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An overview of Generative AI ~~experiments~~ initiatives
at Minnesota State University, Mankato (so far)

Evan Rusch

Nat Gustafson-Sundell

Minnesota State University, Mankato

November 22, 2024, link.mnsu.edu/notsl-slides



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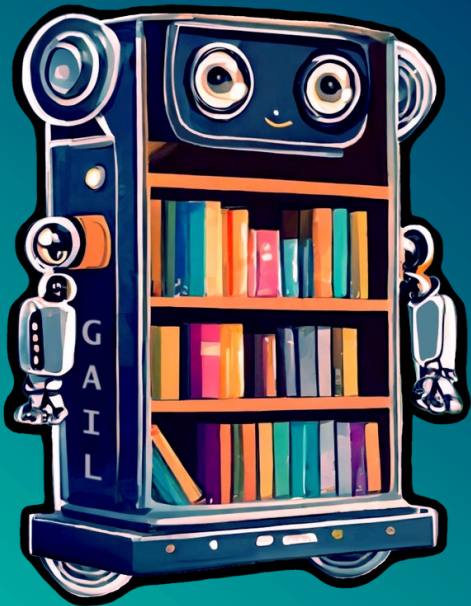


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GAIL CONFERENCE 2024

GENERATIVE AI IN LIBRARIES

Data Visualization, Licensing,
and other Generative AI Initiatives
at Minnesota State University Mankato



Evan Rusch & Nat Gustafson-Sundell
Minnesota State University Mankato

June 13, 2024

Data Visualization, Licensing,
and other
Generative AI Initiatives
at Minnesota State University
Mankato

GAIL Conference 2024

Evan Rusch

Nat Gustafson-Sundell



Can you make a picture of ChatGPT juggling an impossible number of objects?



link.mnsu.edu/aislides

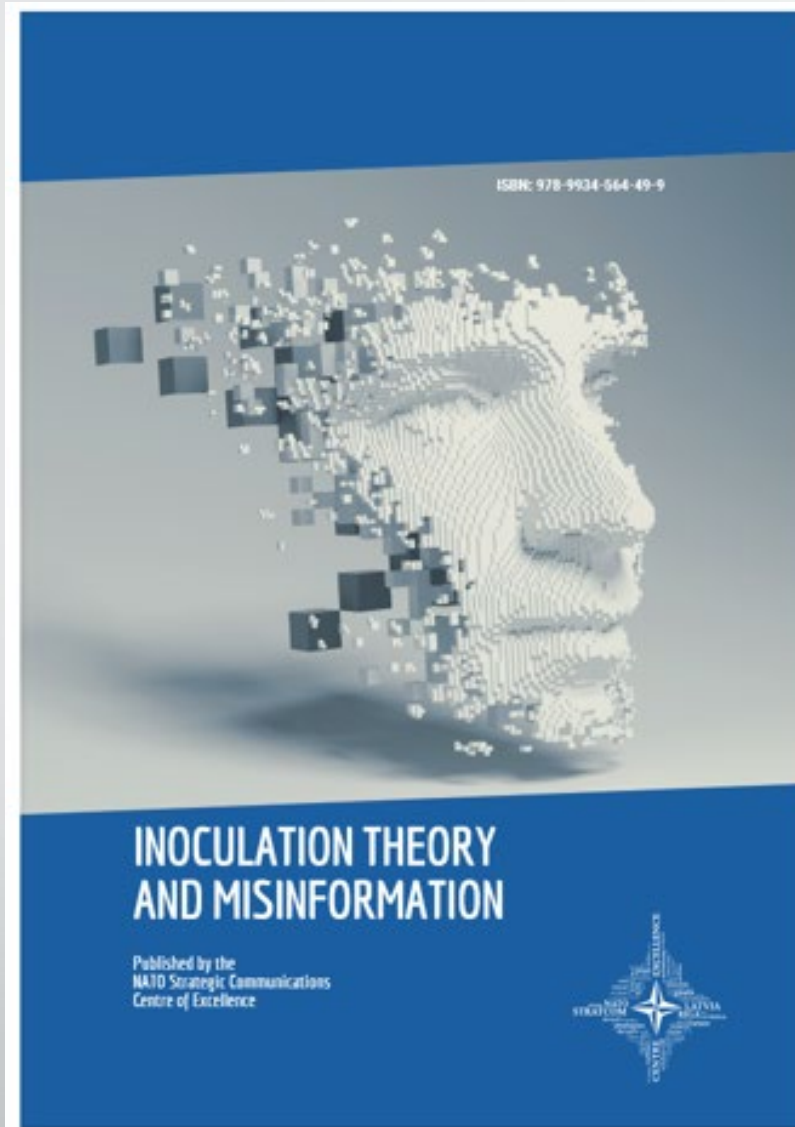
5 Tips for Teaching with AI

Mark McCullough,
Nat Gustafson-Sundell, &
Elizabeth Harsma



The Library & Generative AI

Nat Gustafson-Sundell, Collections Librarian
Mark McCullough, Reference & Instruction Librarian
Minnesota State University, Mankato



Welcome to the informative PDF file on Inoculation Theory and Misinformation! This publication, brought to you by the NATO Strategic Communications Centre of Excellence, provides valuable insights into the psychology of misinformation and how to combat it using inoculation theory.

Example questions:

- ▶ What is inoculation theory and how does it relate to misinformation?
- ▶ Who funded the research mentioned in the author's acknowledgements?
- ▶ Can you provide more information about the Bad News, Harmony Square, and Go Viral Games mentioned in the acknowledgements?

Summarize the article in 2 paragraphs.

This PDF file discusses the concept of inoculation theory and its application in countering online misinformation. Inoculation theory is a psychological approach that involves exposing individuals to weakened versions of persuasive arguments in order to build up their resistance to future attempts at persuasion. The authors argue that this approach can be effective in combating the spread of misinformation online, particularly when combined with other strategies such as fact-checking and media literacy education. The authors also discuss the limitations of current inoculation techniques, such as their reliance on issue-based attacks, and suggest that future research should focus on developing logic- or technique-based inoculations that can be more easily scaled up to address a wider range of misinformation.

The PDF file also describes several studies that have tested the effectiveness of inoculation theory in countering misinformation, including a study that used a game called "Cranky Unde" to teach players how to identify and refute common fallacies in arguments. The authors conclude that while inoculation theory is a promising approach to combating online misinformation, more research is needed to fully understand its potential and limitations. They also emphasize the importance of collaboration between researchers, policymakers, and technology companies in developing effective strategies for countering misinformation online.

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This PDF file discusses the concept of inoculation theory and its application in countering online misinformation. Inoculation...

