Working With 3D Objects

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

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Learning Objectives

In this tutorial, we will learn to,

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▶ **Convert** 2D **objects to** 3D **using** `Extrusion`

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- **Insert** 3D **shapes into a** `Draw` **page**

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In this tutorial, we will learn to,

- **Convert** 2D **objects to** 3D **using** `Extrusion`

- **Insert** 3D **shapes into a** `Draw` **page**

- **Convert** 2D **shapes to** 3D **using the** `3D Rotation Object` **option**

Learning Objectives

▶ **Apply** `3D effects` **to objects**

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▶ **Apply** 3D effects **to objects**

▶ **Create special effects using**
   Duplicate **and** Cross-fading

Prerequisites

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▶ **To practise this tutorial, you should have basic knowledge of** `LibreOffice Draw`

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▶ **If not, for relevant** `Draw` **tutorials please visit this website https://spoken-tutorial.org/**

System Requirements

This tutorial is recorded using,

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- ▶ **Ubuntu Linux OS version 18.04**

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- ▶ **Ubuntu Linux OS version 18.04**
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Object

Let's draw a geometry chart which shows a 2D shape **and its equivalent** 3D **form**

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For example,

Object

Let's draw a geometry chart which shows a 2D shape and its equivalent 3D form

For example,

- **A** square **is a** 2D **object and a** cube **is its** 3D **form**

Extrusion

▶ **The method of obtaining a** 3D
object using a 2D **object is called**
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Extrusion

▶ **The method of obtaining a** $3D$ **object using a** $2D$ **object is called** `Extrusion`

▶ **Basically, the surface is moved outward, to create the** $3D$ **object**

Assignment

Assignment

▶ **Add a** new **page to your** Draw **file**

▶ **Draw a** square **and type the text** Square **inside it**

▶ Convert **the** square **with text to** 3D

▶ **Compare the** 3D **object text with the** 2D **square text**
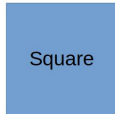
3D Shapes

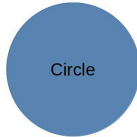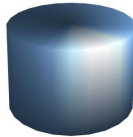▶ `Draw` **provides a list of ready-made** `3D` **shapes for direct use in a drawing**
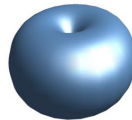
Assignment

Geometric Shapes in 2D and 3D Rotation

Use `Convert To 3D Rotation Object` **option**

Summary

In this tutorial, we have learnt to,

- **Convert** 2D **objects to** 3D **using** `Extrusion`
- **Insert** 3D **shapes into a** `Draw` page
- **Convert** 2D **shapes to** 3D **using the** `3D Rotation Object` **option**

Summary

▶ **Apply** 3D effects **to objects**
▶ **Create special effects using** Duplicate **and** Cross-fading

Assignment

▶ **Draw various shapes and try** Duplicate **and** Cross-fading **options using them**

About Spoken Tutorial project

▶ Watch the video available at
https://spoken-tutorial.org
/What_is_a_Spoken_Tutorial

▶ It summarises the Spoken Tutorial
project

▶ If you do not have good
bandwidth, you can download
and watch it

Spoken Tutorial Workshops

The Spoken Tutorial Project Team

▶ **Conducts workshops using spoken tutorials**

▶ **Gives certificates to those who pass an online test**

▶ **For more details, please write to contact@spoken-tutorial.org**

Answers for THIS Spoken Tutorial

- ▶ **Questions in THIS Spoken Tutorial?**

- ▶ **Visit**
  https://forums.spoken-tutorial.org

- ▶ **Choose the minute and second where you have the question**

- ▶ **Explain your question briefly**

- ▶ **The Spoken Tutorial project will ensure an answer**

You will have to register to ask questions

Acknowledgements

- **Spoken Tutorial project is funded by the Ministry of Education (MoE), Govt. of India**

About the contributor

- **This tutorial was originally contributed by DesiCrew Solutions Pvt.Ltd. in 2011**
- **www.desicrew.in**
- **Thanks for joining**