Pada akhir pertemuan ini, diharapkan mahasiswa akan mampu:

- Menunjukkan Penggunaan Animasi pada Aplikasi Multimedia
Outline Materi

• 2D Animation
  – Cel Animation
  – Path Animation
• 3D Animation
  – Modeling
  – Rendering
• Animation Special Effect
  – Morphing
  – Warping
• Advantages and Disadvantages Using Animation

2D Animation

• Two types of animation exist
  – Cel animation
    • based on changes that occur from one frame to the next
  – Path animation
    • moves an object along a predetermined path on the screen
Cell Animation

Animation

Path Animation
3D Animation

• 3D Animation involves three steps
  – Modeling
    • creating the broad contours and structure of 3-D objects and scenes
  – Animation
    • defining the object’s motion
  – Rendering
    • giving objects attributes such as color, surface textures, and amounts of transparency

Modeling
Rendering

Animation Special Effects

- **Morphing**
  - blending together two images into a series of images

- **Warping**
  - distorts a single image

- **Virtual Reality**
  - creates an environment that surrounds the user so that he or she becomes part of the experience
Morphing

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Warping

Animation

• Animated text
  – using the HTML <blink> command causes text to flash on and off

• Animated gif
  – using a software program to create a series of gif files such as GIF Builder

• Director movie
  – animation played using Shockwave plug-in

• 3D environments
  – a computer language used to create 3D images
Advantages and Disadvantages of using Animation

• Animation captures the imagination like no other tool, portraying actions and spatial relationships that are not readily visible in reality or that may not exist at all.

• Advantages
  – Attracts and holds attention
  – Show otherwise invisible actions or physical processes
  – Increases retention
  – Allows visualization of imagined concepts, objects and relationships

• Disadvantages
  – Requires extensive memory and storage space
  – Requires special equipment for a quality presentation
  – Cannot depict actuality like video or photography