1 minute ago

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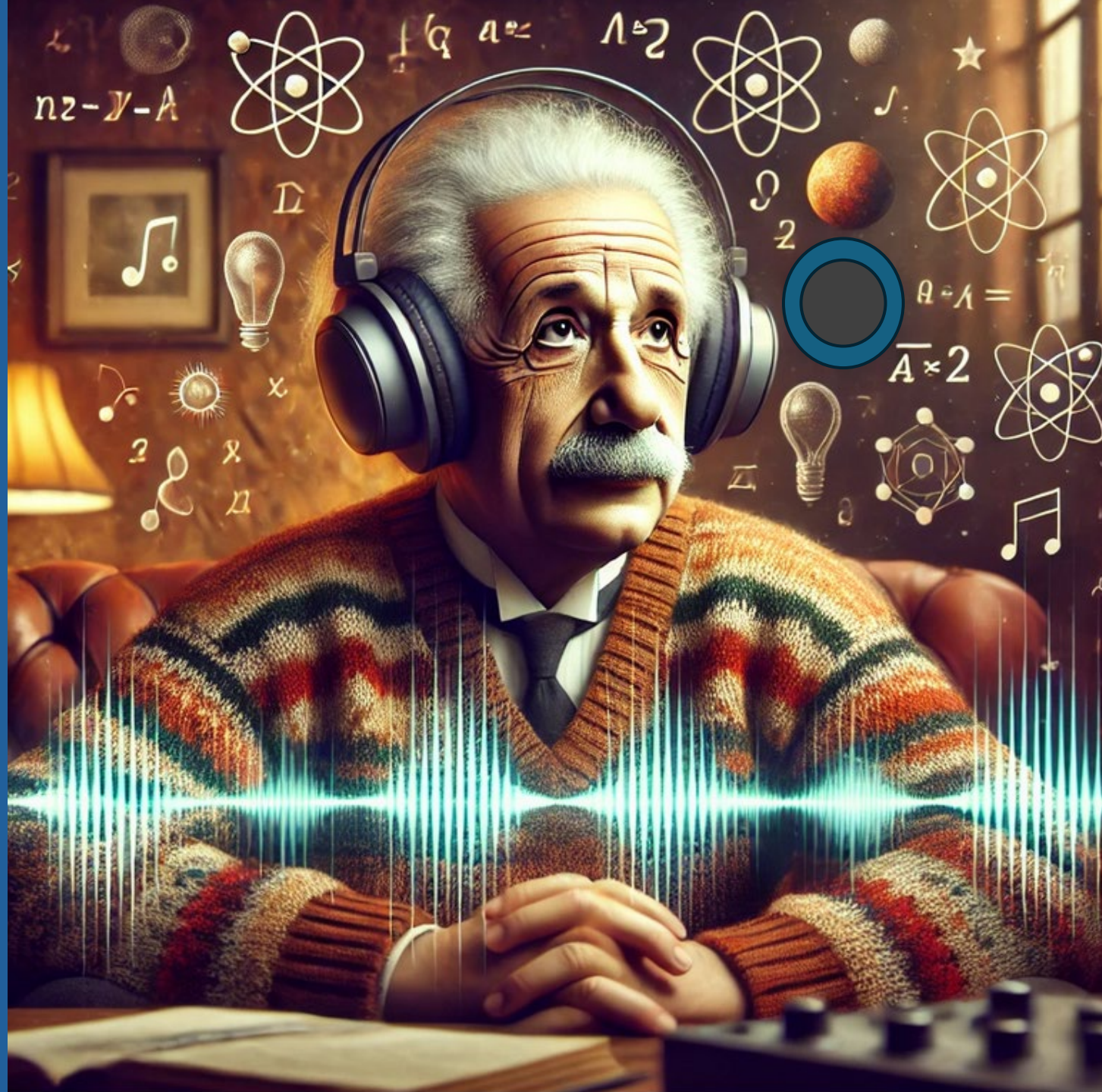
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Remembering Aaron Swartz's legacy in light of JSTOR opening access



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<https://stanforddaily.com/2020/03/27/remembering-aaron-swartzs-legacy-in-light-of-jstor-opening-access/>



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- Board Policy 5.22 [Acceptable Use of Computers and Information Technology Resources](#)
- Board Policy 5.23 [Security and Privacy of Information Resources](#)
- Minnesota State System Office - [Generative Artificial Intelligence: A Guidance Document on Policy Intersections, Considerations and Recommendations](#)

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About This Guide

Generative artificial intelligence (GAI) relies on models that can create new content in the form of text, media, code, etc. Generative AI is used in a variety of globally popular tools such as ChatGPT, Elicit, or Gemini. Its appeal is linked to its ability to ingest the characteristics of its input and use this data to generate new information with similar attributes.

This guide is intended to help students, faculty, and staff at Minnesota State University, Mankato to navigate the evolving terrain of generative AI. It provides an overview of popular AI research tools, offers guidance on crafting prompts in these tools, and points out key resources about AI. It also supplies resources related to core AI ethical issues and provides resource links to help you cite your use of AI.

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ChatGPT: Can you draw a colorful cartoon of a person imagining a shiny rocketship, but in reality, they see a tricycle shaped like a rocket?



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BETA JSTOR AI research tool ON

JOURNAL ARTICLE

Simulacra and Science Fiction (Simulacres et science-fiction)

Jean Baudrillard, Arthur B. Evans

Science Fiction Studies, Vol. 18, No. 3, Science Fiction and Postmodernism (Nov., 1991), pp. 309-313 (5 pages)

<https://www.jstor.org/stable/4240082>

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SIMULACRA AND SCIENCE FICTION 309

Jean Baudrillard

● Simulacra, as discussed in the document "Simulacra and Science Fiction," are categorized into three orders. The first order consists of natural, naturalistic simulacra that focus on image, imitation, and counterfeiting to reconstitute nature in God's image. The second order involves productive, productionist simulacra based on energy and force, aiming for world-wide application and liberation of energy. The third order is simulation simulacra based on information and cybernetic play, aiming for maximum operationality and total control.

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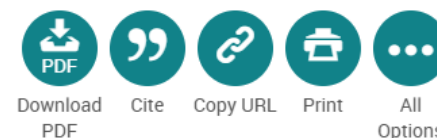
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Institute for Artificial Intelligence and Fundamental Interactions (IAIFI): Infusing physics intelligence into artificial intelligence

Thaler, Jesse; Williams, Mike; LaFleur, Marisa. [AI Magazine](#); [La Canada](#) Vol. 45, Iss. 1, (Spring 2024): 111-116. DOI:10.1002/aaai.12150



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The NSF AI Institute for **Artificial Intelligence** and Fundamental Interactions (IAIFI, pronounced /al-fal/) is one of the inaugural NSF AI research institutes. The IAIFI is enabling physics discoveries and advancing foundational AI through the development of novel AI approaches that incorporate first principles from fundamental physics. By combining state-of-the-art research with early career talent and a growing AI + physics community in the Boston area and beyond, the IAIFI is enabling researchers to develop AI technologies to tackle some of the most challenging problems in physics, and transfer these technologies to the broader AI community. Since trustworthy AI is as important for physics discover)' as it is for other applications of AI in society, IAIFI researchers are applying physics principles to develop more robust AI tools and to illuminate existing AI technologies. To cultivate human **intelligence**, the IAIFI promotes training, education, and public engagement at the intersection of physics and AI. In these ways, the IAIFI is fusing deep learning with deep thinking to gain a deeper understanding of our universe and AI.

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Headnote

Abstract

Research Assistant ^{BETA}

Here is the **key takeaway** for this document.

The IAIFI is advancing foundational AI by integrating principles from physics to develop novel AI technologies that address complex problems in physics and enhance the broader AI community.

Additional topics discussed in the text are: the interdisciplinary collaboration between AI and physics, the importance of education and training in AI + physics, and the ethical considerations in AI development. These topics are significant for researchers as they highlight the need for a collaborative approach to tackle complex scientific challenges and ensure responsible AI practices.

The exploration of artificial intelligence within the framework of physics not only enhances our understanding of both fields but also

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Provide 3 links to scholarly sources on the oviposition of bean beetles



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Discuss the reception of Machiavelli's *The Prince* in modern times



How can we improve diversity in Clinical Trials?





Provide 3 links to scholarly sources on the oviposition of bean beetles

Searching for relevant resources

Generating overview for 5 most relevant sources

Overview of sources

Research on the oviposition behavior of bean beetles, particularly the species *Callosobruchus maculatus* and *Callosobruchus chinensis*, reveals various factors influencing their egg-laying preferences. One study indicates that when laboratory populations of *C. maculatus* are periodically forced to switch hosts, cyclic variations in egg-laying occur, primarily driven by an inherent oviposition preference for certain hosts, such as *Vigna unguiculata*, and an aversion to less preferred hosts like *Cicer arietinum*. This aversion appears to be induced by prior exposure to the preferred host, suggesting that environmental factors can significantly influence oviposition behavior¹.

Another investigation into *C. chinensis* highlights the role of oviposition substrates in female remating behavior. It was found that females with access to an oviposition substrate were more likely to remate compared to those without such access. This suggests that the presence of suitable oviposition substrates can affect female receptivity and, consequently, reproductive success².

Additionally, a study examining the genetic architecture of oviposition behavior in *C. maculatus* found that differences in oviposition preference and egg dispersion between populations are influenced by both genetic factors and the environment in which the beetles are reared. The research indicates that the genetic basis for these behaviors varies depending on the host plants available, demonstrating the complexity of oviposition strategies in response to environmental conditions³.

