

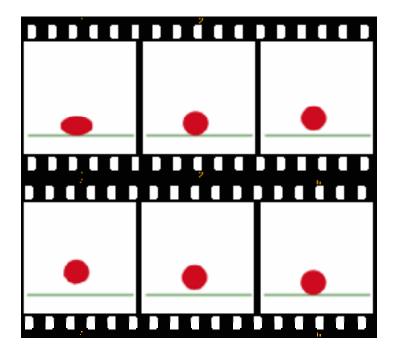






### What is animation?

✓ Animation is movement of graphics or text







### Some common uses of animation include:

## **✓** Advertising

 Example: Web site advertisements that are animated to attract attention

### **✓** Information

Example: Kiosk for directions or information

#### **✓** Education

 Example: Tutorials using animated graphics for demonstration





## Uses of animation (cont.):

- **√** Games
  - OExample: Games using animation to simulate action
- **✓ Websites** 
  - Example: Animated navigation button that changes when the cursor passes over it (rollover)





## Types/Categories of Animation:

√ Frame-Based (Flip book)

Animation of a series of continuous frames, where each frame shows the graphic moved slightly in position each frame to create a continuous motion when placed together with all frames.





## Types/Categories of Animation (cont.):

### √ Vector (Path)

Animation where the movement is defined by computer generated formulas to create paths of movement.

- Small file size with clean images
- Utilizes tweening of keyframes

## √ 2 Dimensional (2D)

Animation exists in two dimensions. Has a flat look.

Example: Cartoons such as Scooby Doo,
 The Simpsons or Family Guy





## Types/Categories of Animation (cont.):

√ 3 Dimensional (3D)

Animation exists in three dimensions

- Has depth, and more realistic in appearance
- Example: Video games like Halo or Madden or 3D movies





### **Common Animation Formats:**

- ✓ Animated GIF
- **✓**SWF
- ✓ MOV
- **✓** AVI





#### **Animated GIF:**

- ✓ Pronounced je-if
- ✓ .gif file extension
- ✓ A bitmap file format often used on the Internet
- ✓ A series of individual GIF frames joined together to create animation
- ✓ Used for small animations and low-resolution film clips
- ✓ Easiest way to create and view simple animations
- ✓ Supports frame-based animation





### SWF:

- ✓ Pronounced swa-if
- ✓ .swf file extention
- ✓ The dominant format for displaying animated vector graphics on the Web
- ✓ Used in programs and games with Actionscripting





### MOV:

- ✓ Pronounced moo-v
- ✓ .mov file extension
- ✓ Developed by Apple computers for Quicktime video player
- ✓ Also known as Quicktime movie or movie format
- ✓ Used for streaming





### AVI:

- ✓ Pronounced a-v-i
- ✓ .avi file extension
- ✓ Developed by Microsoft computers for Windows media video player
- ✓ Not good for streaming





# **Editing Animation**

Animation editing programs have features for creating animations to include:

- ✓ Importing resources
- ✓ Drawing
- ✓ Scaling (Resizing)
- ✓ Layering
- √ Keyframing
- ✓ Tweening
- ✓ Anchor point adjustment
- **✓** Transitions





## **Creating Animation:**

- ✓ Importing resources
  Bring files or images into the animation software to animate
- ✓ Drawing
   Use of mouse or graphic tablet with stylus to sketch or draw images to animate
- ✓ Scaling (Resizing)Changing the size of the image in width and height





## **Creating Animation:**

### ✓ Layering

Technique used to separate images from other images. In order to make adjustments to individual items, each item must be on a separate layer.

### ✓ Keyframe

Intermediate frames that blend so one appears to change into the next. The point were a change occurs in the animation.





## **Creating Animation:**

#### ✓ Tween

Animation process, or change that occurs between keyframes.

## ✓ Anchor point

Axis or point of rotation. Spot where rotation spins from.

### **✓** Transition

Change from one scene to the next





## **Creating Animation**

### ✓ Rollover

Animation of two or more images that switch when the cursor moves over that image or navigation button

## ✓ Morphing

Transformation of one thing into another





## Virtual Reality:

✓ Animation technology that allows a user to immerse and interact with an artificial, realistic environment





# **Animation Equipment**

## Types of equipment utilized in animation:

- **✓ Cameras** 
  - Digital photo
  - **OVideo**
  - Stop motion
  - OMotion picture
- **✓** Computers
  - hardware and animation editing software





# **Animation Equipment**

Types of equipment utilized in animation (cont.):

- **✓** Scanners
- ✓ Drawing tablets
   Used to draw images and sketches with a stylus
   (pen) and tablet





# **Animation Review**

### What Do You Need to Know?

- ✓ What is animation?
- √ How is animation utilized?
- ✓ What are the types or categories of animation?
- ✓ What are the types of animation file formats?
- ✓ Editing features of animation software
- ✓ Equipment used in digital animation

