# Team Stop Motion

Jamie Lesser, Mia Knowles, Kelly Wang,
Olivia Gordon, Christine Cunningham

# History of Stop Motion



*Humpty Dumpty Circus (1898)*
Albert E. Smith and J. Stuart Blackton

http://www.antiquetoyworld.com/auctions/1954-superman-lunch-box-sells-for-11865-at-philip-weiss-auctions/attachment/2011_02_pw_02/

*The Ant and the Grasshopper (1911)*
*Wladyslaw Starewicz*



http://www.ideafixa.com/wp-content/uploads/2013/12/the-ant-and-the-grasshopper.jpg



http://www.behindthevoiceactors.com/voice-compare/Nightmare-Before-Christmas/

*The Nightmare Before Christmas (1993)*
*Tim Burton*

# Film Inspiration



*Address is Approximate*
Tom Jenkins

http://www.fubiz.net/2011/11/22/google-street-view-address-is-approximate/
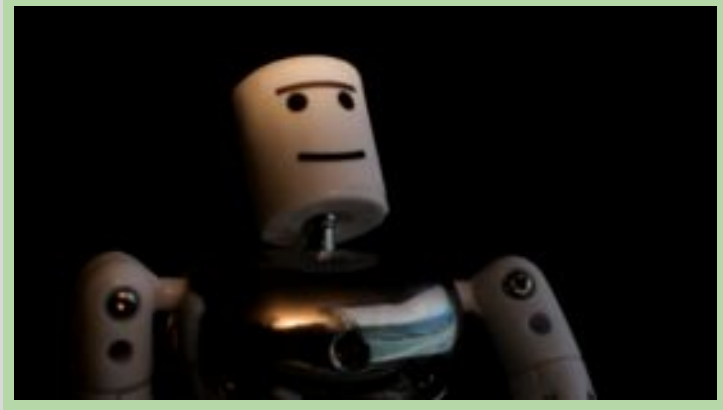
*Marcel the Shell With Shoes On*
Dean Fleischer-Camp

*Western Spaghetti*
PES



http://www.austinchronicle.com/screens/2011-11-04/the-shell-they-sell-hes-swell/



http://secure.traversecityfilmfest.org/websales/pages/info.aspx?evtinfo=37305~4d61cd53-466a-4a38-9b0c-5dd9c77930d9&

