

Mirror Anamorphosis: A Drawing Interface

What are the needs for artists to make mirror anamorphosis?

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Motivation

- Manual drawing
- Few tools
- No drawing interface

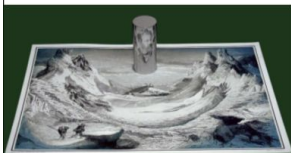


Figure: The Mysterious Island by István Orosz

Challenges

- Any mirror object
- Reflection colour/shape
- Drawing preference
- User input

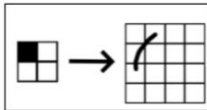
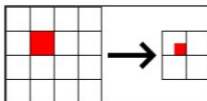


Figure: Anamorphic art by István Orosz

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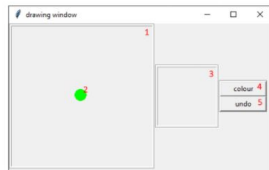
mapping

- User input mapping
- Any mirror object



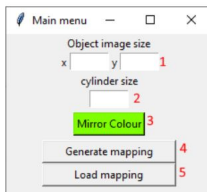
Drawing interface

1. Surface drawing
2. Mirror object
3. Mirror object drawing
4. Colour palette
5. undo



User input

1. Mirror object dimensions
2. Cylinder size
3. Mirror colour
4. Cylinder mapping
5. User mapping



Colour and shape distortion

- Colour and shape reflection

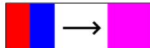


- Coloured mirror



Normal mirror Red mirror

- Colour blending



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Result

Mirror



Surface

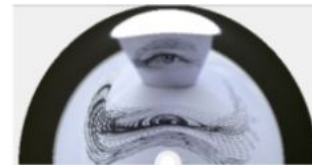
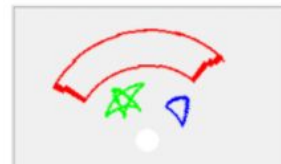


Figure: Anamorphic art by István Orosz