

MassArt PCE - Intro to Digital Photo – Summer 2021- Morrison

Class 4: 6/17/21

Intro:

Photographic Motion

PHOTOGRAPHIC MOTION: MOVING SUBJECTS

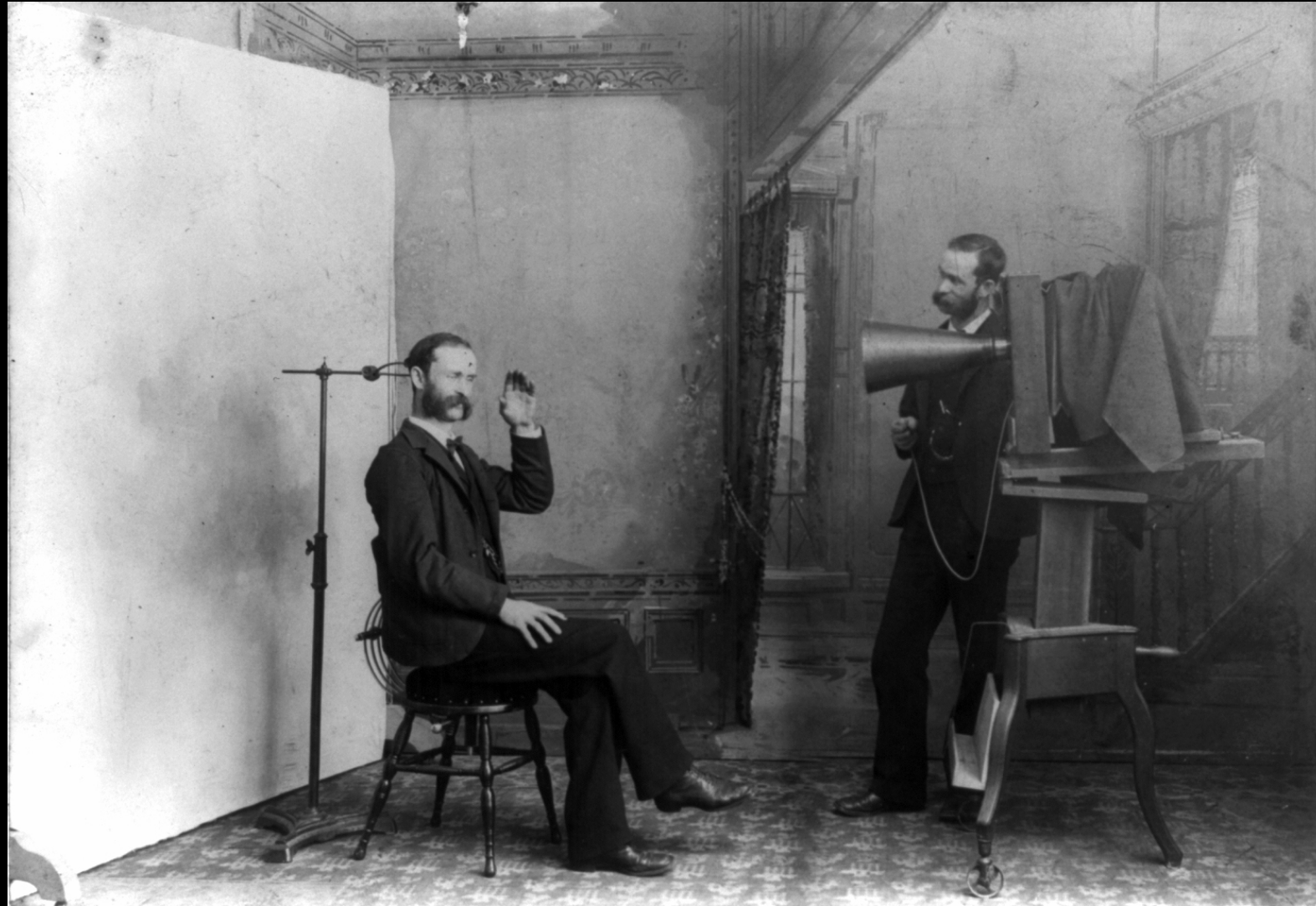
Photography has an essential relationship to motion, with the ability to **freeze motion** (*through fast shutter speeds*) or **render motion creatively** (*through slow shutter speeds*).

We've learned about how our own motion can unintentionally blur subjects when we use our cameras hand-held at shutter speeds slower than 1/30 second. Using a tripod can stabilize this motion, allowing us to shoot steady, clear shots at much slower shutter speeds, but what if our subjects themselves are moving?

