

Introduction to Computer Graphics

What is Computer Graphics? (1/2)

CGVR

- Definition
 - Producing pictures or images using a computer
- Example
 - Starship Troopers: Tango-Urilla, Death From Above



Courtesy of Tippet Studio

What is Computer Graphics? (1/2)

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 - On set: Pyrotechnics



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 - Bugs:

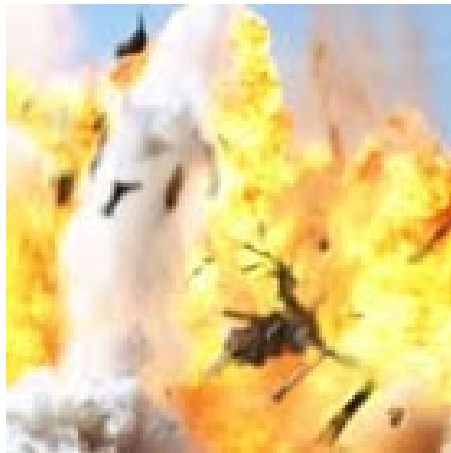


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 - The Final Stage: Burning the bugs



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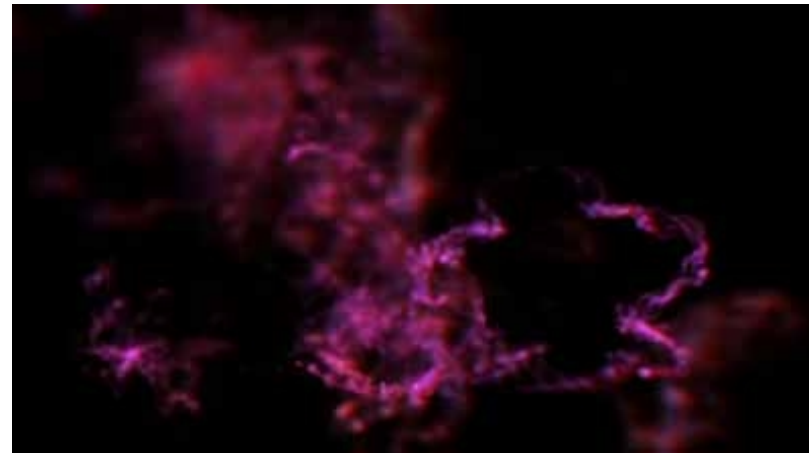


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What is Computer Graphics?

(2/2)

CGVR

- Imaging
 - Representing 2D images
- Modeling
 - Representing 3D objects
- Rendering
 - Constructing 2D images from 3D models
- Animation
 - Simulating changes over time

