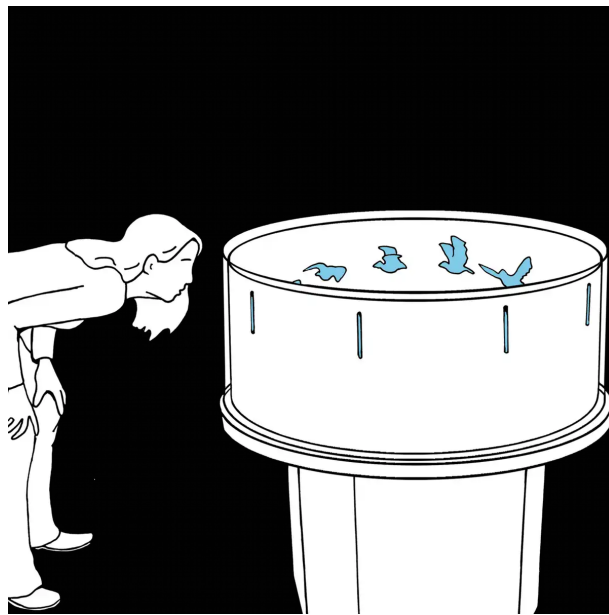


Movie Machine

How are moving images created?



Look at the flying birds – from above and then from the side. What's the difference?

In the drum there are ten models of a flying bird. Each one shows an instantaneous view of the bird in flight. From above you see all of the models turning round. From the side, however, you can only see one model at a time through a slit.

As the drum turns, you see the sequence of flight positions of the bird one after another so quickly that your brain links the images together as continuous movement. Thus the bird appears to be flying!

A rate of 10 to 14 stationary images per second is necessary for the human brain to perceive them as a moving picture. For movies a frame rate of at least 24 frames per second is used so that you get no sensation of flicker.