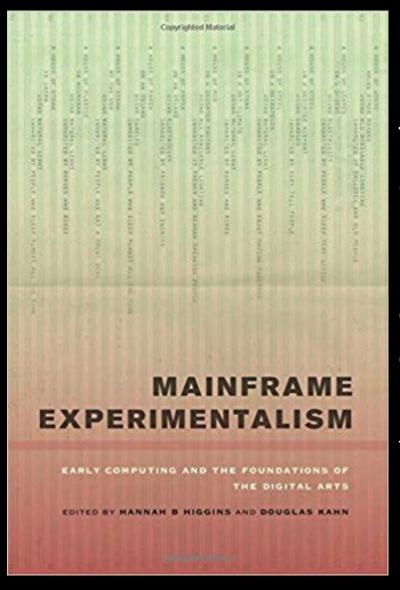
AHST 4342-501 (27532)
History of Media and New Media Art
Spring 2018
Dr. Charissa N. Terranova
University of Texas at Dallas
Arts & Humanities
T-Th 1:00-2:15

Tuesday 02/06/18

Experimentalism: From Film to Montage



E.H. Gombrich, in *The Story of Art*, characterizes the first half of the twentieth century by the term *Experimental Art*. In this broader sense innovations in process and material involve an experimental attitude linking the futures of art to the past through a changing sense of art as linked to artists' everchanging worlds.

-- Hannah B. Higgins and Douglas Kahn, Mainframe Experimentalism, p. 4

experimentalism

artists' ever-changing worlds

Experimentalism: From Film to Montage

Persistence of Vision – Biological/Wet

Frames Per Second – Mechanical/Dry

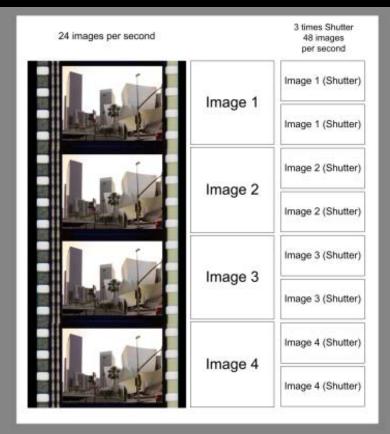
Rise of Cinema and Time-Based Art

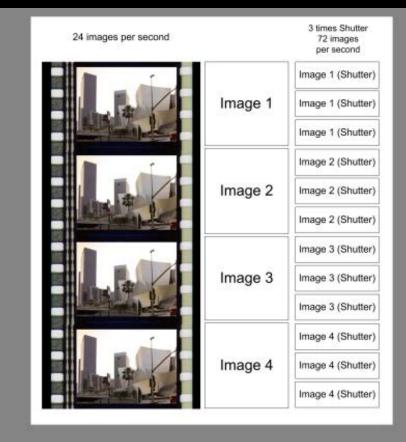
Principles of Animation

- Animation is possible because a biological phenomenon known as persistence of vision and a psychological phenomenon called as phi.
- An object seen by human eye remains chemically mapped on the eye's retina for a brief time after viewing.
- This makes it possible for a series of images that are changed very rapidly to blend together into illusion of movement.

early film 14 frames per second

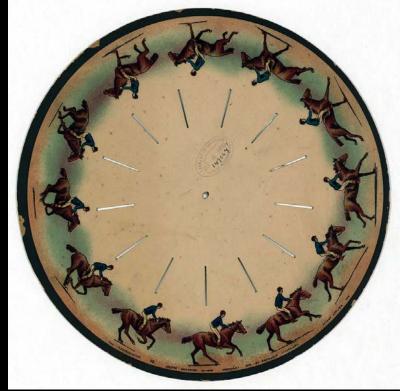
sound film 24 frames per second





Frames Per Second FPS

24 movie frames with a triple shutter to create 72 images per second



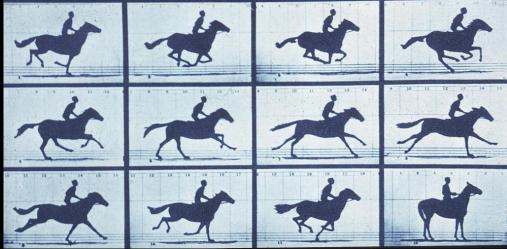
zoopraxiscope

Muybridge conceptualized the zoopraxiscope in 1879 and then it was built for him by January 1880 to project his chronophotographic pictures in motion. Muybridge used the projector in his public lectures from 1880 to 1895. The projector used 16" glass disks onto which Muybridge had an unidentified artist paint the sequences as silhouettes.



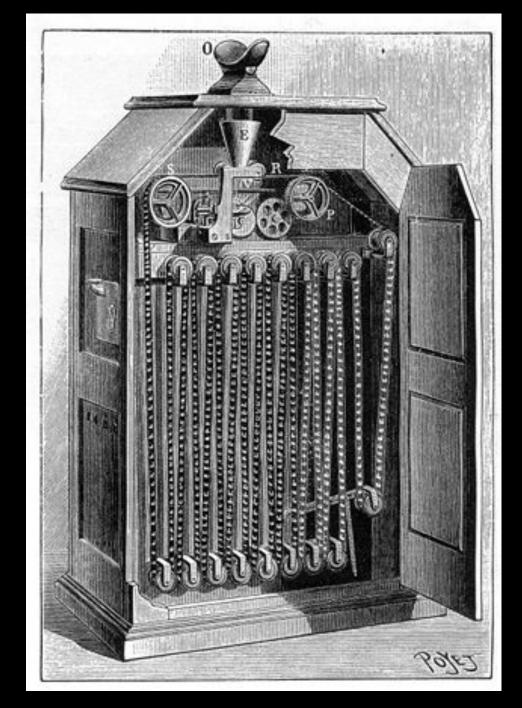


August 31 1897,
Thomas Edison
received a patent
for his kinetograph,
also known as the
kinetoscope, a
camera which used
celluloid film, and
which was the
forerunner of the
movie camera



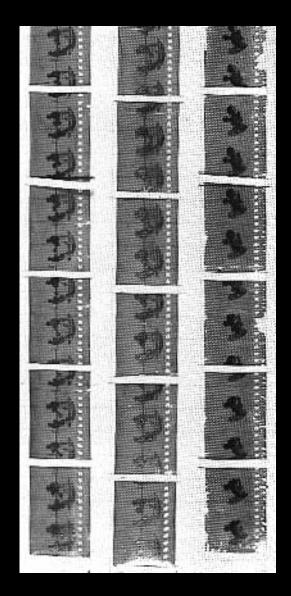
Eadweard J. Muybridge, Galloping horse (Sallie Gardner running), 1878

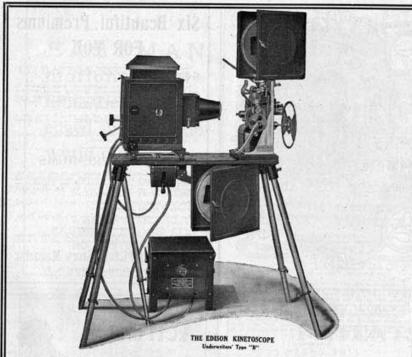
An encounter with the work and ideas of photographer Eadweard Muybridge appears to have spurred Edison to pursue the development of a motion picture system. On February 25, 1888, in Orange, New Jersey, Muybridge gave a lecture using the zoopraxiscope which projected sequential images drawn around the edge of a glass disc, producing the illusion of motion. The Edison facility was very close by, and the lecture was likely attended by both Edison and his company's official photographer, William Dickson. Two days later, Muybridge and Edison met at Edison's laboratory in West Organge; Muybridge later described how he proposed a collaboration to join his device with the Edison phonograph—a combination system that would play sound and images concurrently.



The word "kinetoscope" is derived from the Greek roots kineto ("movement") and scopos ("to view"). The machine creates the illusion of movement by conveying a strip of perforated film bearing sequential images over a light source with a high-speed shutter.

Thomas Edison, Kinetoscope, 1891-97





WHY isn't your motion picture show making you the great big money you read about? How is it that the man in the next block can show the same pictures you do—and take the crowds away from you? We'll tell you. It's all in the machine—you need an

EDISON KINETOSCOPE

The Edison wins the crowd because it projects Edison Kinetoscope saves the extra money it clear, flickerless pictures that don't tire the eyes makes, because it runs the longest time with the

and are a real pleasure to look at. There are no least upkeep expense. Get Posted. Send for Cat-discouraging "intermissions for repairs". And the alog 500 and a copy of the Edison Kinetogram.

