Installing and running Gmsh

Talk to a Teacher
http://www.sakshat.ac.in

National Mission on Education through ICT

http://spoken-tutorial.org

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Learning Objectives

- **Install and run Gmsh**

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- **Create a basic geometry in Gmsh**

Pre-requisite

- **Basic knowledge about mesh**

System Requirement

- **Ubuntu Linux Operating System version 12.04**

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- **Gmsh version 2.8.5**

Introduction to Gmsh

- **Automatic 3D finite element mesh generator**

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- **Built-in pre and post-processing facilities**

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- **Built-in pre and post-processing facilities**
- **Open-source software**

Introduction to Gmsh

- **Advantageous in creating complex geometries than blockMesh utility**

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- **For example blades, aerofoil**

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- **Advantageous in creating complex geometries than blockMesh utility**
- **For example blades, aerofoil**
- **OpenFOAM supports importing mesh from third party meshing software like Gmsh**

Installing Gmsh

- **Gmsh – Synaptic Package Manager**

Downloading Gmsh

- **Download Gmsh from:**

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- **Download Gmsh from:**
- **http://geuz.org/gmsh**
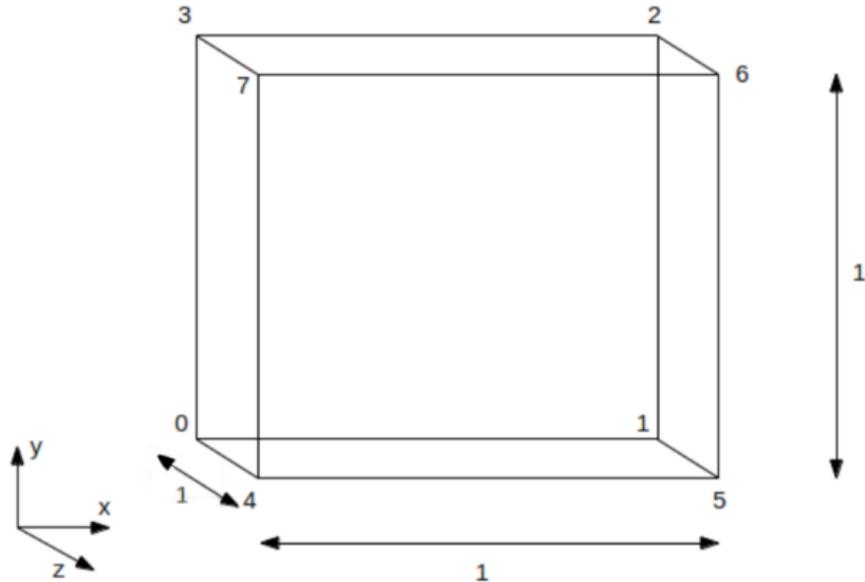
Cube geometry

Assignment

- **Create other simple geometry in Gmsh**
- **For example cylinder, sphere**

Summary

In this tutorial we learnt :

- **To install and run Gmsh : Synaptic Package Manager and Website**
- **Created a cube using Gmsh**

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- **Gives certificates to those who pass an online test**
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- **More information on this Mission is available at http://spoken-tutorial.org /NMEICT-Intro**

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