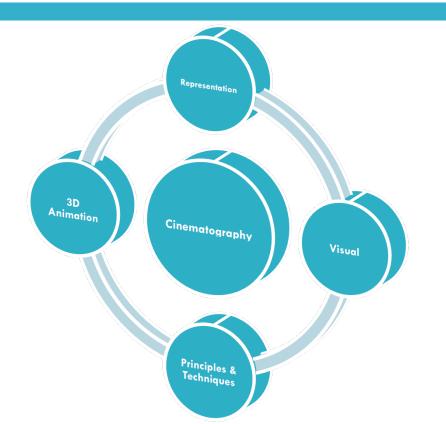
VISUAL CINEMATOGRAPHY

Final Year Project 2012 | Gary Burke

Project Review



 "To represent the principles and techniques of cinematography visually through 3D animation"

Goals

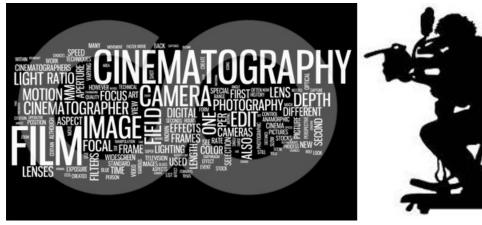
Visualise cinematography

- 3D Animation
- Website
- Represent key areas

Show technical skills

- 3D Animation
- Video Production
- Website Development

Cinematography



'the art or science of motion-picture photography'...'the art of filming a scene'

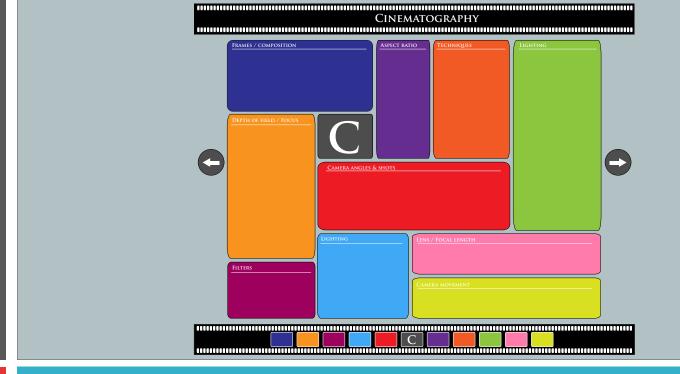
Source: The Harvard Crimson - www.thecrimson.com



'The art of capturing images either electronically or on film stock through the application of visual recording devices and the selection and arrangement of lighting'

Source:

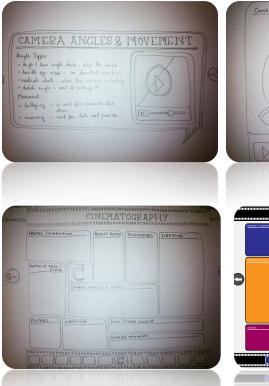
The New York Film Academy – www.nyfa.edu

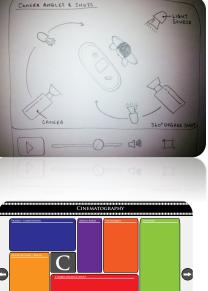


The Process

Idea > Design > Development

Research, Ideas & Design





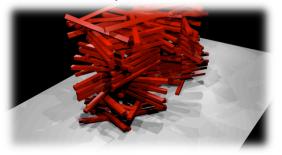
Important: The areas covered began with 13, then 10, and was eventually narrowed down to 6 following research and supervisor discussion.

- Filters
- Aspect Ratio
- Focus
- Photography
- Tips & Tricks
- Other Techniques
- Frames

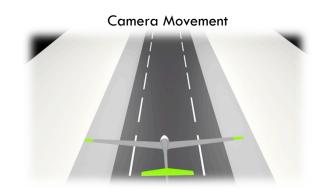
- Film Stock
- Lens
- Lighting
- Depth of Field
- Camera Movement
- Camera Angles & Shots