These findings collectively underscore the intricate interplay between genetic, environmental, and behavioral factors in shaping the oviposition preferences of bean beetles, contributing to our understanding of their reproductive ecology.

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Sources

- 1 JOURNAL ARTICLE**
Induced oviposition preference, periodic environments, and demographic cycles in the bruchid beetle *Callosobruchus maculatus*
Mark, Graham A 1982
- 2 JOURNAL ARTICLE**
Effect of oviposition substrate on female remating in *Callosobruchus chinensis* (Coleoptera: Bruchidae)
Miyatake, Takahisa et al. 2006
- 3 JOURNAL ARTICLE**
Genetic architecture of population differences in oviposition behaviour of the seed beetle *Callosobruchus maculatus*
Fox, C W et al. 2004
- 4 JOURNAL ARTICLE**
No-choice oviposition preferences predict neighborhood effects among host plants in a model system
Merwin, Andrew C. et al. 2024
- 5 JOURNAL ARTICLE**
Host-induced oviposition preferences and oviposition markers in the cowpea weevil, *Callosobruchus maculatus*
Wasserman, S S 1981

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How It Works

Primo Research Assistant uses a Retrieval Augmented Generation (RAG) architecture to combine the language capabilities of the LLM (Large Language Model) with the knowledge from material indexed in the Central Discovery Index (CDI). Responses are generated as follows:


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2. **Results Retrieval** – The Boolean query is sent to CDI to retrieve the results.
3. **Re-ranking** – The top results (up to 30) are re-ranked using embeddings to identify five sources that best address the user's query.
4. **Overview Creation** – The top five results are sent to the LLM with the instructions to create the overview with inline references, based on the abstracts.
5. **Response Delivery** – The overview and sources are returned to the user in the response.

For information regarding AI usage and privacy, see [Research Assistant Privacy](#).

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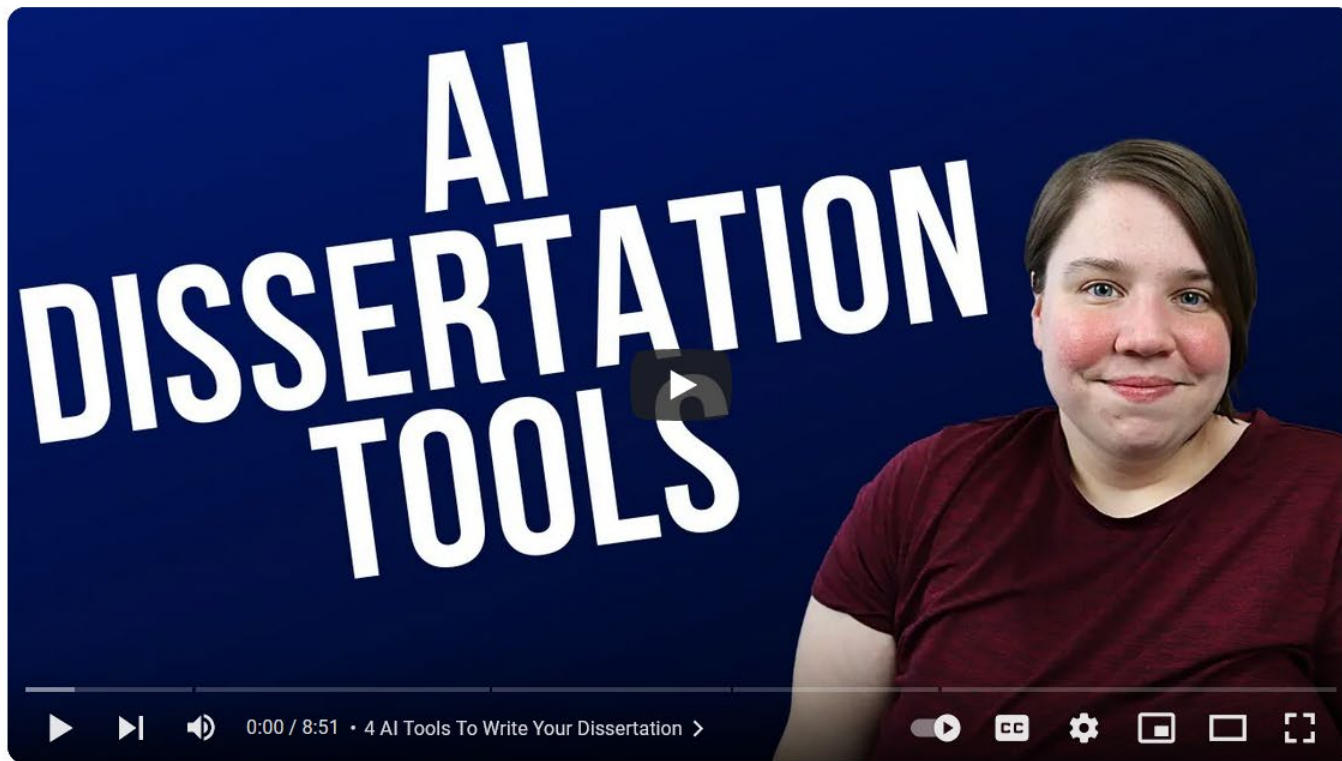
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2 The Evolution of Oviposition Tactics in the Bean Weevil, *Callosobruchus maculatus* (F.)

Female bean beetles tend to avoid adding second eggs as long as there are unused beans, and their oviposition strategy gains about 70% of the fitness that it could evolve.


Ecology | R. Mitchell et al. | 223 citations | 1975

 Highly Cited

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3 Oviposition Choice of Mexican Bean Beetle (*Epilachna varivestis*) Depends on Host Plants Cyanogenic Capacity

Female Mexican bean beetles prefer to lay their eggs on plants with low cyanogenic capacity.

Journal of Chemical Ecology | D. Ballhorn et al. | 30 citations | 2006

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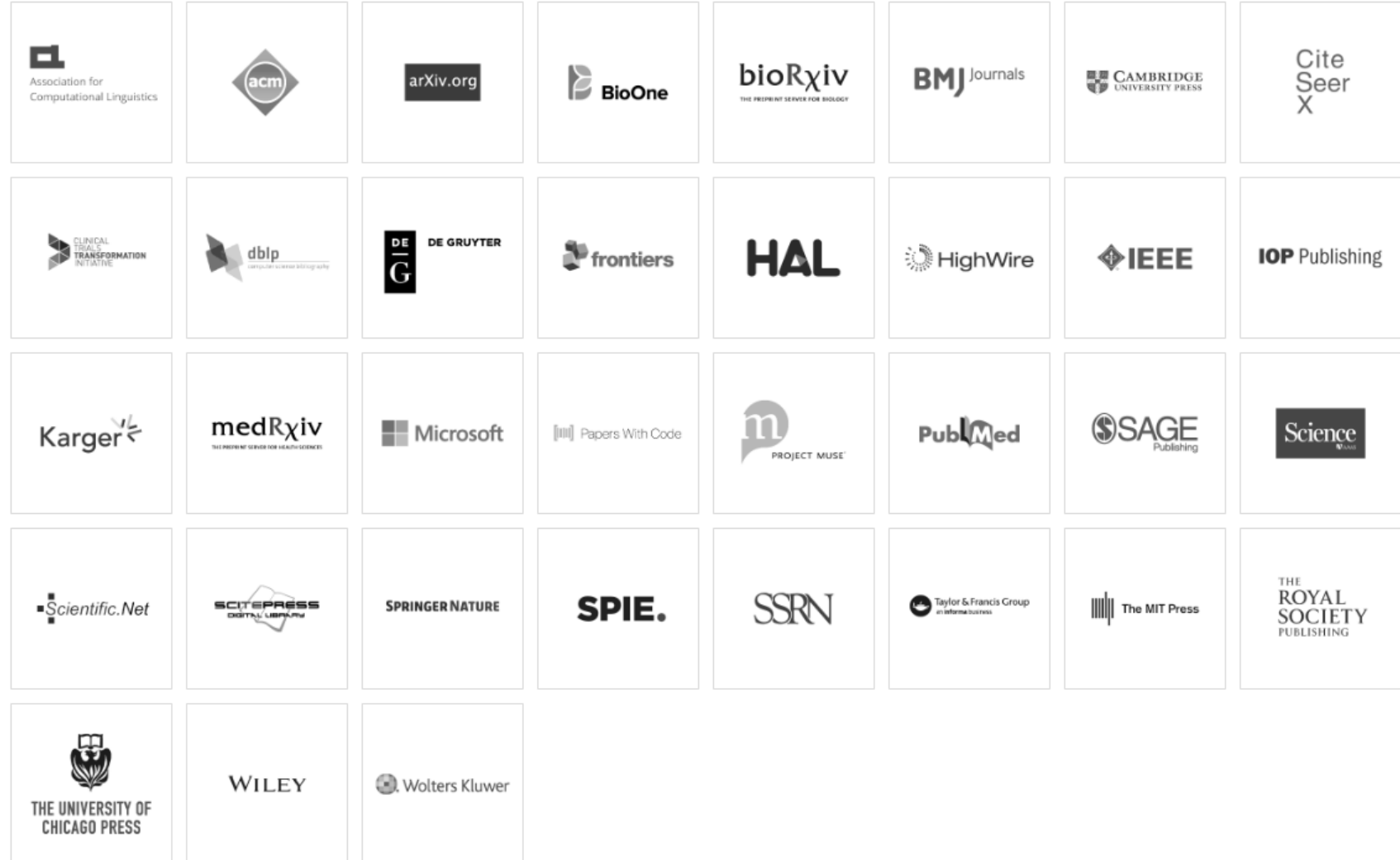
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ARTIFICIAL INTELLIGENCE