Price, with Rheostat, 110 volts, 24-40 amperes - \$225.00 Price, " 110 volt, 60 Cycle Transformer - 245.00

THOMAS A. EDISON, Inc., 274 Lakeside Avenue, Orange, N. J.

In writing to advertisers please mention "MOVING PICTURE NEWS"



Interior of the Kinetographic Theater, Edison's Laboratory, Orange, N J, Showing Phonograph and Kinetograph Drawing of Edison's Black Maria film studio by E. J. Meeker, June 1894



Kinetoscope parlor, San Francisco, ca. 1894–95
The machines were purchased from the new Kinetoscope Company, which had contracted with Edison for their production.

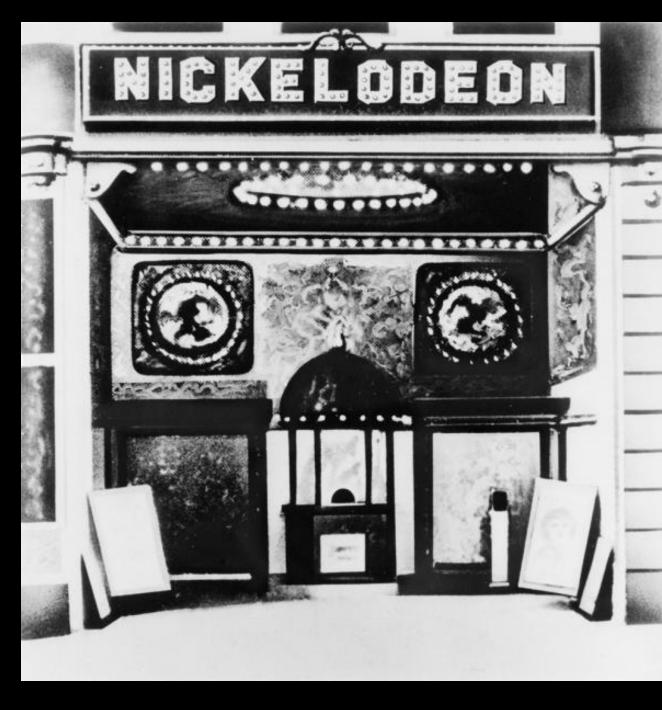


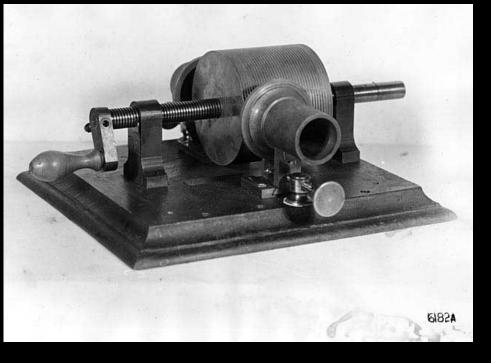


Evolution of the Nickelodeon

WKL Dickson and Hermann Casler, Mutoscope, 1890-95

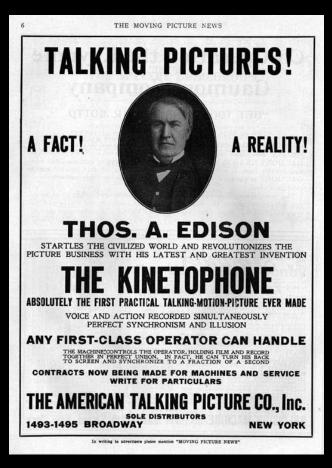
Flipped pictures while cranked



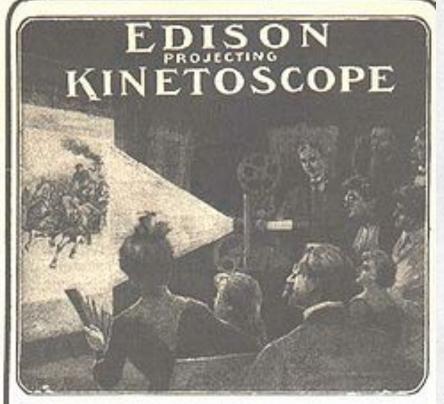


Edison Cylinder Phonograph





Thomas Edison, Kinetophone or Phonokinetoscope, 1893



It is unequalled for HOME ENTERTAINMENT. The improved machine is now so simple that an amateur can operate it. Projects both moving pictures and stereopticon slides on the screen. The mechanism is turned by hand. If electric current is not in your town or in your house, we give you choice of other ways of making the light. Our catalogues give complete information and lists of moving pictures.

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VOICE AND ACTION RECORDED SIMULTANEOUSLY PERFECT SYNCHRONISM AND ILLUSION

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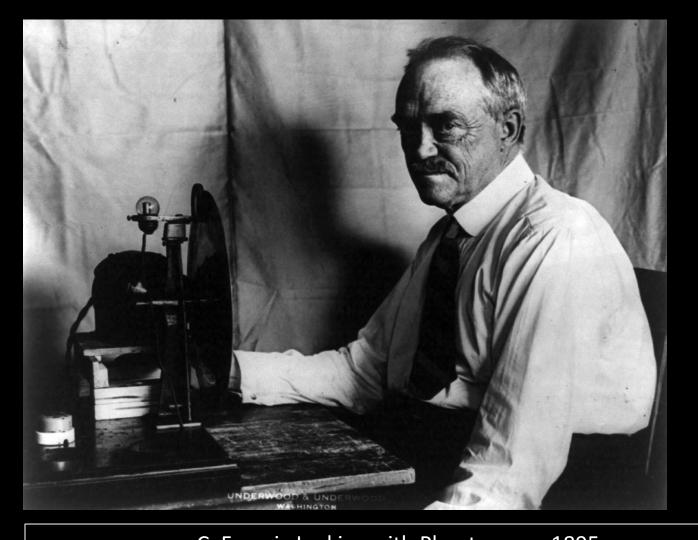
THE MACHINE CONTROLS THE OPERATOR, HOLDING FILM AND RECORD TOGETHER IN PERFECT UNISON. IN FACT, HE CAN TURN HIS BACK TO SCREEN AND SYNCHRONIZE TO A FRACTION OF A SECOND

CONTRACTS NOW BEING MADE FOR MACHINES AND SERVICE WRITE FOR PARTICULARS

THE AMERICAN TALKING PICTURE CO., Inc.

1493-1495 BROADWAY

NEW YORK



C. Francis Jenkins with Phantoscope 1895
In 1894, Jenkins staged the first "movie" show. He shipped his motion picture projector, which he called a phantoscope, from Washington to Richmond. In the jewelry store of his cousin, Charles Jenkins, at 726 Main in Richmond, Indiana, he projected pictures of a dancer performing a

"butterfly dance" onto the wall,

It Works!

YOU can now sujey radiovision programs. Bon't waste time, money and patience trying to work out your own equipment. Start right with Jenkins apparatus in convenient kit form or in ready-to-use form. Jenkins self-synchronous feature makes reception possible wherever signals are heard. Jonkins receivers, combined with Jenkins radiovisors, provide real television entertainment.

RK-1 JENKINS RADIOVISOR KIT

Complete bit of perms fully manifold, using he beautiful and when Magniful Intelles, first talk weather, includenting that, notice, standing must large themselves, and the same and the sa

JENKINS TELEVISION RECEIVER KIT

To these in relations algorith, surplus a Society, collection contact. Usual stantages are not estilictative for each retails, \$2 min with it healt produced one sensitive. One sensitive and a produce and the contact of the produced and write in a level beaut. FIRST, \$55.50.

Ge if you make a made made modern, there in Ergs 5 for one with Entheriest on common A.C. power system for automatic symplectation. PRICE, 1984 is, Taken Ergs, Type JS, with collectational power engage, is then confide for those makelin common power system are.

One-dist immiss. A.II. operation, highest type amplifier, rangle extract for helitant physicism, self-contained power parts, startly allowed, change, are festiven at Justice andistions notices.

READY-TO-USE EQUIPMENT

If you probe assembled engineers, ready to use these is the Model 150 Badderless, finance compression as REA life, but including less assembly and much reads have. Finished as Contact life the laterality or lesses can Two-state square lesses. But appropriate all achieves reclined. TRUMS 18034. Later water.

Marke 250 Radiorinov is intended for interception are. Delete majorit maleut, there extract Extractions image. A.C. symbols and PRICE EDSAR. Large extra. Made. 251 Radiorinor. Believe weights, related. Self-conductated by incoming signals. Proceedings image. PRICE: 118.58. Large entra.



