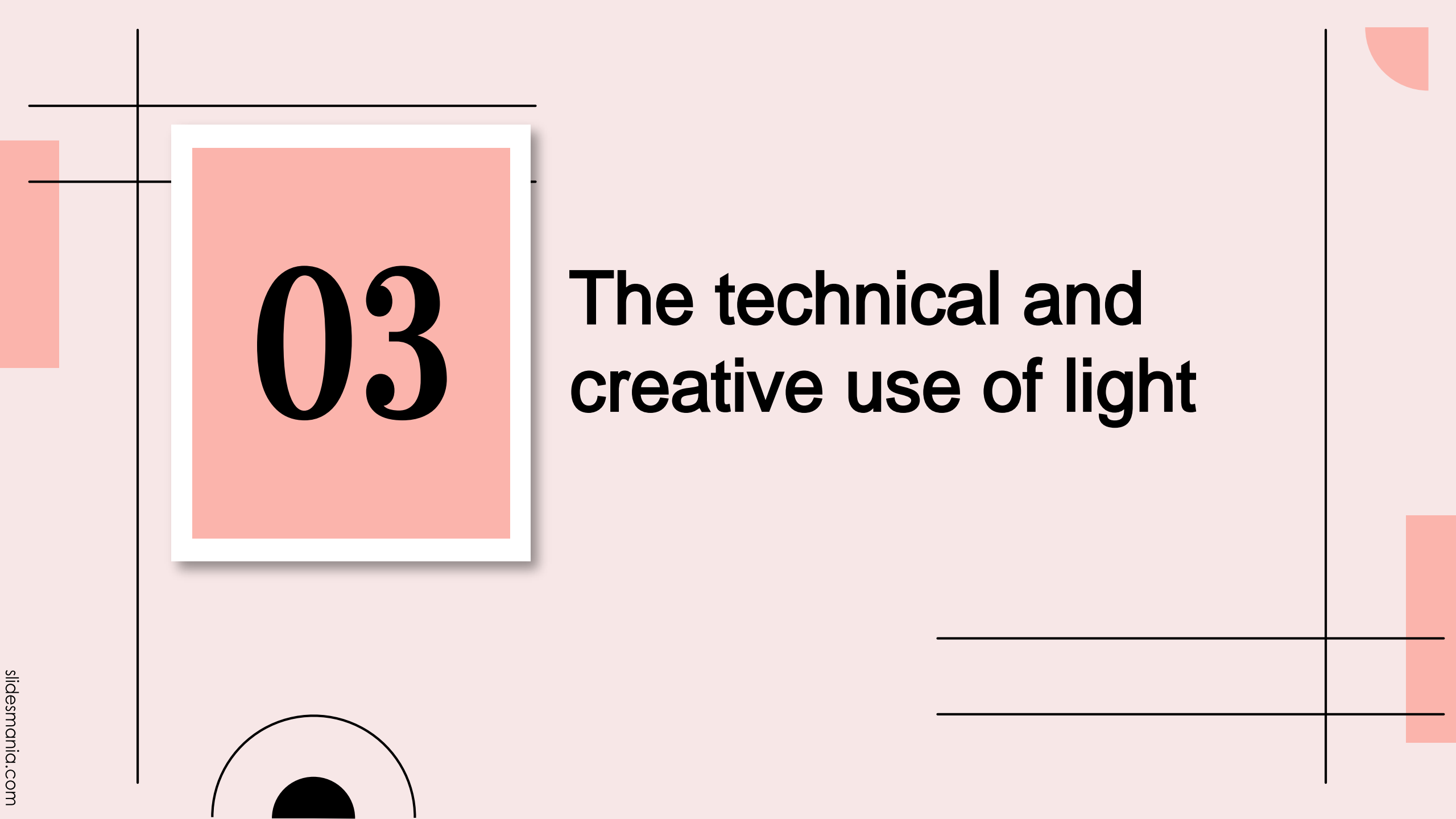
Navajo Trail - 2017







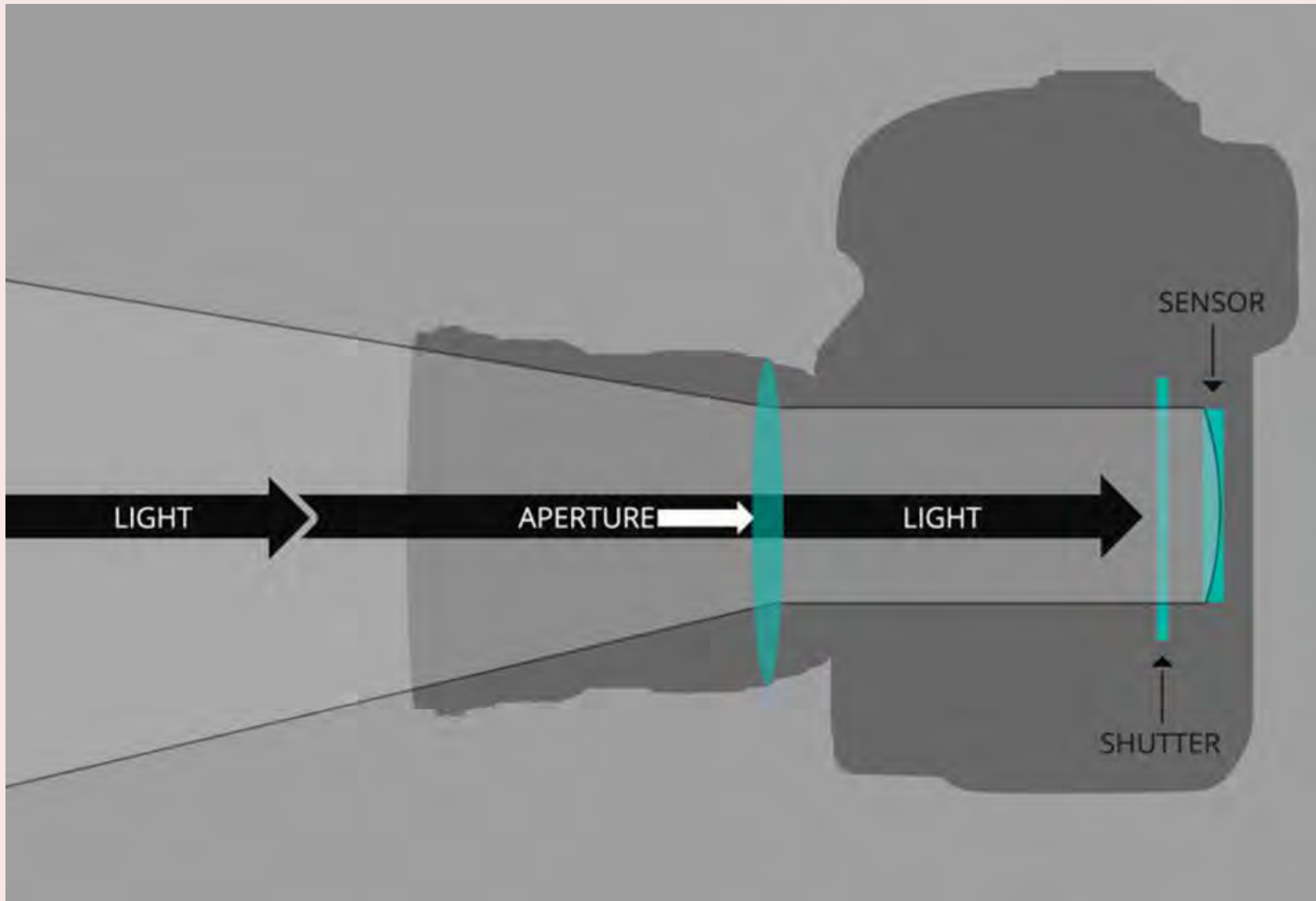




03

The technical and creative use of light

The technical use of light



<https://www.bhphotovideo.com/explora/photography/tips-and-solutions/understanding-exposure-part-1-the-exposure-triangle>