Forcing shadow libraries out of the darkness

Data from so-called shadow libraries is used to train large language models (LLMs), to the consternation of many authors. Should the people behind free access to books online face recriminations, or does the responsibility fall on the technology companies profiting from shadow libraries?

Loe, M. (2023, July 25). Forcing shadow libraries out of the darkness. T_HQ.
<https://techhq.com/2023/07/shadow-libraries-training-llms-ai/>



ChatGPT: Can you provide a picture of a character explaining, "I'm just trying to be honest here?"



Can you produce a hyperreal version?



Make it super honest.



Make it the goddess of honesty.



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NEWS | 14 August 2024

Has your paper been used to train an AI model? Almost certainly

Artificial-intelligence developers are buying access to valuable data sets that contain research papers – raising uncomfortable questions about copyright.

By [Elizabeth Gibney](#)

Sci-hub



> Free mode

Featured matches ⁱ

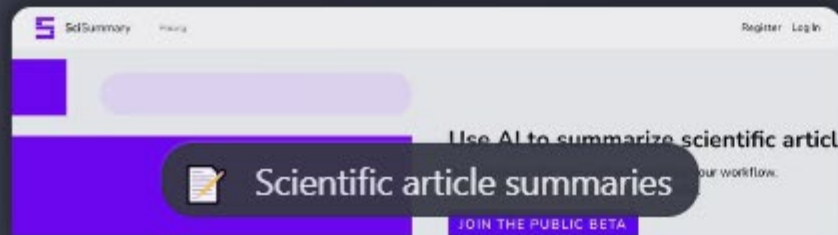


Scisummary ✓

Cutting-edge scientific articles summarization.

★★★★★ (12)

📖 2,269 ⭐ 4.3



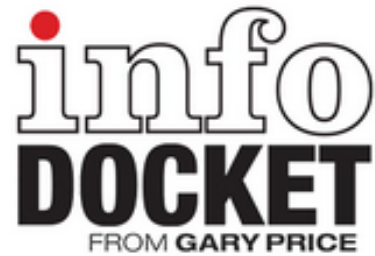
Papers ✓

Discover, Organize, and Analyze Research with AI-Powered Precision

★★★★★ (7)

📖 132 ⭐ 3.7





info
DOCKET
FROM GARY PRICE

Research Tools (Prototype): University of Washington & Allen Institute for AI (the People Behind Semantic Scholar) Announce the Launch of Ai2 Open Scholar

November 19, 2024 by [Gary Price](#)

4. Many scientific papers are paywalled. To ensure that we respect all applicable licenses and copyrights, the OpenScholar datastore includes only open-access papers. This can significantly degrade our ability to answer questions in fields where closed-access papers are more prevalent. We hope that future work can address this issue by developing ways of responsibly incorporating such papers (e.g., by restricting verbatim copying from those papers, and instead linking out to their respective publisher sites).

<https://www.infodocket.com/2024/11/19/research-tools-prototype-university-of-washington-and-the-allen-institute-for-ai-the-people-behind-semantic-scholar-announce-launch-of-ai2-open-scholar/>

Ai2 OpenScholar



SEMANTIC SCHOLAR

UNIVERSITY of WASHINGTON

Play (k)



0:01 / 2:29



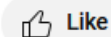
Ai2 OpenScholar Demo



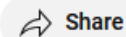
Ai2

11.2K subscribers

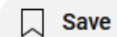
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Learning about...
Artificial Intelligence at
the Minnesota State
University, Mankato
Library

GAIL Slides: <https://link.mnsu.edu/gail-slides>
GAIL Video: <https://link.mnsu.edu/gail-video>

Nat Gustafson-Sundell
(10/6/2023)



This image was produced by Michelangelo, a ChatGPT plug-in, in October, 2023



AI as a License Review Assistant

Nat Gustafson-Sundell, gustan2@mnsu.edu

Collections Librarian, Associate Professor

Library & Learning

Minnesota State University Mankato

(10/16-17/2023)

Reviewing a Sample License Section by Section ▾

PDF

License_Sampl...
1.70 MB

I'd like to review a license. I'm interested in certain concepts. Please extract references to these concepts. After you present the first concept, please pause and ask me if I have any questions. Present each concept one at a time, pausing after each for questions. Wait for me to ask questions or say continue. Here are the concepts: (1) Definition of authorized user, (2) Definition of site, (3) Renewal, (4) The term period of the license, (5) Termination requirements, (6) Financial hardship, (7) Confidentiality or Non-disclosure, (8) Accessibility or ADA compliance, (9) Journal transfers or Previous subscriptions.

NG



Reviewing a Sample License Section by Section ▾

AI Copy

continue NG

Okay, the next concept is:

(2) Definition of site

From the license:

"Site" is defined as the Licensee's locations and offices as denoted on the attached Schedule 1.

The site is defined as the licensee's locations and offices listed in Schedule 1 of the agreement.

Do you have any questions about the definition of site? Or shall I move on to the next concept?

AI Copy

Is there a distinct section on site? NG

Good question. There is not a distinct section specifically defining "site" in further detail beyond the short definition provided in the definitions section of the license agreement. The reference to Schedule 1 seems to indicate that the specific sites/locations/offices covered under the license are enumerated in that attached schedule, but Schedule 1 is

<https://link.mnsu.edu/ailicensevideo>



ChatGPT: Can you make a photographic image of a person looking in the mirror. The reflection in the mirror is the same person, but their eyes are a different color.

Excel for Library Projects

This library guide supports the Minitex workshop series, Excel for Library Projects: Learn by Doing, running Sept-Dec 2024.

HOME

PROJECT 1: BUDGET PROJECTIONS

PROJECT 2: THE WEEDING REPORT

PROJECT 3: DATA CLEANING FOR COLLECTION ANALYSIS

PROJECT 4: COLLECTION ANALYSIS REPORT PRODUCTION

ANNOUNCEMENTS

ANSWERS, CORRECTIONS, & PLANNING

Session 2 Description

Project 2: The Weeding Report


Let's prepare a weeding report from sample physical collections data. For this project, we'll continue learning how to use functions effectively. We'll calculate how many years ago an item was acquired or circulated. We'll look at a simple method to combine these calculations as a single variable we can use efficiently to identify candidates for weeding. We'll use conditional formatting and other techniques to improve the legibility of our report.