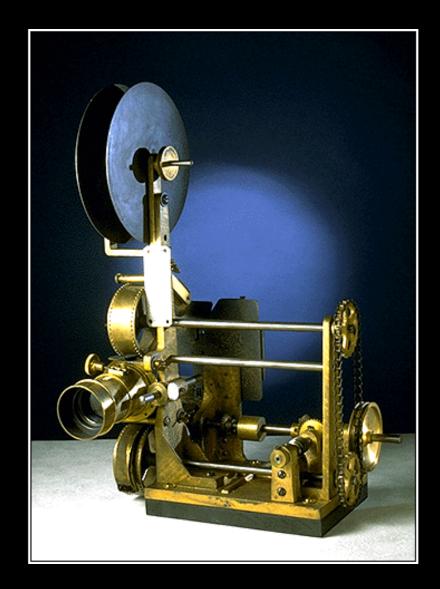


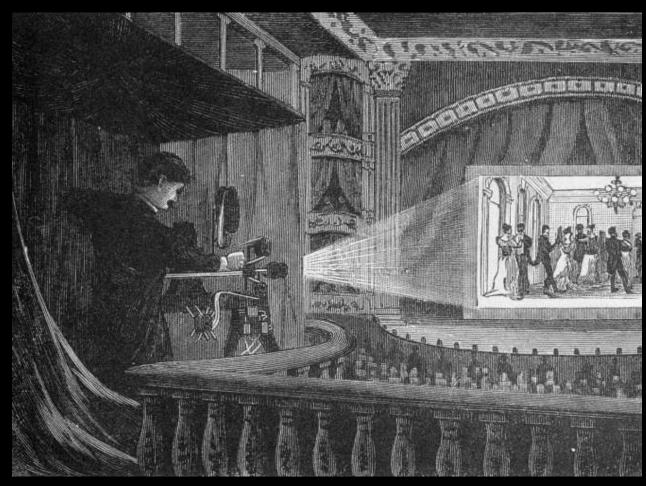
reties as and dealer! The ready for experimentary service may need the first to get his theretains! Experience the Shells of pinner breakfest days of one again." Just 11 and and man reages below.

Later, in 1924, Charles Jenkins invented a mechanical television system he called radiovision.



The Edison Manufacturing Company agreed to manufacture the phantascope and to produce films for it, but on the condition it be advertised as a new Edison invention named the Vitascope. The Vitascope's first theatrical exhibition was on April 23, 1896, at Koster and Bial's Music Hall in New York City. Other competitors soon displayed their own projection systems in American theaters, including the re-engineered Eidoloscope, which copied Vitascope innovations; the Lumière Cinématographe, which had already debuted in Europe in 1895; Birt Acres' Kineopticon; and the Biograph which was marketed by the American Mutoscope Company.





Thomas Edison, Vitascope, 1896

EDISUI

1901 MODEL PROJECTING KINETOSCOPE

PREPARING.

LAURA COMSTOCK'S BAG PUNCHING DOG.......(Code word, Ungainful) 100 ft. Shows Laura Comstock's Wonderful Trick Dog, Mannie, punching the bag. Very clear and realistic. Full of action. We also farnish an excellent 50ft, strip. (Code word, Ungainly.)

PIE, TRAMP AND BULL DOG.................(Code word, Ungalles.) 75 ft.
Tramp enters, sees buil dog in kennel. Retreats, re-enters on stilts. Starts eating ple from a shelf. Bull dog jumps from window, throws tramp and shakes him up.

GORDON SISTERS HOXING (Code word, Ungallant) 100 ft. Champion Female Boxers of the World.

We also furnish an excellent 50 ft, strip.......(Code word, Ungartered)

HAPPY HOOLIGAN'S APRIL FOOL......(Code word, Unellig) HAPPY HOOLIGAN'S SURPRISE......(Code word, Uneinlig) WHY BRIDGET STOPPED DRINKING(Code word, Unedibor) 75 ft.

MONTREAL PIRE DEPARTMENT ON RUNNERS. (Code word, Unedifying) 100 ft.

LOVE BY THE LIGHT OF THE MOON......(Unedonem) 65 ft.

A DONKEY PARTY.....(Uneducate)
The Greatest Myterious Picture over made is now ready.

MYSTERIOUS BLACKBOARD...... (Code word, Ungarina) 100 ft.

Our Latest Films Are Being Exhibited Daily at the Following New York Theatres: Proctor's Four Houses, Tony Pastor's and Eden Musco, Which is a Strong Recommendation as to Their Merit. You Should Follow in Their Footstops.

Send in your name and ask for our Special Advance Lists of the Latest New Films. These are All Winners. If you want to get subjects worth owning, send for our Latest Supplements and Advance Lists.

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THE PRICE OF FILMS IS \$15.00 PER 100 PEET. Shorter or Longer Lengths in Proportion.

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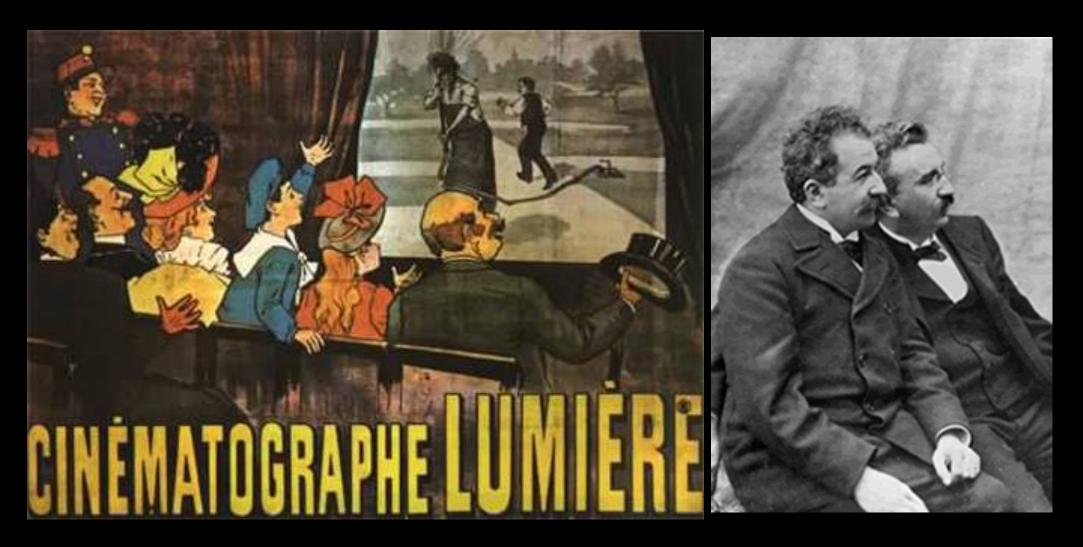
Thomas Edison, Projecting Kinetoscope, 1896



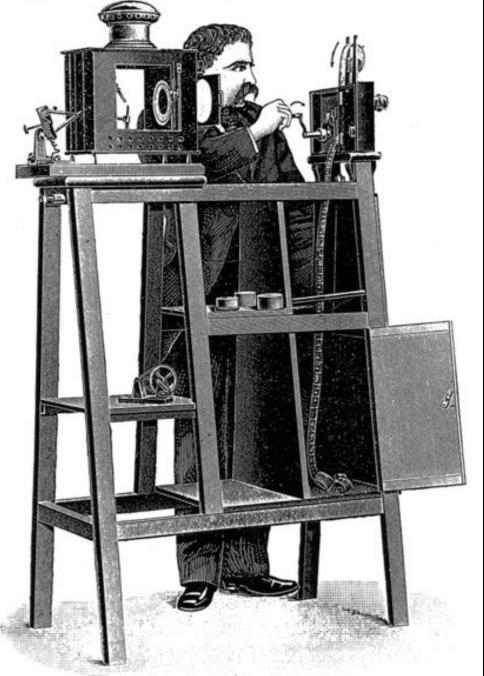
Edison Film, Enchanted Drawing, 1900



Edison Film, Gordon Sisters Boxing, 1901 https://www.youtube.com/watch?v=CPG



Auguste Lumière [1862-1954] Louis Lumière [1864-1948]



Le cinématographe Lumière: projection.



Much smaller and lighter than Edison's Kinetograph, le cinématographe Lumière weighed around 11 pounds and operated with the use of a hand-powered crank.

