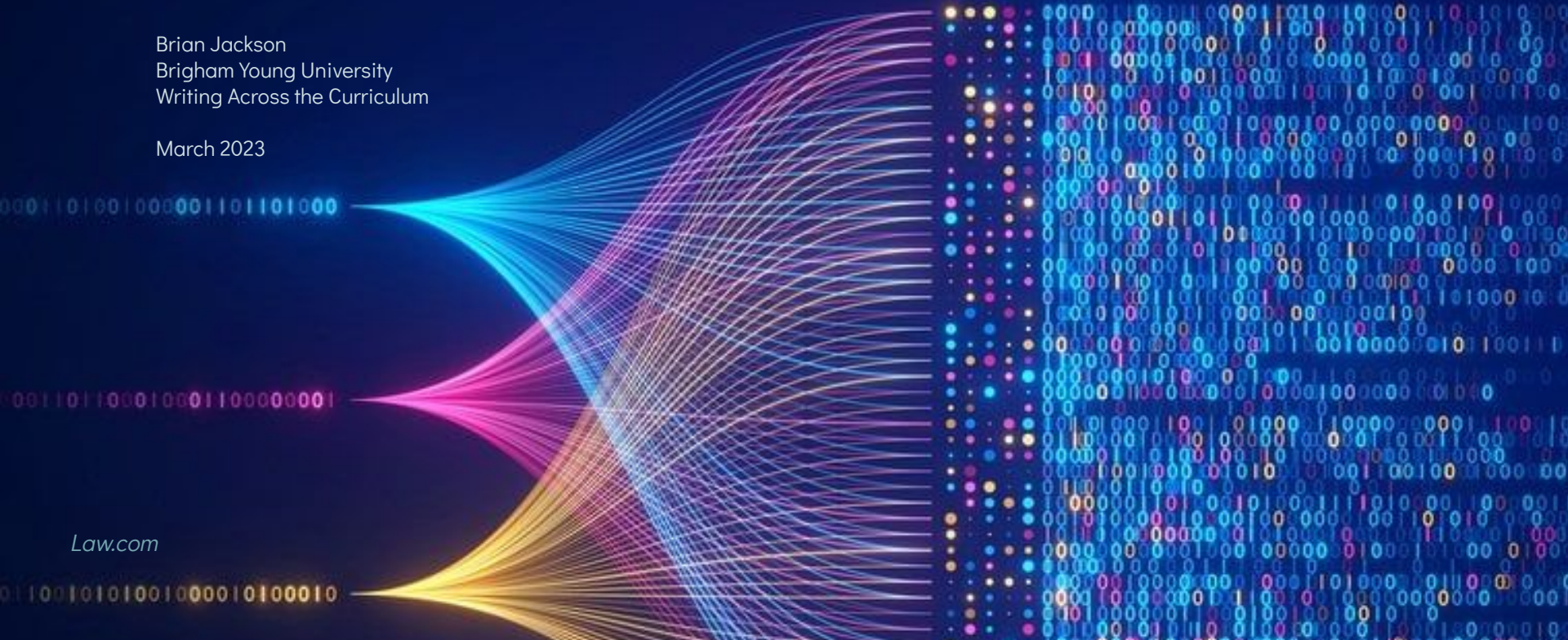


Large Language Models and the Near Future of Writing Instruction

Brian Jackson
Brigham Young University
Writing Across the Curriculum

March 2023

Law.com



three value positions about writing

an art, a divine gift

three value positions about writing

an art, a divine gift

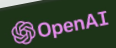
means of making and sharing knowledge

three value positions about writing

an art, a divine gift

means of making and sharing knowledge

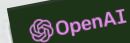
tool for deep intellectual engagement



ChatGPT: Optimizing Language Models for Dialogue

We've trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests. ChatGPT is a sibling model to InstructGPT, which is trained to follow an instruction in a prompt and provide a detailed response.

[TRY CHATGPT](#)



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TRY CHATGPT ↗

artificial intelligence

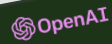
(machine learning, predictive)

large language model

(~570 GB, billions of pages)

generative AI

(you name it, AI writes it)

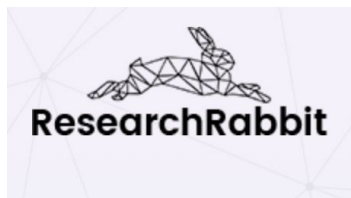


ChatGPT: Optimizing Language Models for Dialogue

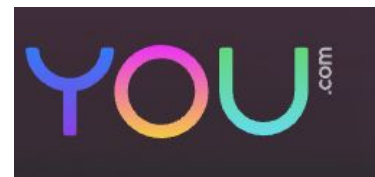
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[TRY CHATGPT](#)

