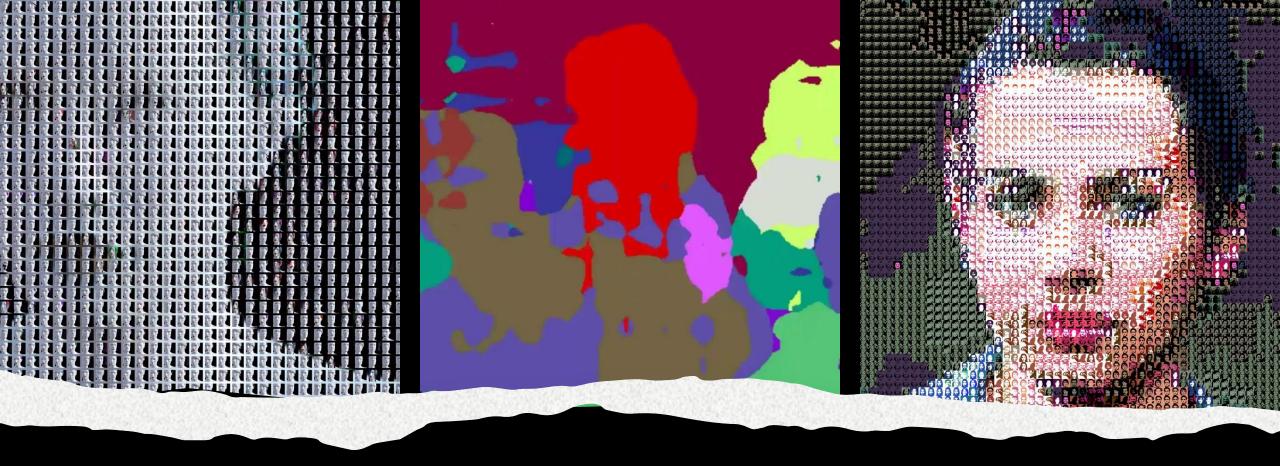


Research Questions

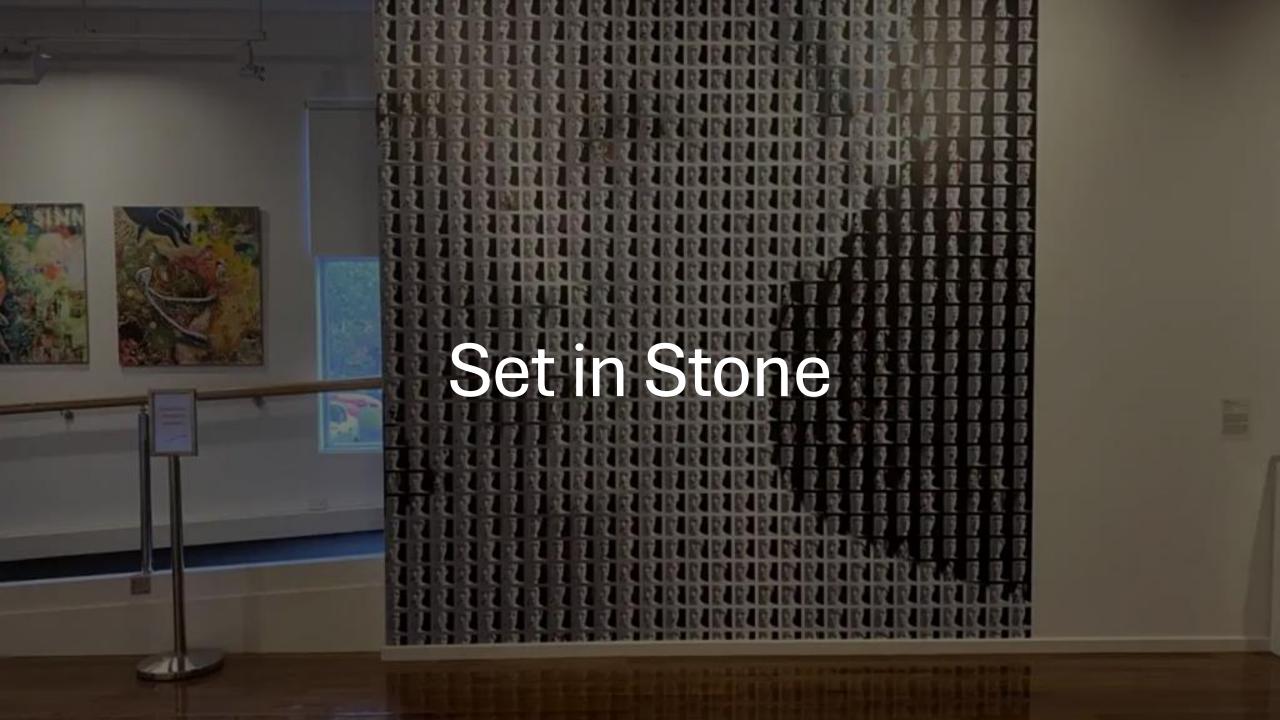
- 1. Why do AI systems perceive gender and how do they qualify gender in the images they generate?
- 2. If we create a biased dataset and slowly debias it by introducing new data, how will the generated images be affected? Is it possible to debias datasets?
- 3. What are the implications for the visual representation present in generative images of people?





