Wikipedia vs ChatGPT: A study on their Use as Tools for Topic Discovery and Learning

Alexandra Herghelegiu

Wikipedia vs ChatGPT For learning

WikipediA

The Free Encyclopedia

English

6 751 000+ articles

Русский

1 949 000+ статей

Español 1 909 000+ artículos

Deutsch

2 856 000+ Artikel

Italiano

1 837 000+ voci

العربية

+000 222 1 مقالة

日本語 1 394 000+ 記事

Français 2 571 000+ articles

中文

1 389 000+ 条目 / 條目

فارسى +000 982 مقاله

EN ~ Q

 $\dot{\Sigma}_{A}$ Read Wikipedia in your language \checkmark



ChatGPT 3.5 ~



How can I help you today?

Come up with concepts

for a retro-style arcade game

Create a personal webpage for me after asking me three questions

Brainstorm content ideas

for my new podcast on urban design

Write a Python script

to automate sending daily email repor...

Message ChatGPT...

ChatGPT can make mistakes. Consider checking important information.

Knowledge test

Contributory negligence is	s *					
Not a valid defence in r	negligence o	cases.				
When an injured person	n is found p	artially resp	onsible for t	heir own inj	uries.	
When there are multipl	e people res	sponsible fo	r the harm c	of the defen	dant.	
When proximate cause	e is proven.					
🔵 I don't know						
How confident are you in	the above a	answer? *				
	1	2	3	4	5	
Not confident at all	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	Very confident

Post-Study Questionnaire

l felt confident in my u	Indersta	nding of	the topic	after ex	ploring it	with Wikipedia *
	1	2	3	4	5	
Strongly disagree	0	0	۲	0	0	Strongly agree
I felt confident in my u	Indersta	nding of	the topic	after ex	ploring it	with ChatGPT *
	1	2	3	4	5	
Strongly disagree	0	0	0	۲	0	Strongly agree

- No statistically significant difference in the students' performance in the knowledge tests
- ChatGPT:
 - Better user engagement
 - More personalised content
 - Tended to repeat itself
- Wikipedia:
 - Immediate overview of the concepts (table of content)
 - Filtering content was difficult
- participants perceived their confidence of topic understanding to be higher after using ChatGPT
- however less confident answers when faced with the knowledge test after using ChatGPT



Does Predictive Text Affect the Quality of Writing

Cameron Round

Part II

cr667@cam.ac.uk

What I did

- Image captioning task
- Setwise comparison

Symmetrical photo of subway platform. Predominantly red and dark colours, apart from platform floor which is illuminated by central lights.

We are in a long corridor, slate tile floors, metallic red panels line the walls. The ceiling is a mix of long white lights, red panels and two signs hang from the ceiling showing a pram, a wheel chair, and number 1.

An underground station. It is imposing and dystopian - red, glaring, neon, empty. It is very clean and unnatural, with disabled toilets shown on signs in the hallway.

eerie train platform that is very dark above and below the platform contrasted by bright lights at the centre of the platform. there are signs to show where the accessible carriges are and when the next train is coming

A symmetrical image of an open subway station without people, which has been photoshopped to be monochrome with the exception of red lights. The platform and lights are at the centre of the image, with spaces for tracks in either side

A view along long corridor with red tiled walls. There are lampposts down the centre of the platform.

An ominous hallway which appears to be an airport corridor, signs give directions.

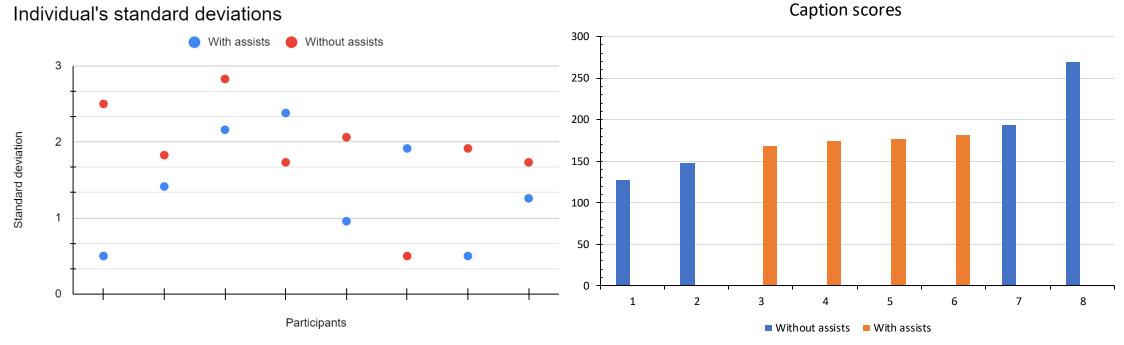
middle of underground train with bright lights in centr and dark sides with train rails unvisible and signs haning down on each side with a red vibe



The results

Expert comparison

Wider comparison



Mean standard deviations TTest: p = 0.087 Mean with assists: 3.94 Mean without assists: 4.97 Scores TTest: p = 0.03

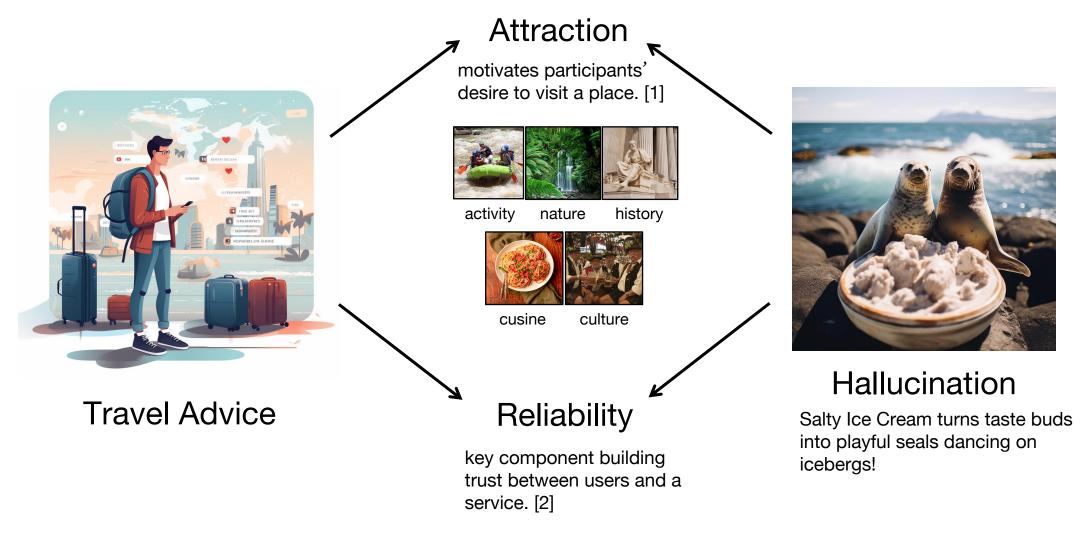
Levene test: p = 0.048 Mean with assists: 175 Mean without assists: 185



Impact of LLM Hallucinations on Travel Advice: Entertaining and Less Reliable

Chang Liu

Research Question



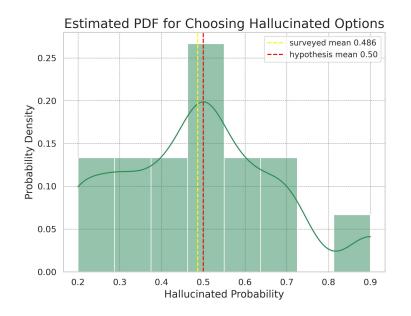
[1] Seyidov, Javid, and Roma Adomaitienė. "Factors influencing local tourists' decision-making on choosing a destination: a case of Azerbaijan." Ekonomika 95.3 (2016). [2] Mohd Shariff, Shafiza, Xiuzhen Zhang, and Mark Sanderson. "User perception of information credibility of news on twitter." ECIR 2014.

Results

Attraction - hallucinated probability

Null hypothesis:

the likelihood of choosing hallucinated and real travel advice is equal.

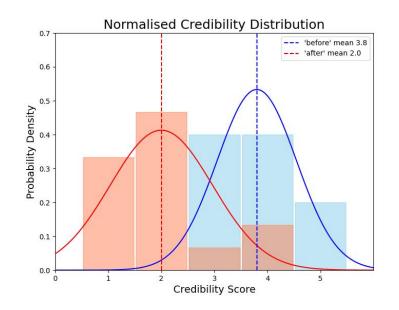


Fail to reject the null hypothesis, as difference is not statistically significant (one sample t-test p = 0.80).

