Creating a Time Slicing Effect
GoPro Array Rig & Workflow

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AND THE

GOBLET OF GOPROS

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What can I do with GoPros?
What can I do with GoPros?

How do I become a HERO?
3 MAIN GOALS

• GoPro Array Rig
• Test footage for a demo reel
• Workflow for student in SoFA at RIT
WE WANT THIS!
THE BUILD
RIG DESIGN CONCEPT

• 120mm distance from lens optical center
  – Based on average human eye distance x2
RIG DESIGN CONCEPT

• 20° Horizontal Curvature
  – Based on GoPro “Narrow” FOV MAX with addition of more cameras in the future
  – Based on subject staying in frame, unlike linear arrays
RIG DESIGN CONCEPT

- Vertical extension adjustment
  - Supporting interchangeable straight and 20° curve
  - Gives users a choice in aesthetic
- Plastic Mount Nuggets
  - Quick camera alignment
- Mountable with GoPro Waterproof Housing
- Tripod mount
  - Supported by RIT SoFA cage tripods
- Handgrips with neck-strap
  - For mobile use
- WiFi Remote Sync
  - All cameras sync within 2-3 frames at ~60 ft.
GoPro Rig
- 20° Horizontal Arc
- Straight Vertical
- 14 GoPros
- Hand Grips
- Neck Strap
- Tripod Mount
GoPro Rig

-20° Horizontal Arc
-20° Curved Vertical
-14 GoPros
-Hand Grips
-Neck Strap
-Tripod Mount
WORKFLOW
Adobe Premiere or AVID Media Composer

- Camera organization with provided template and formatting
- Choose which sections of shot you want to preform the time slicing effect on
- Time Remap
Adobe After Effects

- Camera alignment
  - Position
  - Rotate
  - Scale
- Twixtor
  - Interpolation Method
WORKFLOW PROBLEMS

• Presets
  – Glitch in Mac version when using “Remove Fisheye” turning to “1970s” Mode

• GoPro Cineform codec conversion
  – Must be done to use in desired NLE

• Storage
  – GoPro Cineform conversion data ratio of 10:1
DEMO REEL
What does this thing do?
What does this thing do?

What is its purpose?
Provide a useful *tool* to the School of Film and Animation

Create a good base for *creativity*
Questions/Comments?