CMP205: Computer Graphics



Lecture 0: Introduction

Ahmed S. Kaseb Fall 2018

Slides by: Dr. Mohamed Alaa El-Dien Aly

Agenda

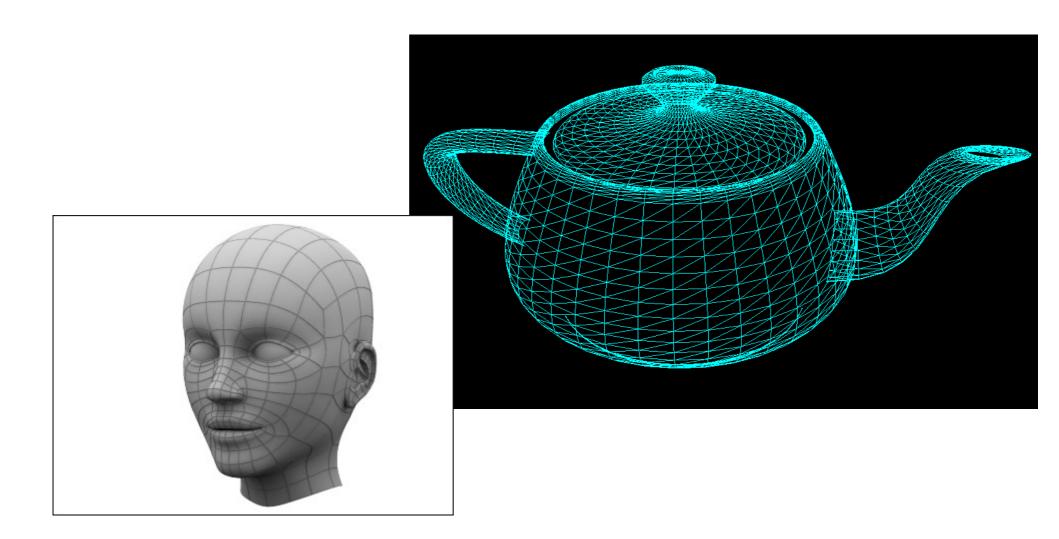
- What is Computer Graphics?
- Areas
- Applications
- Topics
- Course

Computer Graphics

The study of creating, manipulating, and using images on the computer

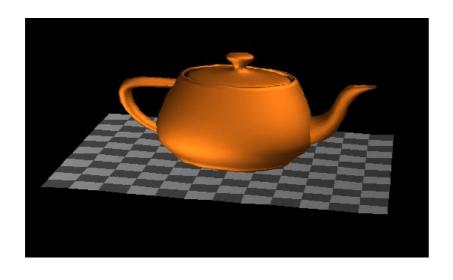
- Modeling
- Rendering
- Animation

Modeling



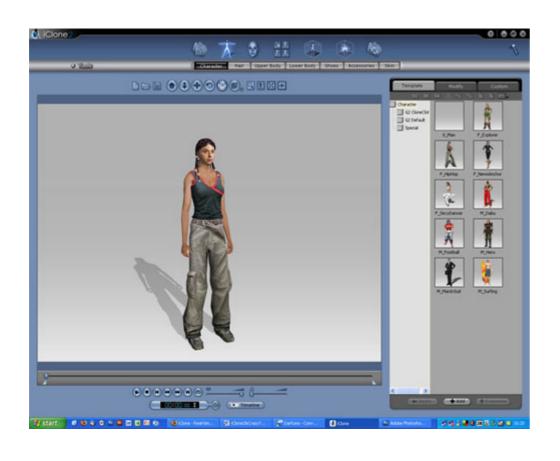
• Rendering







• Animation





- Entertainment
- Science and Engineering
- Training and Simulation

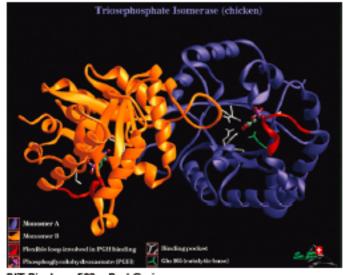




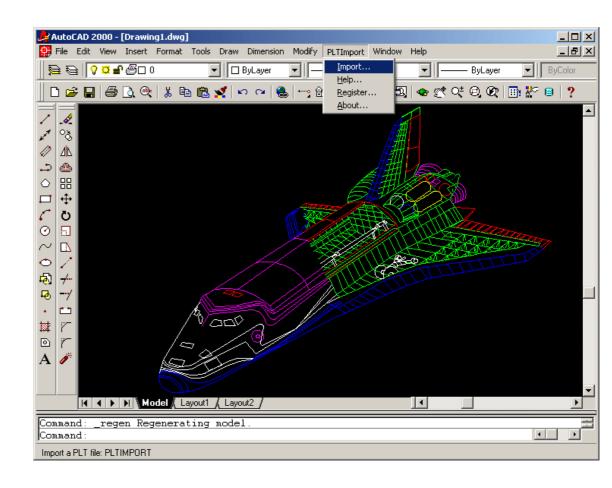




Science and Engineering



RIT Biochem. 502-Paul Craig



• Training and Simulation







Topics

- Line and Triangle Rasterization
- Transformations
- Graphics Pipeline
- Shading
- Texture Mapping
- Ray Tracing
- Animation (?)
- Textbook: Fundamentals of Computer Graphics 3rd Edition, Peter Shirley