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LECTURE 10: INTRODUCTION TO ANIMATION



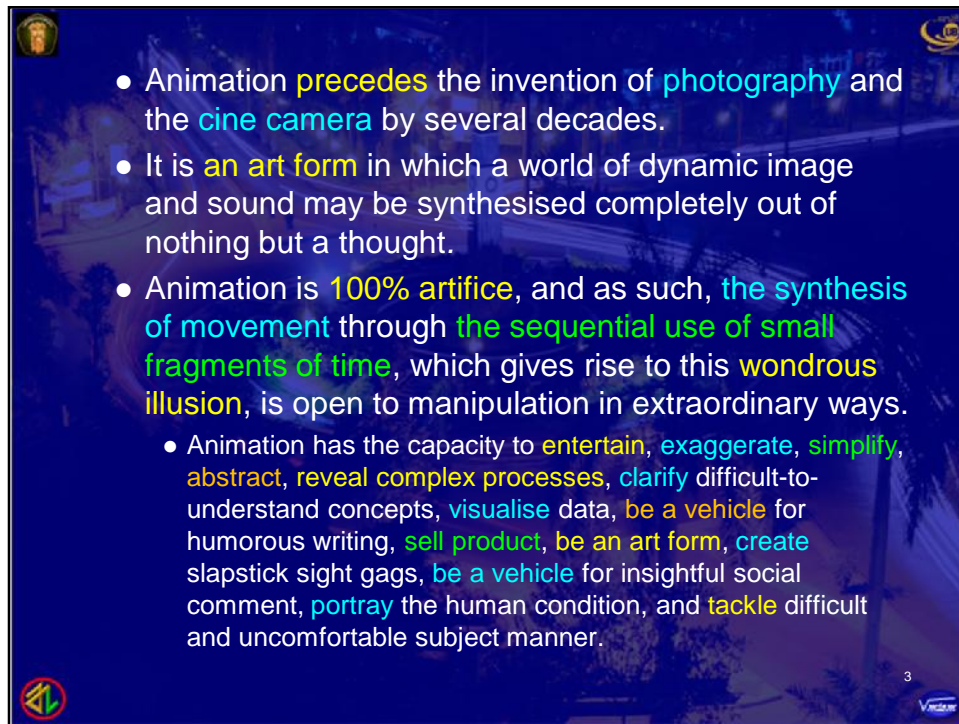
S.M. Sitompul (2017 version)

INTRODUCTION

1. Definition

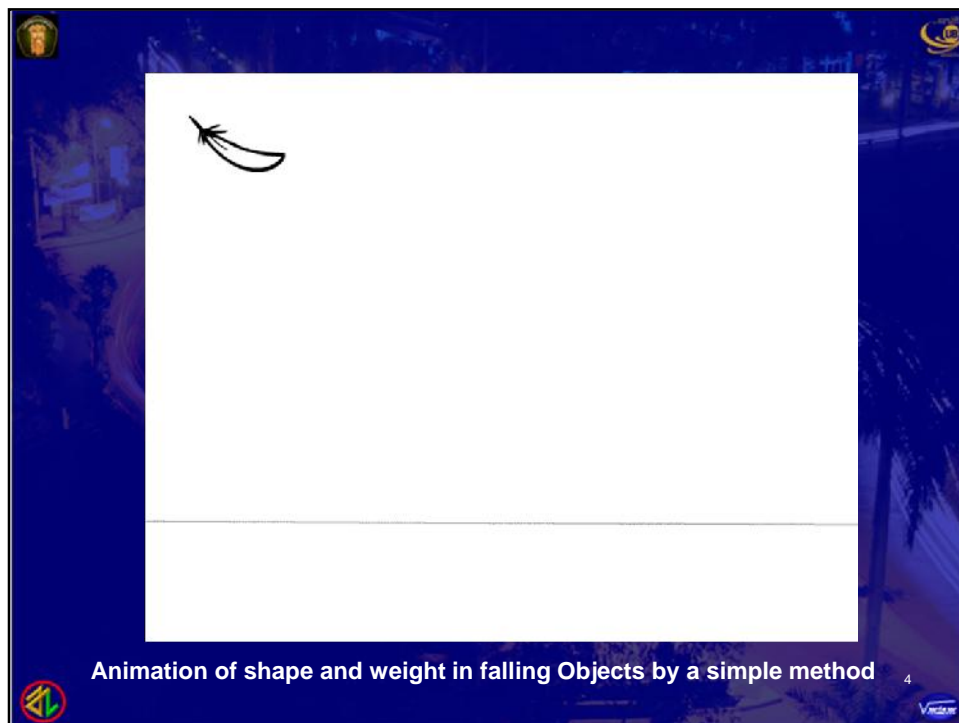
- An **animation** is the illusion of movement created by showing a series of still pictures in rapid succession.
- In the world of computers, graphic software used to create this effect. Simple animation may be as basic as an animated gif file like the image shown on this page.
- A more complex animation could be of a human or alien face in a computer software game or animation of a space battle in a movie.
- The manipulation of electronic images by means of a computer in order to create moving images.