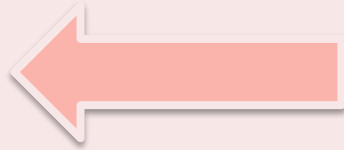
Shutter speed

- Controls how long light hits sensor
- Affects motion blur

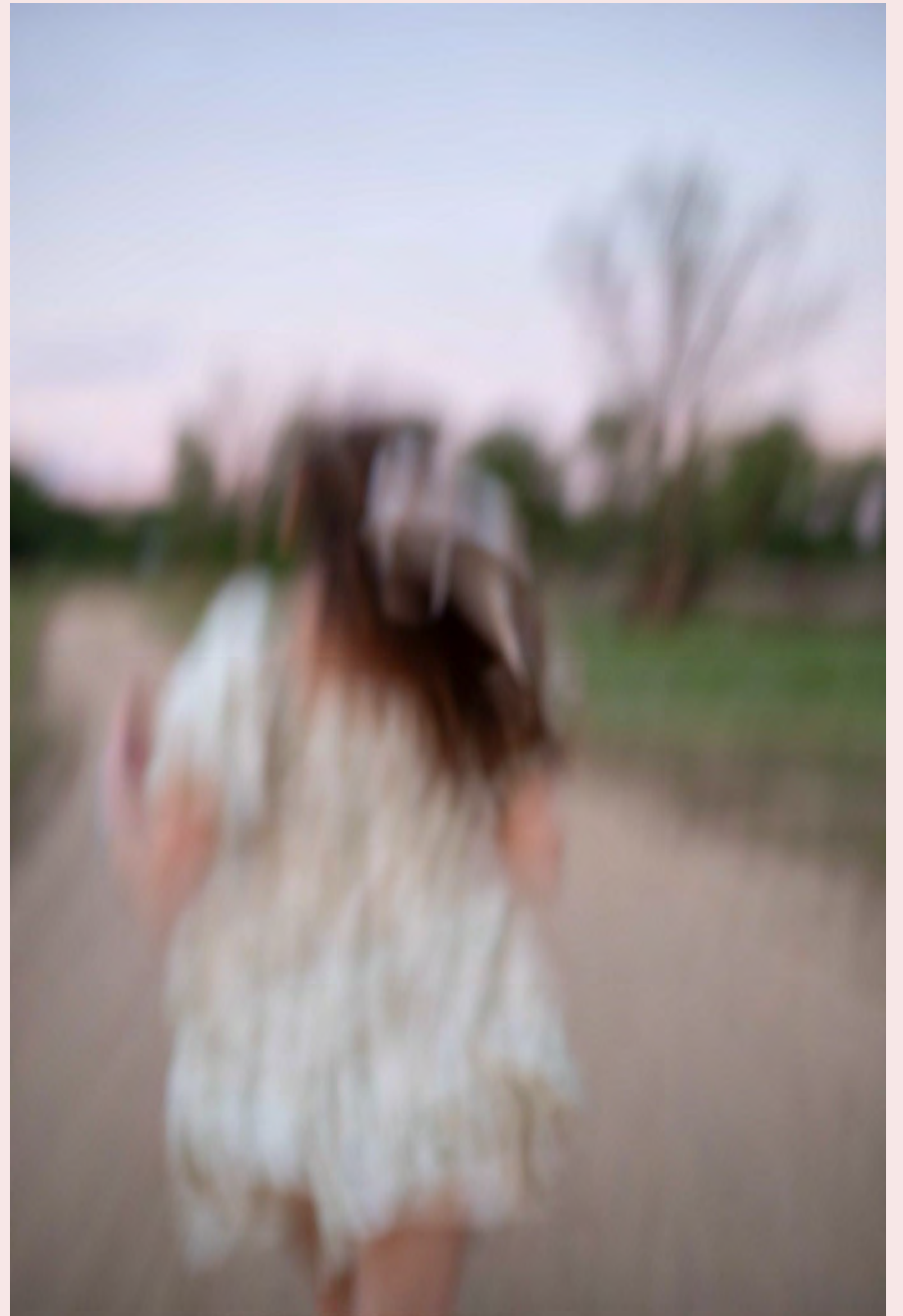




Desired blur

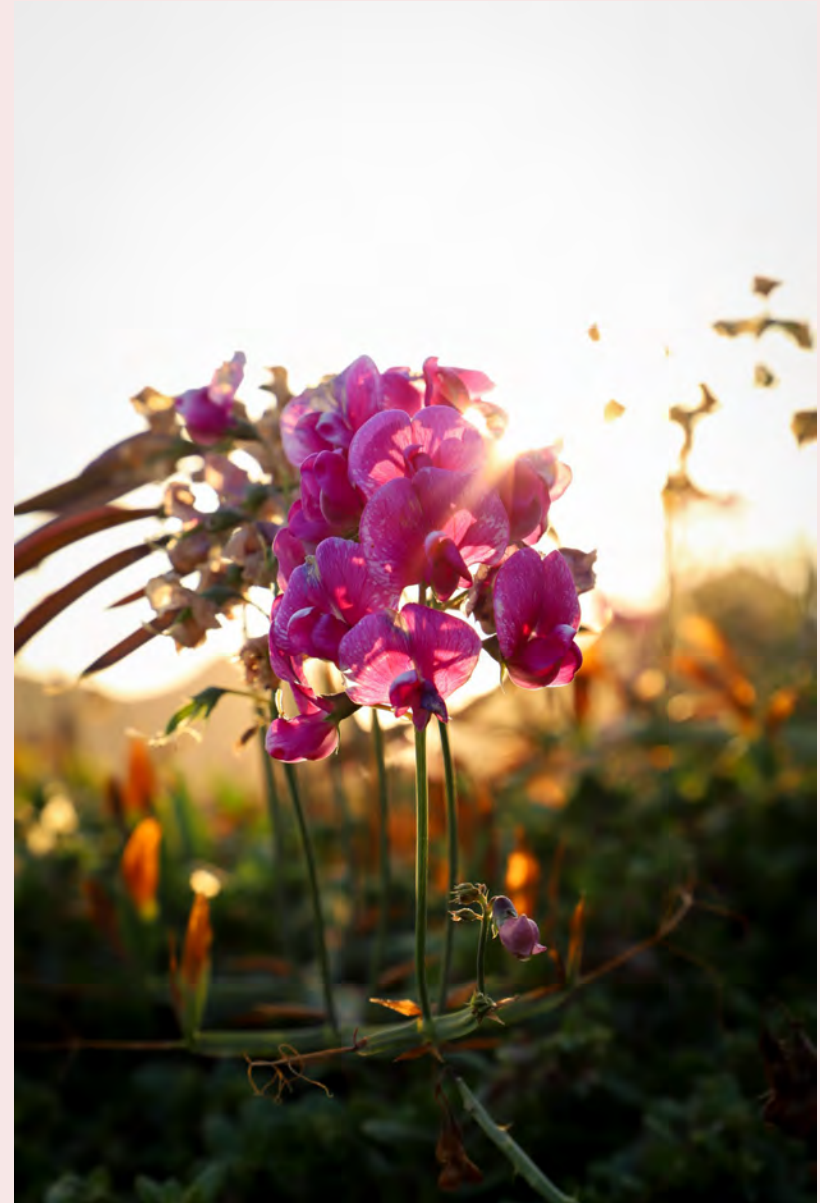


Undesired blur



Aperture

- Controls how much light goes into camera
- Effects depth of field