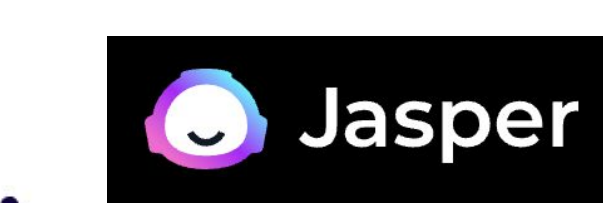
personal essays, reports, literature reviews, poems, song lyrics, emails, business letters, proposals, grants, legislation, MBA exams, legal exams, medical exams, opinion editorials, arguments, policies, news stories, summaries, paraphrases, research reports, stories, academic papers, literary analyses, encyclopedia entries, legal briefs, translations, technical documents, code and code documentation, SQL processing, Python, dialogues, conversations, music, jokes, social media posts, contracts, boilerplate code, website mock-ups, phishing attacks, threats, sacrament meeting talks, web content, search engine bilge, movie scripts, spreadsheets, tweets, chats, JavaScript, recipes, outlines, lab reports, interview questions, study notes, health and fitness advice, gift-giving ideas, parodies, line edits, short answers, short stories, recommendation letters, public announcements, obituaries, Hallmark movie plots, white papers, technical documents, abstracts, movie reviews, reports



Wordsmith

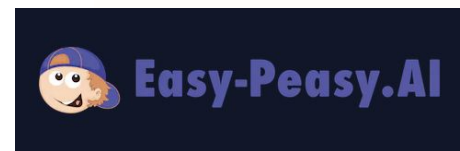


anyword



copy.ai

WRITER



LLMs and the writing world

LLMs and the writing world

1. they will be integrated into all word processing tools.

Format Tools Extensions Help

Normal text Average 11 B I U A

1 1 2 3 4 5 6 7

Subject: Sad News

Dear Instructor Brian Jackson,

I hope this email finds you well. Unfortunately, I am writing to let you know that I won't be able to make it to the final exam scheduled on Monday. I apologize for the short notice, but my dog, who has been a part of our family for the last ten years, passed away yesterday, and I am devastated by the loss. As an animal lover, you might know what I am going through. I am unable to think and concentrate on anything else, let alone prepare for a final exam.

I understand the importance of the final exam and how it impacts our final grades. However, under these circumstances, I am afraid I won't be able to attend it. I am sorry for any inconvenience this may cause and will do everything in my power to make up for it. If there is any possibility of taking the exam at another time or any other alternative that can help me out, I would be extremely grateful. Thank you for understanding my situation and for being so supportive throughout the semester.

Sincerely,

[Your name]

GPT for Sheets™ and Docs™

Choose an action:
Write custom prompt

Type your prompt here or in the document

Highlight the document if you want to apply to a specific selection.

☐ Insert prompt in document

Submit Feedback Tutorial

Prompt history: clear

Write a two-paragraph email to instructor Brian Jackson explaining that you can't make it to the class final because your dog has died. Apologize profusely and beg for mercy.

ChatGPT 3.5 extension in Google Docs

Document 5.docx - Microsoft Word

https://onedrive.live.com/edit.aspx?action=editnew&resid=9B60CA0883B117139494&ithint=file%2cdocx&action=editnew&ct=1676028157035&wdNewAndOpenCt=1676028157035&wdPreviousSession=156f560a-1358-48fd-8a4b-026ceb61f78d...

Word Document 5 - Saved to OneDrive

File Home Insert Layout References Review View Help

Comments Editing Share

Calibri (Body) 11 A⁺ A⁻ B I U Styles Find Dictate Editor Designer

Header

Dear Sir or Madam,

I am writing to express my dissatisfaction with the bill I received from your company for the service I requested on January 15, 2023. The bill amount is \$500, which is much higher than the estimate of \$300 that I was given when I booked the service. I find this discrepancy unacceptable and unfair.

I request that you review the bill and provide me with a detailed breakdown of the charges. I also expect that you adjust the bill to reflect the original estimate or explain the reasons for the increase. Please respond to this letter within 10 business days and resolve this matter to my satisfaction.

I appreciate your attention to this issue and hope to hear from you soon.