Three artworks

- Set in Stone
- Frankenstein's Telephone
- Gender Tapestry













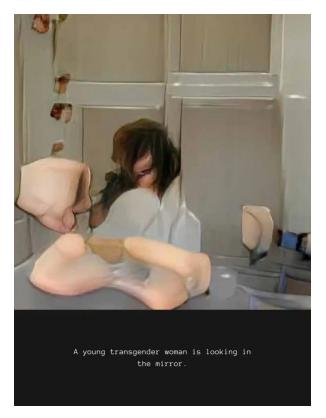


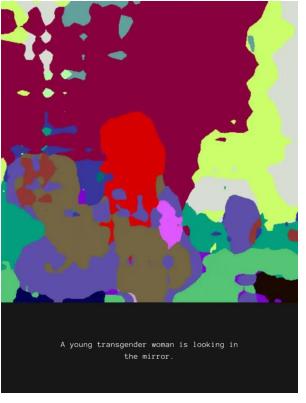
Dataset Images

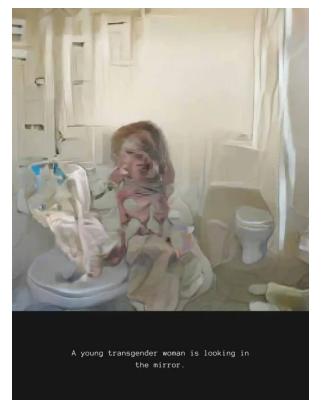
- 3D rendered
- Animated as stills
- Racially diverse



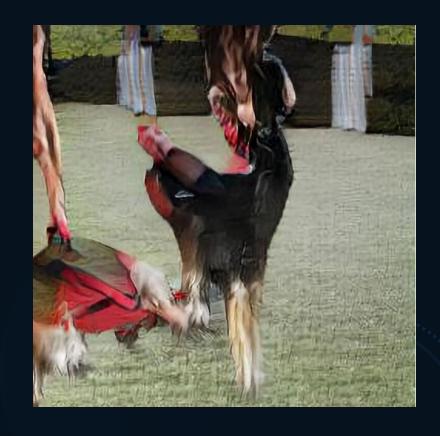
Frankenstein's Telephone



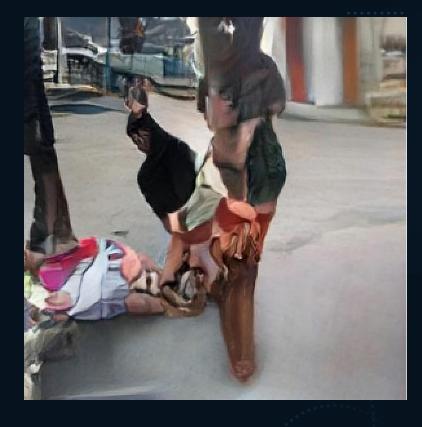












Original Prompt:

A woman with a dog on a leash.

