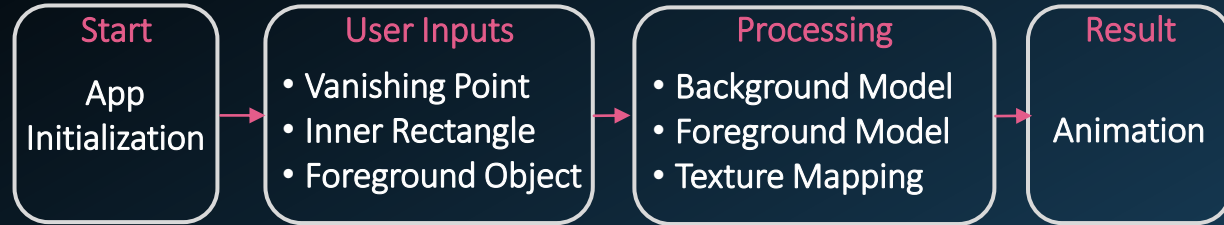


Computer Vision Challenge

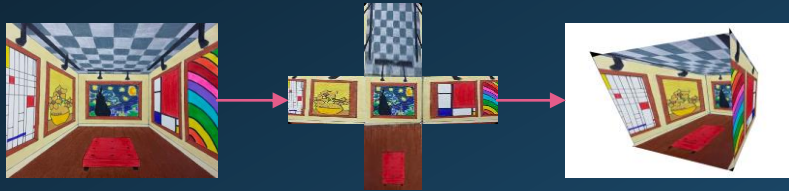
Tour into the Picture

1 WORKFLOW



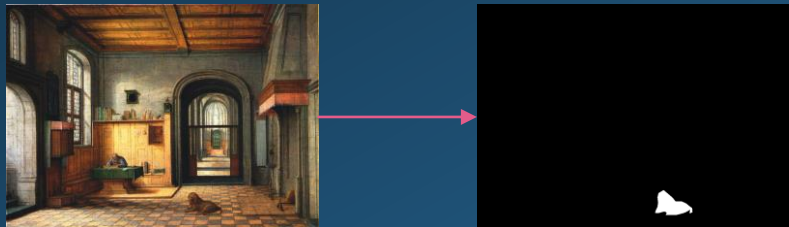
BACKGROUND MODEL

- Box with 5 surfaces [1]
- Geometry of vanishing point and vertices
- Inverse perspective projection



FOREGROUND MODEL

- A simple surface defined by a polygon [1]
- α -value from foreground mask
- $C = (1 - \alpha)C_B + \alpha C_F$



Vincent Amberger – Yuan Fang – Adam Kadmani
Haorui Long – Yao Lu – Van Dai Nguyen

2 ANIMATION

- Game-like movement within the scene using the mouse and WASD keys, where the cursor direction determines the movement plane

3 RESULTS



4 CHALLENGES

- 3D model for foreground objects
- Scenes without clearly identifiable vanishing point

5 REFERENCE

[1] Horry, Youichi, Ken-Ichi Anjyo, and Kiyoshi Arai. "Tour into the picture: using a spidery mesh interface to make animation from a single image." *Proceedings of the 24th annual conference on Computer graphics and interactive techniques*. 1997.