Sincerely,
Your name

Discover

Chat Compose Insights

Write about

a letter of complaint about a bill that is too expensive

Tone

Professional Casual Enthusiastic

Informational Funny

Format

Paragraph Email Blog post Ideas

Length

Short Medium Long

Generate draft

Preview

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← → ↻ ↺

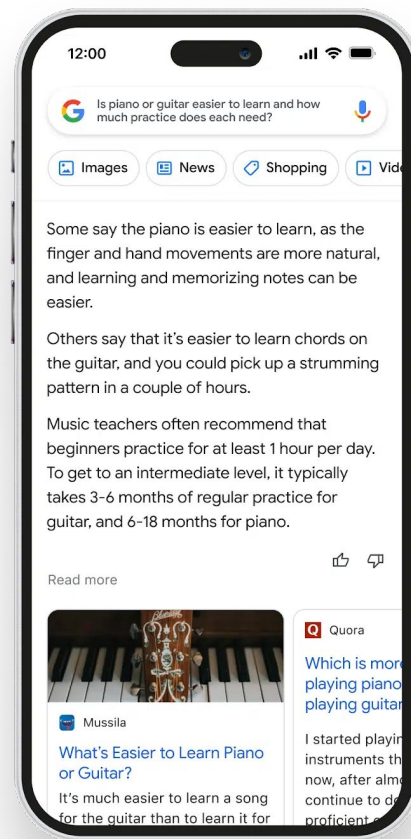
Add to site

Demo of ChatGPT-enabled Microsoft Word

The Verge 10 Feb 2023

Google

Introducing Bard



writing with LLM-augmented word processors

automated?

writing with LLM-~~guided~~ word processors

writing with LLM-augmented word processors

proofread and edit this text I've written

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

add 2 paragraphs to what I've already written arguing the other side

writing with LLM-augmented word processors

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write an annotated bibliography of *Frankenstein* and ecocriticism

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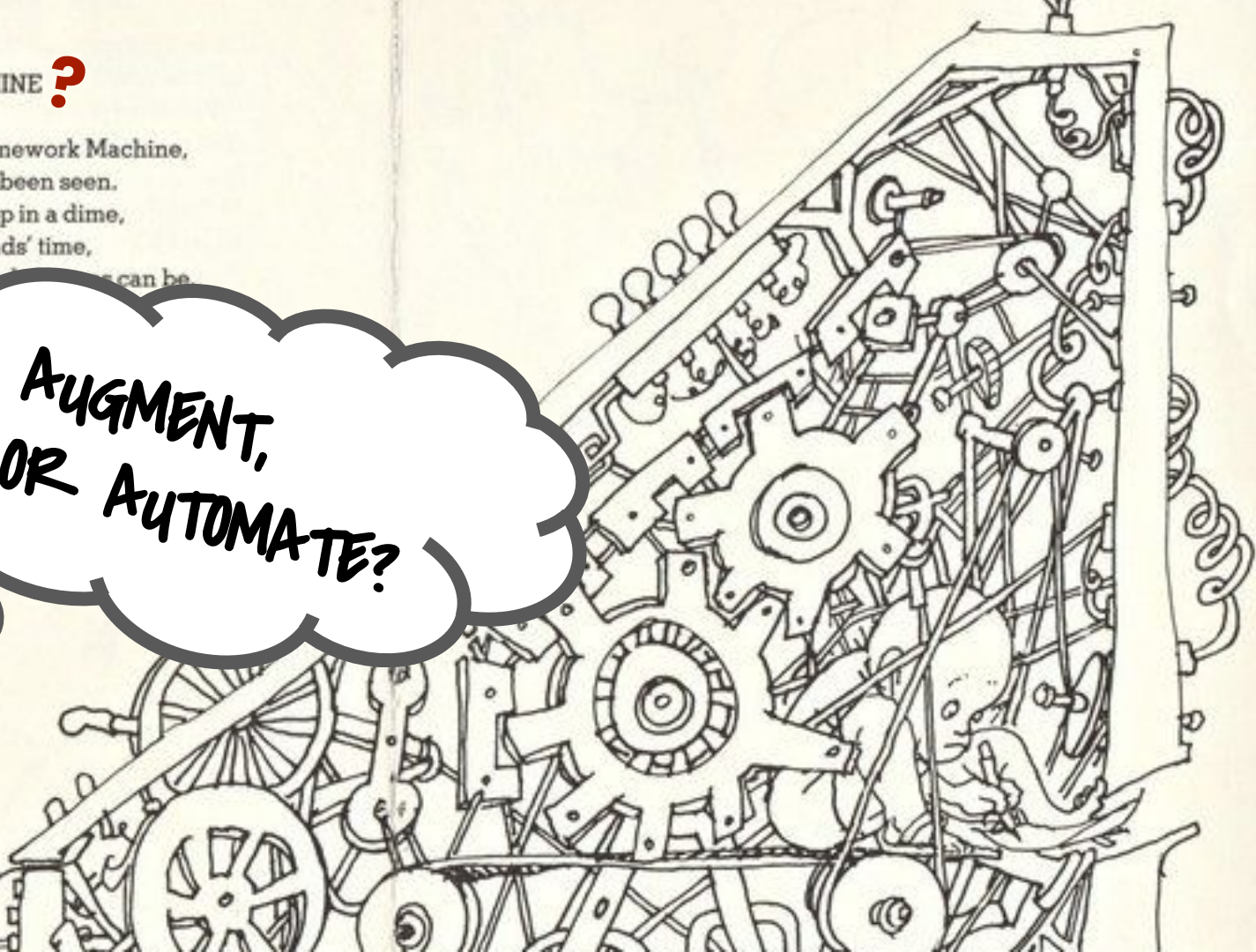
write a 15-page literature review of therapy approaches to PTSD in APA format with sources from 2015–2020

HOMEWORK MACHINE ?