2



- Animation **precedes** the invention of **photography** and the **cine camera** by several decades.
- It is **an art form** in which a world of dynamic image and sound may be synthesised completely out of nothing but a thought.
- Animation is **100% artifice**, and as such, **the synthesis of movement through the sequential use of small fragments of time**, which gives rise to this **wondrous illusion**, is open to manipulation in extraordinary ways.
 - Animation has the capacity to **entertain**, **exaggerate**, **simplify**, **abstract**, **reveal complex processes**, **clarify** difficult-to-understand concepts, **visualise** data, **be a vehicle** for humorous writing, **sell product**, **be an art form**, **create** slapstick sight gags, **be a vehicle** for insightful social comment, **portray** the human condition, and **tackle** difficult and uncomfortable subject matter.

3



Animation of shape and weight in falling Objects by a simple method

4

A presentation slide with a dark blue background featuring a night scene of palm trees and a building. The word "SOFTWARES" is written in large green letters at the top. Below it, the title "1. Top 5 2D Animation Software for Windows" is in cyan. A list of five software options follows, each with a yellow name and a description. The slide includes a small circular logo in the top-left corner, a "5" in the bottom-right, and a "Vista" logo in the bottom-right corner.

SOFTWARES

1. Top 5 2D Animation Software for Windows

1. **Pencil** (free open-source software) - <http://www.pencil2d.org/>
2. **Creatoon** -
3. **Plastic Animation Paper** -
4. **Synfig Studio** -
5. **Stykz** (completely free of cost software) - <http://www.stykz.net/>

5

A presentation slide with a dark blue background featuring a night scene of palm trees and a building. A large white rectangular box is centered on the slide. At the bottom, the text "Green Combo by GuitarMangler with Stykz software" is displayed. The slide includes a small circular logo in the top-left corner, a "6" in the bottom-right, and a "Vista" logo in the bottom-right corner.