Lumière Brothers, 10 Early Films, 1895

https://www.youtube.com/watch?v=4nj0vEO4Q6s
https://www.youtube.com/watch?v=JGugm8Dzmuc

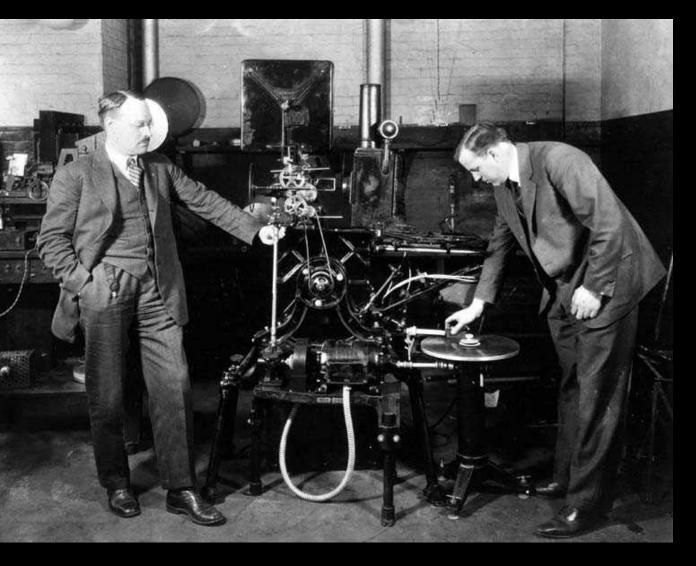
- 1. Leaving the Lumière Factories in Lyon
- 2. Horse Trick Riders
- 3. Fishing for Goldfish
- 4. The Disembarkment of the Congress of Photographers in Lyon
- 5. Blacksmiths
- 6. The Gardener, or The Sprinkler Sprinkled
- 7. Baby's Breakfast
- 8. Jumping Onto the Blanket
- 9. Cordeliers Square in Lyon
- 10. The sea (Bathing in the Sea)

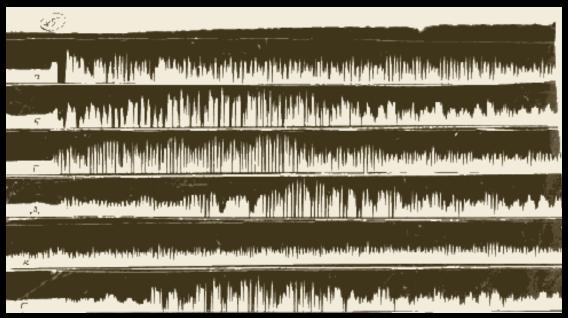






Al Jolson in The Jazz Singer, first talky, film with sound, 1927; Directed by Alan Crosland





Optical Sound-on-Film

Motion Picture Sound, Sound-on-Disc technology, 1910-1929

http://www.youtube.com/watch?v=0ekWozMjFW0

Film: Effects on Painting



The Rise of Cubism

Photography

Film

Photograph of Pablo Picasso, 1916



Analytical Cubism

Pablo Picasso, Portrait of Kahnweiler, 1910



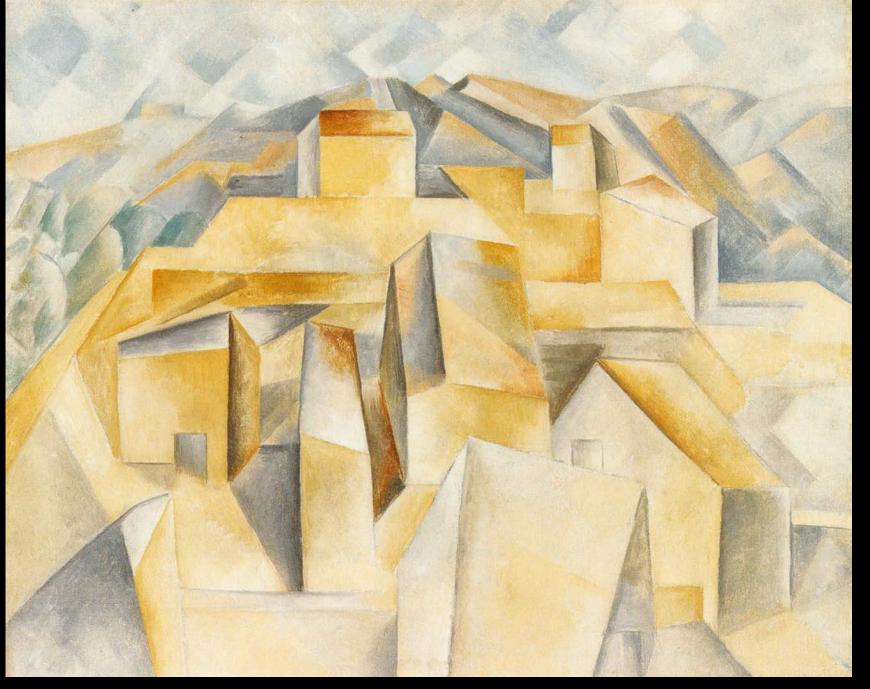
Pablo Picasso, Guitar, sheet metal and wire, 1912







Reliquary figure and mask from Gabon, Africa. 19th-20th Centuries



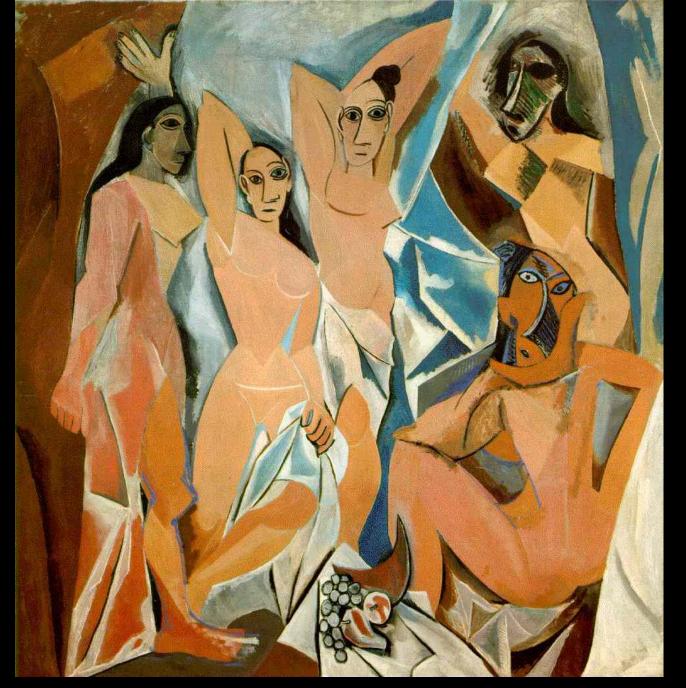
Pablo Picasso, Houses on the Hill, Horta de Ebro, 1909





Above: Pablo Picasso, Houses on the Hill, Horta de Ebro, 1909 Right: Pablo Picasso, Landscapes, Horta de Ebro, 1909



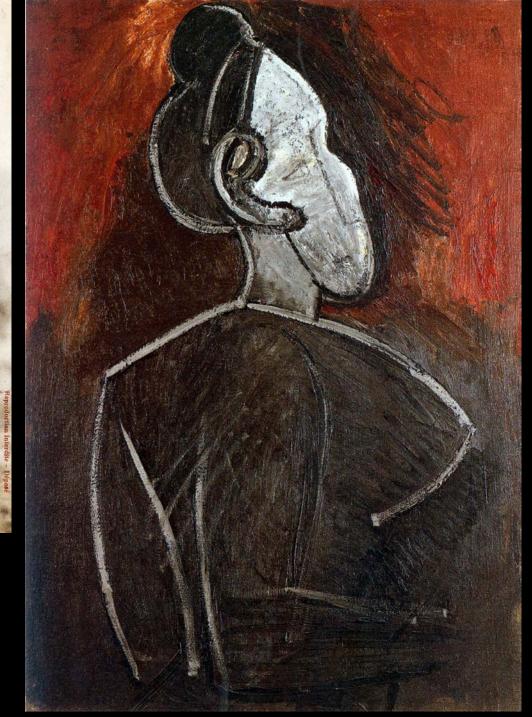


Pablo Picasso, Les Demoiselles d'Avignon, 1907



Edmond Fortier, Malinké Woman, 1906

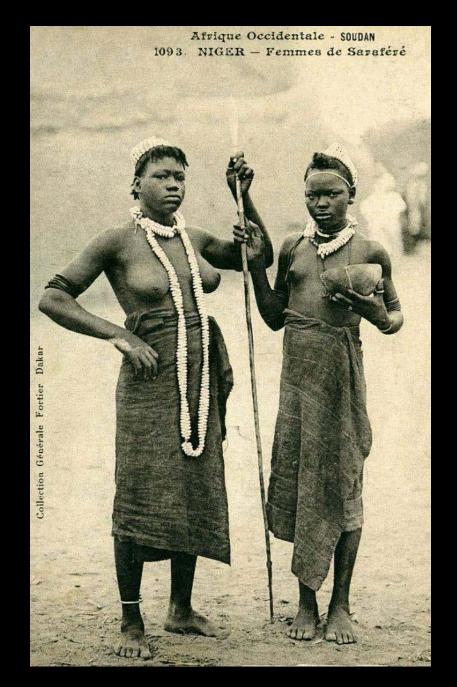
Pablo Picasso, Profile of a Woman, 1906-07