BESIDES SHUTTER SPEED, there are **3 MAIN FACTORS** involved in **HOW OUR CAMERAS RENDER MOTION OF MOVING SUBJECTS** :

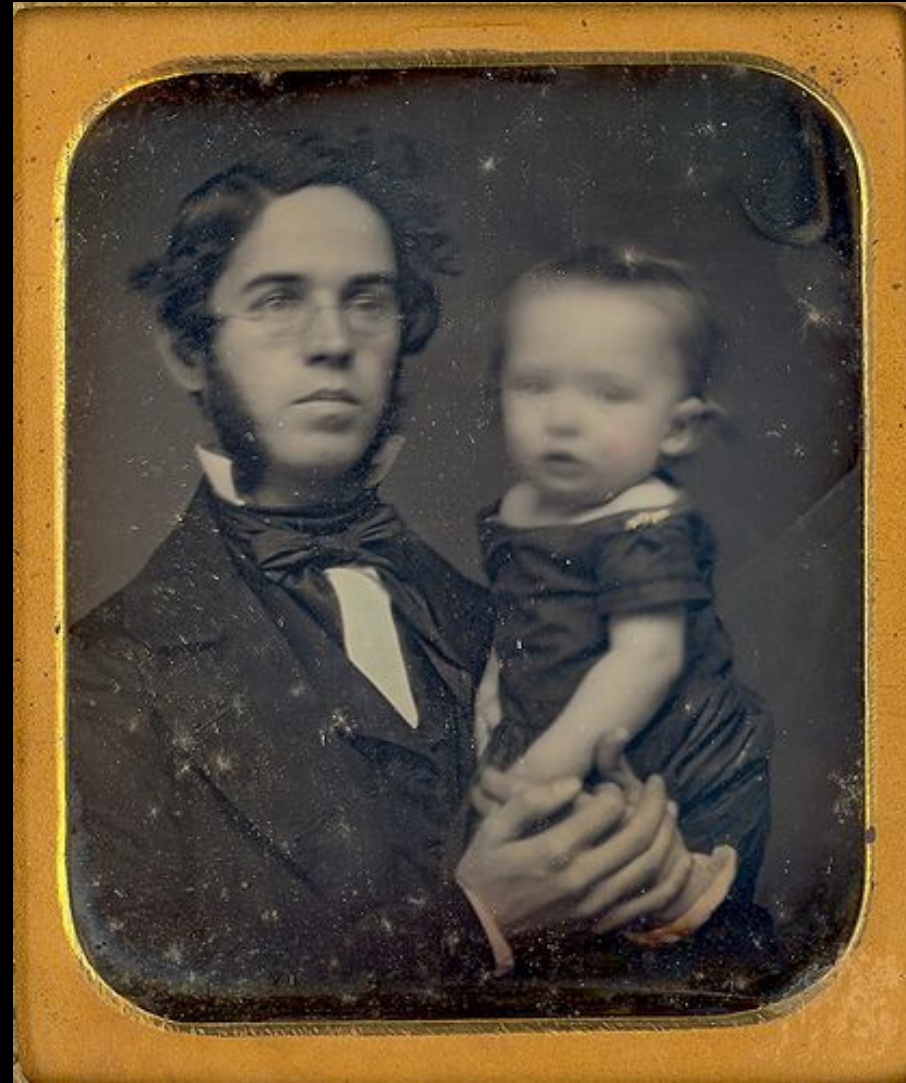
- 1.) **SPEED OF THE SUBJECT** (the faster the subject is moving, the more motion is rendered)
- 2.) **DISTANCE OF SUBJECT TO CAMERA** (the closer the subject is to the camera, the more motion is rendered)
- 3.) **DIRECTION OF THE SUBJECT'S MOTION** (with subjects moving left to right (or vice-versa) across the frame, more motion is rendered than when the subject is moving directly toward or away from the camera)

PHOTOGRAPHIC MOTION: SOME HISTORY



Daguerrotypes

PHOTOGRAPHIC MOTION: SOME HISTORY



Daguerrotypes

PHOTOGRAPHIC MOTION: SOME HISTORY



Daguerrotypes

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

*Veruschka, Dress by Kimberly, New York studio
January 1967*

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon
Veruschka, Dress by Bill Blass
January 1967

