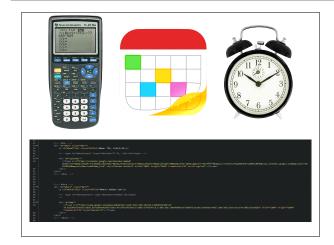
Psychology and Technology





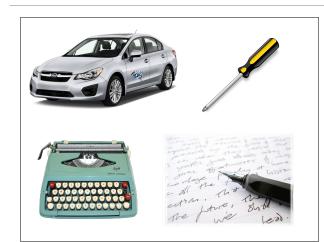




Questions + Themes

Does interacting with technology change how we think?

Are machines as intelligent as humans?







The misunderstood limits of folk science: an illusion of explanatory depth

Leonid Rozenblit*, Frank Keil

Department of Psychology, Sale University, 2 Hillians Formse, P.O. Ben 208205, New Harren, CT 06520-8205, USA
Received 20 August 2001; received in revised form 26 April 2002; accepted 3 May 2002

Abstract
Poole fed dry understand complex phenomena with far granter precision, coherence, and depth than they ratify doe they are subject to an illusion—an illusto of explanatory depth. The illusion is a far an interest of the complex of the com









The misunderstood limits of folk science: an illusion of explanatory depth

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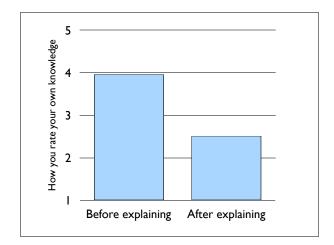
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How well do you understand how a toilet flushes? (1-7)

OK, tell us how!

How well do you understand how a toilet flushes? (1-7)



We don't know what we (don't) know!

Memory & Cognition 2006, 34 (8), 1667-1675

> The science of cycology: Failures to understand how everyday objects work

 $\begin{array}{c} {\rm REBECCA\ LAWSON} \\ {\it University\ of\ Liverpool,\ Liverpool,\ England} \end{array}$

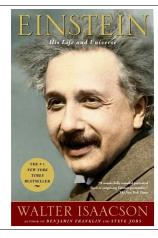
When their understanding of the basics of bicycle design was assessed objectively, people were found to make frequent and serious mistakes, such as believing that the chain were around the netwer law of the facts where Law on the present and serious mistakes, such as believing that the chain were around the netwer takes the wheel as well as the back wheel. Earns were reduced but not disministed for high-circ experts, for men when the contract that the present the serious serious disminister that the present the serious serious serious serious serious serious serious adsallow, even for information that is frequently encountered and easily perceived. This evidence of a minimal and even inaccurate causal understanding is inconsistent with that of strong versions of equipositation based (or through backet) thousands or disapplication.

and stallow, even for information that is frequently encountered and easily perceived. This evidence of a minimal and even intercurate causal understanding is increasistent with that of strong versions of explanation-based (or theory-based) theories of categorization.

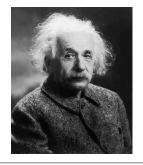


3. CIRCLE which one of these four bicycles best shows the <u>usual position of the frame</u> : A B C D	
3. CIRCLE which one of these four bicycles best shows the usual position of the frame:	
4. CIRCLE which one of these four bicycles best shows the usual position of the pedals:	

5. CIRCLE which one of these four bicycles best shows the usual position of the chain:	
40% make errors!	
We don't know what we (don't) know!	



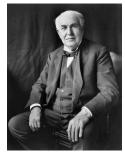
What is the speed of sound?





I don't know. I don't burden my memory with such facts that I can easily find in a textbook

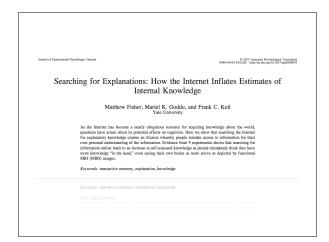




"Offloading"









How well could you answer these questions without using outside sources?

