

Frame rate: How many images of a movie are displayed every second a movie is played. If the image is switching between black and white each frame then this image will appear to flicker when the pattern is shown at rates slower than 60 frames per second. If you go watch a movie at the theater you will see it at 24 fps (frames per second). In the USA the TV frame rate is 60 fps.

"Frame rate" of the human eye: The human eye does not have a frame rate. It does not capture frames like a video device, instead, the brain processes a **stream** of information from the optic nerve. The 'best' frame rate for viewing something is dependent on the media and its characteristics. Also, each person's eyes vary. Test out the speed at which these above images blend.

FLip Sticks: Attach these images in pairs to the narrow end of a chopstick.

Create your own flip stick image above.

Place chopstick between your palms and roll back and forth to spin the image. Spin slowly and then quickly. Note how the coin appears to spin when you spin slower and then blurs when you spin quickly. Why is this? The pieces of the bowl blend to create a whole bowl when you spin quite quickly. What is your brain doing to make the images appear as one?