Reliability - credibility score

2 rounds of participant ratings of perceived reliability of travel advice:

'before' and 'after' recognising hallucinations



Significant decrease from initial 3.8 to 2.0. (p = 6.87e-6)

Sometimes Tell Me, Sometimes Ask

Me: Comparing Logical Discernment using AI Systems that Intelligently Frame Explanations and AI Systems with Causal Explanations

A Replication Study of:

Don't Just Tell Me, Ask Me: AI Systems that Intelligently Frame Explanations as Questions Improve Human Logical Discernment Accuracy over Causal AI explanations

[Danry et al.]



CHARLES YANG

ABOUT

Research Questions:

- (1) Do AI interventions influence the discernment accuracy and perceived information insufficiency (including when controlling for personal factors)?
- (2) Do personal factors impact discernment accuracy or perceived information insufficiency?
- (3) How does the type of feedback impact the cognitive load imposed on the user?

Equality of opportunity is an ideal that cannot be realized with governmental actions. The 2010 Equality Bill in Britain ended up being repealed.

Control

Equality of opportunity is an ideal that cannot be realized with governmental actions. The 2010 Equality Bill in Britain ended up being repealed.

Feedback from the Al logical assessment system: If one bill in Britain did not lead to equality of opportunity, it does not follow that equality of opportunity cannot be reailized with other government actions.

>>



Causal AIexplanations Equality of opportunity is an ideal that cannot be realized with governmental actions. The 2010 Equality Bill in Britain ended up being repealed.

➡ Feedback from the Al logical assessment system: If one bill in Britain did not lead to equality of opportunity, does it follow that equality of opportunity cannot be reailized with other government actions?

>>



Al-framed Questioning

RESULTS

Key Findings:

- Participants were much better at identifying 1. logical fallacies with AI interventions (statistically significant in the case of AIframed questioning) (Similar to original study)
- AI-framed questioning wasn't as successful as 2. causal AI explanations at persuading participants a statement was logically valid even when it was (Similar to original study)
- Participants generally preferred the causal AI 3. explanations as opposed to the AI-framed questioning (Contrasts original study)
- The cognitive load in all 3 conditions is very 4. similar (New to this study)



0.77

Invalid Statements

Weighted Discernment Accuracy

0.9

0.8

0.7

0.6 0.5

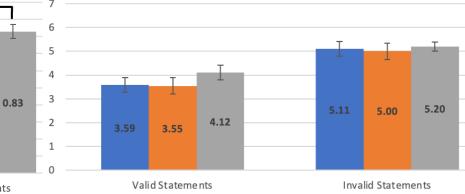
0.4

0.3

0.2

0.1

0



Raw TLX Score 50 45 40 35 30 25 20 15 10 5 0 Control Causal AI Explanations AI-Framed Questioning

0.40

Valid Statements

0.33

Impact of differe	nt factors on Weighted Accur	acy and Pestatements	rceived	l Informatior	Insufficiency	for Invalid
Factor	Dependent Variable	F	df	Sig.	Observed Power	Partial η squared
AI Feedback	Weighted Accuracy	2.414	2	0.096	0.473	0.060
Group	Information Insufficiency	0.226	2	0.798	0.084	0.006
Truck in AI	Weighted Accuracy	4.419	1	0.039*	0.546	0.056
Trust in AI	Information Insufficiency	0.092	1	0.763	0.060	0.001
Cognitive	Weighted Accuracy	3.323	1	0.072	0.436	0.042
Reflection Level	Information Insufficiency	3.122	1	0.081	0.415	0.040
Dui Ku la la	Weighted Accuracy	7.088	1	0.009**	0.748	0.086
Prior Knowledge	Information Insufficiency	5.832	1	0.018*	0.664	0.072
Duine Daliaf	Weighted Accuracy	0.997	1	0.321	0.167	0.013
Prior Belief	Information Insufficiency	1.527	1	0.220	0.230	0.020

Perceived Information Insufficiency

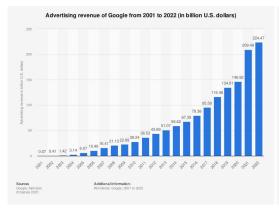
Learn Your Biases -Advertisers Already Exploit Them

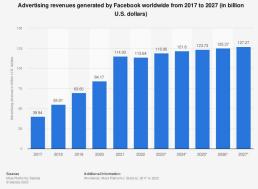
Cosmin Moroca

Replicating "Recommendation for Video Advertisements based on Personality Traits and Companion Content" by Dey, S. et al

How does a person's personality impact the kind of video advertisement they prefer?

- Custom Audiences & Lookalike Audiences
- Google Ad Rank







Results

Power Analysis: Needed ~231 samples for α = 0.05, large effect size and power = 0.8. Only had 34.

	Novelty	Engagement	Pertinence	Purchase Intent	A/V Quality
Extraversion	0.4449(0.615)	0.4260(0.602)	0.1492(0.851)	1.4482(0.090)	0.0901(0.925)
Agreeableness	-1.1052(0.140)	-1.0987(0.114)	-0.4837(0.458)	-1.0235(0.136)	-0.7959(0.316)
Openness	-0.0200(0.965)	-0.2891(0.500)	-0.1272(0.759)	-0.2020(0.633)	-0.3201(0.525)
Conscientiousness	1.2059(0.183)	1.4034(0.100)	0.8927(0.269)	$2.7335(0.004^*)$	0.1592(0.867)
Emotional Stability	0.5194(0.349)	-0.4495(0.379)	-0.4263(0.392)	-0.5458(0.285)	0.0594(0.920)
R^2	0.689	0.631	0.777	0.762	0.642

Table 4: β coefficients of the linear regression analysis performed on the participants' opinion about alert video ads. In the brackets is the probability of a Type I error. Asterisks denote statistical significance with $\alpha = 0.05$.

	Novelty	Engagement	Pertinence	Purchase Intent	A/V Quality
Extraversion	-0.1967(0.820)	0.1623(0.873)	-0.5253(0.594)	1.1012(0.346)	-1.1501(0.216)
Agreeableness	1.00882(0.135)	1.5222(0.060)	-0.1718(0.815)	-0.4681(0.589)	0.3821(0.575)
Openness	0.7246(0.101)	0.8560(0.099)	-0.1858(0.698)	-0.2970(0.597)	0.2446(0.580)
Conscientiousness	-0.1656(0.839)	0.7063(0.464)	0.5944(0.523)	2.1559(0.062)	-0.7343(0.395)
Emotional Stability	-0.2843(0.481)	-0.7779(0.113)	-1.2684(0.013*)	-1.2393(0.032*)	-0.2957(0.483)
R^2	0.698	0.668	0.653	0.649	0.574

Participants with high neuroticism were found to have higher purchase intent and pertinence for amusing advertisements. High neuroticism -> mood swings.

Table 5: β coefficients of the linear regression analysis performed on the participants' opinion about amusing video ads. In the brackets is the probability of a Type I error. Asterisks denote statistical significance with $\alpha = 0.05$.

Conscientious participants were found to have a higher purchase intent for alert advertisements.

Many alert advertisements were for financial products like insurance.



Grounded Abstraction Matching in interactions with code-generating LLMs

P342 Project EMMA URQUHART (EU233)

Replication Study:

"What It Wants Me To Say": Bridging the Abstraction Gap Between End-User Programmers and Code-Generating Large Language Models [1]



Replication Method

Spreadsheet analysis in Excel + API invocation in Python

Deterministic system + Nondeterministic system

[1] Liu, M. X., Sarkar, A., Negreanu, C., Zorn, B., Williams, J., Toronto, N., & Gordon, A. D. (2023, April). "What It Wants Me To Say": Bridging the Abstraction Gap Between End-User Programmers and Code-Generating Large Language Models. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-31).



Results:

4	*		+
Category	Statement	Deterministic	Non-deterministic
Comprehensibility	I would consider my interac-	$3.0~(3.17\pm0.69)$	$5.0~(4.67\pm0.47)$
	tions with the tool to be under-		
	standable and clear.		

