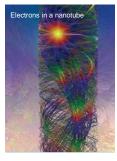




• Look at this video:
https://www.youtube.com/watch?v=hbjlo1A5vZo
https://www.youtube.com/watch?v=PP_n62DSUXs
https://www.youtube.com/watch?v=qzdl7LnMz6Y
https://www.youtube.com/watch?v=VHsTi8vZzRg

Uses of Digital Graphics

- Creative Expression
- Presenting Information
- Communicating Ideas
- Exploring New Ideas
 - Scientific visualization uses computer graphics to provide visual representations that improve our understanding of some phenomenon.



Uses of Digital Graphics

- Thereof Core I Seen Pages I Safe I Decision Name Commit I Person Core I Seen Pages I Safe I Decision Name Commit I Person Core I Seen Pages I Safe I Decision Name Commit I Person I Person I Name I to I is I を変変とままる人と呼ばれる。 Entertainment
 - Documenting Life
 - Designing Real-World Objects
 - Computer-assisted design (CAD) software assists designers, engineers, and architects in designing three-dimensional objects.

Vector Graphics Software

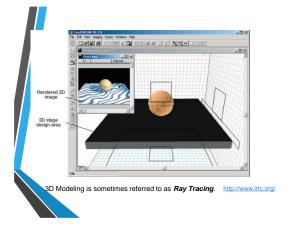
• Vector Graphics Software, or drawing software, provides tools to create, arrange, and layer graphical objects on the screen to create pictures.



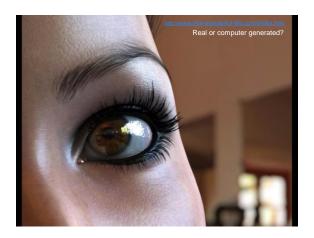
3D Modeling Software

- 3D Modeling Software provides graphics tools that allow artists to create pictures of realistic 3D models.
 - Objects are created using a wire framework.
 - Surface textures are applied to the objects.
 - Light source is defined.
 - The scene is rendered lighting, shapes, and surfaces are calculated to create a 3D appearance on a 2D display.









Computer Animation

2D Animation

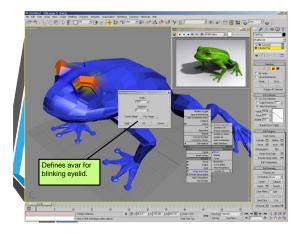




Animated GIFsMacromedia Flash

3D Animation

- Involves rendering 24 3D images per second.
- Expensive Software
- Avars are used to provide hinges for movements of characters.
- http://www.pixar.com/howwedoit/index.html



Digital Animation Software

• Softimage/XSI v3.0 \$13,000 http://www.softimage.com/products/face_robot/video_gallery

 3ds + Reactor = \$1,795 http://www4.discreet.com/showandtell/showandtell.php?id=465#

 Lightwave 3D, \$1,595 http://www.newtek.com/products/lightwave/lw-gallery/videos/index.html

• Renderman \$ 5,500 https://renderman.pixar.com/