Im2Txt Caption:

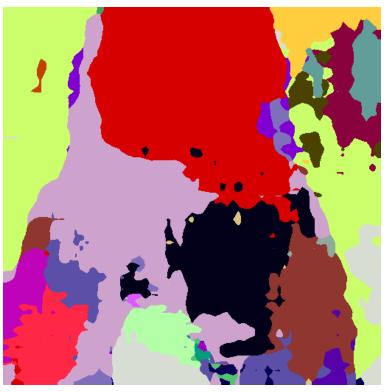
A man riding a

skateboard down a

street..

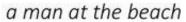
A "young girl" apparently!













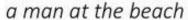
a woman at the beach



a non-binary person at the beach

Further Explorations: ATTNGAN







a woman at the beach



a non-binary person at the beach

Further Explorations: Clip+VQGAN

Midjourney nonbinary people from version 1-6

- Thin
- Young
- Pale
- Fairy hair



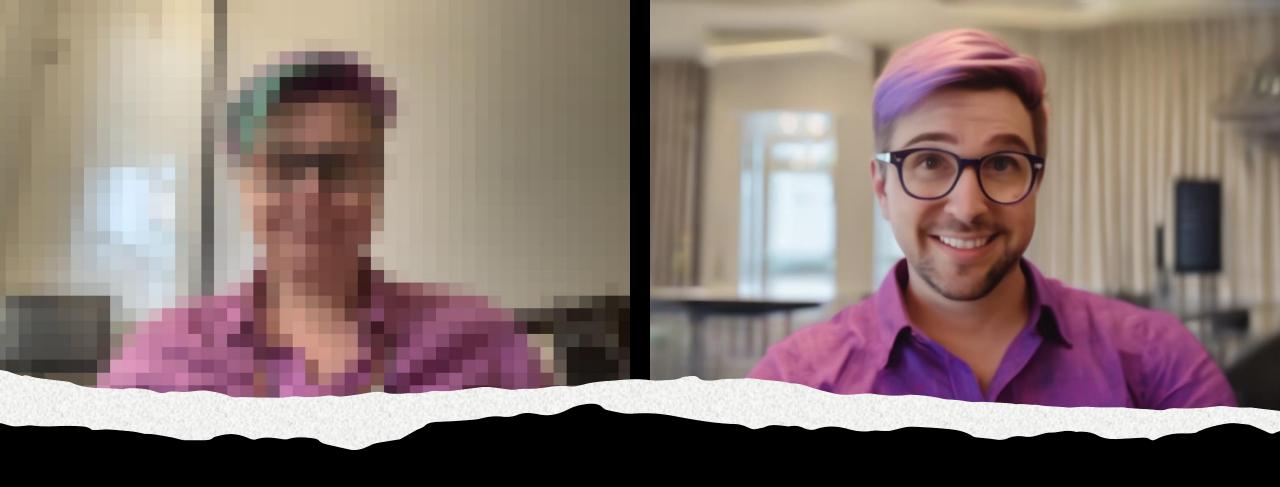






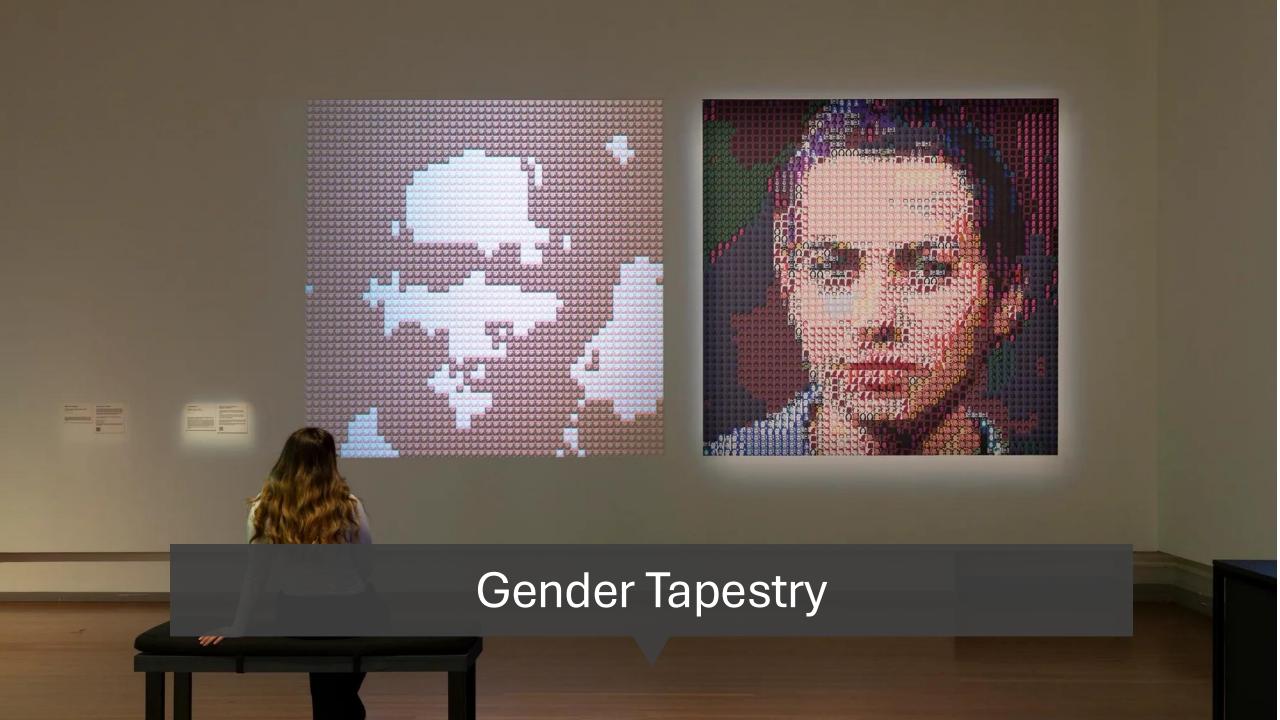


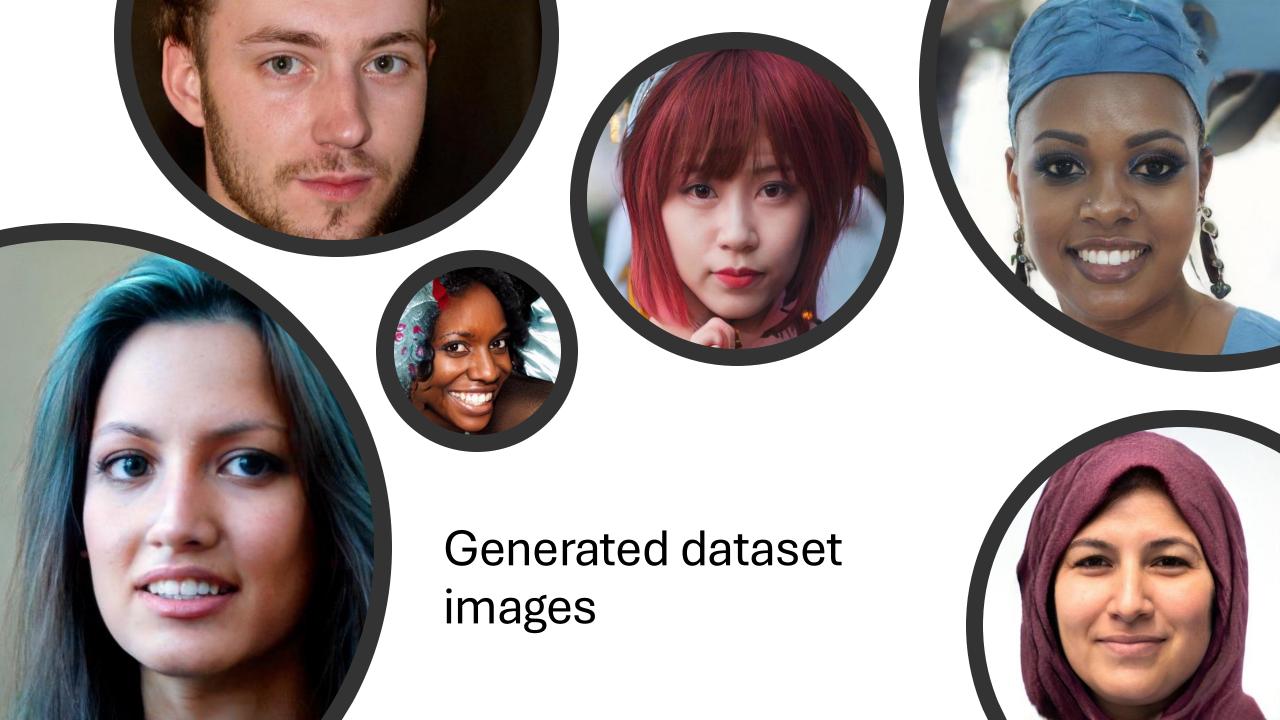




Pixelated explorations

From Pixelated image to Caption to Generated image



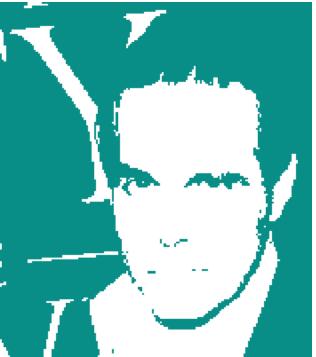














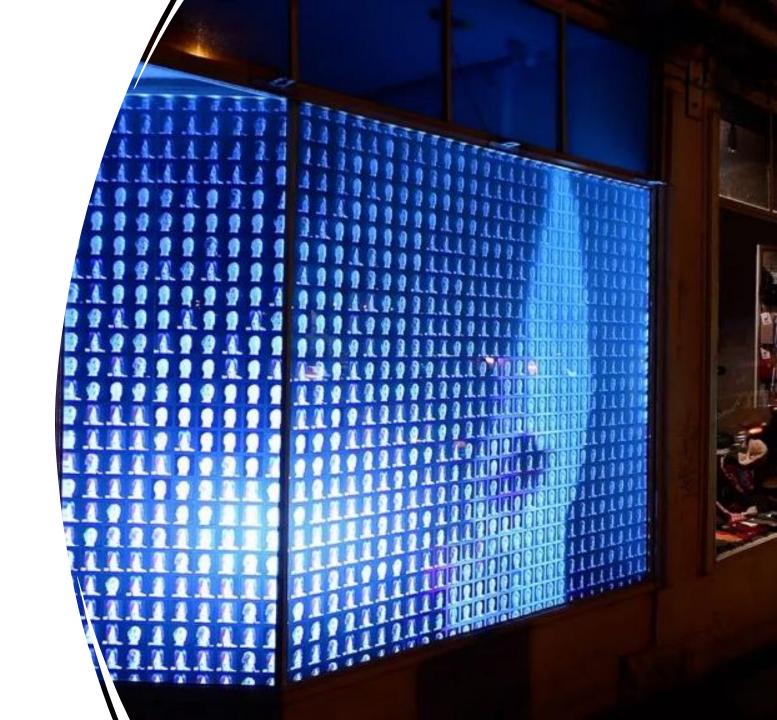
Custom assigned color

- Multi Label Classifier trained in 6 Pronoun sets
- Percentages added together and turned into RGB
- Modulo operator introduced randomness



Findings

- Bias is deeply embedded in datasets
- Al can evolve, but not perfectly
- Representation matters
- The best time to start is yesterday. The next best time is now



Gender Tapestry J. Rosenbaum

Thankyou

- Social media links: www.minxdragon.com
- Website: www.jrosenbaum.com.au