François-Edmond Fortier (1862-1928)



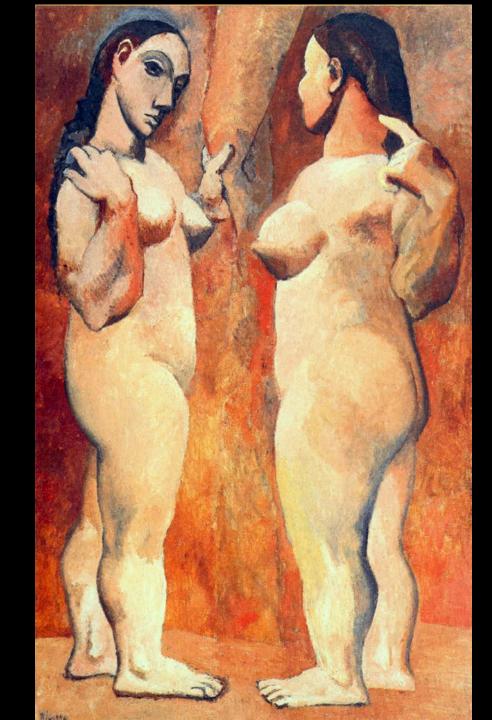






Edmond Fortier, Bobo Couple, 1905-06

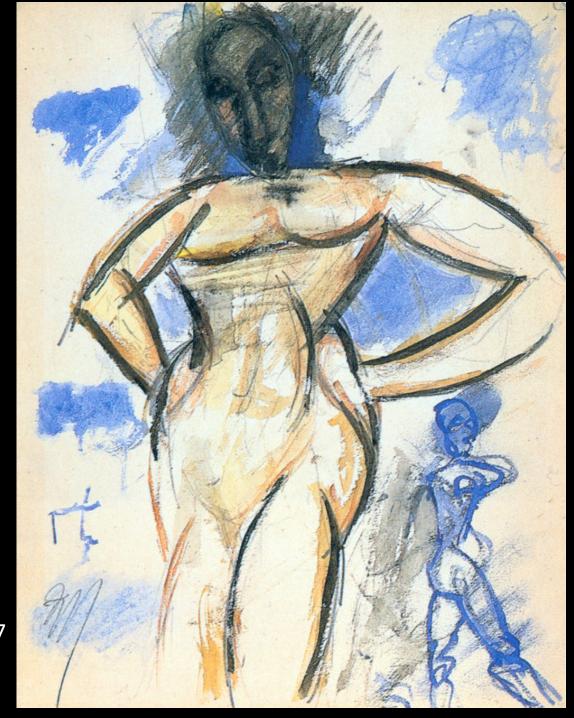
Pablo Picasso, Two Nudes, 1906

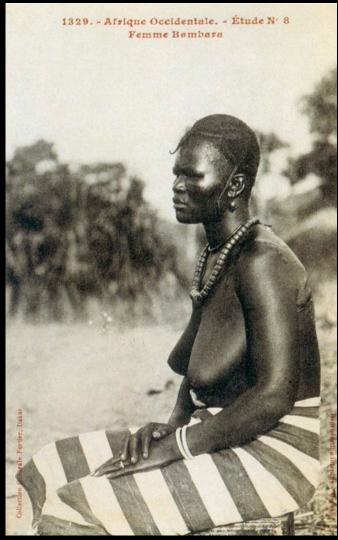




Edmond Fortier, Malinké Girl, 1906

Pablo Picasso, Nude with Hands Behind Back and Profile of Nude, 1907

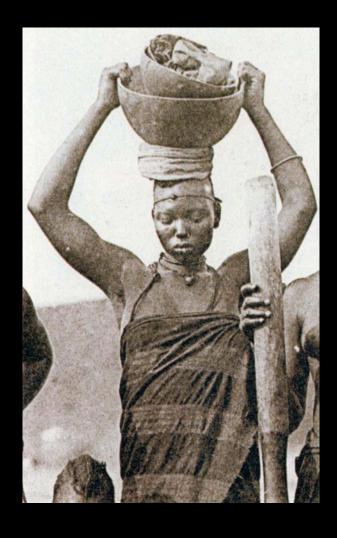




Edmond Fortier, Bambara Woman, 1906

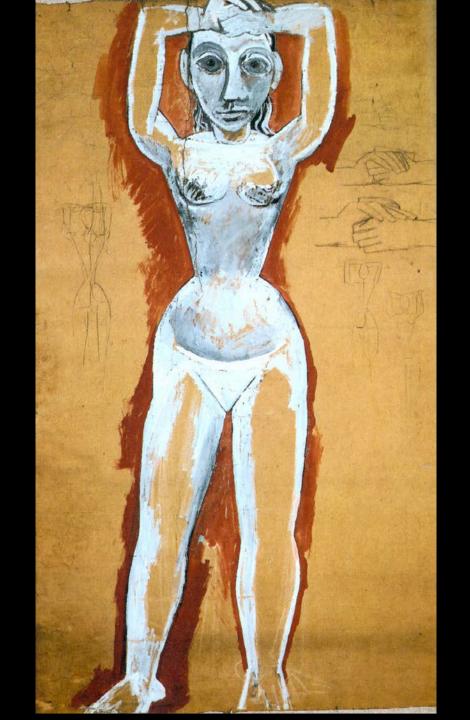
Pablo Picasso, Head and Shoulders of a Woman, 1907



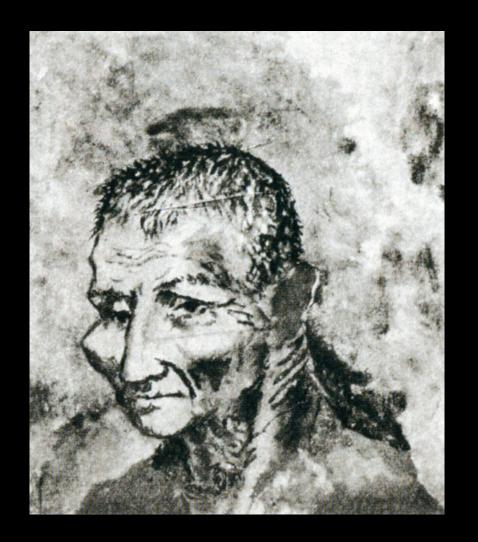


Edmond Fortier, Types of Women (detail), 1906

Pablo Picasso, Nude with Raised Arms Seen from the Front, 1907





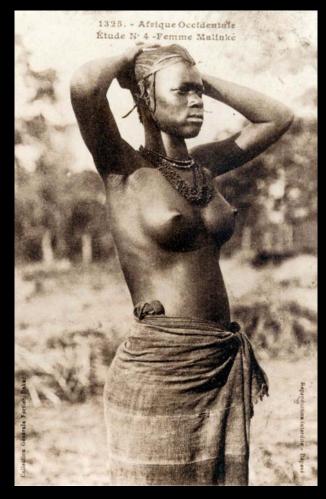


L: The American Photo Company, Head of a Maori Man, 1880 R: Pablo Picasso, Head of a Man, 1906