Applications

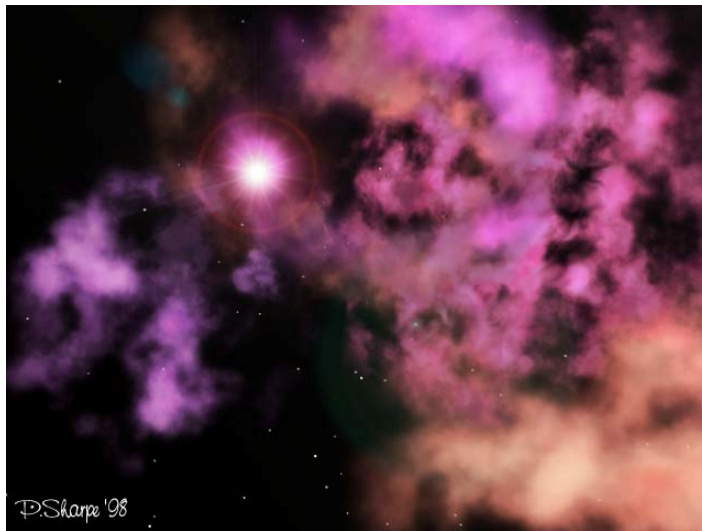
CGVR

- Display of Information
- Design
- Simulation
- Computer Art
- Entertainment

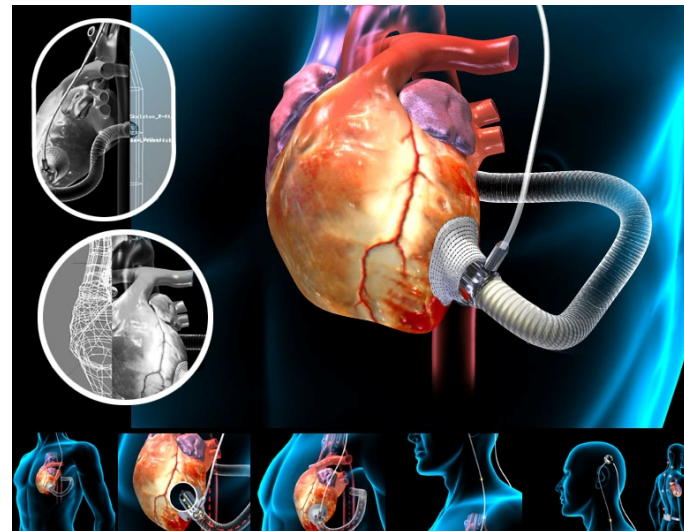
Display of Information

CGVR

- Graphics for Scientific, Engineering, and Medical Data

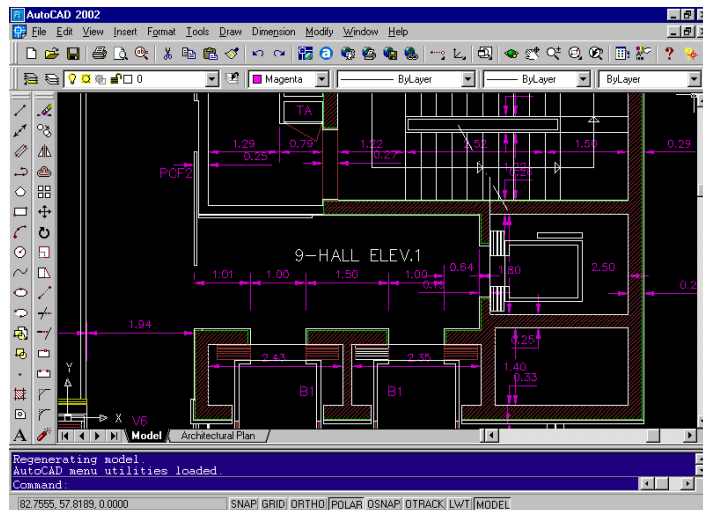


Nebula



Medical Image

- Graphics for Engineering and Architectural System
- Design of Building, Automobile, Aircraft, Machine etc.



AutoCAD 2002



Interior Design

Simulation

CGVR

- Computer-Generated Models of Physical, Financial and Economic Systems for Educational Aids



Flight Simulator

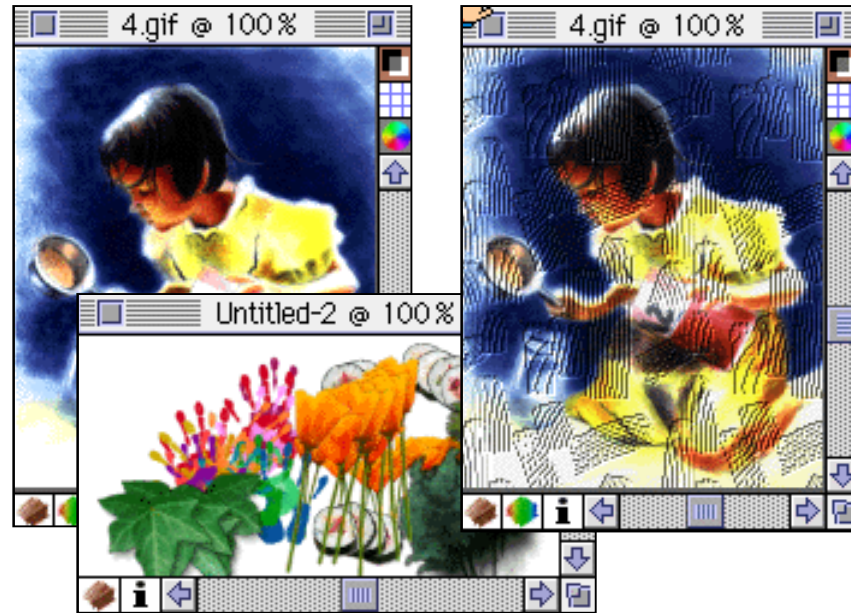


Mars Rover Simulator

Computer Art

CGVR

■ Graphics for Artist



Metacreation Painter

Entertainment

CGVR

- Graphics for Movie, Game, VR etc.



Final Fantasy



Online Game