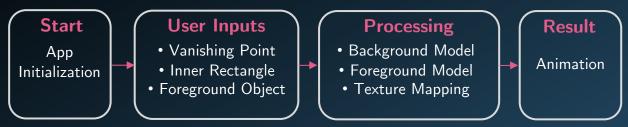
Computer Vision Challenge Tour into the Picture

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1 WORKFLOW



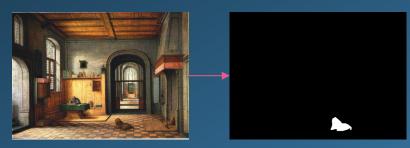
BACKGROUND MODEL

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



FOREGROUND MODEL

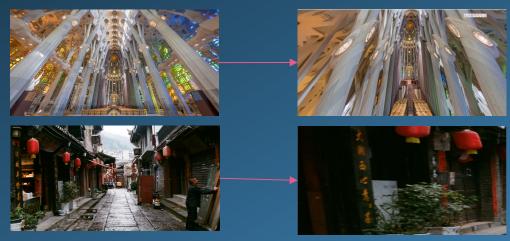
- A simple surface defined by a polygon
 [1]
- α-value from foreground mask
- $C = (1 \alpha)C_R + \alpha C_F$



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
- Implementation of the mouse movement
- UI-Challenge: To give user explicit hints on workflow without too much text

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.