Green Combo by GuitarMangler with Stykz software


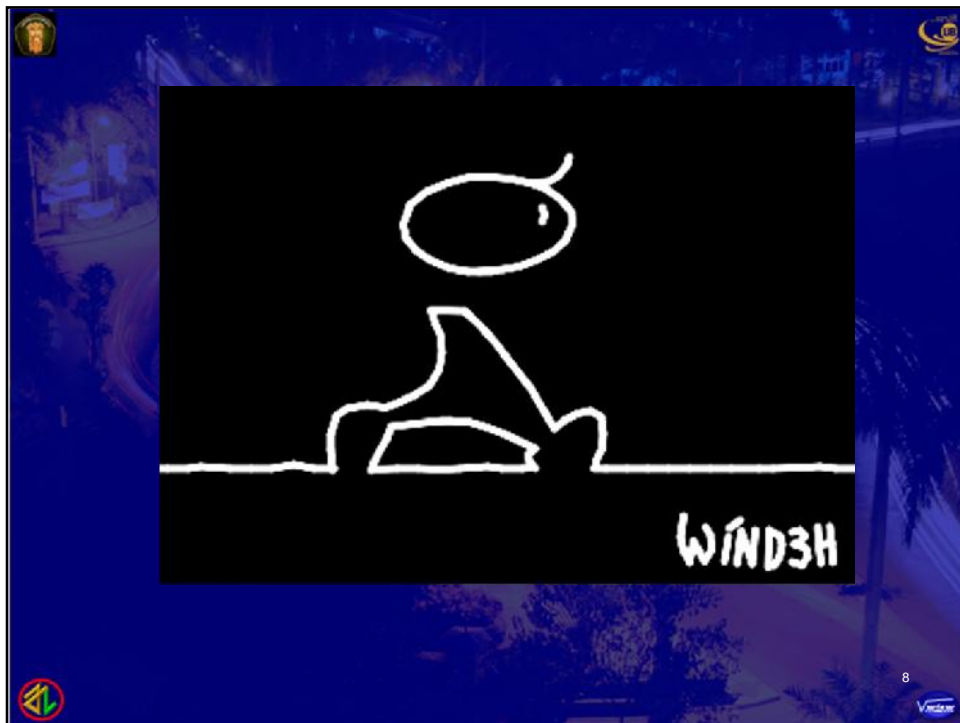
6



1. Top 5 3D Animation Software for Windows

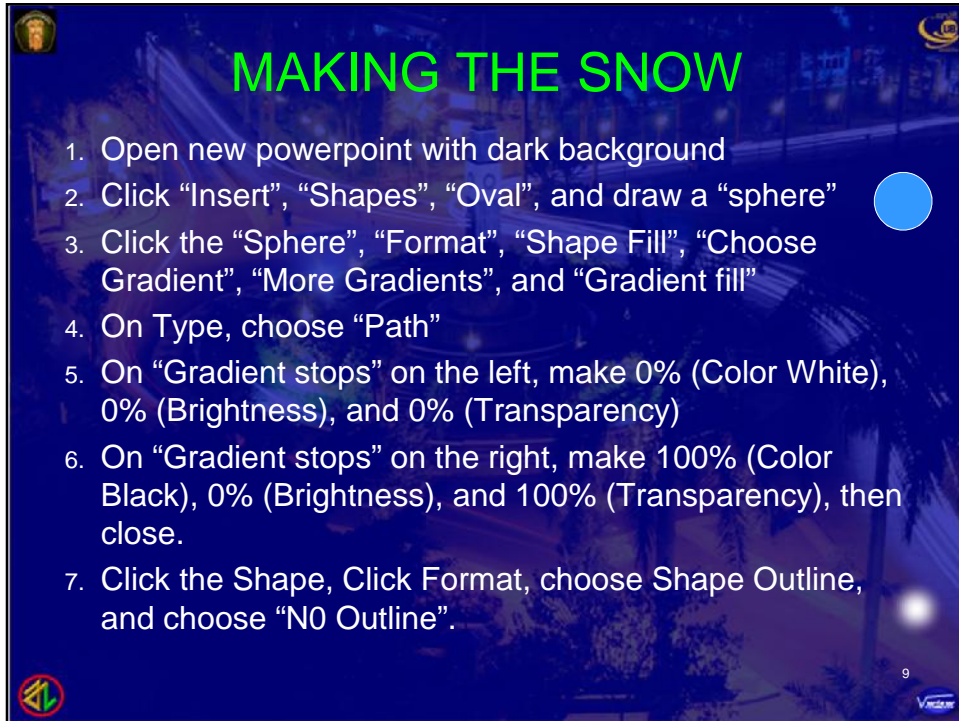
1. **Blender (Free)** - <http://www.blender.org/>
2. **3D Studio Max** - <http://www.autodesk.com/>
3. **3DPlus (Free)** - <http://www.freecerifsoftware.com/>
4. **Animation:Master** - <http://www.hash.com/>
5. **LightWave 3D** - <http://www.newtek.com/>
6. **Elastic Reality and Avid 3D** - <http://www.avid.com>

