

Q1 Research Question

■ Developments in AI

- Each new generation become more realistic than the previous, correcting errors and problems from before.

■ History of Generative AI

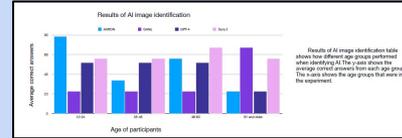
- Harold Cohen created the first AI generator in hopes of finding new ways of creating art forms from canvas to screen.

■ How people Identify AI

- Simple things like extra hands, boxlike figures, or a state of perfectness, are ways people identify AI.

Hypothesis: If I lay out a set of AI photos among real ones, then people would not be able to identify them because AI's technology is very advanced.

Q2 Data Analysis and Results



Average of correct answers per age group

	AARON	Sora 2	ChatGPT-4	Sora 2
12-24	58	25	58	63
25-45	25	25	58	63
46-60	63	25	58	75
61 and older	25	75	25	63

In this experiment, there were many patterns that occurred. The numbers that frequently showed up were, 58%, 63%, 75%, and 25%. These percentages were common among the age groups. Some generators such as Sora 2 had common numbers across the age groups. The percentage of 63% commonly appeared for Sora 2. For ChatGPT-4 it was 25%, G4Ns was 58%. These numbers show the relationship between the different age groups' answers.

12-24					25-45				
Person	AARON	Sora 2	ChatGPT-4	Sora 2	Person	AARON	Sora 2	ChatGPT-4	Sora 2
Person 1	0/2	0/2	1/2	1/2	Person 1	1/2	1/2	1/2	1/2
Person 2	0/2	0/2	0/2	0/2	Person 2	1/2	1/2	0/2	0/2
Person 3	0/2	0/2	0/2	1/2	Person 3	0/2	0/2	0/2	1/2
Person 4	1/2	0/2	1/2	1/2	Person 4	1/2	0/2	1/2	1/2
Average	58%	25%	58%	63%	Average	58%	25%	58%	63%
Overall %				58%	Overall %				47%

Each of these tables show the correct answers of each person in their age groups. It also shows the percentage for each AI generator.

46-60					61 and older				
Person	AARON	Sora 2	ChatGPT-4	Sora 2	Person	AARON	Sora 2	ChatGPT-4	Sora 2
Person 1	0/2	0/2	1/2	1/2	Person 1	0/2	0/2	0/2	0/2
Person 2	0/2	0/2	0/2	0/2	Person 2	0/2	0/2	0/2	1/2
Person 3	0/2	0/2	0/2	0/2	Person 3	1/2	0/2	0/2	0/2
Person 4	1/2	0/2	1/2	1/2	Person 4	1/2	0/2	1/2	1/2
Average	63%	25%	58%	75%	Average	25%	75%	25%	63%
Overall %				61%	Overall %				44%

Q3 Methodology/Procedure

Photos

Presentation

Analyze results

- 2 to 3 AI photos from AARON, GANs, Chat-GPT 4, and Sora 2.
- Find real photos from the same time period.
 - Make a slideshow with the AI and real photos found
 - Organize them into 4 slides in chronological order.
 - Show participants the slideshow, have them guess which are AI
- Make age groups that have at least 4 people per group.
- Make an average of the results for each group
- Make a graph to display the results.

Q4 Interpretation & Conclusion

- The 46- 60 year olds did the best, concluding in rejection the the Hypothesis
- On average, (52%) people were able to identify a majority of the AI images in the presentation, also rejecting the hypothesis.

AI will get better and it will be even harder to identify what is real and what is fake. As of now, people are still able to identify AI images, but in the future that might not be possible, with AI advancements.