How do scientists determine the dates of fossils?

How do scientists know that the universe is expanding

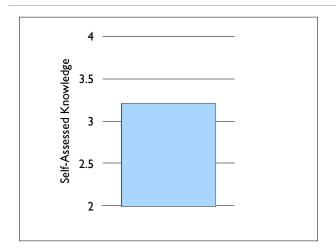
Why can't x-rays penetrate lead?

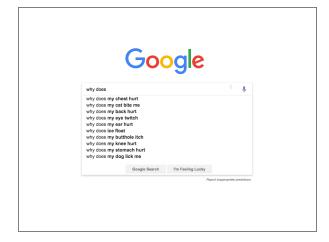
How well could you answer these questions without using outside sources?

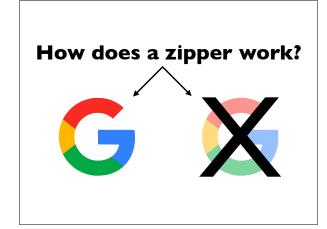
Why are so many people allergic to peanuts?

Why can't HIV be transmitted through saliva?

Why can't you drink alcohol on antibiotics?







How does a zipper work?

"please search howstuffworks.com to find an article that will tell you the answer"

The special read of the sp

How Zippers Work

How well could you answer these questions without using outside sources?

What is gluten?

Why does Swiss cheese have holes?

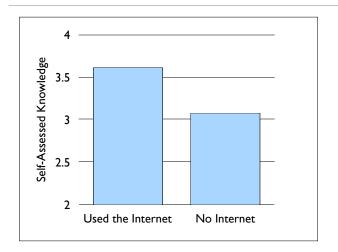
How is vinegar made?

How well could you answer these questions without using outside sources?

Why are there more Atlantic hurricanes in August and September?

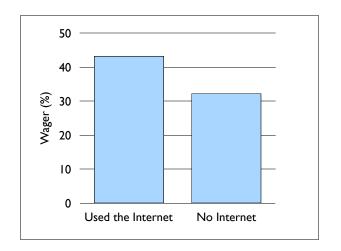
How do tornadoes form?

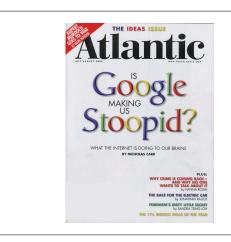
Why are cloudy nights warmer?



Wanna bet?

How much of your pay would you wager on a trivia contest against another subject?















Show, Attend and Tell: Neural Image Caption Generation with Visual Attention

* Université de Montréal, † University of Toronto, * CIFAR

Abstract
Inspired by recent with in machine translation and object detection, we introduce an attention and object detection, we introduce an attention and the object model that meaning large and the object model that the object and obj



Yet despite the difficult nature of this task, there has been a recent surfac of tessurest interest in attacking the image of tessurest interest in attacking the image at the control of the control of



"a man wearing a hat on a skateboard"



Harmful to us?



Better than us? Reliable?

Introduction to Psychology

Fall 2024

The only introductory course where you are the subject

The psychologist finds himself in the midst of a rich The psychologist finds himself in the midst of a rich and vast land full of strange happenings: there are men killing themselves; a child playing; a child forming his lips trying to say his first word; a person who, baving fallen in love and being caught in an unhappy situation, is not willing or not able to find a way out; there is the mystical state called hypnosis, where the will of me person seems to govern another person; there is the reaching out for higher and more difficult goals; loyalty to a group; dreaming; planning; exploring the world; and so on without end. It is an immense continent full of fascination and power and full of stretches of land where no one ever has set foot.

