



phenakistoscope, 1831



zoetrope, 1834

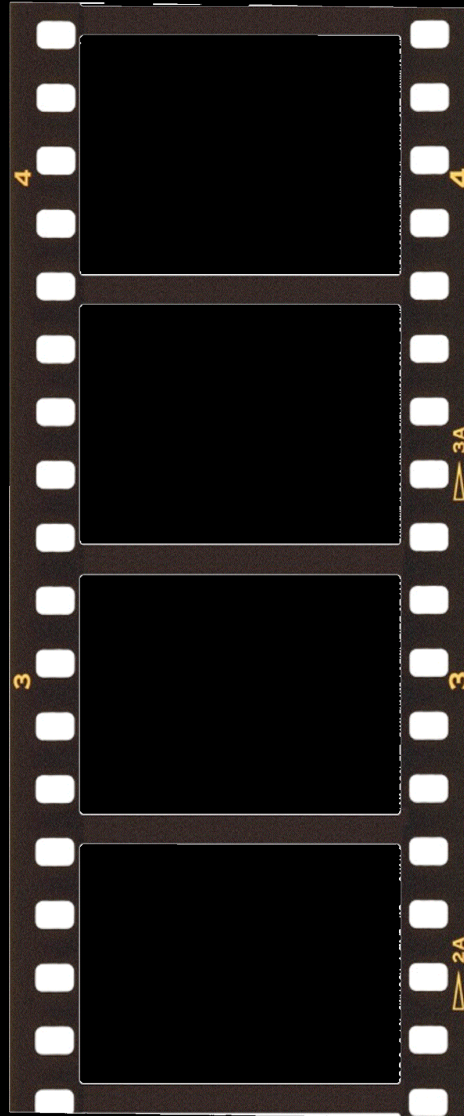


zoopraxiscope, 1879





# frames per second (fps)



the higher the fps, the smoother the motion appears

16-18 fps :: silent cinema

24 fps :: sound cinema

29.90 fps :: television

12 fps :: web animation



# key frames

- \* Define the starting and ending points of any smooth transition.
- \* Represent an important moment in an animated sequence.