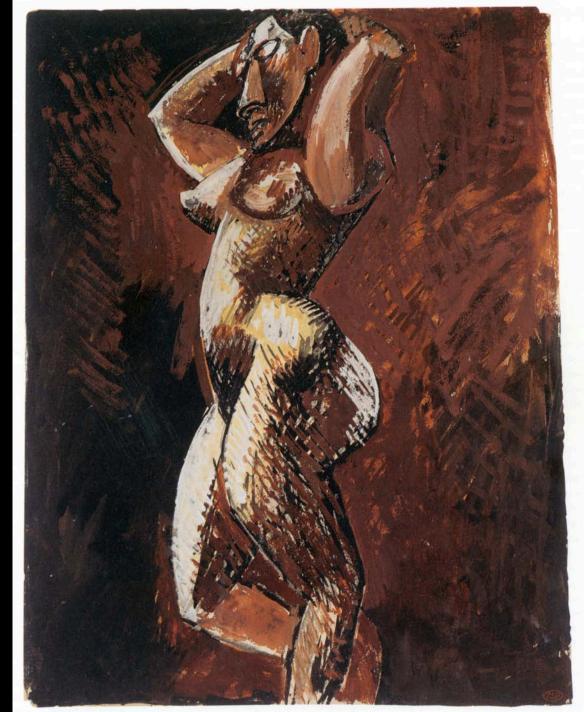


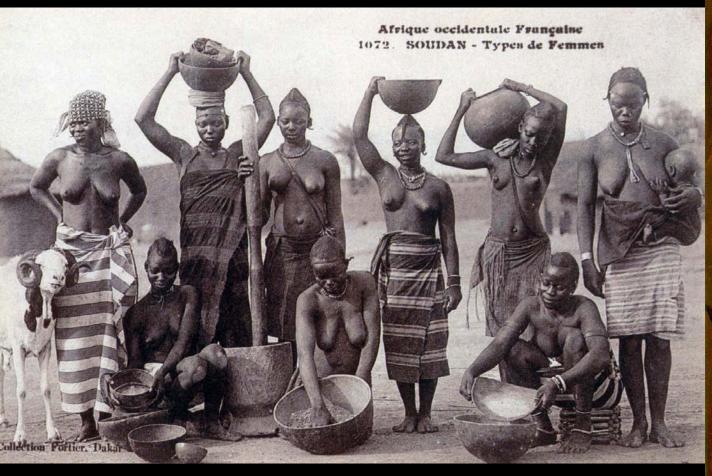
Pablo Picasso, Sketch of André Salmon, 1907



Edmond Fortier, Malinké Woman, 1906

Pablo Picasso, Nude with Raised Arms, 1908

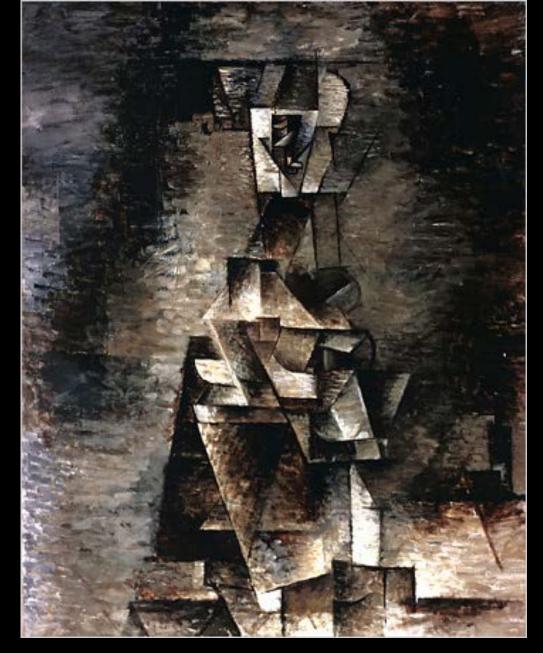




Edmond Fortier, Types of Women, West Africa, 1906



Pablo Picasso, Les Demoiselles d'Avignon, 1907



Pablo Picasso, Female Nude, 1911



An advertisement for the cinematograph, an early movie projector.

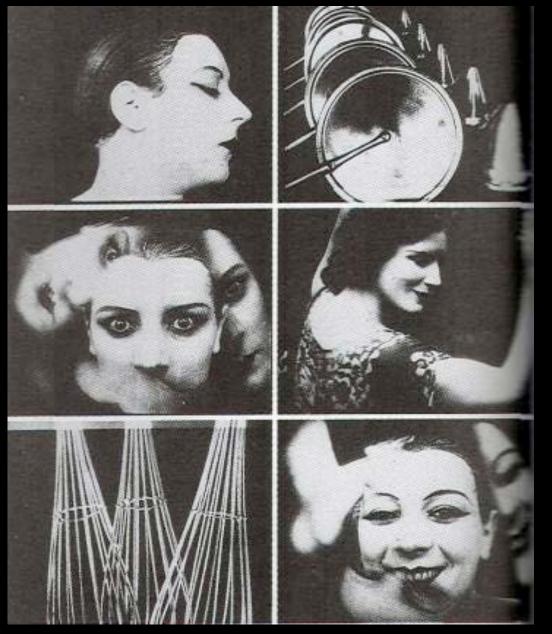


George Méliès, Under the Sea, 1907

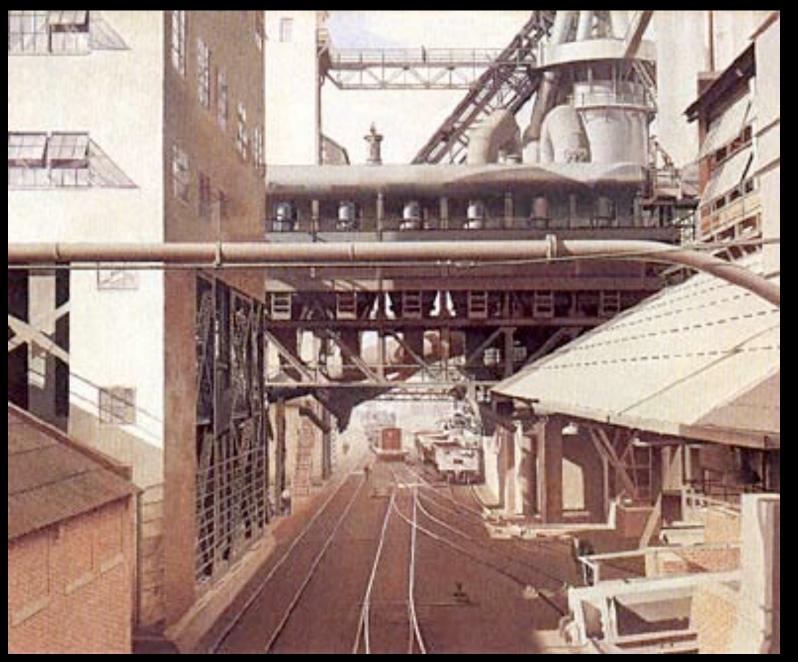
"Picasso appropriated Méliès's techniques of jarring multiple perspectives, fragmented bodies and body parts, a comic self-conscious dialogue between apparent art and apparent reality," according to critic André Salmon.



Fernand Léger, *Le mecanicien*, 1918



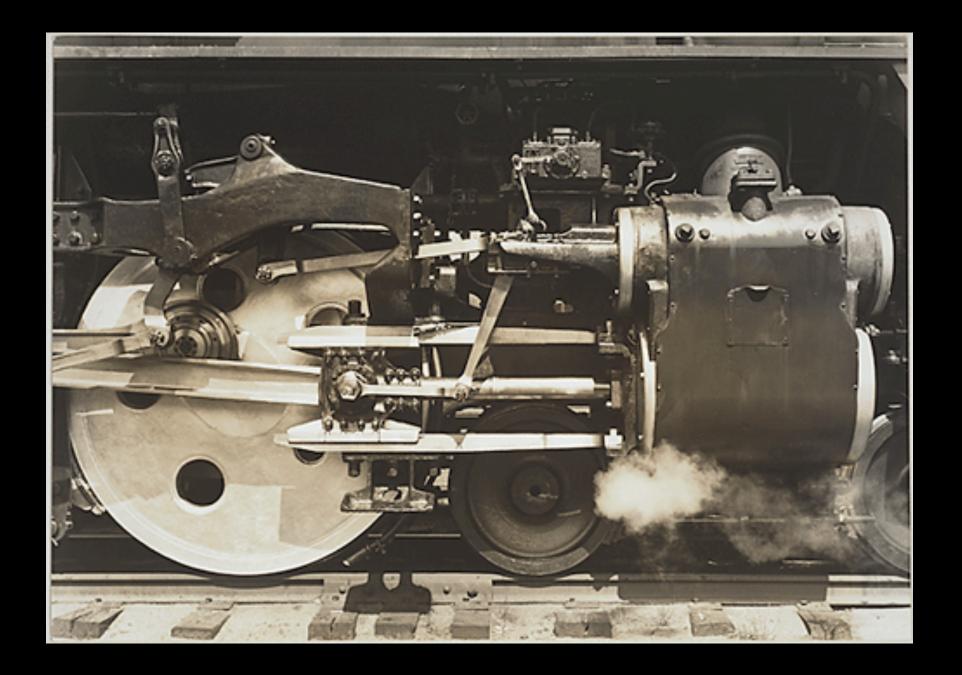
Fernand Léger, Ballet mécanique, 1923 http://www.youtube.com/watch?v=9SgsqmQJAq0