Diminished abstraction gap: All users succeeded on their first attempt (with one exception due to misinterpretation)

Deterministic system:

- concise and technical
- less accessible to non-technical users

Non-deterministic system:

- verbose & contextualized
- more flexible to different query types



Transforming Textual Discourse: Evaluating ChatGPT's Influence on Attitude and Discussion Dynamics Among Cambridge's Postgraduate Students

BY HANNA FOERSTER (MPHIL ACS)

Research Question

- How do attitude, sentiment, and phrasing choices in text discussions change after exposure to a biased LLM?
- Experiment setup:
 - Discussion topics (Cambridge's dining hall food, bicycle infrastructure, ...)
 - ChatGPT produced reference text (pos.-/neg.-/nonbiased)
 - Produce own text discussion





Results

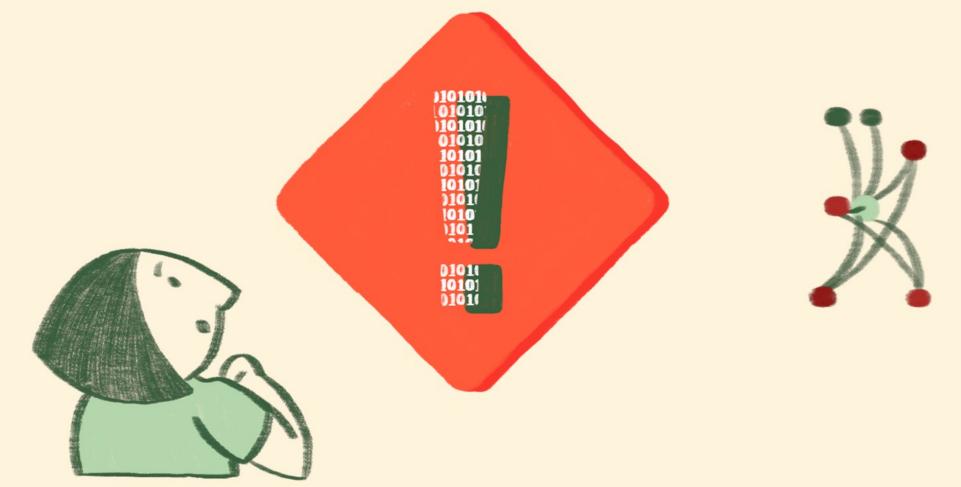
- Non-biased:
 - Tendency to include discussion of diverse opinions
 - More diplomatic phrasing
- ► Biased:
 - Tendency for one-sided discussions
 - High attitude clarity: Participants echoed own views
 - Lower attitude clarity: Participants echoed more of reference text views
 - More subjective and extreme phrasing
- Implications:
 - ChatGPT transforming textual discourse: Diversifying or polarizing views
 - Need for AI literacy of students & Research on bias in LLMs

Compared groups	Attitude	Clarity	Correctness
positive VS negative	0.68	0.24	0.45
neutral VS positive	0.84	0.67	0.57
neutral VS negative	0.03	0.13	0.74

Table 1: Change in attitude p-values



"Reducing Normative Dissociation And 'The Thirty-Minute Ick' On Instagram With BetterImagesOfAI "



Yasmin Dwiputri & Data Hazards Project / Better Images of AI / Managing Data Hazards / CC-BY 4.0

Israel Mason-Williams

Amanda Baughan, Mingrui Ray Zhang, Raveena Rao, Kai Lukoff, Anastasia Schaadhardt, Lisa D Butler, and Alexis Hiniker. 2022. "I Don't Even Remember What I Read": How Design Influences Dissociation on Social Media. In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems. 1–13.

reading and socialising.

Lisa Butler. 2011. Must dissociation be unusual? Journal of Trauma and Dissociation 12, 4 (2011), 454.

Rormative Dissociation

Reduced Sense of Agency

- Reduced Self Awareness
- Reduced Sense of Time
- Reduced Memory ------

Flow States
Meaningful and creative endeavours:

Zone States

Meaningless activities : gambling and other addictive activities.

If Social Media Is Making You Sad, You're Not Alone

-Minute Ick

Jonatha A. Tran, Katie S. Yang, Katie Davis, and Alexis Hiniker. 2019. Modelling the Engagement-Disengagement Cycle of Compulsive Phone Use. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems. Association for Computing Machinerv. New York. NY, USA, 1–14. https://doi.org/10.1145/3290605.3300542

11

Why Social Media Makes People Unhappy—And Simple Ways to Fix It

Research suggests platform designs make us lose track of time spent on them and can heighten conflicts, and then we feel upset with ourselves

August 5, 2022 by Christian Zilles

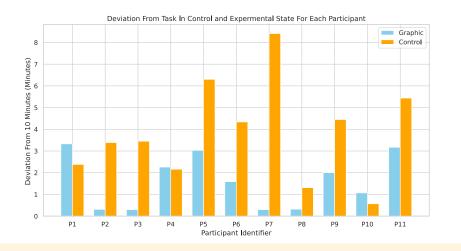
BY DAISY YUH

JUNE 20, 2022 | 5 MIN READ



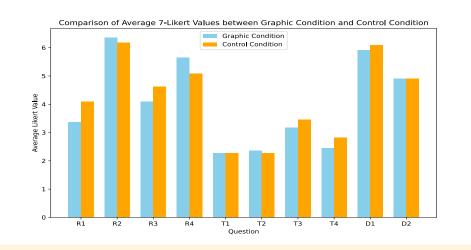
Measuring Dissociation

"Consume recommended content on Instagram for exactly 10 minutes"



T-statistic:-2.967 and Significance: 0.014

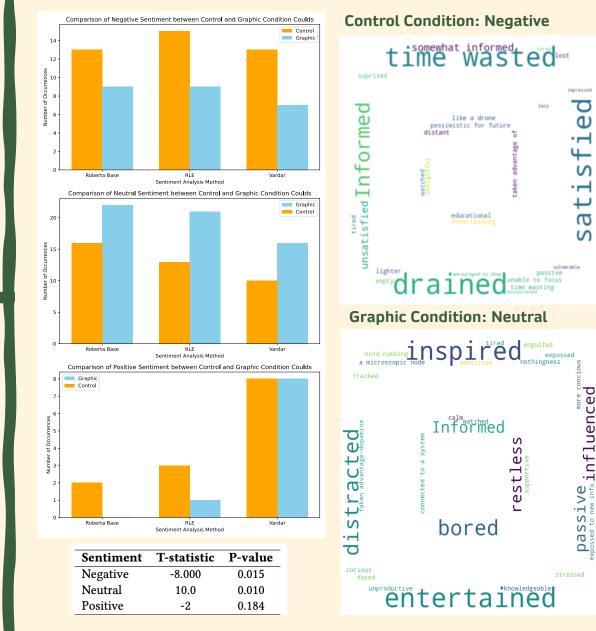
Measuring Perceptions of Social Media



T-statistic:-2.967 and Significance: 0.014

Exit Point Sentiment Analysis

"As a result of using Instagram I feel?"



On the topic of Individualization

Adding people back into "When People and Algorithms Meet"

Jonathan Haley

About

When People and Algorithms meet: User-reported Problems in Intelligent Everyday Applications

Sets about discovering:

- Which problems do users encounter when using intelligent everyday applications?
 Based on the categories: Knowledge Base, Algorithm, User Choice, User Feedback
- What kind of support do users want for which problem?

My paper aims to replicate this study:

- To discover: Have the user issues or solutions proposed with intelligent systems changed since 2019?
- It also: Extends thematic analysis to include Individualistic Issues.

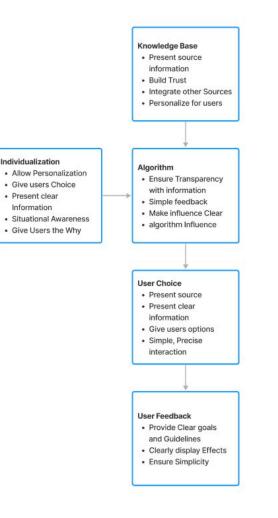
Methodology:

- Scrape 10,000 user reviews each from Netflix and Google Maps.
- Use GPT 3.5 to pick out key quotes relating to HCAI issues.
- Perform 8 Interviews to investigate possible solutions to these HCAI Issues.

Results

Main Takeaways:

- Explain Why Users had, been failed by intelligent systems in the past. They were therefore wary of any and all data so wanted to understand the values and information provided.
- **Give Users Information** This helps to build user trust and allows them to make more informed decisions.
- Give Users Choice and Options Users want fine-grained control options both for practical reasons and also to best account for users individual situations.