	A	B	C	G	N	P	Q	R	S	T	U	
	Permanent Call Number	Barcode	Title	Cumulative Times Loaned Since 191	Years since Last Circ or 1918	Years since Rec'd or 1985	Meets Removal Threshold	Retained for MNSPOC	Meets Removal Threshold & Not Scarcely Held	Keep	Initials	Comments
138	D13_G7_1949x	30101000388322	History and historians in the nineteenth century.	3	25	39	1	0	1			
139	D13_G7_1952	30101000388330	History and historians in the nineteenth century.	4	15	39	0	0	0			
140	D13_G74_1989	30101008901894	Towards a rational historiography /	0	10	11	0	0	0			
141	D13_G75_1950	30101000388348	Understanding history : a primer of historical method /	0	9999	39	1	0	1			
142	D13_G78_1991	30101011424355	Historian's handbook : a key to the study and writing of history /	7	23	31	1	0	1			
143	D13_G78_1991	30101013010038	Historian's handbook : a key to the study and writing of history /	5	23	28	1	0	1			
144	D13_H282_1996	30101014028872	The social misconception of reality : validity and verification in the	1	15	27	0	0	0			

What we'll learn or review: additional formatting; convert numbers stored as text to numbers; functions: Len(), Countif(), Countifs(), Year(), If(), And(), IsError(), IsNumber(), Index(Match); basic pivot charts; basic conditional formatting.



A	B	C	D	E	F	G	L	M	O	R	S	Rec
Permanent Call Number	Barcode	Match to my own list?	Title	Author	Begin Publication Date	Cumulative Times Loaned Since 1985	Last Loan Date	Receiving Date	Permanent LC Classification Code	LC Subclass Title	Years Since Last Loan	Y
NA31 .S86 1966	30101001517895	0	The classical language of arch	Summerso	1966	5	4/28/2004	4/24/1985	NA	General	20.4630137	
NA204 .M8	30101001516603	0	Elements of the art of archite	Muschenh	1964	7	4/28/2004	4/24/1985	NA	History	20.4630137	
NA350 .H26 1972b	30101004094348	0	The mediaeval architect	Harvey, Jo	1972	17	3/2/2004	11/10/1986	NA	History	20.61917808	
NA705 .R53 1980b	30101001528439	0	A field guide to American arch	Rifkind, Ca	1980	14	3/24/2004	4/25/1985	NA	History	20.55890411	
NA710 .E2	30101001528629	0	Romanticism and American ar	Early, Jame	1965	4	10/13/2004	4/25/1985	NA	History	20.00273973	
NA720 .L262 1996	30101013991557	0	Architecture of the Old South	Lane, Mills	1996	4	4/5/2004	11/14/1996	NA	History	20.5260274	
NA730 .I6 P69x	30101013485578	0	The Victorian architecture of	Plymat, Wi	1976	16	7/28/2004	2/6/1995	NA	History	20.21369863	
NA735 .C4 B33	30101001532159	0	A guide to Chicago's historic s	Bach, Ira J.	1981	3	1/27/2004	4/25/1985	NA	History	20.71506849	
NA950 .J6 1961	30101001529486	0	The world of great architectu	Jordan, R.	1961	3	4/8/2004	4/25/1985	NA	History	20.51780822	
NA2500 .A465	30101001530609	0	A modern theory of architect	Allsopp, Br	1977	3	7/19/2004	4/25/1985	NA	General works	20.23835616	
NA2500 .D4 1957	30101001530591	0	Origins of functionalist theory	De Zurko, I	1957	4	7/19/2004	4/25/1985	NA	General works	20.23835616	
NA2542.35 .C77 1995	30101012980579	0	Nature and the idea of a man	Crowe, No	1995	3	4/28/2004	4/5/1996	NA	General works	20.4630137	
NA2550 .H3 1947	30101001531334	0	Architecture, an art for all me	Hamlin, Ta	1947	3	4/28/2004	4/25/1985	NA	General works	20.4630137	
NA2550 .R313 1962	30101001531342	0	Experiencing architecture /	Rasmusse	1962	5	4/28/2004	4/25/1985	NA	General works	20.4630137	
NA2750 .W66	30101001538602	0	Principles of three-dimension	Wong, Wu	1977	7	3/9/2004	4/25/1985	NA	Architectural d	20.6	
NA2765 .L35	30101001538644	0	Perception and lighting as for	Lam, Willia	1977	4	1/30/2004	4/25/1985	NA	Architectural d	20.70684932	
NA5253 .B3	30101001524956	0	The churches of Mexico, 153C	Baird, Jose	1962	2	7/27/2004	4/25/1985	NA	Special classes	20.21643836	
NA5616 .W57 1974	30101016651390	0	Gothic vs. classic; architectur	Wittkower	1974	13	4/30/2004	9/14/1999	NA	Special classes	20.45753425	
NA6821 .H35 1987	30101009790783	0	Theatres : planning guidance f	Ham, Rode	1987	5	5/6/2004	12/7/1990	NA	Special classes	20.44109589	
NA7205 .C6 1997	30101018331694	0	Converting storefronts to housi		1997	1	1/5/2004	4/19/2002	NA	Special classes	20.77534247	
NA7205 .G76x	30101002161560	0	Old house plans : two centuri	Grow, Law	1978	12	6/17/2004	6/21/1985	NA	Special classes	20.3260274	
NA7237.B65 B8	30101001542216	0	Houses of Boston's Back Bay	Bunting, B	1967	4	10/13/2004	4/25/1985	NA	Special classes	20.00273973	
NA7238.N33 T9	30101001542190	0	Matchez ante-bellum homes,	Tyree, Iren	1964	4	10/13/2004	4/25/1985	NA	Special classes	20.00273973	
NA9000 .U67 no. 70	30101001540988	0	Golf course developments,	Jones, Ree	1974	28	5/3/2004	4/25/1985	NA	Aesthetics of c	20.44931507	
NA9970 .D45 1988	30101015166169	0	People places design guidelines for		1988	4	2/26/2004	2/10/1988	NA	Authenticity of s	20.62287671	



Within the column labelled Permanent LC Classification Code, there are a range of data values. One of the data values is NA. Can you count the frequency of the data value NA in this column?



It seems that there are no occurrences of the exact value "NA" in the **Permanent LC Classification Code** column. To ensure we're capturing the correct value, could you confirm if you're referring to a case-sensitive "NA" or any variations, such as "na" or "Na"? Additionally, I can check for any similar patterns if you'd like. [↗]

NA is case sensitive. There should be values such as Unknown, M, ML, and NA.



It seems that the value "NA" does not appear in the **Permanent LC Classification Code** column. Instead, I see values such as "Unknown," "M," "ML," and others like "N," "NB," and "NC." Additionally, there are some missing values (NaN).

Would you like me to investigate further or perhaps count occurrences of a different value? [↗]

It's interesting you can't see the distinct value NA. I suspect, when it was imported, these values were rejected, presumably because they were treated as nulls?



You're absolutely right! It's possible that when the data was imported, the value "NA" was interpreted as a null or missing value (`NaN`). This can happen because "NA" is sometimes automatically treated as a placeholder for missing data in certain systems or programming environments, including Pandas (which I used to load the spreadsheet).

If you'd like, I can:

1. Reload the data while treating "NA" as a distinct value (not as a null).
2. Count how many times "NA" appears in the column.

Would you like me to proceed with that approach?

Thanks! Can you reload the data while treating "NA" as a distinct value, not as a null?

