SIGGRAPH Talk
Outline
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Observation

• Quadrotors are incredibly capable!
Problem in the World

• Cinematographers struggle to capture cinematography with quads!

• Current autonomous flight limits expressivity

• Manual flight is very difficult
Our Goal / Proposed Solution

• Build an Tool that Enables Cinemaographers to Express and Autonomously Capture the full range of compelling aerial shots
Challenge!

• What’s in our way?

• Naive camera planning algorithms can express cinematography but makes no guarantees of accurate capture using quadrotors

• For example, it’s easy to express a shot that goes too fast!
Approach

• How do we overcome this challenge to get to our goal?

• Build a tool with visual and temporal shot planning that includes stronger guarantees of accurate capture, by adapting cinematography primitives to respect the physics of quadrotors
Methods...

• What tools are we using in our approach?
Tool Demonstration