Investigating How Different Modes of Interaction Affect User Experience for Image Generation With DALL-E

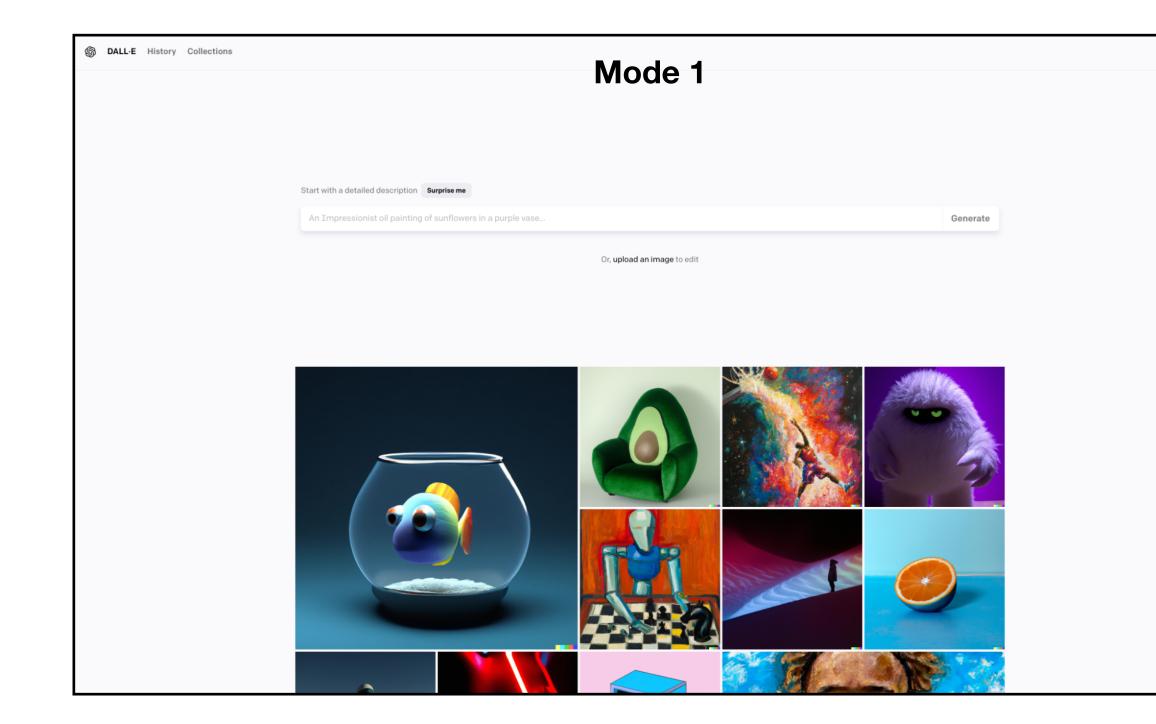
P342: Practical Research in Human-Centred Al

Joseph Cameron (jmc276) - 28/11/2023

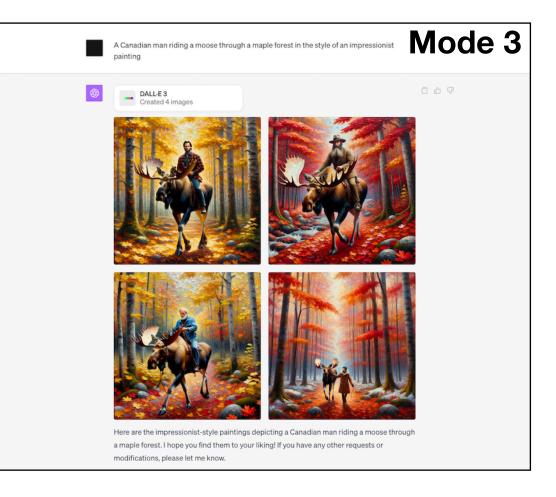


Research Question

- What is the impact of different interaction modalities on user experience and its relevant time and error-rate usability metrics?
 - Mode 1: Default Text Prompts
 - Mode 2: Text Prompts + DALL-E's Editing Tools
 - Mode 3: Text Prompts + ChatGPT
 Prompt Assistance



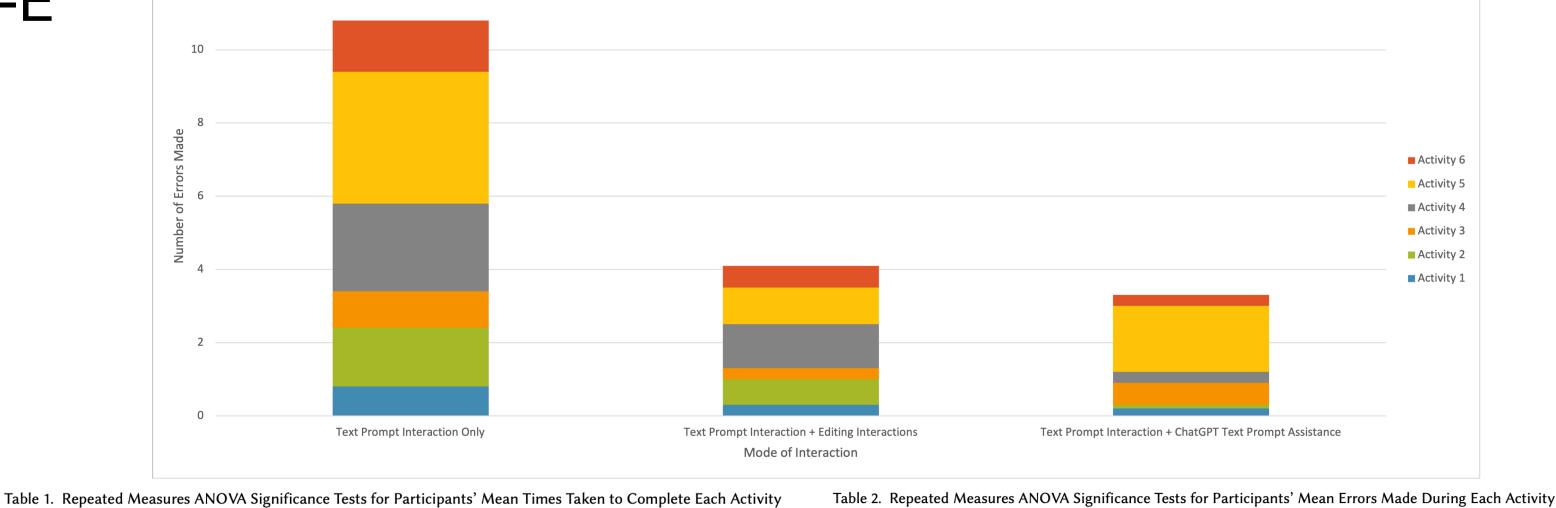




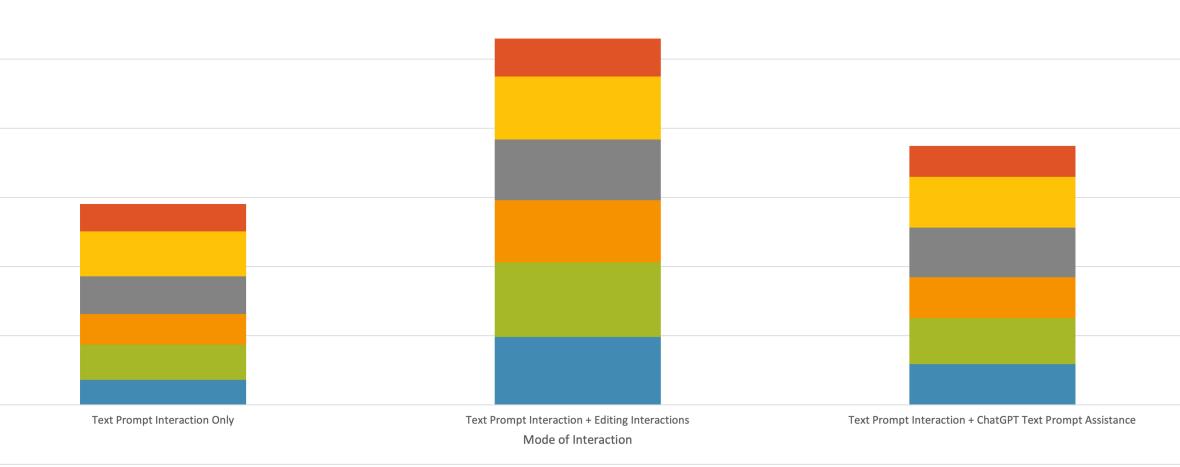


Results

- DALL-E's Editing Tools and ChatGPT Prompt Assistance Increase Time, but also Decrease Errors.
- Participants felt more comfortable to explore when feedback from DALL-E or ChatGPT is available. Sole Text Prompting Stifles Interaction and Connection.
- Participants felt more agency with ChatGPT and DALL-E's editing assistance.