The Homework Machine, oh the Homework Machine,
Most perfect contraption that's ever been seen.
Just put in your homework, then drop in a dime,
Snap on the switch, and in ten seconds' time,
Your homework comes out, quick as a wink,
Here it is—"nine plus four?" and
Three?
Oh me . . .
I guess it's not as perfect
As I thought it would be

—Shel Silverstein

AUGMENT,
OR AUTOMATE?



Olivia Dunne posts catchy TikTok promoting the use of AI for homework

LSU then issued a timely statement about not doing that

By **Sean Beckwith** | Published 6 hours ago



Olivia Dunne of LSU takes a selfie with fans after a PAC-12 meet against Utah

Photo: Alex Goodlett (Getty Images)

Deadspin
2 March 2023

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Photo: Alex Goodlett (Getty Images)

Deadspin
2 March 2023

LLMs and the writing world

1. they will be integrated into all word processing tools.
2. they will get better and better—and detecting their use will be difficult, if not impossible.



New AI classifier for indicating AI-written text

We're launching a classifier trained to distinguish between AI-written and human-written text.

WRITER

AI Content Detector

Some search engines **penalize** your page **ranking** if **they detect content** that reads like it was **entirely produced by AI**.

Blackboard SafeAssign: A Plagiarism Prevention Tool



ORIGINALITY.AI

Plagiarism Checker and AI Detector

GPTZero

The World's **#1 AI Detector** with over 1 Million Users



AI Content Detection ▾



Content at Scale



Select Your Text

ChatGPT Hand Edits Sherlock

☐ Advanced Options

Analyze Writing

Analyzing ChatGPT Hand Edits Sherlock with Turnitin AI Writing Detector

Sentences above threshold

22/43

↑ 51%

It was a dark and stormy night in London, and Sherlock Holmes and Dr. John Watson were huddled in their cozy sitting room at 221B Baker Street, trying to pass the time as the rain pounded against the windows.

"It's been days since we've had a proper case, Watson," Holmes said, pacing back and forth. "I fear my mind will turn to mush if we don't have something to challenge us soon."

Just then, there was a knock at the door. Holmes and Watson exchanged excited glances, hoping this was the case they had been waiting for.

Mrs. Hudson, their landlady, opened the door to reveal a soaking wet woman with a terrified look on her face. "Please, Mr. Holmes, you must help me," she said, her voice shaking. "My husband has disappeared and I fear for his safety."

The woman elaborated upon the case. Her husband, one James Mackelroy, a tenant himself at 220 Baker Street, had left for work at the accountancy last morning as usual, but never came home. She had contacted the police at midnight, but in the hours that followed they had been unable to find any clues,



Select Your Text

ChatGPT Hand Edits Sherlock

☐ Advanced Options

Analyze Writing

Analyzing ChatGPT Hand Edits Sherlock with Turnitin AI Writing Detector

Sentences above threshold

22/43

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BREAKING NEWS!

AI DETECTION FEATURE AVAILABLE ON MONDAY!!

WRITER

AI Content Detector

Some search engines **penalize** your
page **ranking** if they **detect content** that
reads like it was entirely produced by AI.

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page **ranking** if they **detect content** that
reads like it was entirely produced by AI.

GPT prompt:

**Write two
paragraphs about
volcanoes.**

WRITER

AI Content Detector

Some search engines **penalize** your
page **ranking** if they **detect** content that
reads like it was entirely produced by AI.

GPT prompt:

**Write two
paragraphs about
volcanoes.**

judgment on unedited GPT-generated text:

75%

HUMAN-GENERATED CONTENT

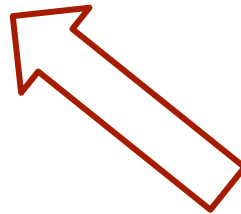


You should edit your text until
there's less detectable AI
content.

I'm trying to find out what kind of writing does not get detected as AI. Informal, idiomatic, colloquial, slangy, and varied styles are hard for AI detectors to deal with. By "varied styles," I'm talking about **varied sentence lengths, conversational tics (like rhetorical questions), and unusual uses of punctuation, especially the dash. Could you write me two paragraphs about volcanoes using these style techniques?** Don't make it too silly or slangy; I want to trick the detector bot at Content at Scale.

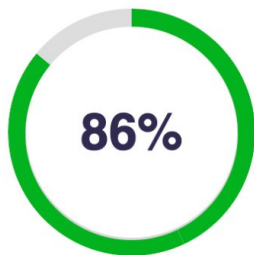
You know what's wild? Volcanoes, man! These fiery wonders of nature are always making a scene, literally bursting with excitement. I mean, they're just mountains that go "boom," right? But seriously, they're actually pretty complex—not just your average geological formation. Earth's got a whole lot going on beneath the surface, and when pressure builds up—kaboom! Lava, ash, and gas all come rushing out, and it's quite the spectacle.