File Home Insert Modeling View Optimize Help

Clipboard: Paste, Cut, Copy, Format painter

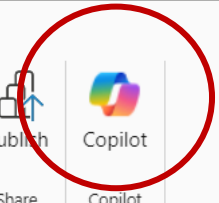
Data: Get data, Excel workbook, OneLake data hub, SQL Server, Enter data, Dataverse, Recent sources

Queries: Transform data, Refresh data

Insert: New visual, Text box, More visuals

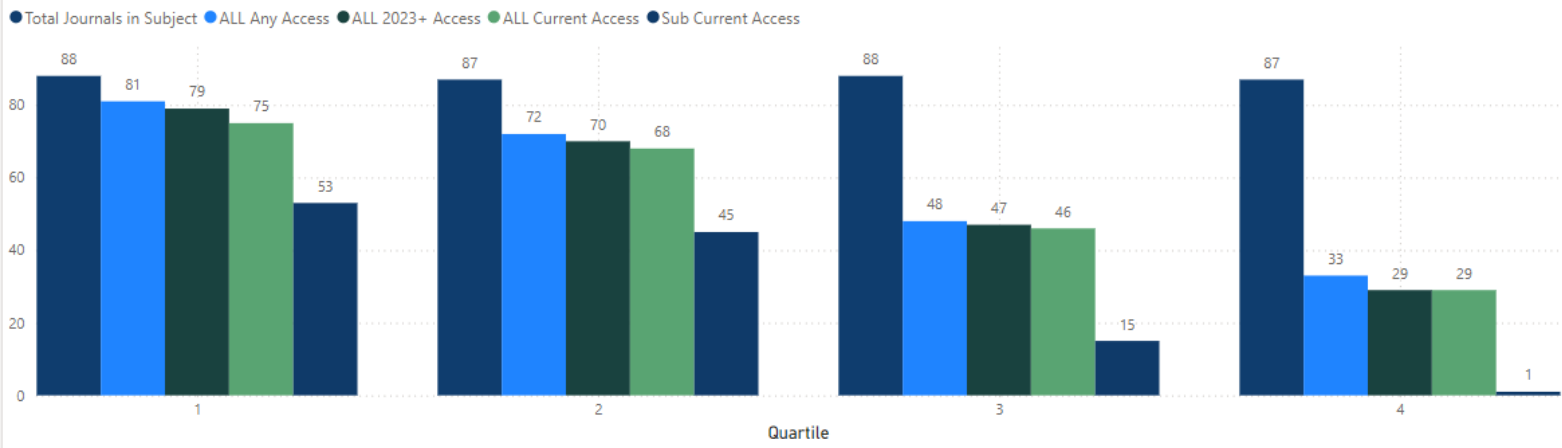
Calculations: New visual calculation, New measure, Quick measure

Sensitivity, Publish, Copilot



Quartile	Total Journals in Subject	ALL Any Access	ALL 2023+ Access	ALL Current Access	Sub Current Access	% Current Sub	Agg-MNSU Current Access	Agg-MNSU 2023+ Access	ELM Current Access	ELM 2023+ Access	OA Current Access	OA 2023+ Access	PCA Current Access	Article Downloads 13-23	Southworth Ratio	MavScholar Clicked Services 19-23	Lib Rec 10/
1	88	81	79	75	53	60%		5	5	19	19	10	10	18,013	0.52	1,539	
2	87	72	70	68	45	52%	2	5	1	3	19	19	10	3,948	0.46	456	
3	88	48	47	46	15	17%	3	3	2	4	26	26	10	1,059	0.47	128	
4	87	33	29	29	1	1%	3	3	3	3	24	24	30	1,809	0.17	165	
Total	350	234	225	218	114	33%	8	16	6	15	88	88	30	24,829	0.49	2,288	

Journal Supply By Subject Category Quartile & Holdings Type



Use one subject at a time. Multiple subjects can lead to data errors because of multiplier effects.

Filters

Search

Filters on this page

- Holdings Collection is (All)
- Holdings Interface is (All)
- Subject Category is Civil and Structural ...**
- Usage Platform is (All)
- Usage Type is (All)

Add data fields here

Filters on all pages

Add data fields here

Visualizations

Build visual

Values: Add data fields here

Drill through

Cross-report: Off

Keep all filters: On

Add drill-through fields here

Data

Search

- ArticleDownloads
- CostData
- ILL
- JournalSupply
- LibKey
- LinkResolver
- Scim
- Scim_Collections
- Scim_Trends
- Subject Area
- Subject Category
- Year
- YOP



Copilot

Preview



You can't access Copilot

None of your current workspaces are compatible with Copilot. Only an admin can fix this. [Learn more about capacity requirements](#)



← Back to schedule

Transforming Library Data Analytics into Strategic Insights with ChatGPT

Tuesday June 4, 2024 2:45pm - 3:45pm PDT

Grand Ballroom C

Program Description:

In the rapidly advancing realm of artificial intelligence (AI), libraries are well-positioned to harness these technologies for greater efficiency and impact. The University of Toronto Libraries is embracing this opportunity by exploring the use of AI, particularly ChatGPT, to enable more robust data analysis and enhance data-driven initiatives. This session will explore how artificial intelligence can simplify and improve data analysis, leading to more informed and strategic decision-making within the library context. The presentation will illustrate ChatGPT's effectiveness in cleaning and organizing disparate data, automating data enrichments, and enhancing the overall quality of library data. Additionally, the session will explore ChatGPT's capabilities in data exploration and visualization, highlighting how AI can generate deeper insights and make data more accessible to stakeholders. Another key aspect of the discussion will be the use of ChatGPT in predictive analytics, showcasing the potential of AI to anticipate user behaviors and guide collection development. This session aims to demystify the application of artificial intelligence in library environments, illustrating its power to streamline data analysis processes, unlock new potential for data management, and enhance strategic decision-making in libraries.

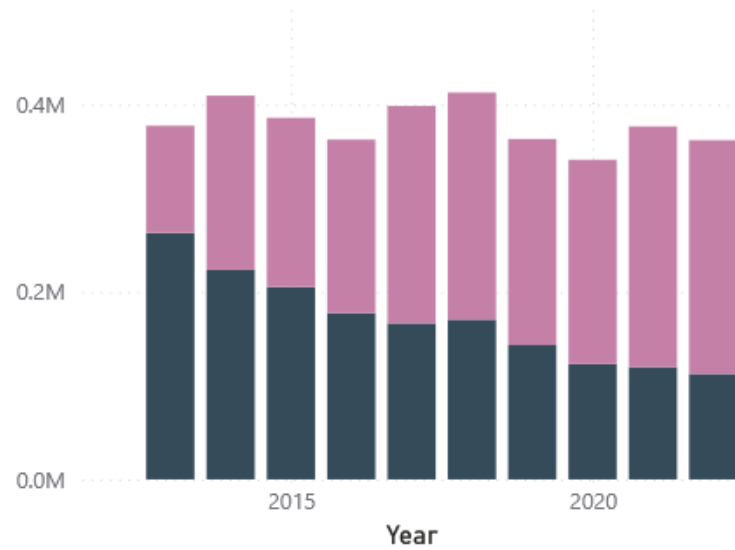
See "Transforming Library Data Analytics into Strategic Insights Using ChatGPT," Marlene van Ballagooie, Download: <https://nasig2024.sched.com/event/1a6nV/transforming-library-data-analytics-into-strategic-insights-with-chatgpt>



Create an image of a person in a library using a computer to use Chat GPT. The library is a modern university library