# PRE-PRODUCTION

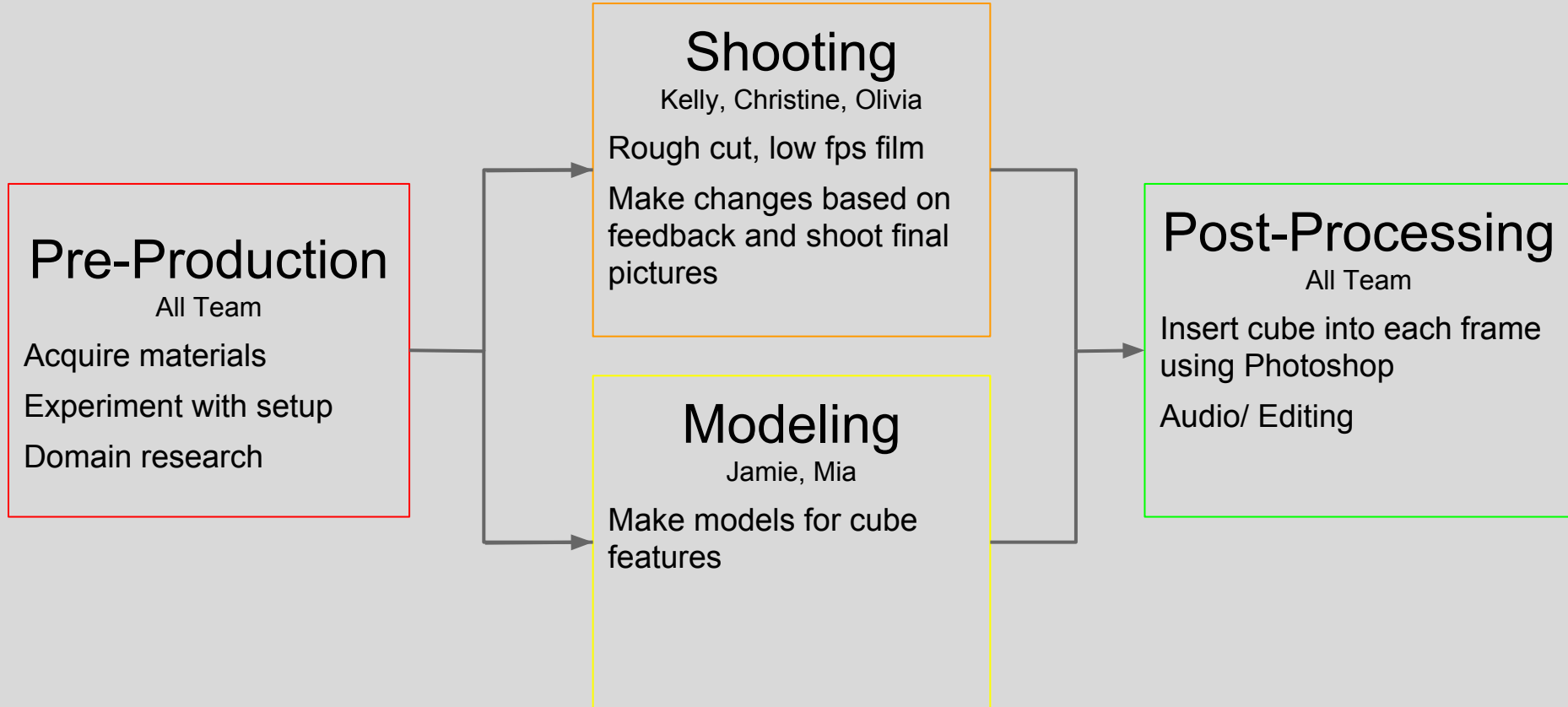# Division of Labor/Milestones

**Pre-Production**

All Team

Acquire materials

Experiment with setup

Domain research

**Shooting**

Kelly, Christine, Olivia

Rough cut, low fps film

Make changes based on feedback and shoot final pictures

**Modeling**

Jamie, Mia

Make models for cube features

**Post-Processing**

All Team

Insert cube into each frame using Photoshop

Audio/ Editing

# PRODUCTION

# Set Up - The Graphics Lab (Closet)

# Choosing a Frame Rate

Claymation/Stop-motion: 24fps/30fps on 2's

Feature Films: 24fps/30fps on 1's

Examples:

Shaun the Sheep - 24fps on 2's

Robot Chicken - 30fps on 2's

ParaNorman - 24 fps on 1's

# Cast of Characters

- ❏ Scotch Tape
- ❏ Stapler
- ❏ Gluestick Gossip Girls
- ❏ Clothespin Army
- ❏ Glue and White-Out Minions