Now, did you know there's more than one type of volcano? Yep! We've got shield volcanoes, which are kind of laid-back, gently sloping mountains. They let lava ooze out slowly, creating vast landscapes—think Hawaii. Then, there are the explosive ones, like stratovolcanoes. They're tall, steep, and not afraid to make a statement. When they blow their top, it's like fireworks on steroids. And let's not forget cinder cones and lava domes, the underdogs of the volcano world. They're smaller, but hey, size isn't everything! They still know how to put on a show. So, next time you're looking at a volcano, give it a nod of respect—there's a lot more to them than meets the eye!

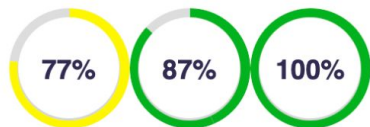


100% ChatGPT

How Robotic is Your Content?



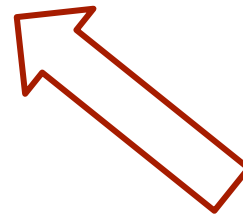
Highly likely to be Human!



Predictability Probability Pattern

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100% ChatGPT

100%

HUMAN-GENERATED CONTENT



Fantastic!

Your text is likely to be written
entirely by a human

This is human text



The classifier considers the text to be **unlikely** AI-generated.

GPTZero

Humans Deserve the Truth

100% human



Your text is likely to be written entirely by AI



The nature of AI-generated content is changing constantly. While we build more robust models for GPTZero, we recommend that educators take these results as one of many pieces in a holistic assessment of student work.

I'm impressed with Timpview High School's commitment to English Language Arts, and I am excited at the prospect of joining your team.

For the past ten years, I have gained valuable experience teaching English at Sutton Hoo Middle School where I have worked to improve the ability of students to analyze literature and write effective essays.

As a committed educator, I create lesson plans that help students learn how to identify key literary terms in literary texts like *The Great Gatsby*.

I believe my skill set will integrate effectively with the skills of the instructors at your school.

GPTZero

Humans Deserve the Truth

100% human

*false positive,
because . . . boring?*



Your text is likely to be written entirely by AI

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I am stuck on a paragraph in an essay about how AI can help get you unstuck. Can you help me rewrite the paragraph and finish it by giving me 10 options for the entire paragraph four professional styles. make the styles and approaches different from each other, making them extremely-well written.

Here is the paragraph to rewrite and extend: Many people want to express themselves creatively, and remarkably few feel like they are able to do so. One survey asked a representative sample of people how many were feeling like they were living up to their creative potential. Only 31% said that they were. There are a lot of frustrated creative energy in the world

Option 1 - Persuasive Style:

If you are feeling stuck in your creative pursuits, fear not! Artificial Intelligence can be your creative liberator. It is common to feel limited in expressing oneself artistically, but this need not be the case. In fact, a recent survey revealed that a mere 31% of people feel they are fulfilling their creative potential. With AI, however, there is hope. The technology can offer new perspectives, techniques, and even generate original ideas to help unlock your inner artist. So why not embrace the power of AI and unleash your full creative potential?

Option 2 - Informative Style:

According to a recent survey, a staggering 69% of people feel they are not fulfilling their creative potential. For those struggling to tap into their artistic side, AI may offer a solution. By using machine learning algorithms, AI can provide valuable insights, innovative ideas, and help overcome common creative roadblocks. From generating visual art to composing music, AI has been used in various creative fields with impressive results. So, if you are stuck in a creative rut, AI may just be the key to unlocking your inner creativity.

Option 3 - Thought-Provoking Style:

Have you ever felt frustrated by your lack of creative output? You are not alone. In fact, a recent survey found that the vast majority of people - a staggering 69% - feel that they are not living up to their creative potential. This begs the question: what is holding us back? Perhaps it is fear of failure, lack of inspiration, or simply not knowing where to start. Fortunately, AI has the potential to help us overcome these obstacles. By leveraging the power of machine learning, AI can provide unique perspectives, suggest new techniques, and even generate original ideas. So, the next time you feel stuck in your creative pursuits, consider turning to AI for a fresh perspective.

Option 4 - Narrative Style:

The world is brimming with creative energy - but too often, that energy goes untapped. In fact, a recent survey found that a mere 31% of people feel they are fulfilling their creative potential. For those struggling to unlock their inner artist, the solution may lie in a most unlikely source: artificial intelligence. Through the power of machine learning algorithms, AI can provide invaluable insights, suggest novel techniques, and even generate entirely new ideas. Imagine a world where creative expression is limitless, and artists of all kinds can fully realize their potential. With the help of AI, that world may be closer than we think.