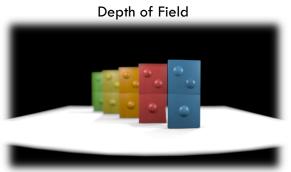
6 Areas

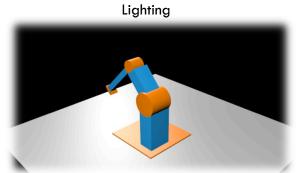
Aspect Ratio



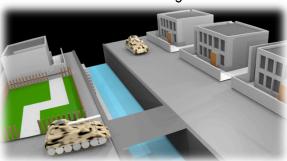




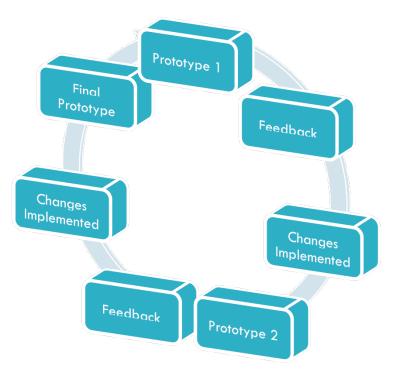




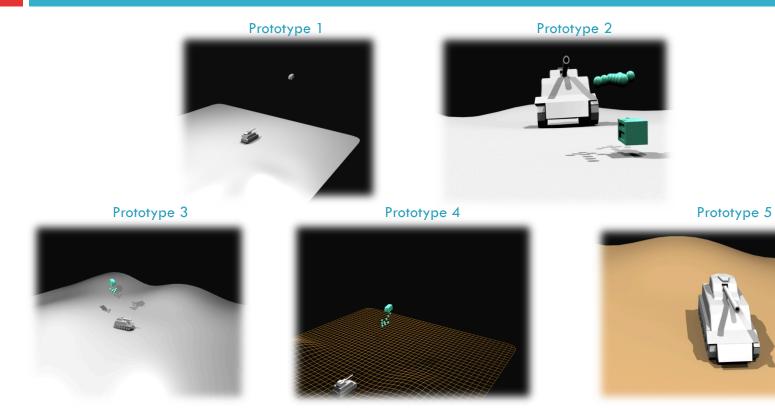
Focal Length

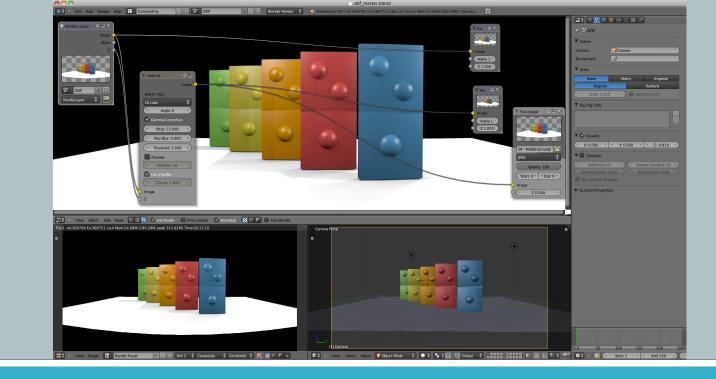


Development



Example – Camera Angles & Shots





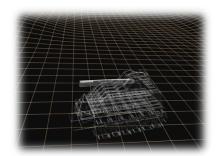
Implementation

Blender > Motion > Final Cut Pro



Modeling

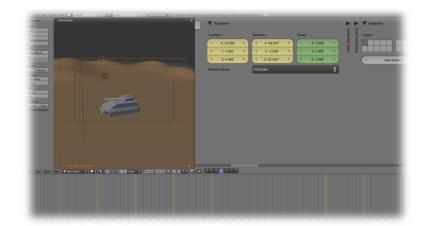
- □ Shaping
- Extruding
- □ Texturing
- □ Lighting
- Camera Work





Animation

- Keyframing
- Object Physics
- □ Rendering





Final Cut Pro & Motion



Final Cut Pro

- Editing
- Audio
 - Voiceover
 - Background Music
- □ Video / Audio Effects
 - Transitions
 - Filters

Exporting

Web

Motion

Intro Titles



Intro Animations





Final Product

Results > Showreel > Website

Final Results

6 Animation Videos (Aspect Ratio, Camera Angles & Shots, Camera Movement, DOF, Focal Length, Lighting)
 Visualising and Describing key areas of cinematography

Between 3 - 4 minutes each
Approx. Total = 20 minutes

Animations (Models, Scenes, Cameras, Audio, Editing, Rendering, Exporting)

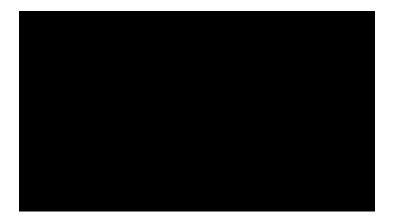
□ Website (www.visualcinematography.com)

Videos

Camera Angles & Shots



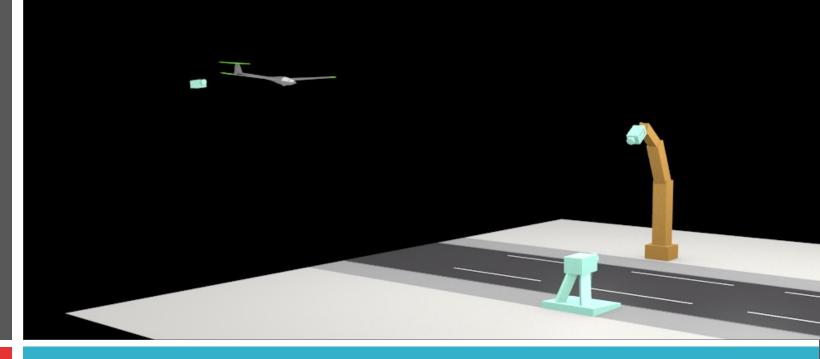
Aspect Ratio



Website







Conclusions

Lesson Learned > Technical Skills

Technical Skills & Lessons Learned

- Knowledge of Cinematography
 Principles, Techniques & Features
- 3D Animation Design & Development
 - 3D Models, Scenes, Rendering Techniques
- Video Production / Website Development
- Project Management
 - Planning
 - Researching
 - Time Management



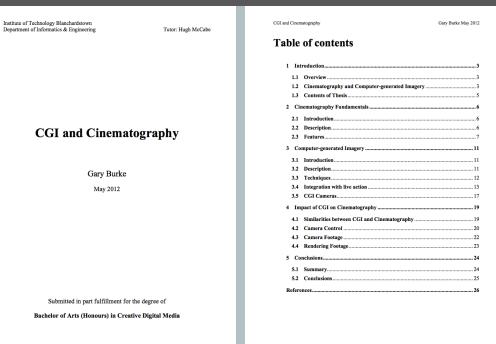




Conclusions

- □ The Topic
 - Research key areas
 - Understand tasks involved
 - Why is it used?
 - How does it effect filmmaking?

- Animations
 - Learn the software
 - Plan each process involved
 - Have a clear idea
 - Time Management



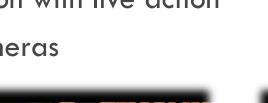
Thesis

CGI and Cinematography

Thesis

CGI

- Techniques
- Integration with live action
- CGI Cameras





Cinematography

- Fundamentals
- Techniques
- Principles



Thesis

Impacts of CGI on Cinematography

- Similarities between both
- Camera Control
- Camera Footage
- Rendering Footage





QUESTIONS?

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