# Making the Film - Stop Motion



First Run

# Making the Film - Stop Motion



First Run

Desk too organized

# Making the Film - Stop Motion



First Run

Desk too organized

# Making the Film - Stop Motion



## First Run

Desk too organized

Lack of depth

# Making the Film - Stop Motion



## First Run

Desk too organized

Lack of depth

Contrast

# Making the Film - Stop Motion



First Run

Desk too organized

Lack of depth

Contrast

Confusing shadows

# The Fix: Layout and Depth

# The Fix: Contrast

# The Fix: Lighting



Cup is in deep shadow

# Camera Work

- Depth of field
- Manual focus and exposure
- Composition



Smaller aperture
Focus on faces



f/22

Larger aperture
Focus on both foreground and background
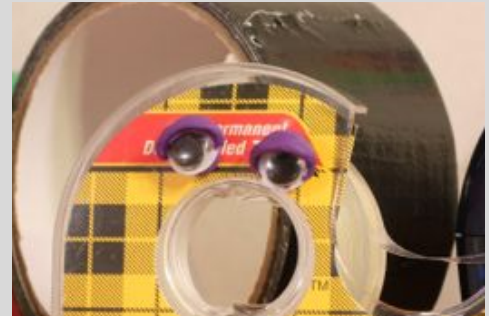
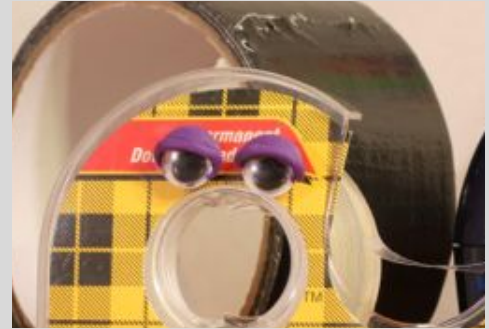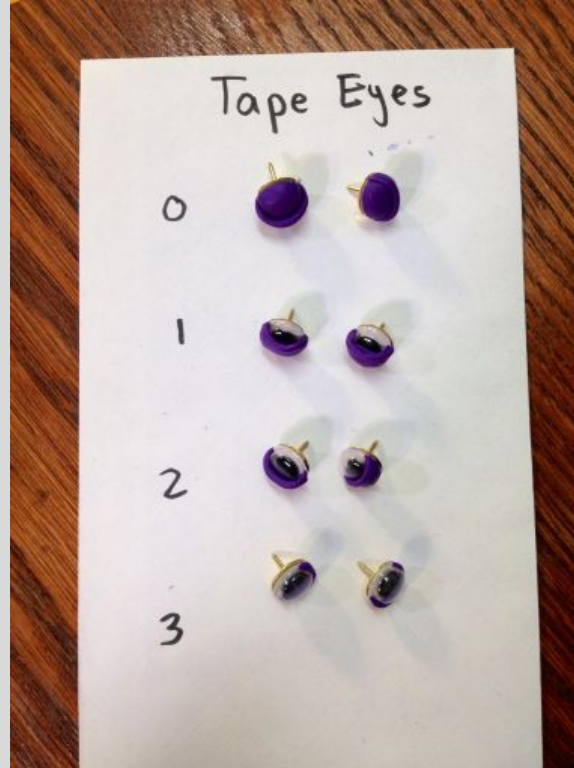# Filming Difficulties

Keeping the camera still

Keeping characters and eyes in the same exact place

GOOD:



BAD:

# Stunt Doubles with Removable Eyes







- Googly eyes and clay for eyelids

- Attached to characters with pins

# MODELING

# Making the Film - Graphics Modeling

1. Stand-in cube for realistic shadows

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1. Stand-in cube for realistic shadows
2. **Panorama**

# Making the Film - Graphics Modeling

1. Stand-in cube for realistic shadows
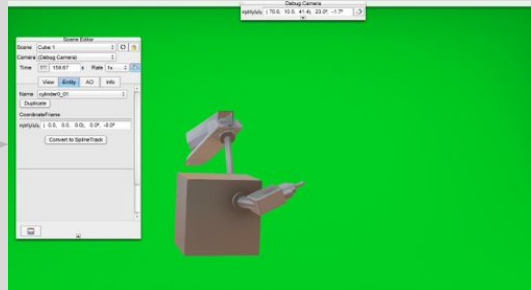2. Panorama
3. **Skybox to cubemap**

# Making the Film - Graphics Modeling

1. Stand-in cube for realistic shadows
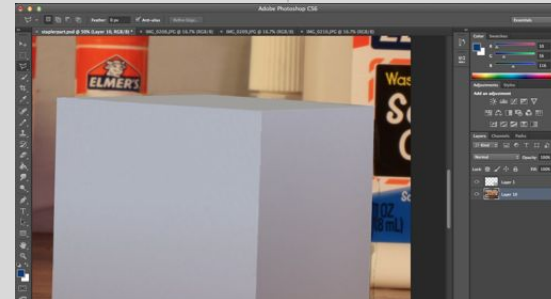2. Panorama
3. Skybox to cubemap
4. **Overlay**

Initial photo

Make the model
(with any appendages)

Match cube model to
cubemap shadows

Use line and blur tools in
Photoshop

Final photo

# Making the Film - Overlaying the cube

- Live action scenes: Block cube at all times

- Stop motion scenes: Minimize obstruction of cube

# Making the Film - Video Editing

- Editing with Photoshop, Windows Movie Maker, and iMovie
- Necessary variations in frame rate
- Edited scenes out of order
- Sound effects to bring the film to life

THANK YOU

Tape

Glue

White-Out

Morgan for emotional

support and use of

the Graphics Lab