Psychology is out to conquer this continent, to find out where its treatures are hidden, to investigate its

out where its treasures are hidden, to investigate its danger spots, to master its vast forces, and to utilize

AS.200.10

Introduction to Psychology

Fall 2024

The only introductory course where you are the subjec

The psychologist finds himself in the midst of a rich

ChatGPT

You are not permitted to use ChatGPT to assist in any assignments (e.g., your reading responses). But (a) we tend to word these assignments in ways that aren't very ChatGPT-able, and (b) the assignments are so short (150-200 words) that it barely seems worth it For example, if you are asked to write 150 words explaining which example from that day's lecture best illustrates the psychological concept of modularity, it will take you longer to tell ChatGPT all about the lecture and then ask it the question than it will to just do the assignment! Besides, ChatGPT makes mistakes.

world; and so on without end. It is an immense con tinent full of fascination and power and full o stretches of land where no one ever has set foot. Psychology is out to conquer this continent, to fin out where its treatness are hidden, to investigate it danger spots, to master its wast forces, and to utilizit energies.

A Categorical Archive of ChatGPT Failures

Ali Borji Quintic AI aliborji@gmail.com April 5, 2023

Abstract

Large language models have been demonstrated to be valuable in different fields. ChatGPT, developed by OpenAI, has been trained using massive amounts of data and simulates human convenation by comprehending context and generating appropriate responses. It has gamered significant attention due to its ability to effectively answer a broad range of human inquiries, with fluent and comprehensive answers surpassing prior public chatbots in both security and usefulness. However, a comprehensive analysis of ChatGPTs failures is lacking, which is the focus of this study. Eleven categories of failures, including reasoning, factual errors, math, oding, and bias, are presented and discussed. The risks, limitations, and societal implications of ChatGPT are also highlighted. The goal of this study is to assist researchers and developers in chancing future language models and chatbots. Please effect to be refor the list of questions.

Keywords— Large Language Models, ChatGPT, ChatGPT Failures, Chatbots, Dialogue Systems, Conversational Agents, Question Answering, Natural Language Understanding

Conversational Agents, Question Answering, Natural Language Understanding

enhancing luture language models and chatbots. Please refer to here for the list of questions

"Hallucinations"

The New York Times

Chatbots May 'Hallucinate' More Often Than Many Realize

When summarizing facts, ChatGPT technology makes things up about 3 percent of the time, according to research from a new start-up. A Google system's rate was 27 percent.



"Hallucinations"



Making stuff up

academic references historical events biographical details

Even if you ask it to tell the truth!

tell me some things i might not know about johns hopkins university

- Johns Hopkins University (JHU) is widely recognized for its strong emphasis on research and medicine, but here are some lesser-known facts that might surprise you:
 - First Research University in the U.S.: Johns Hopkins is often credited as the first research
 university in the United States. When it was founded in 1876, it was modeled after European
 universities, especially the German model, which emphasized creating new knowledge
 through research rather than just teaching.
 - Influence on Modern Medical Education: The Johns Hopkins School of Medicine, which opened in 1893, revolutionized medical education in the U.S. by establishing rigorous admission standards, integrating science into the curriculum, and introducing clinical clerkships. This model was soon adopted by many other medical schools.

tell me some things i might not know about johns hopkins university

- Sohns Hopkins University (JHU) is widely recognized for its strong emphasis on research and medicine, but here are some lesser-known facts that might surprise you:
 - 3. DNA's Structure Work: Nobel Prize-winning scientist Francis Crick worked on DNA at Johns Hopkins. While Crick and James Watson are primarily known for discovering the double-helix structure of DNA, Johns Hopkins had a vital role in the early stages of DNA research, particularly through geneticist Barbara McClintock's work on "jumping genes."
 - 4. Home of the "Hoppy": Many people don't know that JHU students often refer to themselves as "Hoppies." Although the official nickname for their sports teams is the Blue Jays, this quirky term reflects a playful community spirit.
 - The Inspiration for Michael Crichton's "The Andromeda Strain": JHU is where Michael
 Crichton, famous for works like Jurassic Park, wrote his novel The Andromeda Strain. He was
 inspired by his experiences during his medical training, blending science with speculative
 fiction.