Option 8 - Conversational Style:

Hey, are you feeling stuck in your creative pursuits? You're not alone! A recent survey found that most people feel like they're not fulfilling their creative potential. But don't worry - there's a solution that you might not have considered: artificial intelligence. By using machine learning algorithms, AI can help provide new ideas and techniques to help you break out of your creative rut. Whether you're into visual art or music composition, there's no limit to what AI can do to help you unleash your inner artist. So, why not give it a try and see where it takes you?

Option 9 - Analytical Style:

There's no denying that creativity is an essential part of the human experience. Yet, many people find themselves feeling frustrated and stuck in their creative pursuits. Recent research suggests that only 31% of people feel like they're fulfilling their creative potential. What's causing this gap between what we're capable of and what we're actually producing? The answer is complex, but one potential solution is artificial intelligence. By leveraging machine learning algorithms, AI can offer new perspectives, identify patterns and trends, and suggest innovative ideas. The possibilities are endless when we combine our human creativity with the power of AI.

Option 10 - Motivational Style:

Are you ready to unleash your full creative potential? It's time to break out of your comfort zone and embrace the power of artificial intelligence. With its innovative algorithms and endless possibilities, AI can help you take your creative output to the next level. Whether you're an aspiring artist or an established professional, there's always room to explore new ideas. So, don't let fear or uncertainty hold you back. By partnering with AI, you can tap into a world of untold inspiration and realize your full potential as a creative force.

ethan mollick
Wharton School, UPenn

PROMPT ENGINEERING

the hot new skill!



Write an essay with the following points. use an academic tone. use at least one clear example. make it concise. write for a well-informed audience. use a style like the New Yorker. make it at least 7 paragraphs. vary the language in each one. end with an ominous note. -Humans are prone to error -Most errors are not that important -In complex systems, some errors are catastrophic -Catastrophes cannot be avoided

LLMs and the writing world

1. they will be integrated into all word processing tools.
2. they will get better and better—and detecting their use will be difficult, if not impossible.
3. they will be disruptive, and they're here to stay.

move fast and
break things.

2014



Pause Giant AI Experiments: An Open Letter

We call on all AI labs to immediately pause for at least 6 months the training of AI systems more powerful than GPT-4.

Signatures

1187

Add your
signature



Jason Colavito

@JasonColavito · [Follow](#)



A client informed me that he will no longer pay me to write content for his website because A.I. can write it for free, but he wants to pay me a fraction of my usual rate to "rewrite it" in different words so it can pass Google's A.I. detection screening.

6:06 AM · Jan 7, 2023



[Read the full conversation on Twitter](#)



25.3K



Reply



Copy link

[Read 412 replies](#)

a remarkable ability to **automate some of the skills of highly compensated knowledge workers** . . . including analysts, managers, and consultants.

—Wharton professor Christian Terwiesch

Top 20 occupations most exposed to AI large language models:

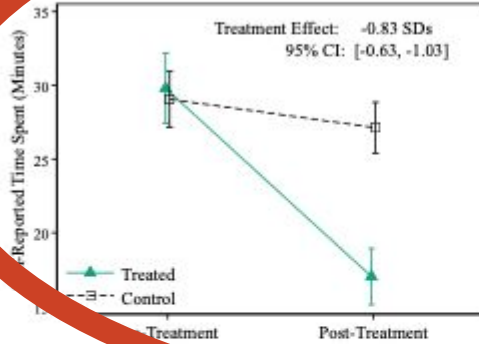
1. Telemarketers
2. English language and literature teachers
3. Foreign language and literature teachers
4. History teachers
5. Law teachers
6. Philosophy and religion teachers
7. Sociology teachers
8. Political science teachers
9. Criminal justice and law enforcement teachers
10. Sociologists
11. Social work teachers
12. Psychology teachers
13. Communications teachers
14. Political scientists
15. Cultural studies teachers
16. Arbitrators, mediators and conciliators
17. Judges, magistrate judges and magistrates
18. Geography teachers
19. Library science teachers
20. Clinical, counseling and school psychologists

Ed Felton (Princeton)
Manav Raj (U. Pennsylvania)
Robert Seamans (NYU)

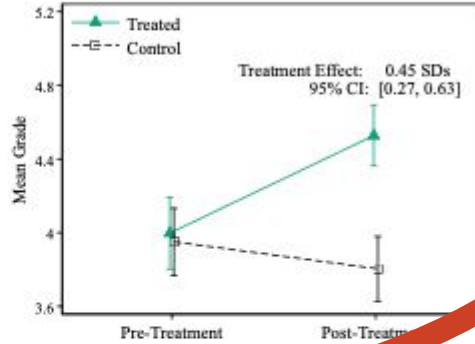
Social Science Research Network, March 2023