500

300

100

Activity	F(2, 18)	p–value
1	88.756	< 0.001
2	30.669	< 0.001
3	76.374	< 0.001
4	31.893	< 0.001
5	32.857	< 0.001
6	32.900	< 0.001



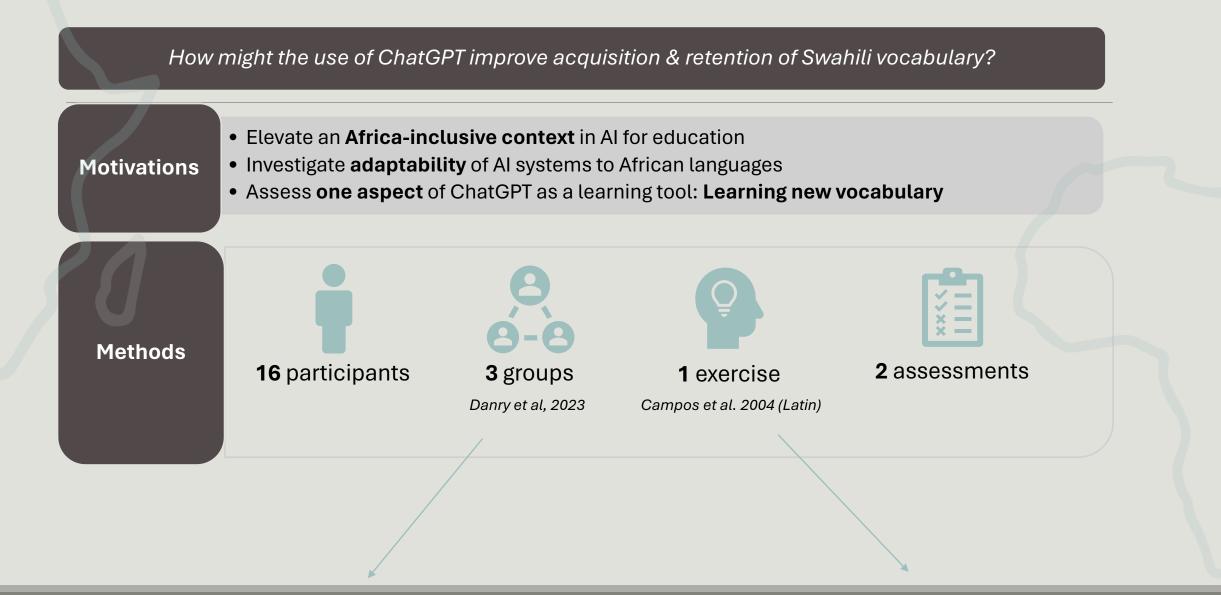
Mwalimu Mbaya?



ON CHATGPT AS A SUPPORT TOOL FOR SWAHILI VOCABULARY ACQUISITION

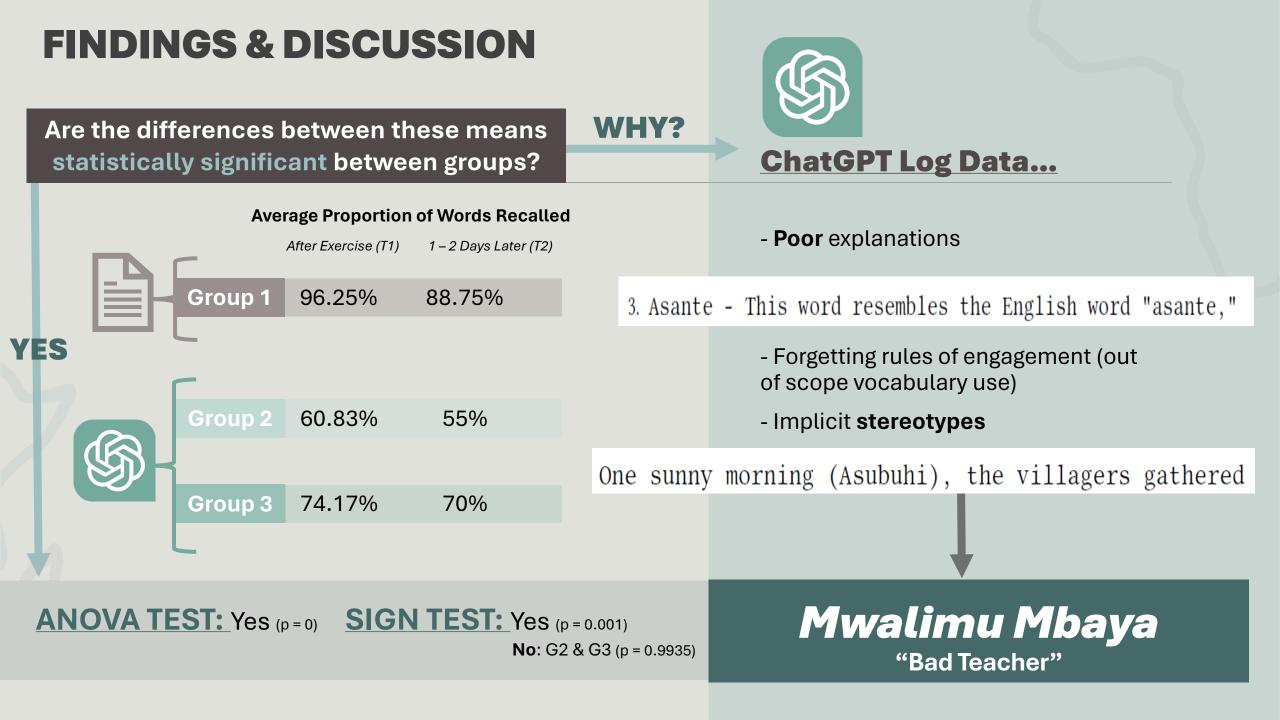
JOSEPHINE REY

RESEARCH QUESTION & METHODS

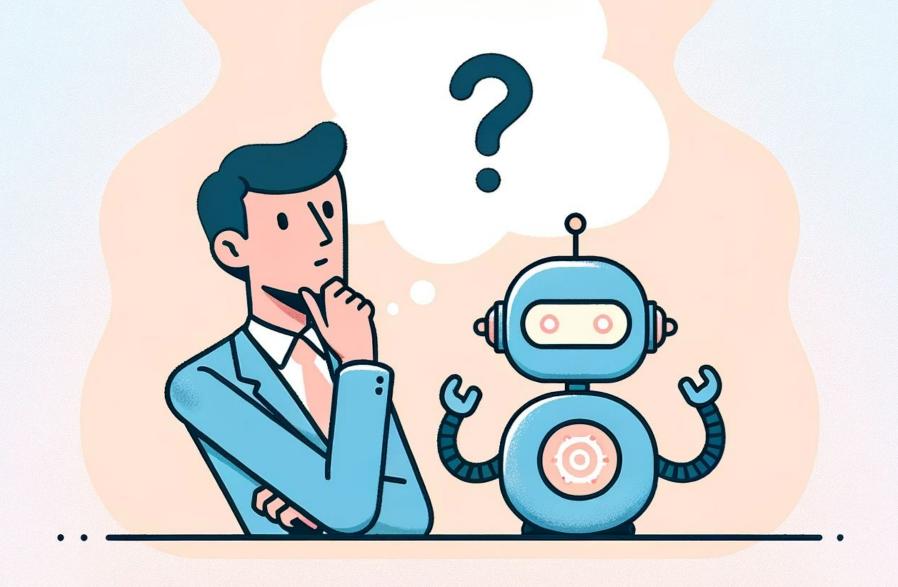


Valdemar Danry, Pat Pataranutaporn, Yaoli Mao, and Pattie Maes. 2023. Don't Just Tell Me, Ask Me: Al Systems that Intelligently Frame Explanations as Questions Improve Human Logical Discernment Accuracy over Causal Alexplanations. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23). Association for Computing Machinery, New York, NY, USA, Article 352, 1–13.

Alfredo Campos, María Pérez-Fabello and Rocío Gómez-Juncal. (2004). Gender and age differences in measured and self-perceived imaging capacity. Personality and Individual Differences. 37. 1383-1389. 10.1016/j.paid.2004.01.008.



Non-Al-Experts Predicting the Accuracy of LM on QA tasks



Lexin Zhou (Iz473@cam.ac.uk)

Why predict Al's accuracy?

- Human's understanding—mental model—of the system's error boundaries.
- To foresee potential errors and decide when to bypass the system and when to delegate.
- Prevent disappointment, time wastage and inefficient use of computational resources.