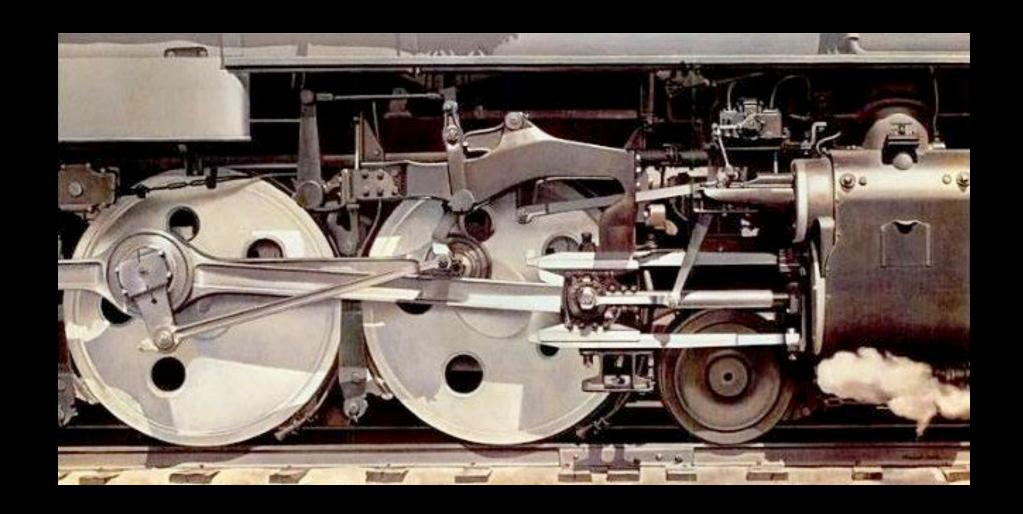
Charles Sheeler, City Interior, 1936 Aqueous adhesive and oil on composition board



Andrew Moore, Rolling Hall, Ford Motor Company, River Rouge Complex, Andrew Moore, 2008



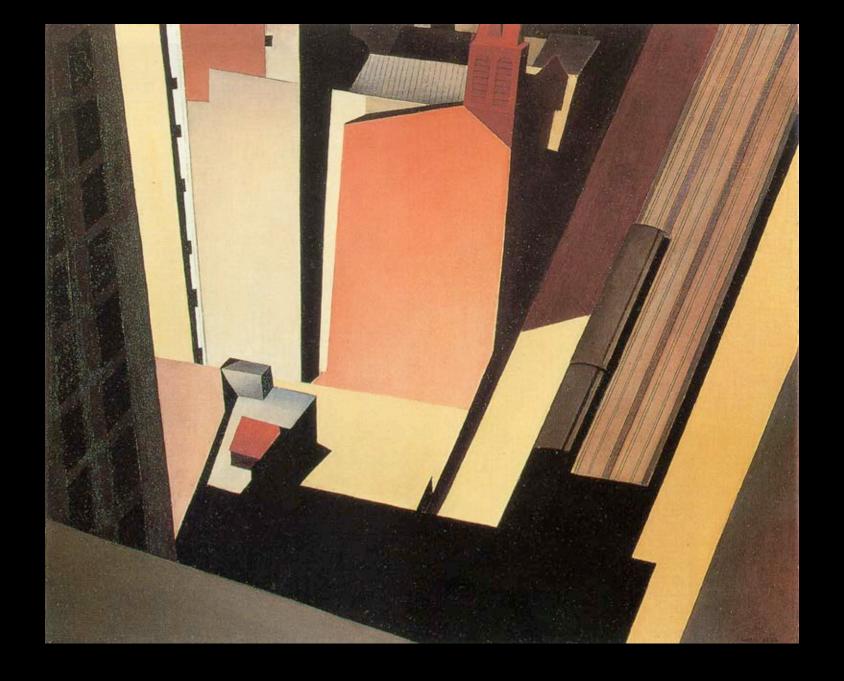
Charles Sheeler, Wheels, 1939 – gelatin silver print



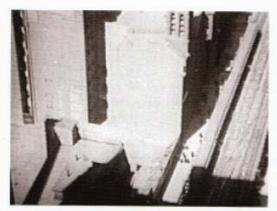
Charles Sheeler, Rolling Power, 1940 – oil on canvas



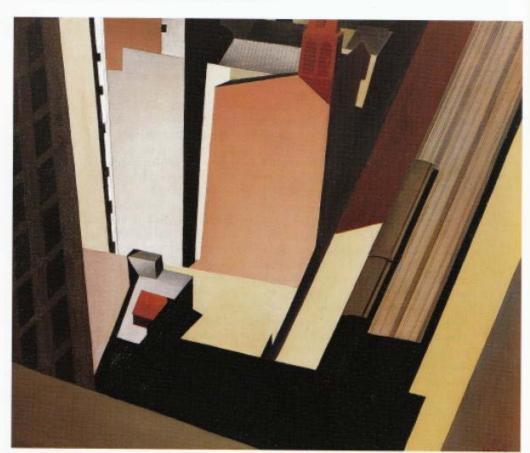
Paul Strand and Charles Sheeler, Manhatta, 1921 http://www.youtube.com/watch?v=kuuZS2phD10



Charles Sheeler, Church Street El, 1930

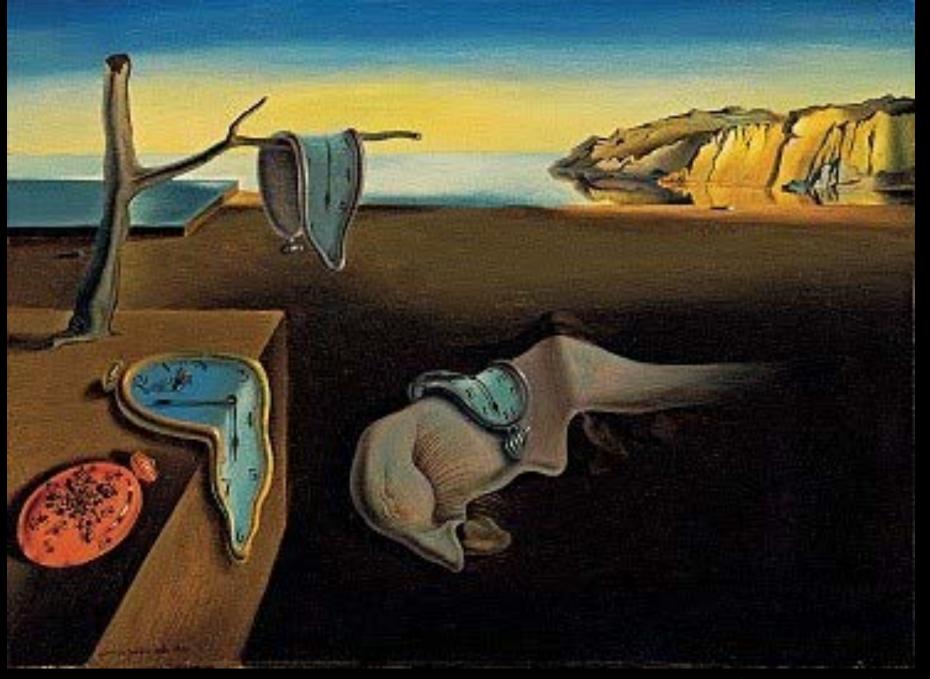


228. (above) Charles Sheeler and Paul Strand, frame from the film Monhuttu, 1920. 229. (below) Charles Sheeler, Church Street El, 1920. Oil on canvas, 16 × 19"/-" (40.6 × 48.5 cm). The Cleveland Museum of Art; Mr. and Mrs. William H. Marlatt Fund.