7




WIND3H

8



MAKING THE SNOW

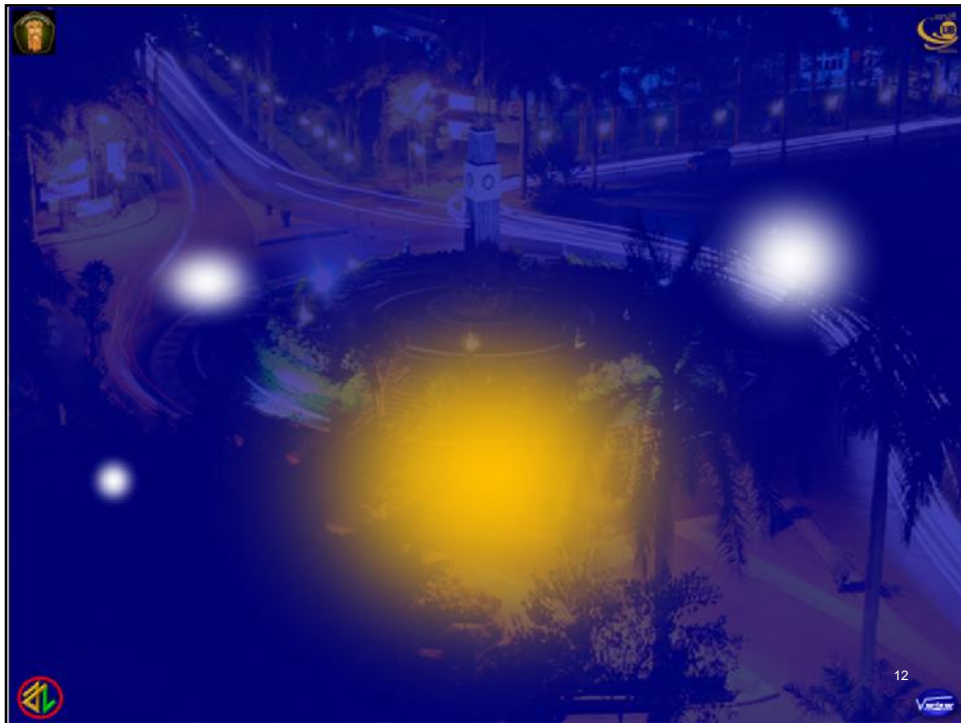
1. Open new powerpoint with dark background
2. Click "Insert", "Shapes", "Oval", and draw a "sphere" 
3. Click the "Sphere", "Format", "Shape Fill", "Choose Gradient", "More Gradients", and "Gradient fill"
4. On Type, choose "Path"
5. On "Gradient stops" on the left, make 0% (Color White), 0% (Brightness), and 0% (Transparency)
6. On "Gradient stops" on the right, make 100% (Color Black), 0% (Brightness), and 100% (Transparency), then close.
7. Click the Shape, Click Format, choose Shape Outline, and choose "NO Outline".

9



Shrinking to the right size, and Duplicating snow

10



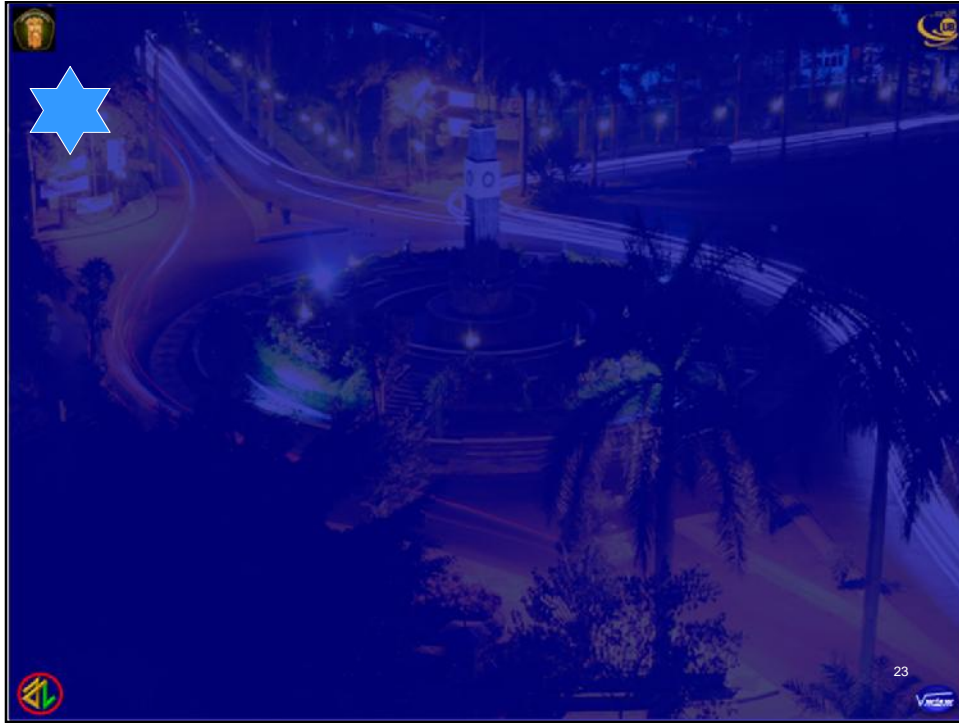










An aerial night view of a highway interchange, similar to the one above. A black leaf icon is in the top left. The text "Leaf Motion Effect" is displayed in white in the upper middle. Below it, the text "Click again to replay, Press 'Esc' to exit." is shown. At the bottom left, there is a copyright notice: "The above image used is a copyright of Washington Department of Fish and Wildlife. Gallery: WDFW Image Gallery. Album: WDFW Wildlife Areas, and Habitat. Album: Habitat Illustrations." At the bottom right, it says "More animations at : <http://pptheaven.mvps.org>".



