

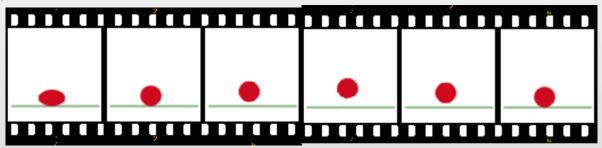
DIGITAL ANIMATION

- Creating the illusion of movement of graphic(s) and/or text.
- O Used in:
 - Interactive/Dynamic Advertising
 - Games (Online or Standalone Consoles)
 - Clickable Tutorials
 - Animated Visual Demonstrations
 - Film/Television



FRAME-BASED ANIMATION (CEL)

- A series of individual still frames that create the illusion of animation when viewed continuously (flip book).
- The graphic(s) in each frame have slight changes in position from the previous frame.
- Traditional animation
 - Each frame and background hand drawn (not typically covered in this course).



STOP MOTION ANIMATION

Frame-based techniques are commonly used with digital photographs to create stop motion animation.

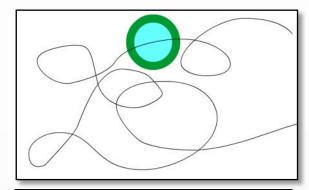
- Rotoscope
 - Traced photographic or video images with a handdrawn appearance.
- Claymation
 - Clay characters or moquettes moved in small increments between still photographs.
- Paper cut out animation
 - Similar to claymation, but with cut out shapes.

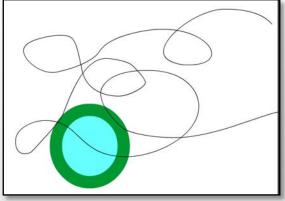


- O Can you think of animation examples that you have seen? Do you enjoy a specific type of animation?
- O Why might someone use a certain style of animation? Are there benefits to using say a Rotoscope animation compared to a Cel animation?

VECTOR ANIMATION (PATH)

- Uses computer generated formulas to make objects move along a path.
- Utilizes tweens between keyframes.
- O Result is a relatively smaller file size with clearer images, smoother movement, and loads more quickly on the internet than frame-based animation.



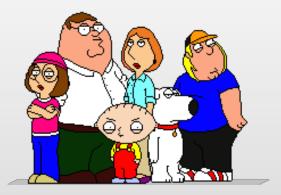


O If an animation studio was under a tight deadline, why might they decide to use vector animation instead of frame based animation?



2D ANIMATION VS. 3D ANIMATION

- Uses two dimensions of movement.
- Has a flat look in appearance.
- Examples include cartoons like Family Guy and The Simpsons.



- Uses three dimensions of movement.
- Has more depth and realistic appearance.
- Examples include video games like Halo or movies like Toy Story and Frozen.





- O Consider 3D and 2D animation. Which style do you think is more likely to be frame animation and which is more likely to be vector animation? Why?
- O Why do you think 3D animation is more realistic? Do you think that because it looks more realistic that it does a better job of capturing emotions?

ANIMATION FILE FORMATS

.GIF

- Supports only framebased animation.
- Supports only 256 colors.
- Commonly used for web.
- Only animation format that cannot play audio.

.SWC

- Contain the project Adobe Animate components.
- Contains a compiled movie clip, ActionScript code, and any assets that the component requires.

ANIMATION FILE FORMATS

.FLA

- Native project file used by Adobe Animate (Flash).
- Preserves the project's layers, scenes, and library for future editing.
- Can only be opened or edited by Animate (Flash).

.SWF

- Flash animation format for use on the Internet because it loads quickly.
- Can support framebased or vector animation.
- Supports ActionScript coding, user interactivity.

ANIMATION FILE FORMATS

.FLV

- Adobe Flash Player video format for animation playback.
- Common format for embedded video on the Internet.

.MOV

- QuickTime proprietary format.
- Converts an animation to a video file.
- Can be imported and edited by a video editing software.

- O Why might you choose to use different animation formats in specific situations?
- O How do different file formats affect the quality of the animation? Are the differences noticeable?