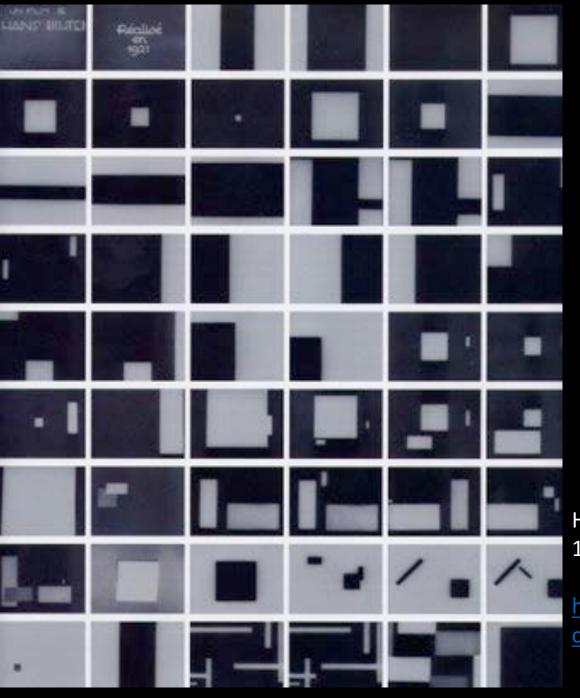
Director Luis Buñuel and Painter Salvador Dali, Un chien andalou, 1929 https://www.youtube.com/watch?v=jJZ-fmjDQRw



Salvador Dali, The Persistence of Memory, 1931 Oil on Canvas 24 cm × 33 cm (9.5 in × 13 in)



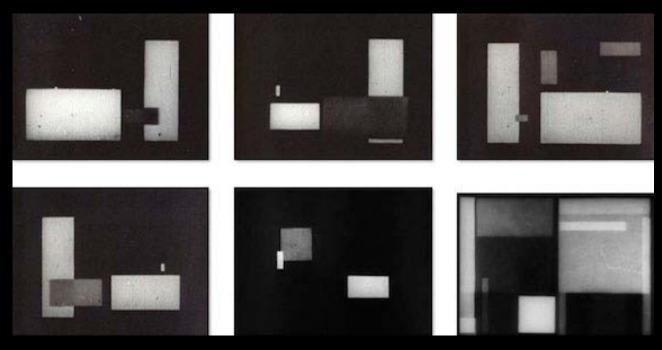
Director Luis Buñuel and Painter Salvador Dali, Un chien andalou, 1929 https://www.youtube.com/watch?v=jJZ-fmjDQRw



Hans Richter, Rhythmus 21, 1921

https://www.youtube.com/wat
ch?v=1u8jWmysGMw





Hans Richter, Orchestration of Colors, 1923 Serigraph on Linen, 54 x 16"



Hans Richter, Stalingrad (Victory in the East), 1943–46 oil and **collage** on shade cloth, 35 3/4 x 188 7/8 in. (90.7 x 479.6 cm)





Filmic Montage

Generativeness of Editing

Generativeness of Nonlinearity

montage, noun

- 1. the technique of combining in a single composition pictorial elements from various sources, as parts of different photographs or fragments of printing, either to give the illusion that the elements belonged together originally or to allow each element to retain its separate identity as a means of adding interest or meaning to the composition.
- 2. photomontage
- 3. Movies, Television. juxtaposition or partial superimposition of several shots to form a single image.
- a technique of film editing in which this is used to present an idea or set of interconnected ideas.
- 4. any combination of disparate elements that forms or is felt to form a unified whole, single image, etc.



Dziga Vertov, Man with a Movie Camera, 1929

Man with a Movie Camera

| Directed by | Dziga Vertov |
|----------------|-------------------|
| Written by | Dziga Vertov |
| Cinematography | Mikhail Kaufman |
| Edited by | Elizaveta Svilova |







Yelizaveta Ignatevna Svilova

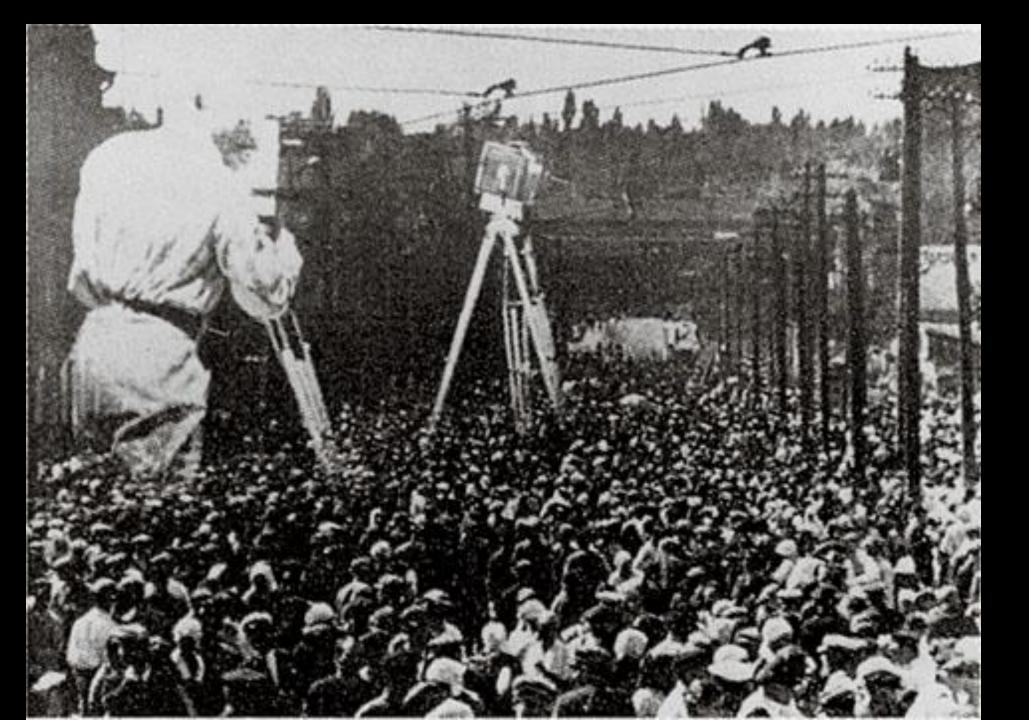


Four Soviet cities —
Kharkiv, Kiev, Moscow and Odessa — were the shooting locations.





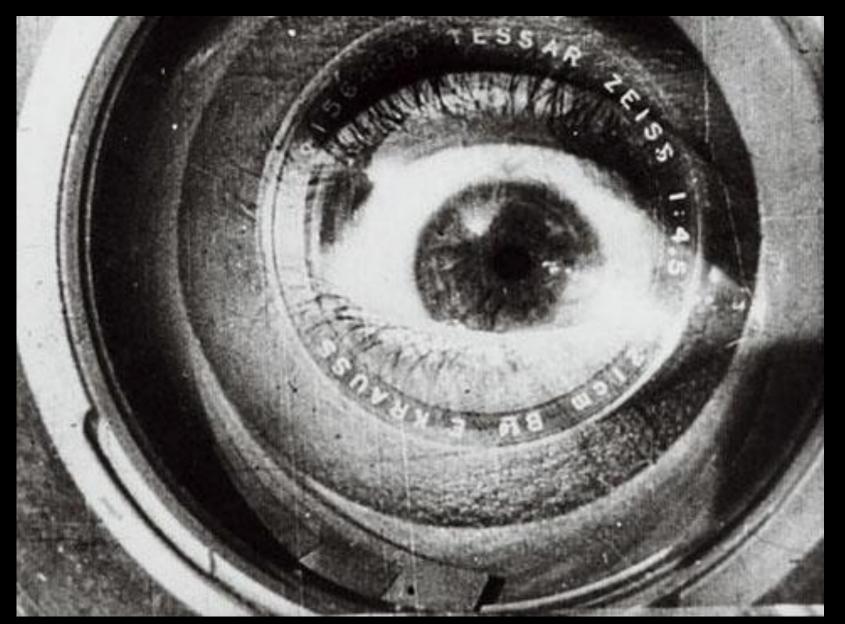




Recursion and Self-reflexivity

KINO-EYE from "WE: Variant of a Manifesto"

- double exposure
- fast motion
- slow motion
- freeze frames
- jump cuts
- split screens
- Dutch angles
- extreme close-ups
- tracking shots
- footage played backwards
- stop motion animation
- self-reflexive style



Dziga Vertov, Man with a Movie Camera, 1929 https://www.youtube.com/watch?v=_xPLt2qnMyA





In the face of the machine we are ashamed of man's inability to control himself, but what are we to do if we find the unerring ways of electricity more exciting than the disorderly haste of active people [...]

I am an eye. I am a mechanical eye. I, a machine, I am showing you a world, the likes of which only I can see.

Dziga Vertov



Charlie Chaplin, Modern Times, 1936 https://www.youtube.com/watch?v=DfGs2Y5WJ14





MONTAGE



Sergei Eisenstein, Battleship Potemkin, 1925 – "Odessa Steps Sequence" https://www.youtube.com/watch?v=VMWMq4AEyjU