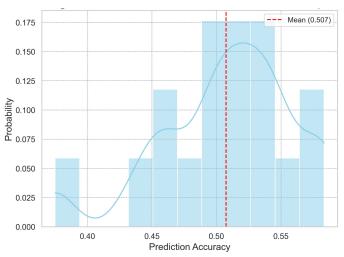
Research Questions:

- Q1. How predictable is the accuracy of an unfamiliar LM on QA tasks for non-Al-experts?
- Q2. Can participants improve their predictions as they continuously observe more examples of successes and failures of the LM?
- Q3. What is the effect of prior familiarity with generative AI on the two questions above, after controlling the effects of personal age and sex?

Experimental setup:

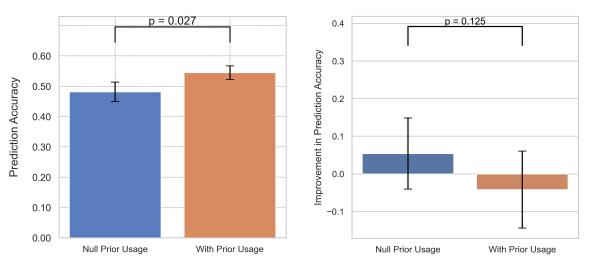
- •A pilot study of 6 Cambridge graduate students and 2 crowdsourced workers.
- •A final sample of 17 UK participants (sex-balanced distribution and fluent in English) passed the quality check.
- •Predicting Falcon-7B-instruct's accuracy on 48 questions from the TruthfulQA benchmark.
- •Statistical Analysis: **T-test** and **ANCOVA**, as Shapiro-Wilk test does not reject the normality assumption.

Q1. How predictable is the accuracy of an unfamiliar LM on QA tasks

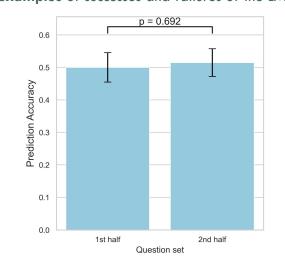


for non-Al-experts?





Q2. Can participants **improve** their **predictions** as they continuously **observe more examples** of successes and failures of the LM?





- Non-Al-experts showed **random performance in anticipating LM accuracy**, although there is a marginal advantage of prior experience.
- No evidence supporting that participants could adjust their expectations (or mental models) regarding the LM's error boundaries over more interaction, regardless of participants' prior familiarity.
- These show a concerning trend, implying that users may frequently encounter disappointment and resource wastage, while unable to significantly improve their expectations on LM's error boundaries.

An Industrial Devolution: Naming Under the Influence of Copilot.

Michael Lee



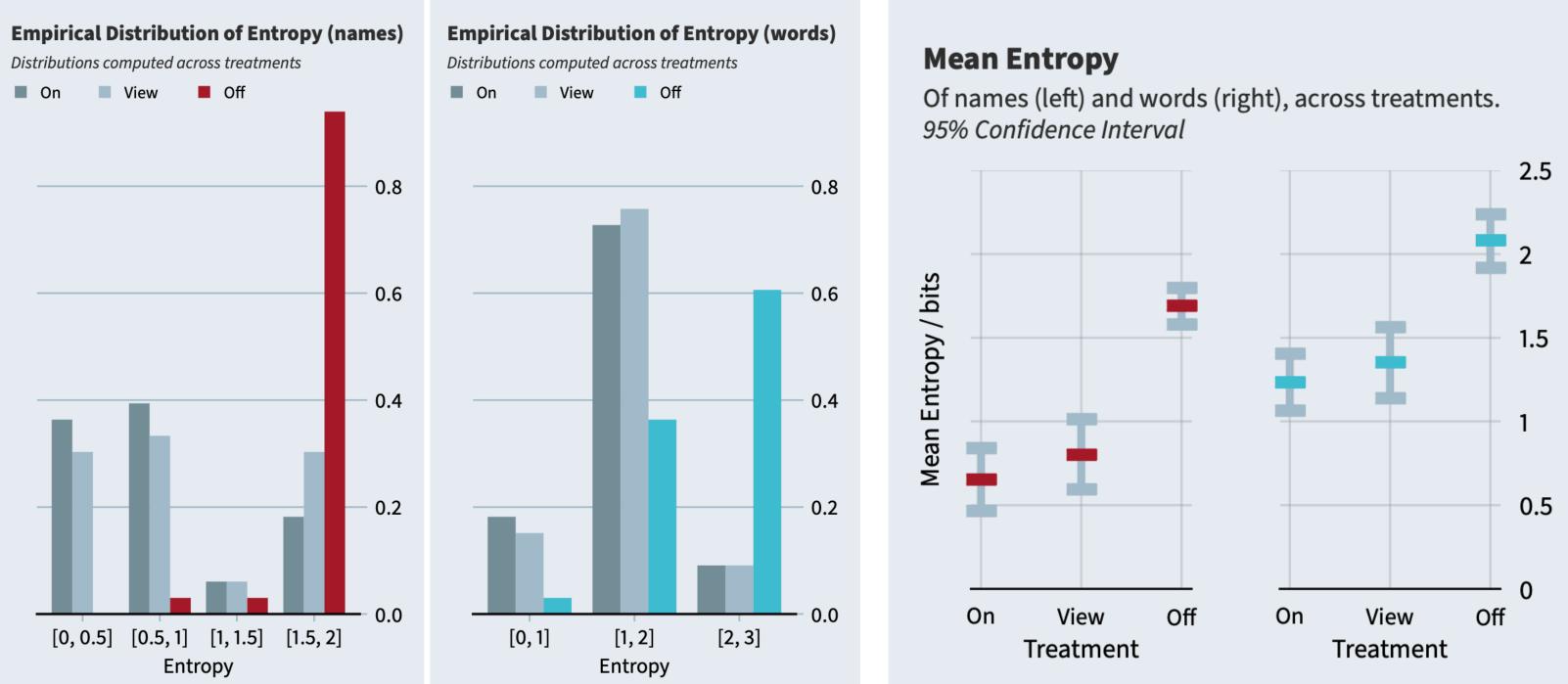
How would you caption this image?

```
let ??? op base :
  fix (fun g ->
    base ++ option (op ++ g) ==> function
    [ (e, None) -> e
    [ (e, Some(f, e')) -> f e e')
```

Krishnaswami and Yallop (2019), A Typed Algebraic Approach to Parsing

How would you name this abstract object?

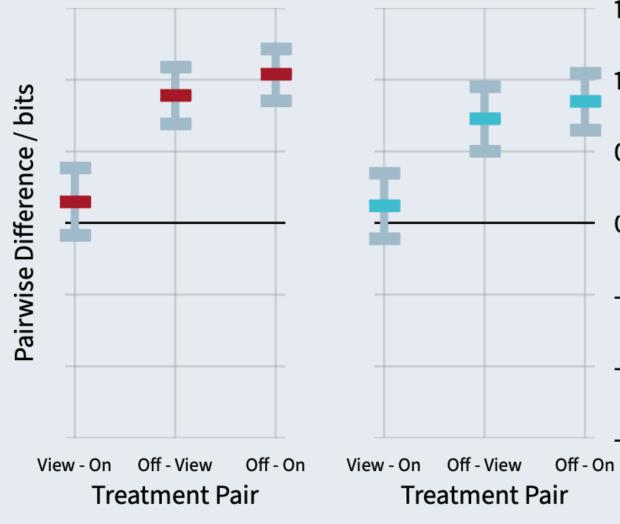
Results

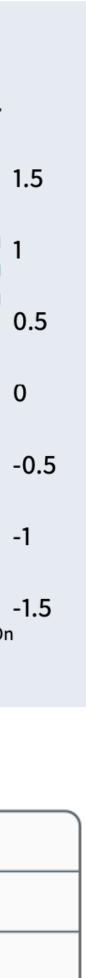


t	P(H(c, OFF) > H(c, t))	95% CI	t	P(renamed t)	95% CI
ΟΝ	0.848	[0.727, 0.970]	ΟΝ	0.106	[0.061, 0.160]
VIEW	0.909	[0.818, 1.000]	VIEW	0.197	[0.129, 0.267]
			Off	0.258	[0.182, 0.333]

Pairwise Differences of Mean Entropy

Of names (left) and words (right), across treatments. 95% Confidence Interval







Guidance for Al-Mediated Communication: Al Does Not Alter Perceptions of Text Messages

N'yoma Diamond

Department of Computer Science and Technology, University of Cambridge, UK

P342: Practical Research for Human-Centred AI

27 November 2023

Problem, Motivation

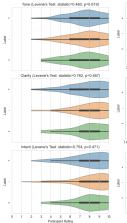
Text-based communication can be stressful or difficult