APERTURE / LARGE VS SMALL



f/2.8



f/4



f/5.6



f/8



f/14



f/22

<< large

small >>

APERTURE / DEPTH OF FIELD



f/2.8



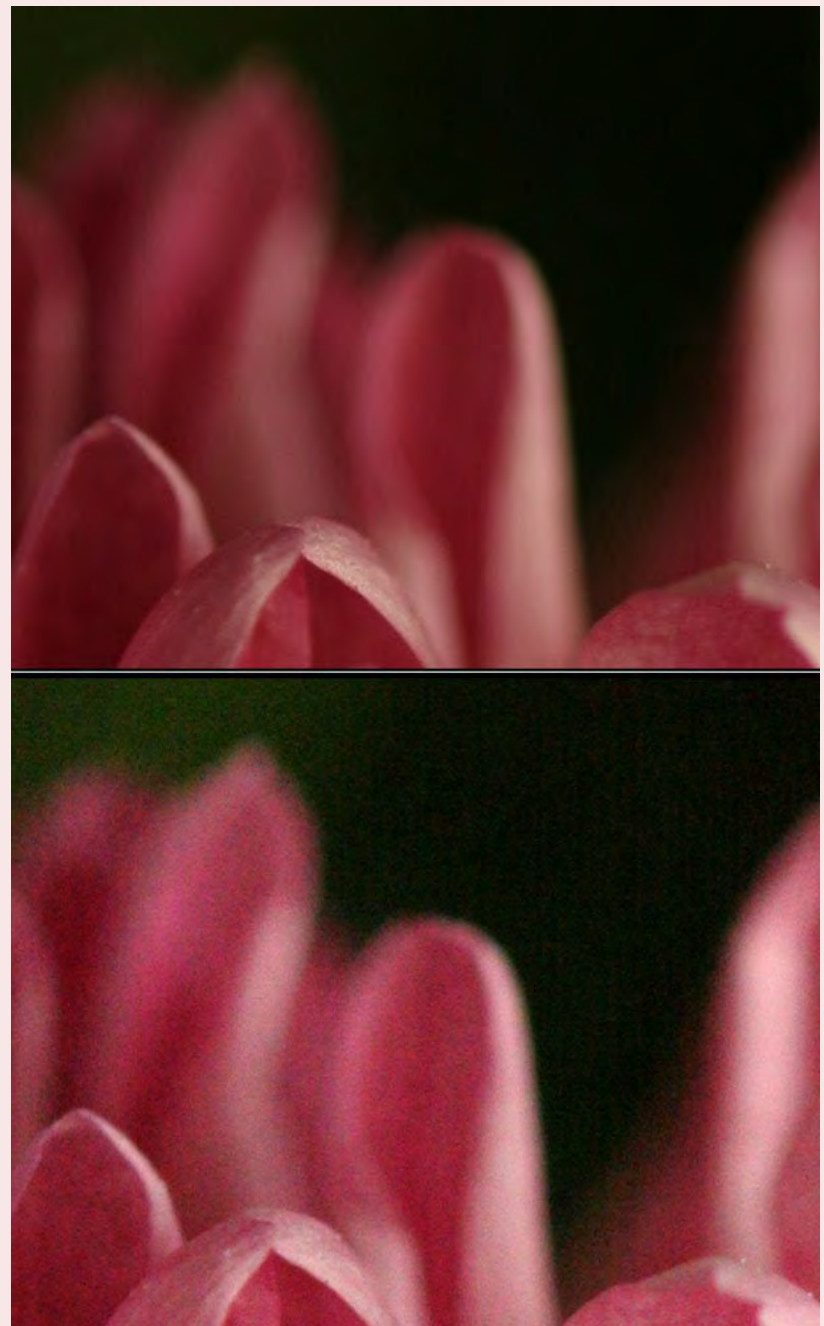
f/8



f/22

ISO

- Controls how sensitive sensor is to light
- Effects visual noise





The creative use of light

