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

Jean Shrimpton, Evening Dress by Cardin, Paris

1970

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

Twiggy, Hair by Ara Gallant, Paris
January 1968

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

Malcolm X, Black Nationalist Leader, New York

March 27, 1963

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

from *Alice In Wonderland: The Forming of a Company and the Making of a Play*

1972

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

from *Alice In Wonderland: The Forming of a Company and the Making of a Play*

1972

PHOTOGRAPHIC MOTION: MOVING SUBJECTS



Richard Avedon

from *Alice In Wonderland: The Forming of a Company and the Making of a Play*

1972

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



Edweard Muybridge
The Horse In Motion
ca. 1886

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



LaToya Ruby Frazier
from *Pier 54: A Human Right to Passage*
2105

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



LaToya Ruby Frazier
from *Pier 54: A Human Right to Passage*
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PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



LaToya Ruby Frazier
from *Pier 54: A Human Right to Passage*
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PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



Neil Leifer
ALAN AMECHE SCORING WINNING TOUCHDOWN VS NY GIANTS IN "SUDDEN DEATH" OVERTIME
12/28/1958

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



Neil Leifer

Muhammad Ali reacts after his first round knockout of Sonny Liston during the 1965 World Heavyweight Title fight at St. Dominic's Arena

Lewiston, Maine

5/25/1965

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



Neil Leifer

Philadelphia 76ers forward Julius Erving (Dr. J) Dunks Against The Nuggets at The Spectrum

Philadelphia, Pennsylvania

3/9/1977

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



Ernst Haas
Swimmers, Los Angeles Olympics
1984

PHOTOGRAPHIC MOTION: FREEZING A MOVING SUBJECT



Neil Leifer
*Greg Louganis of Team USA Dives During the 1988 Summer Olympics at the Jamsil Indoor Swimming Pool
Seoul, South Korea
9/1988*

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Ernst Haas
La Suerte de Capa, Pamplona, Spain
1956

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Ernst Haas
Madison Square Garden, New York
1957

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Ernst Haas
Wild Horses, Nevada
1957

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



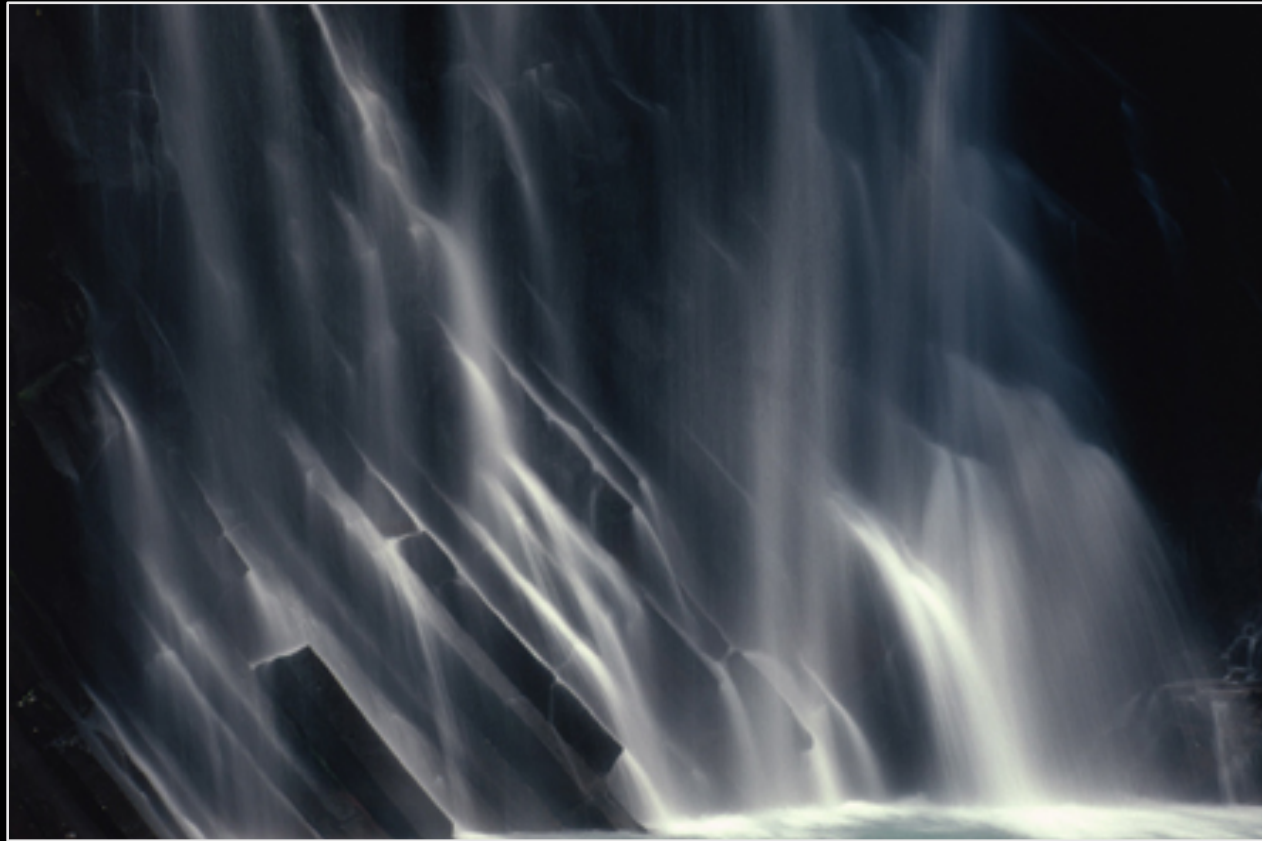
Ernst Haas
Race Cars, Indianapolis 500
1957