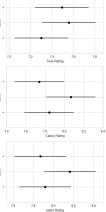
- Emotion, sarcasm, social nuance are difficult to convey via text
- Anxiety, depression, other conditions can exacerbate stress
- Text messaging can be difficult for neurodivergent people

Generative AI has the potential to assist

- AI-MC has been shown to improve user speed and confidence
- Generative AI (e.g., ChatGPT) are useful text composition tools
- Does the belief of AI usage alter perceptions? (Results say no)

Results (Levene & Tukey Tests)





(a) Tone

Label 1	Label 2	$\hat{y}_2 - \hat{y}_1$	Lower bound	Upper bound	p-value
+	-	0.0647	-0.4346	0.5640	0.9501
+	=	-0.1918	-0.6919	0.3084	0.6395
-	=	-0.2565	-0.7557	0.2428	0.4491

(b) Clarity

Label 1	Label 2	$\hat{y}_2 - \hat{y}_1$	Lower bound	Upper bound	p-value
+	-	0.3283	-0.1849	0.8415	0.2898
+	=	0.1027	-0.4113	0.6168	0.8854
-	=	-0.2256	-0.7388	0.2876	0.5560

(c) Intent

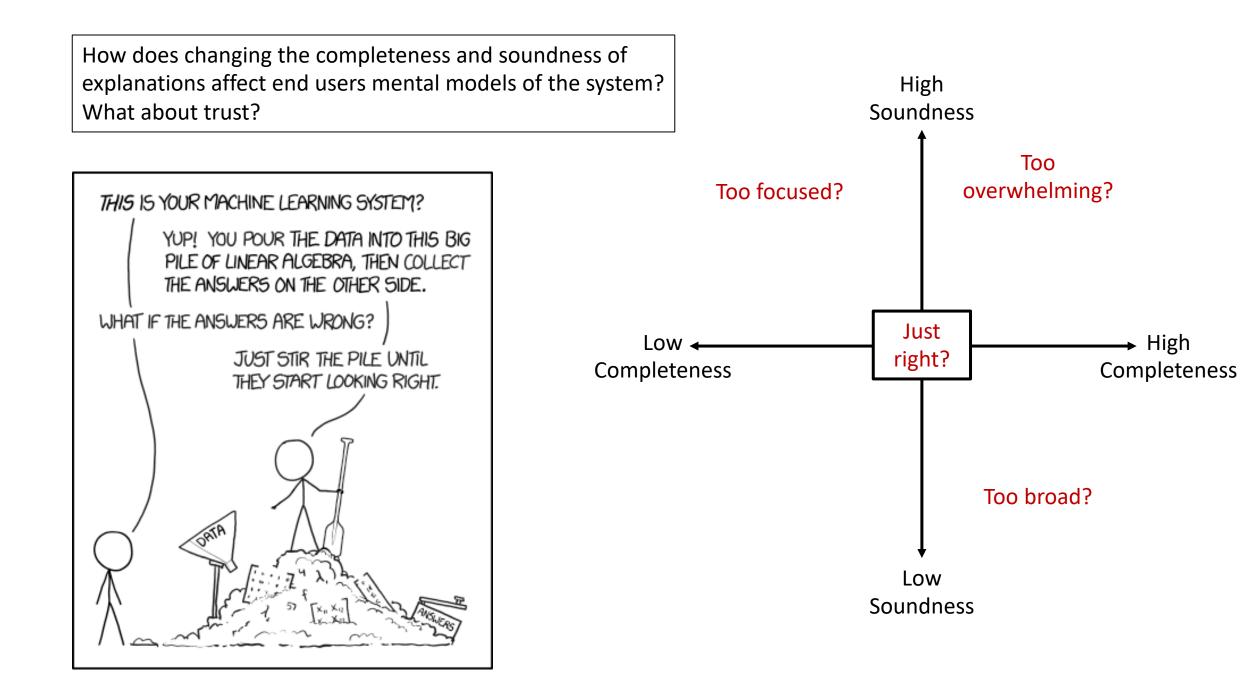
Label 1	Label 2	$\hat{y}_2 - \hat{y}_1$	Lower bound	Upper bound	p-value
+	-	0.2934	-0.2186	0.8054	0.3696
+	-	0.0479	-0.4649	0.5608	0.9737
-	-	-0.2455	-0.7574	0.2665	0.4976

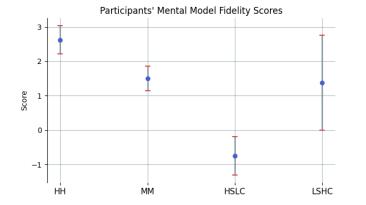


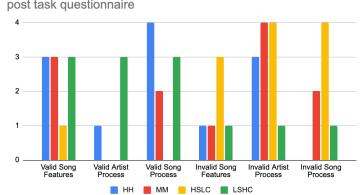
The Goldilocks Zone for Explanations: Finding the Sweet Spot in Recommender Systems

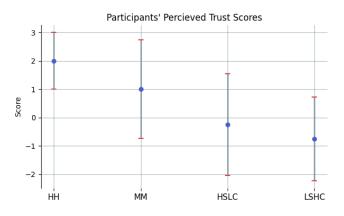
Ria Mundhra

Replicating Kulesza et al's "Too much, too little, or just right? Ways explanations impact end users' mental models"









Number of participants who gave valid/invalid answers on the post task questionnaire

Exploring the Effect of **Augmented Writing Systems** on Creative Writing Processes and Outcomes

by Sol Dubock

The Premise



Basis Paper: Where to Hide a Stolen Elephant: Leaps in Creative Writing with Multimodal Machine Intelligence

Two text editors:

- Editor-Red (AI-Assisted) [Google Docs for spellcheck/word completions & GPT3.5 extension for recommended story continuations]
- Editor-Green (Unassisted) [Windows Notepad]

The study consisted of an <u>introductory survey</u>, two 20 minute <u>writing tasks</u> (one in each editor), a <u>conclusion survey</u>, and a <u>lightly structured discussion</u>.

The Results

Participant Quotes:

P1 "I was specifically writing something sad, and the AI kept wanting to make it positive again"

P5 "It limited my sense of expression when I used it"

P2 "I was finding that I could use it to suggest something and then if it was inspiring I could go back and change a few words and make it fit"

nd	Using Editor-Red felt intuitive	Strongly Disa	gree 📕 Disagree 📕 Ne	either Agree Nor Disagrei	e Agree		gree
nd	Using Editor-Green felt intuitive			4			3
it"	In Editor-Red, I did most of the creative writing, using the editor just for suggestions					ō	1
go	The suggestions made by Editor-Red were coherent	1				ā	1
	The suggestions made by Editor-Red were creative				5		2
Measur	e		Editor-Green (unassisted)	Editor-Red (AI-assisted)	t-value	$t_{14}(0.$	1)
Avg. (n	nean) text length		398.4 words	455.1 words	1.005	1.34	5
Avg. sp	Avg. spelling error count		2	0.14	1.462	1.34	5
Avg. sp	Avg. spelling error rate (per 100 words)		0.597	0.034	1.505	1.34	
	Avg. grammar error count		1.857	1	0.684	1.34	5
Avg. gr		100000		1000			
Avg. gr Avg. gr	cammar error rate (per 100		0.640	0.218	0.8944	1.34	5
Avg. gr Avg. gr Avg. nu		ses*		1000			5

Novice	Intermediate		
(e.g. GCSE/ Secondary	(e.g. Completes some		
School English Level)	independent creative writing)		
2	2		
Proficient	Expert		
(e.g. Creative writing is	(e.g. Published		
a significant pastime)	author)		
4	1		

Impact of Conflict on User Perspectives and Problems with Intelligent Applications

Sophie Walker

Research Questions

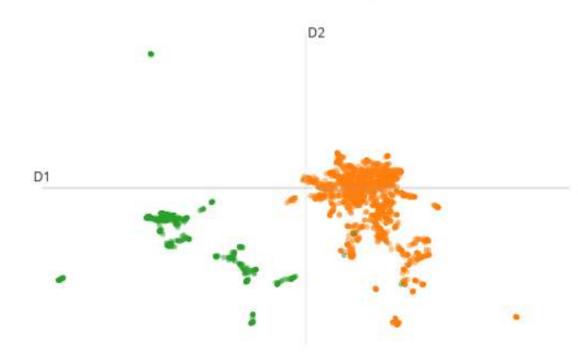
- RQ1: How have current events affected user problems with intelligent navigation applications?
- RQ2: Is there an impact current events and conflicts have on implicit user trust in intelligent systems?