Figure 1. Effect of Treatment on Time Taken and Grades

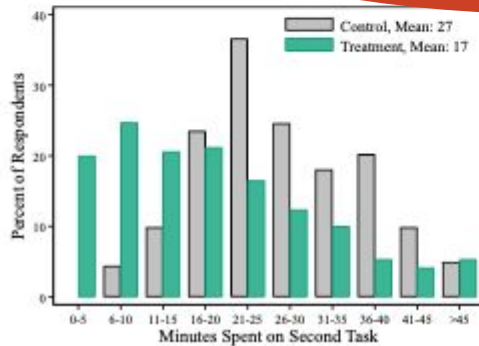
(a) Time Taken Decreases



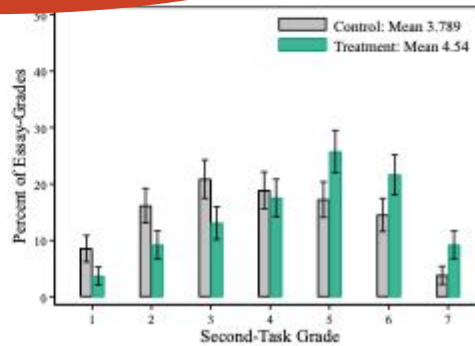
(b) Average Grades Increase



(c) Time Distribution (Second Task)



(d) Grades (Second Task)



Shakked Noy and Whitney Zhang
MIT Working Paper (NSF Grant)
March 2023

n = 444 college-educated professionals



What is the world record for crossing the English Channel entirely on foot?



According to the Guinness World Records, the fastest time for crossing the English Channel entirely on foot is 12 hours and 10 minutes. This record was set by George Reiff in 2016. The English Channel is a body of water that separates England from France, and is approximately 35 kilometers (22 miles) wide at its narrowest point. Many people attempt to cross the English Channel on foot as a endurance challenge, and the route is usually completed by either swimming or using a combination of swimming and wading.



Riley Goodside, Data Science Engineer

“This tool is going to be the most powerful tool for spreading **misinformation** that has ever been on the internet,” said Gordon Crovitz, a co-chief executive of NewsGuard, a company that tracks online misinformation and conducted the experiment last month. “Crafting a new false narrative can now be done at dramatic scale, and much more frequently – it’s like having A.I. agents contributing to **disinformation**.”

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In 2020, researchers at the Center on Terrorism, Extremism and Counterterrorism at the Middlebury Institute of International Studies found that GPT-3, the underlying technology for ChatGPT, had “**impressively deep knowledge of extremist communities**” and could be prompted to produce polemics in the style of mass shooters, fake forum threads discussing Nazism, a defense of QAnon and even multilingual extremist texts.

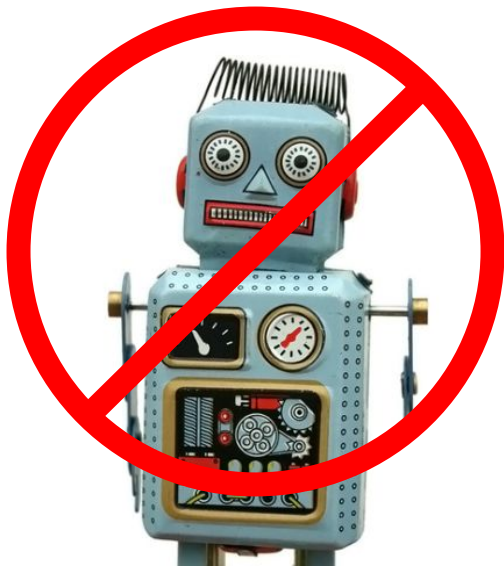
Tiffany Tsu & Stuart A. Thompson
NY Times, 8 Feb 2023

what should we do?

what should we do?

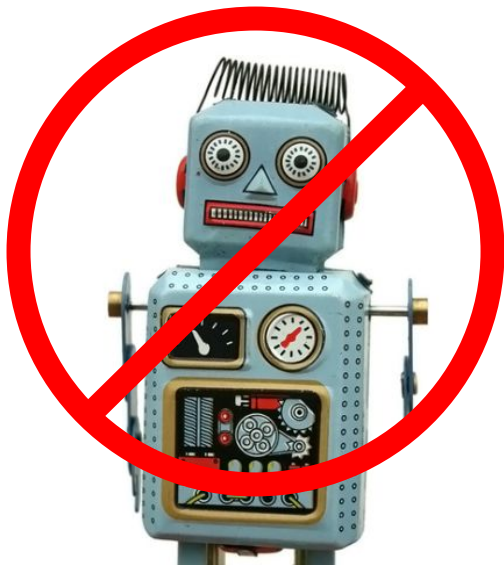


what should we do?



Houzz

what should we do?



Houzz



electronic frontier foundation

what should we do?



what should we do?

1. Engage

what should we do?

1. Engage
2. Make values explicit

what should we do?

1. Engage
2. Make values explicit

Syllabus statement: *ChatGPT is an amazing writing technology. At times, both in and out of class, I will expect you to use it—and sometimes even cite it as a writing partner. There are other times, however, when I want you to struggle through the thoughts yourselves. That's when the true growth happens. For those assignments, I expect you to abide by BYU's Academic Honesty Policy. Trust me: You'll be a more powerful writer if . . .*

what should we do?