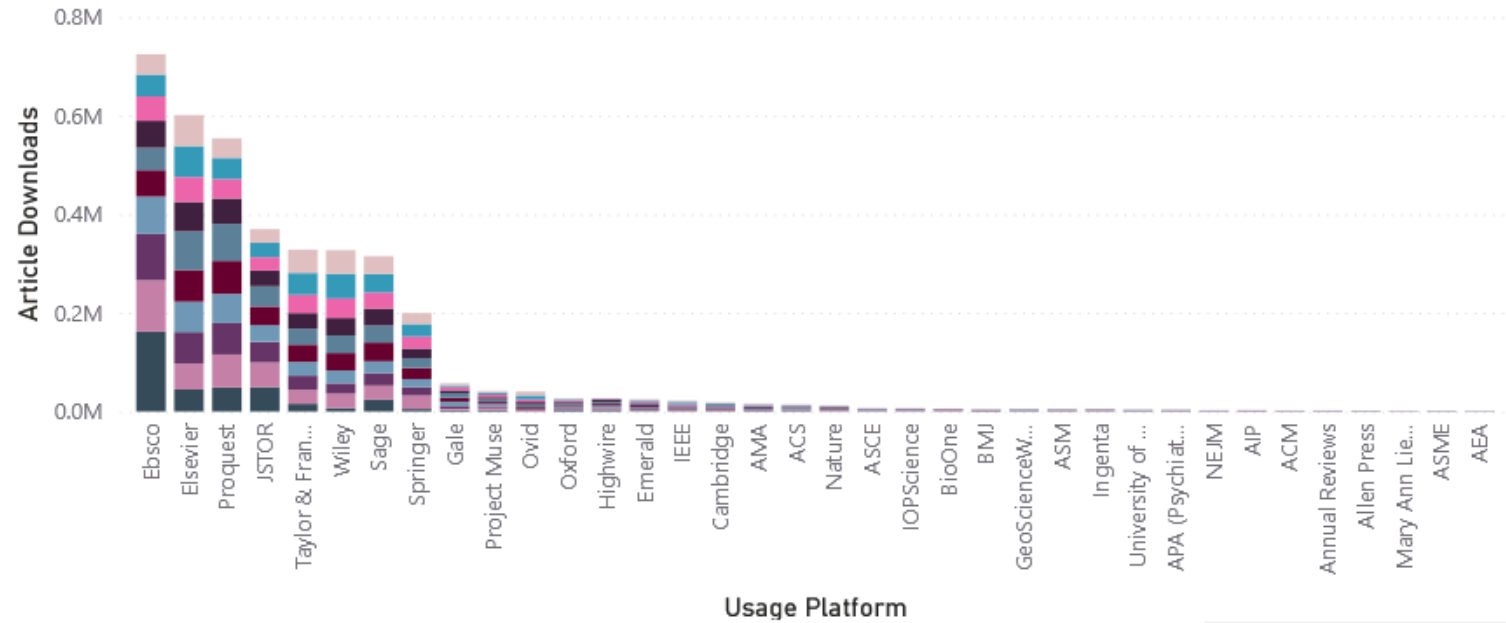
Article Downloads by Year and Usage Type

UsageType ● NonSub ● Sub



Article Downloads by Usage Platform and Year

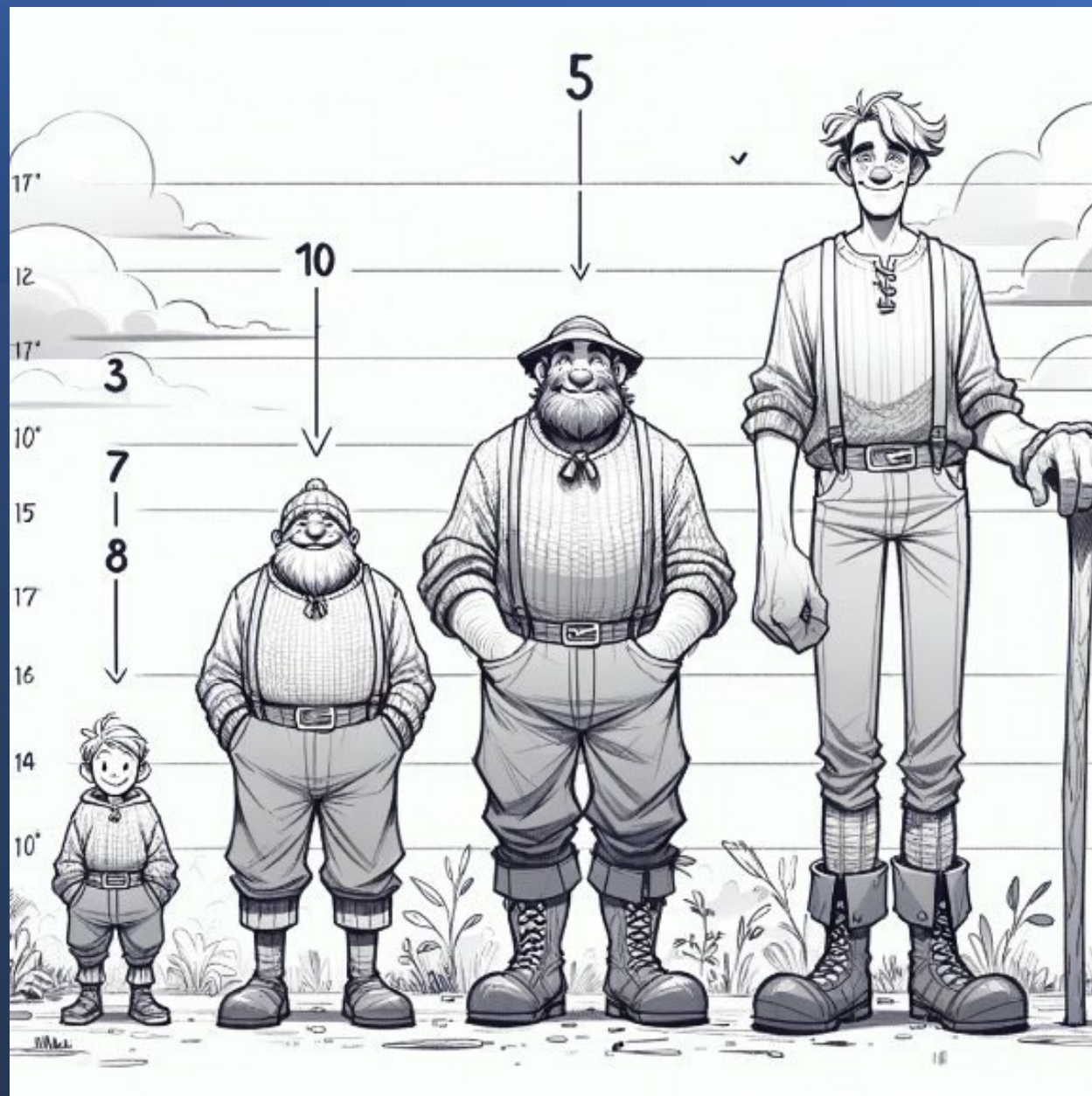
Year ● 2013 ● 2014 ● 2015 ● 2016 ● 2017 ● 2018 ● 2019 ● 2020 ● 2021 ● 2022

