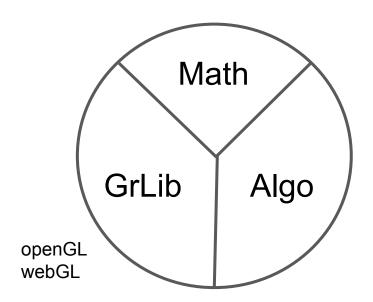
Ingredients of CG

Computer Graphics Jorg Peters

Vectors, matrices, coordinates, bases



rendering, hierarchies, LoDs, etc

Areas Related to Graphics

- Image processing, vision (recognition)
- Geometric modeling, computational geometry
- Applied differential, algebraic geometry
- Computer architecture
- Content creation, art, simulation, applied physics Computer

Ingredients of CG

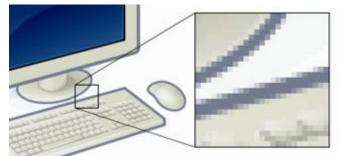
Computer Graphics Jorg Peters

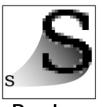
- 1. Graphics Applications
 - a. Design
 - b. CAD (computer aided design)
 - c. Constraint solving
 - d. Interactive modeling
 - e. Animation, movies
- 2. Information display
 - a. Image analysis
 - b. PET, MRI, CT (voxel visualization, Radon transform)
 - c. Tufte: visualizing data
- 3. Simulation
 - a. Games (flight simulator)
 - b. Augmented reality
 - c. Virtual Reality

Reading assignment

Computer Graphics Jorg Peters

https://en.wikipedia.org/wiki/Computer_graphics



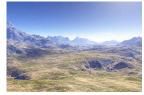




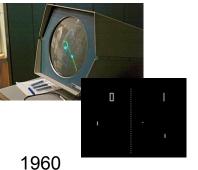
Mocap



Vector



Fractals





1970









1990

2000 unreal

Writing assignment

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Test 0

use two colors:

Blue for answers without any help

Black for answers using all and any help except people
scan
submit via canvas

https://www.cise.ufl.edu/research/SurfLab/qfxNotes/cap5705/TEST/intro.pdf