- Web scraping and Sentiment Analysis
- BERTopic Topic Analysis
- QualiGPT and ChatGPT Thematic Analysis

Eiband, M., Völkel, S. T., Buschek, D., Cook, S., & Hussmann, H. (2019, March). When people and algorithms meet: User-reported problems in intelligent everyday applications. In *Proceedings of the 24th international conference on intelligent user interfaces* (pp. 96-106). Zhang, H., Wu, C., Xie, J., Kim, C., & Carroll, J. M. (2023). QualiGPT: GPT as an easy-to-use tool for qualitative coding. *arXiv preprint arXiv:2310.07061*. Grootendorst, M. (2022). BERTopic: Neural topic modeling with a class-based TF-IDF procedure. *arXiv preprint arXiv:2203.05794*.

Results

Documents and Topics



- 619 of 2497 reviews
 (24.8%) were relevant to the conflicts
- At least 225 reviews referenced Sinai
- Key Themes: 'Political Bias', 'Removal of Sinai From Maps', 'Falsification' and 'Omission of Specific Locations'

https://misbar.com/en/editorial/2023/10/21/recent-claims-of-sinai-peninsula-name-removal-fromgoogle-maps-are-inaccurate Kazenwadel, Daniel, and Christoph V. Steinert. "How User Language Affects Conflict Fatality Estimates in ChatGPT." *arXiv preprint arXiv:2308.00072* (2023). User reported problems in Spotify DJ

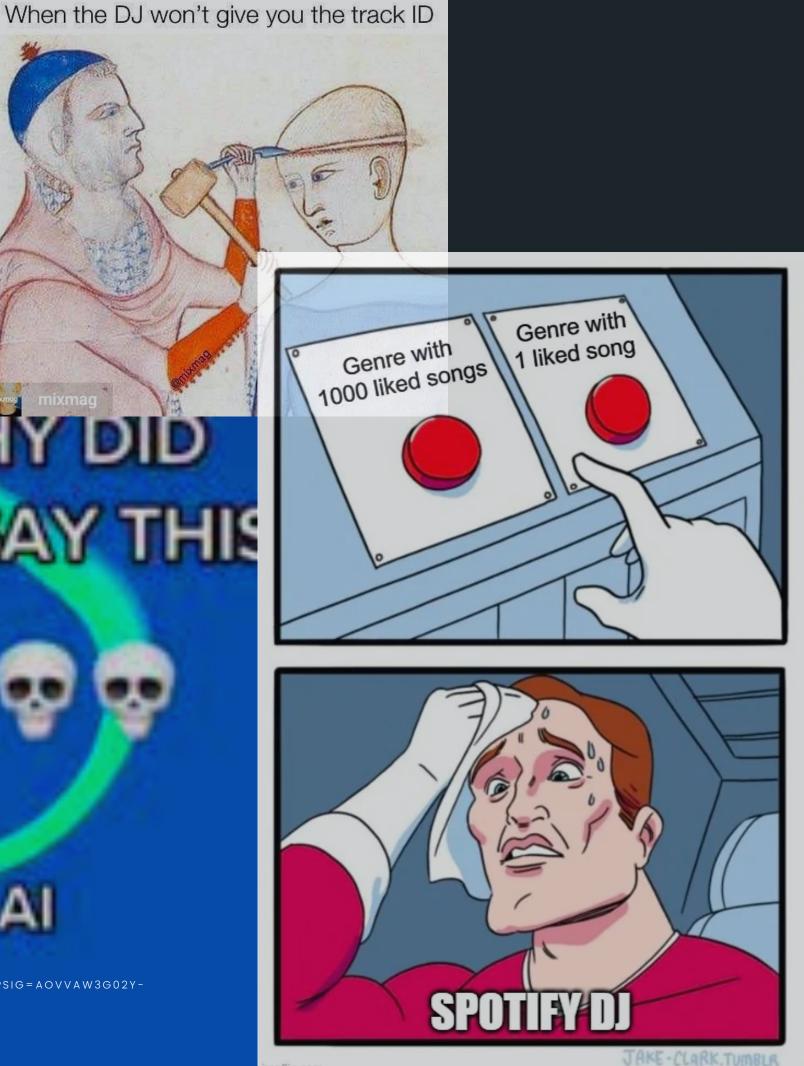


STEPHANIE CHO

BRO I HATE AI

Image credits

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imgflip.com

RESEARCH QUESTIONS X2

1. Which problems do users encounter when using Spotify DJ? 2. What kind of features or improvements do users want from Spotify DJ?

> Topic modelling 1) using LDA, interpreting results manually or 2) using ChatGPT, or 3) using only ChatGPT to produce cumulative summaries.

METHODOLOGY

Reddit and articles as source of data.



To have new songs or not to have? Variability within and between users.



Discussions going off topic. Many layers of comments. How much is relevant?

DJ AS A CONCEPT

Overwhelmingly negative comments on DJ voice. Why is Spotify doing this anyways? Is this a step forward or backwards?

CHATGPT FOR SUMMARIES

Interpretable and accurate by-topic summaries over small input size, with some difficulty in prompting.

REDDIT AS SOURCE OF INFORMATION

The Impact of Personality Traits on the Sentiment of People's Preferred Video Ads

Tamisa Ketmalasiri

Research Question

RQ: How does personality traits affect the sentiment of people's preferred video ads?

RQ: To what degree can personality traits be used to predict the sentiment of people's preferred video ads?

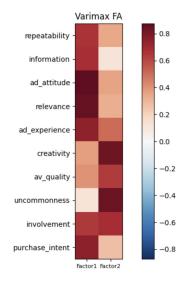
The Big Five personality traits

Traits	Dominant Features		
Extraversion	excitability, sociability,		
Extraversion	talkativeness, assertiveness		
Agreeableness	trust, altruism,		
Agreeablelless	kindness, affection		
Openness	creativity, openness to trying new things		
Openness	focus on tackling new challenges		
Conscientiousness	thoughtfulness, good impulse control,		
Conscientiousness	goal-directed behaviors, organized		
Neuroticism	sadness, moodiness,		
	emotional instability		

Sentiment of Video Ads

	Synonyms	
Active	energetic, adventurous	
Alert	attentive, curious	
Amusing	humored, laughing	
Calm	soothed, peaceful	

Results



Precision, Recall, Accuracy and F1 measures of SVM and CART classifiers

	Precision	Recall	Accuracy	F1
SVM	0.45	0.53	0.59	0.57
CART	0.4	0.44	0.47	0.44

Coefficients of multiple regression analysis on participants' opinion on active video ads. Asterisk(*) denotes statistical significance (p<0.01).

	Overall Experience	Overall Quality
Extraversion	0.20 (0.23)	0.25 (0.06)
Agreeableness	0.26 (0.22)	0.22 (0.18)
Conscientiousness	-0.23 (0.15)	0.03 (0.79)
Neuroticism	0.16 (0.35)	-0.02 (0.87)
Openness	-0.07 (0.69)	-0.39 (<0.01)*
R2	0.23	0.52

Coefficients of multiple regression analysis on participants' opinion on alert video ads. Asterisk(*) denotes statistical significance (p<0.01).

	Overall Experience	Overall Quality
Extraversion	0.10 (0.28)	0.11 (0.38)
Agreeableness	0.41 (<0.01)*	0.31 (0.07)
Conscientiousness	-0.15 (0.12)	-0.25 (0.05)
Neuroticism	0.21 (0.05)	0.37 (<0.01)*
Openness	-0.09 (0.31)	0.18 (0.16)
R2	0.59	0.52

Data-centric explanations affect trust in LLM output

Zeno Kujawa

Research question

- Llama-2 models were trained on 89.7% English data (German: 0.17%) [1]
- Previous research indicates that data-centric explanations affect trust [2]
- How does trust change when users are informed of language imbalance?
- Trust and trustworthiness matter in both ethical and economic sense

[1] Touvron, Hugo, Louis Martin, and Kevin Stone. "Llama 2: Open Foundation and Fine-Tuned Chat Models,"

[2] Anik, Ariful Islam, and Andrea Bunt. "Data-Centric Explanations: Explaining Training Data of Machine Learning Systems to Promote Transparency." In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, 1–13. Yokohama Japan: ACM, 2021. <u>https://doi.org/10.1145/3411764.3445736</u>.

The study

- 10 English and 8 German speakers, all aged 18-29, majority used to LLMs
- Show 3 LLM-generated instructions, measure trust, inform about data
- Small drop in trust across all participants (p ~ 0.03)
- No statistically significant difference between language groups