#### -> Final Paper

- -> end of day Deck!
- 1) incorporate feed back lell on Proposal
- wanimations are NOT published
  - Lo they are released or aired.
- La grammer is quite important.
- Lo cite references at end and in text
- L> Google Scholar

#### -> Technological Challenges and Standardization

13 Early Days of Cirema:

- 4) Perfuration
- La Frame Rate/Projection Specal
- La Film Stock Siee
- 4 Exhibition Format,
- La Sound Systems
- La Color Systems

La Farly Days of Compute Graphics:

- La Usability
- La Cost
- L> Speed
- La Compatibility of Systems
- La Access
- 4 Transition to Digital

Development in Ca was not due to the singular effects of researchers/scientists, but was due to a myrical of forces working togethe

#### Mary Eller Bute (1906-1983)

1> made films w/ wareforms

#### John Whitney Sr. (1917-1995)

La worked w/ brother (Jame, Whitney)

La designed storgate curridor Por 2001: A Space Odyrsey (1968)

La Arabesque (1963) most influential abstract animation

1) Influenced by Oshar Fischinger and Norman McLaren

John Wherey's first computer was converted from a war machine

## Bell Laboraturies (1925-1980s)

La distinguished history in creation of digital arts

1> created first computer generated singing voice

→ boundary became art and science become fuzzy

Lillian Schwals

Westworld (1973) became first feature film to use

Ken Knowlon Computer generaled animation

Stan Vanderbeek Apple created first VR File Format in 1995

Bell Labs created the first music software in 1957

Peter Folde's (1923-1977

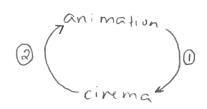
L> Metadata and Hunge (1971)

Lo rewlation ary

La almost looks, like rector animation

La frames morph into next frame

### Animation = Visual Effects + CGI Ewhition L) Computer Generated I magery



# The Rise of Pixar

LO CGI:

L) a general description of animation created using computers

What Makes CGI special:

Lall made up

Ly hasn't blways been accessible -> changing now

La Rise of Computer Graphics Tech:

L) SIGGRAPH

1) founded in 1969

Trun -> 1982

La tech marel

L> Dykstraflex Camere > 1977

La preprogramed paths

Las Star Wars

La Able to digitize applied printing

La Raytracing

La Early Motion Tracking

→ Brilliana in 1984

John Dykstie (1947-)

La Dyhstroflex Com

George Lucas (1944-)

Ly Lucas film (1971)

La created ILM (1975)

L) THX (1983)

Ed Catmull + Ray Alvy Smith

La Graphics Group of ILM

La created Pirar Compute

Los selling teh to mospilels

La Financed by Stere Jobs (1956)

#### Pixar

- La Pixar Image PC released in 1986
- La Caps computer animation production system)
- La Young Sherlock Holmes > 1975 La earliest example of 3d Char. in real background

#### John Lasseter

- La inappropriate behavior towards nomen
- La Cal Arts Character Animotion
- 1) Hired by Disney
- La Wild Things Test →1983
- L> Pitched idea of 3d Bran Little Toaste
- La Shorts
  - 4) Andre and Wally B. (1984)

Luxo Jr. (1986)

Red's Dream (1977)

Tin Toy (1981)

Tech was invented for these shorts

# Toy Story

- La Pirar stopped busming a compute congany
- Lo First entirely CGI
- La Procedural Textures
- La Story driven by tech
- Do modeled chars in clay, scanned points, and created a mesh from that

Pixar combines "speciacle of technology" with "emotional value of the story"

# Growth of CGI as Special Effects

- 1. Star Was
- 2. Tron
- 3. Terminator 2

# Artistic Expression in CG Amin

La Destino (2003) by Paminique Monféry

## Chris Landreth (1961-)

→ Rujan (2004)

4) aged well

-> use cords or algorhilms to model

La Very psycadhelic

La mimics the experimental styling Landreth's subject

5.