Mimicking Hand-Drawn Pencil Lines

Zainab Meraj¹
Brian Wyvill¹
Tobias Isenberg²
Amy Gooch¹
Richard Guy³

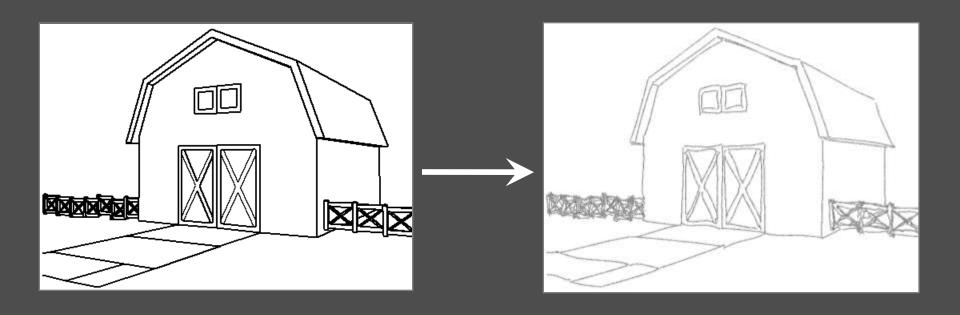






Goals

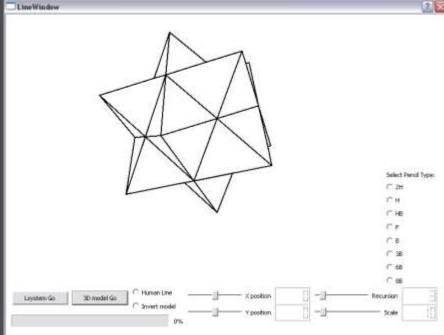
- mimic human-drawn pencil lines
- continuously create unique lines
- technique computationally inexpensive



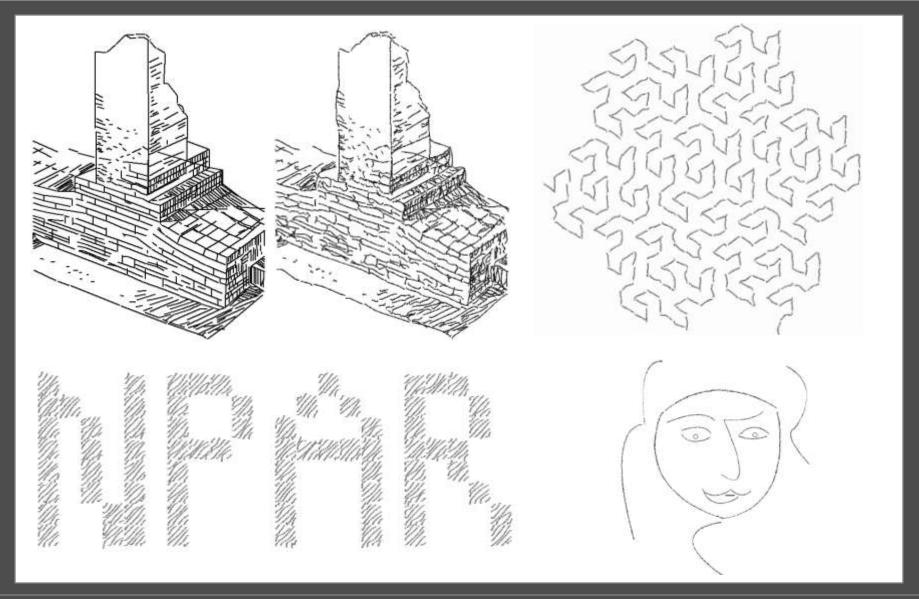
Approach

- analysis of human line paths and texture capture
- paths: human arm model Flash and Hogan
- line textures: statistical approach co-occurrence matrices to synthesize realistic pencil traces





Some Examples



Evaluation: 9+9 images, 11 participants