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Ernst Haas
Traffic, New York
1963

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Ernst Haas
Kyushu Waterfall, Japan
1981

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Ernst Haas
Lights of New York City
1972

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Francesca Woodman

Polka Dots

Providence, Rhode Island, 1976

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Francesca Woodman
Untitled, Rome, Italy
1977-78

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Francesca Woodman
House #4, Providence, Rhode Island
1975-76

PHOTOGRAPHIC MOTION: *RENDERING MOTION*



Irina Rozovsky
From *A Rock That Floats*
2017

PHOTOGRAPHIC MOTION: CAMERA MOTION

When we aim to render motion creatively, we can choose not only to photograph moving subjects, but to intentionally move our cameras, creating motion blur in different ways.

There are

3 MAIN APPROACHES

to moving our cameras in order to

RENDER MOTION CREATIVELY, WHEN PHOTOGRAPHING MOVING (AND STATIC!) SUBJECTS :

- 1.) **PANNING** (following a moving subject –usually across the frame--with our camera in an attempt to freeze the subject and create motion blur in the surroundings)
- 2.) **ZOOM PANNING** (Only possible with a zoom lens...using shutter speeds of around 1/15 second or slower, zooming in or out [changing the focal length] while the shutter is open)
- 3.) **RADIAL PANNING** (Using shutter speeds of around 1/15 second or slower, moving our camera in a circular motion while the shutter is open)

Photographic Motion: Moving Camera (Panning)



Standard cross-frame panning

Photographic Motion: Moving Camera (Panning)



Standard cross-frame panning

Photographic Motion: Moving Camera (ZOOM Panning)



Zoom panning

Photographic Motion: Moving Camera (ZOOM Panning)



Radial panning

PHOTOGRAPHIC MOTION: LONG EXPOSURES WITH A TRIPOD

DSLRs have 3 main settings for slow shutter speed:

1. A maximum slow speed (often 30 seconds).
2. B (bulb) exposures— holding down the shutter release button for the duration of the exposure.
3. T (timed) exposures, when the shutter release is pressed once to start and once to end the exposure.
Most DSLRs require a special remote for this setting).

PHOTOGRAPHIC MOTION: *LONG EXPOSURES ON A TRIPOD*



PHOTOGRAPHIC MOTION: *LONG EXPOSURES ON A TRIPOD*



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PHOTOGRAPHIC MOTION: *LONG EXPOSURES ON A TRIPOD*



Kris Graves
The Murder of Akai Gurley, Brooklyn, New York
From A Bleak Reality
2016

PHOTOGRAPHIC MOTION: *LONG EXPOSURES ON A TRIPOD*



Photographic Motion: ASSIGNMENT

Due by 1:1 Sessions on 6/22/21:

Shoot 100 images, comprised of some combination of the following (try all techniques):

- **Photographing Moving Subjects**
- **Photographing with a moving camera (panning—all kinds)**
- **Freezing motion with fast shutter speeds**
- **Rendering Motion creatively with slow shutter speeds**

Offload images by the start of our individual and small group meetings next week.

*On Tuesday 6/22, we will do a brief JPEG EXPORTING workshop, covering the full system for creating the final files to upload Google Drive for critiques.

*All students upload **8 final, processed JPEGs to Google Drive by 5pm on Thursday 6/24:**

***4 DoF / 4 Motion**