



# History of Animation

Grade 7 Visual Arts



# What is animation?

- ▶ Animation is the process of displaying **still images** in a rapid sequence to create the **illusion of movement**.
- ▶ There are three main types of animation:
  - Traditional
  - Stop motion
  - Computer generated.

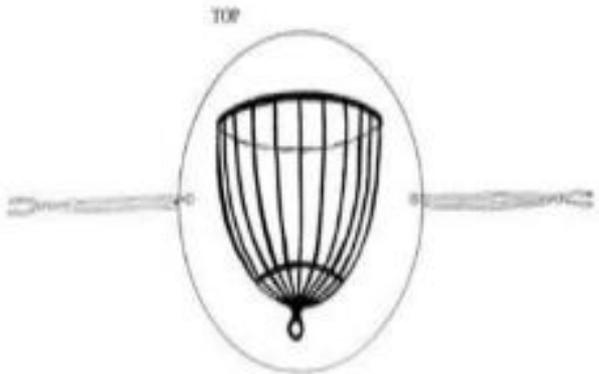
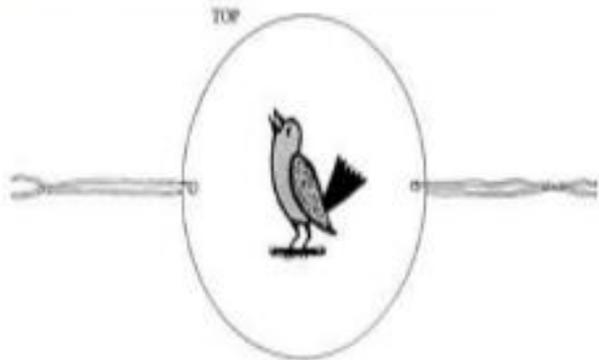
Each can be used to make both 2D or 3D images.

# Zoetrope (180 AD ; 1834)

- ▶ The early **Zoetrope** was originally in China by a man named Ding Huan in 180 AD.
- ▶ The Zoetrope is a open cylinder with slits on the side of the open cylinder. Inside the open cylinder is the frame by frame drawing.
- ▶ Spinning the Zoetrope and looking through the slit, you will be able to watch a mini animation happening.
- ▶ **Fun Facts:** Zoetrope means “wheel of life”. Zoetrope was not popular until the 1860’s.



# Thaumatrope (1824)



- ▶ The **Thaumatrope** was made to test the persistence of vision.
- ▶ **Persistence of vision** is a visual phenomenon where an image is retained in the eye for a short period of time, creating an illusion of continuous motion in film and video.
- ▶ The **Thaumatrope** is a very simple animation in which you have a drawing on one side of a paper and another on the back.
- ▶ You then twirl the string and watch it flip. This causes you to see both sides of the picture at once, which makes one picture. |

# Phenakistoscope (1831)

- ▶ This is very similar to the Zoetrope but the **Phenakistoscope** has a spinning disc instead of the cylinder.
- ▶ The Phenakistoscope can be viewed by only one person at a time.
- ▶ You spin the disc and watch through the slits and watch the frame by frame animation
- ▶ The Phenakistoscope was famous for only two years due to the constant growing technology.



# Praxinoscope (1877)

- ▶ The **Praxinoscope** was invented in France by Charles-Émile Reynaud.
- ▶ The Praxinoscope is similar to the Zoetrope.
- ▶ It has the same cylinder shape but instead of slits on the outside. There is mirrors in the inside.
- ▶ When spun it reflects the pictures and makes it animate.

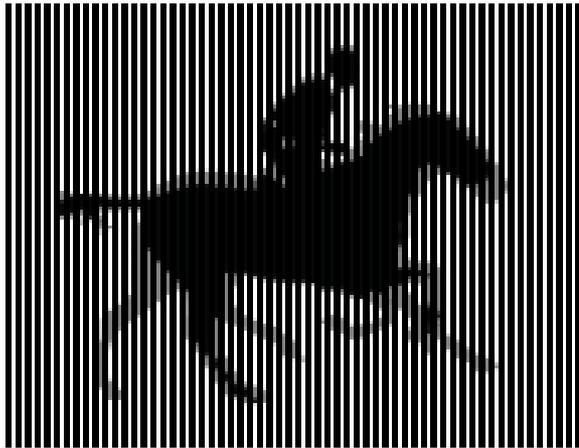


# Flip Books (1868)



- ▶ **Flip books** first appeared in September 1868 and was originally called a **kineograph** (moving picture).
- ▶ A flip book also relies on the persistence of vision.
- ▶ A flip book consists of a book with drawing or pictures, when flipped rapidly an animation is seen.

# Moire Motion Illusion



- ▶ Also known as 'Magic Moving Images', the Moiré Animation effect has been around for hundreds of years. So long, in fact, that they even predate the word 'Moiré'.
- ▶ The basic pattern consists of lines radiating out from a common center. One copy of this pattern is fixed, and the other drifts about, creating a changing image, giving the impression of motion.



# Animation Today!

# Traditional Animation

- ▶ Traditional Animation refers to classical animation or hand drawn animation



# Stop Motion Animation

- ▶ Stop motion animation is when you use objects for animation. You move the object slightly then photograph. If you keep doing this. It will appear that the object is moving
- ▶ Stop Motion can be created using
  - 2D objects
  - 3D objects

# 2D Stop Motion Animation



# 3D Stop Motion....

## Claymation



## Lego / Brick



## Found Objects



# CGI Animation

- ▶ CGI stands for Computer-Generated imagery.
- ▶ The CGI animations are basically made on the computer using 3D animation software.
- ▶ The very first CGI animation done completely was Toy Story made by Pixar.