DAYTIME

Blue light scatters easily
in the atmosphere

The sky appears blue

SUN



ATMOSPHERE



EARTH



SUNSET & SUNRISE

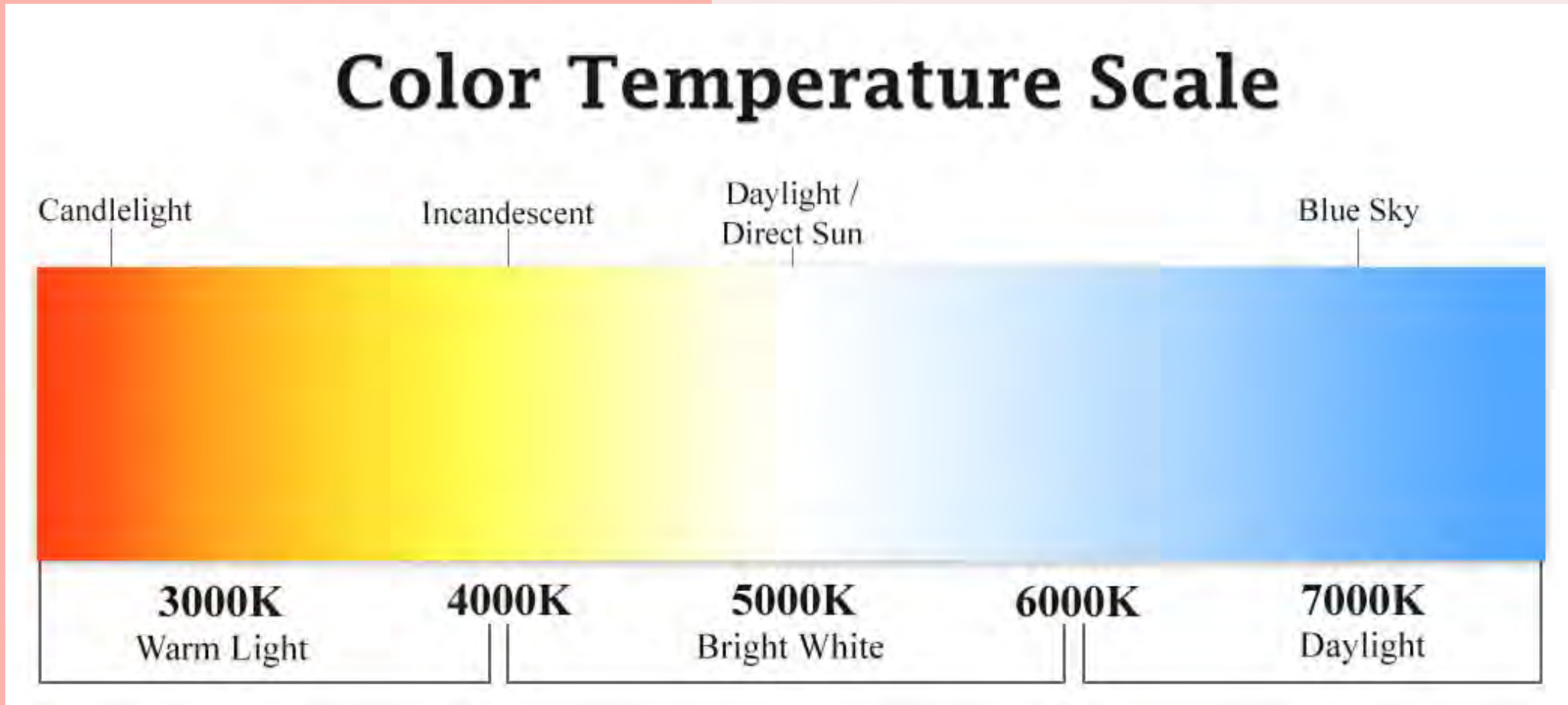


Red light scatters less
and travels farther
through the atmosphere

Sun & sky appear red

© timeanddate.com

The Kelvin Scale



Kelvin scale illustration from:
<https://commercialledlights.com/blog/lighting>

- articles/color - temperature/

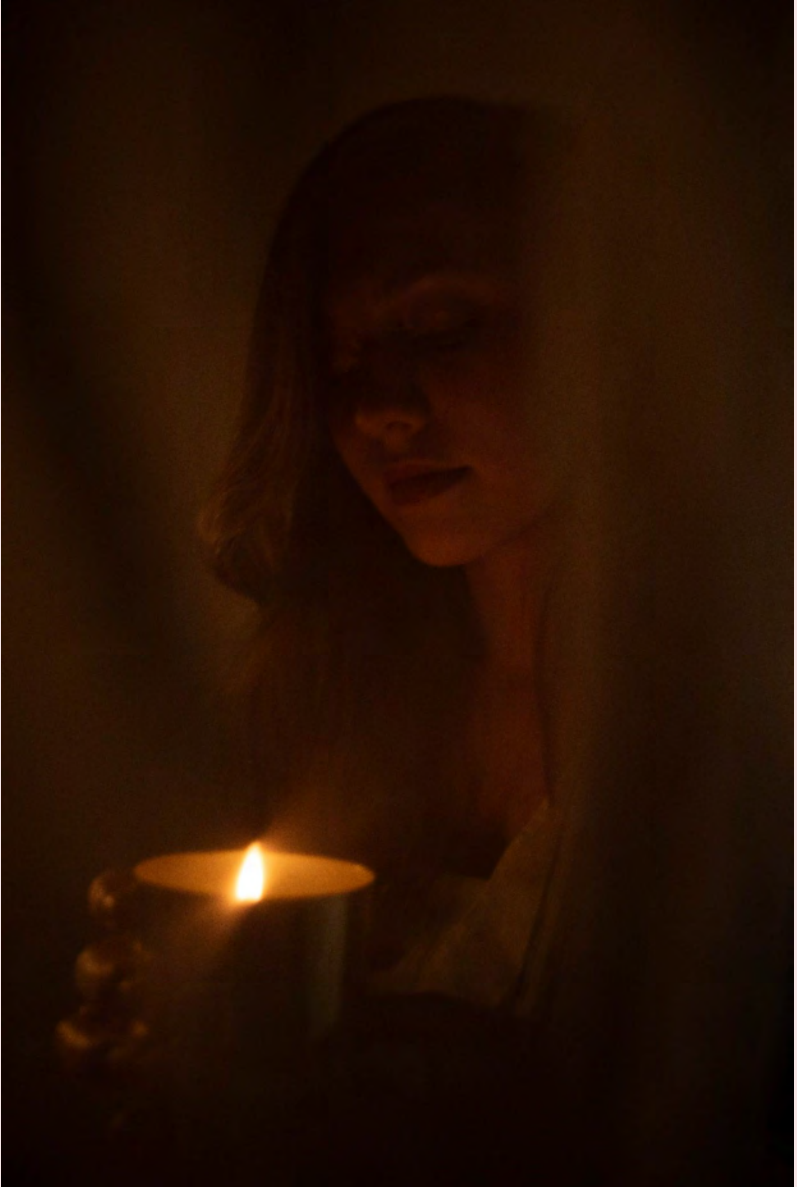














Thank you!

Do you have any questions?

Website:
sarahrdeanphotography.wordpress.com
Instagram:
[sarahrdeanphotography](https://www.instagram.com/sarahrdeanphotography)