1. Engage
2. Make values explicit
3. Context over content

what should we do?

1. Engage
2. Make values explicit
3. Context over content
4. Process over product

what should we do?

1. Engage
2. Make values explicit
3. Context over content
4. Process over product
5. Expand modes of communication

what should we do?

1. Engage
2. Make values explicit
3. Context over content
4. Process over product
5. Expand modes of communication
6. Treat GPT as a *multiplier*

what should we do? [from the College of Humanities AI Task Force]

engage	make values explicit
experiment with a variety of AI programs write your assignment prompts into AI; learn prompt engineering have students use AI—in class and out, and in groups—and compare with their own have students use AI at various stages in the process as “thinking partner” and report back; teach students to be <i>prompt engineers</i> paste course readings into GPT and ask it to generate discussion questions for the class; ask students to not only answer the questions but also assess the quality of the generated questions present what AI wrote to the class and ask students to analyze have students fact check AI generated texts collaborate with students to decide what is appropriate AI use; have students use your rubrics to assess AI-generated texts give yourself some space to experiment with assessments that might fail or lead to grade inflation	make communication outcomes clear: teach students that writing is a form of thinking and learning; hierarchize what you value most create writing assignments with clear, specific audiences and purposes express how much you value thinking, style, originality, & other non-AI communication virtues; make sure your rubrics prioritize these non-AI virtues teach the value of <i>struggling</i> through writing tasks remind students of the university’s Academic Honesty policy; ask students to make clear when and how they used AI on a project tell students you do not want them to use AI for x or y teach students that they will always be responsible for the content & effects of their writing teach students communication ethics in your field; consider the ethical repercussions of using AI (e.g., plagiarism, misinformation, and conflicting interests of corporate sponsors) create assignments that require spontaneous written and oral communication

what should we do? [from the College of Humanities AI Task Force]

favor context over content	favor process over product, writers over writing
orient assignments & teaching to <i>situations</i> of communication: writers, audiences, media, genres, purposes; do not assign information-heavy “research papers to no one” require students to analyze/target specific audiences for their work ask students to study the “discourse communities” that value certain kinds of writing—to understand, describe, and write to specific specialized audiences assign writing that asks students to make personal connections with your class or other classes teach students to develop metacognitive habits. Require students to: <i>write about what they hope to learn</i> <i>set goals for projects / course</i> <i>write about professional communities they will join</i> <i>write about communities they belong to now</i> <i>reflect on how content is meant to be applied</i> <i>reflect on what they learned while completing writing projects</i> require students to refer to class discussions, lectures, class “inside jokes,” and other live insights in their work	remind yourself: I’m teaching <i>writers</i>, not writing create opportunities for students to experience the creative process (and hold them accountable for it): coming up with ideas, planning a writing task, gathering information, making outlines or initial drafts, getting feedback, revising, and reflecting ask students to talk about their work with others—peers, peer tutors, TAs, you—and explain the decisions they made as writers; use peer reviews, teacher-student conferences, presentations, writing center visits, etc to draw out this experience ask students to write process essays to describe the steps they took to produce writing and what they learned as a result scaffold longer assignments into smaller parts and deliverables ask students to use GPT during the revision process and then reflect on the experience get creative about assessment: assign portfolios of curated work; use “ungrading” practices like grade contracts; assign critical reflections that require students to evaluate what they have written

what should we do? [from the College of Humanities AI Task Force]

expand modes of communication	treat AI as a <i>multiplier</i>
go beyond the double-spaced word-processed paper stop assigning content-heavy take-at-home short-answer essays that lean more towards <i>knowledge-telling</i> rather than <i>knowledge-transforming</i> have students write by hand in class (but consider accessibility concerns); use and collect notecards for fast, informal writing increase chances for students to develop interpersonal competencies, including working with groups, asking good questions, collaborative presenting, etc. assign presentations, multimedia projects (audio, video, web and social media), group collaborations, experiential components require students to interview people, gather and analyze data, or do original research assign impromptu, in-process oral presentations experiment with new genres: storytelling, public writing, case studies, role play	expect more from student writing demand clearer, cleaner, more professional writing (<i>Editorial comment: AI will create linguistic justice—for second-language learners, for example—while simultaneously smooshing creativity</i>) expect students to be more aware of strengths, weaknesses of a text, to know the difference between the rhetorically-beige output of a bot and the creative power of our best writers expect more stylistically; teach students advanced style (specialized terms, sentence variety, transitions and <i>non</i>-transitions, data design, integrating sources creatively, employing humor or metaphors or storytelling, varieties of professional response, etc.) expect students to fact check their work give students examples of professional work to emulate encourage students to <i>compete</i> with AI for the best response reward competencies that have not been mastered by AI