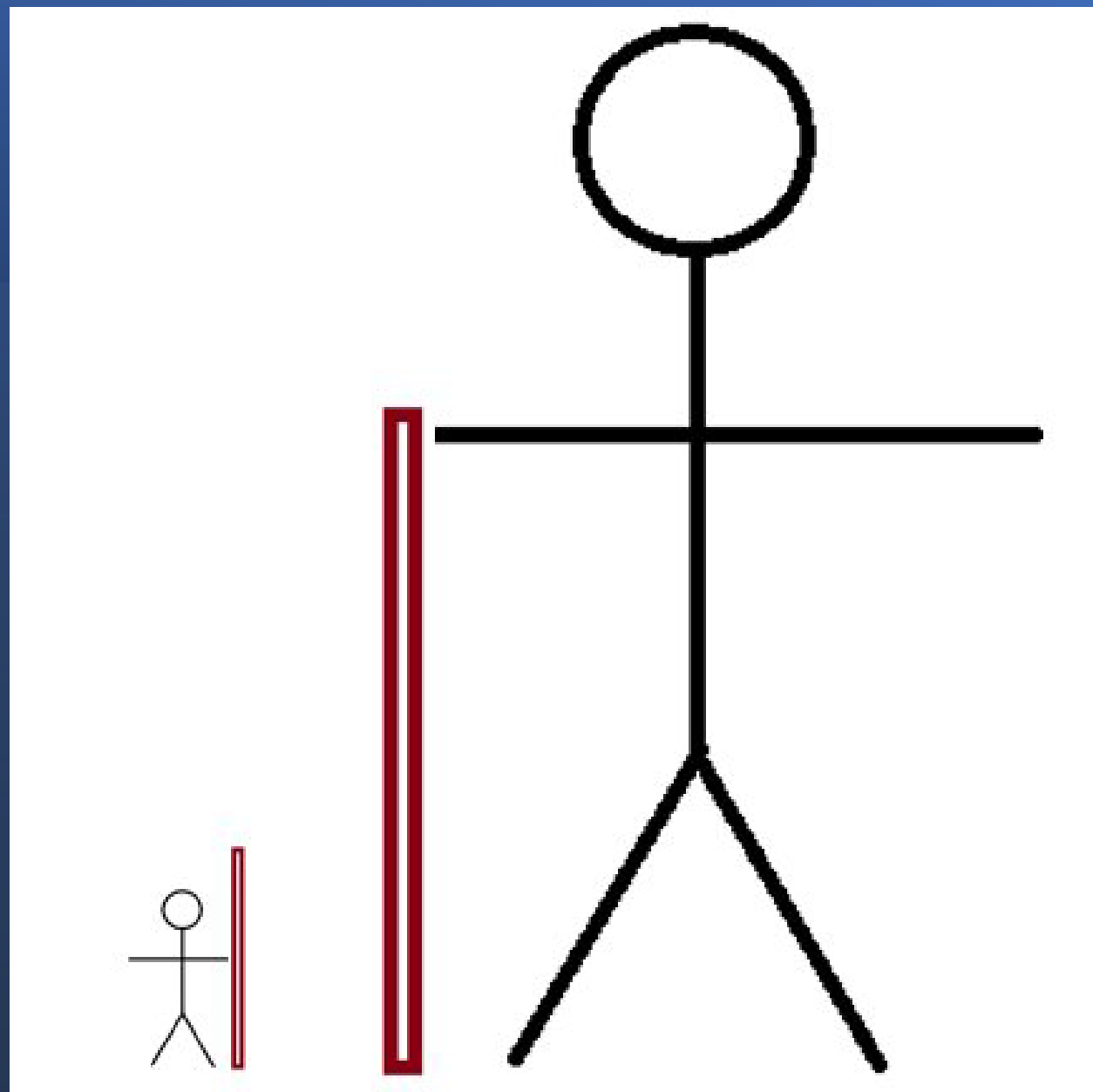


Usage Platform	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
ACM	222	426	236	219	222	198	182	132	244	386	2,467
ACP									343	470	813
ACS	1,644	1,301	1,255	1,204	1,306	1,988	1,751	1,089	1,110	1,555	14,203
AEA	153	330	222	198	112	130	158	92	182	123	1,700
AIP	263	185	509	272	340	399	256	159	167	266	2,816
Allen Press	179	157	117	353	298	220	387	103	89	331	2,234
AMA	0	0	0	1,074	2,593	2,783	2,855	2,040	2,663	2,633	16,641
Annual Reviews	165	188	160	145	243	385	281	313	311	258	2,449
APA (Psychiatry)	21		394	352	413	511	417	635	689	399	3,831
APA (Psychology)				8	9	12	42	270	280	302	923
APS (American Physical Society)	129	99	296	136	256	232	122	116		135	1,521
APS (American Physiological Society)				188	1	331	375	154	168	164	1,381







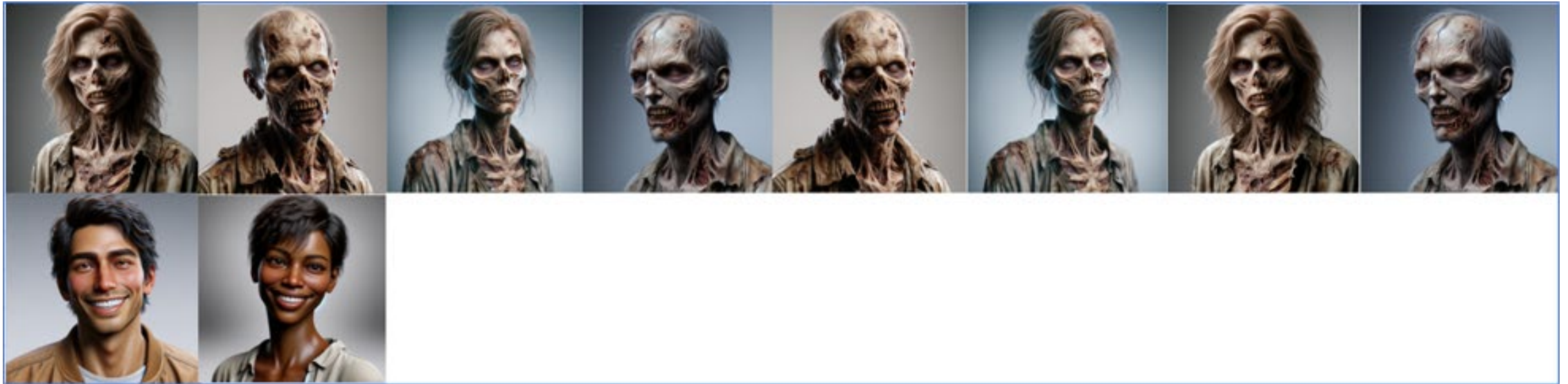




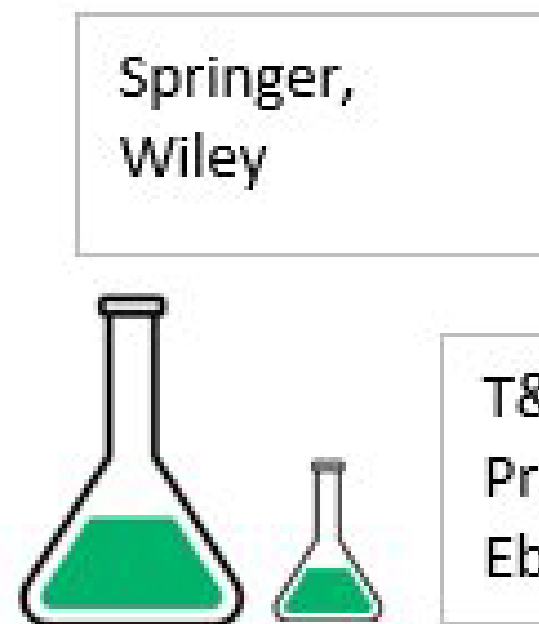
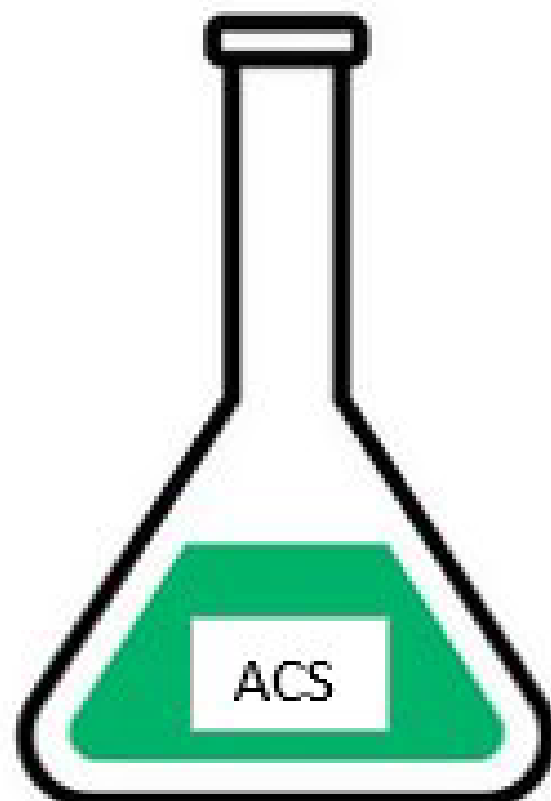
-
- The size of dragon represents the cost of a large journal package relative to the number of citable documents (or riches) the package provides



In journal package X, nearly **8 out of 10** of the journals in the package provided **20 or less** article downloads over **3 years**.



Chemistry Article Downloads by Vendor Platform

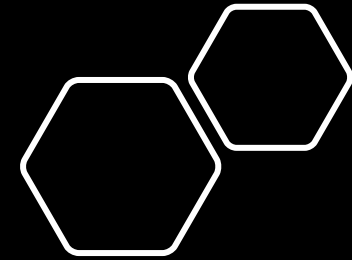




Average Cost Per Use



Package X Cost Per Use



- This journal package is important across more academic disciplines than any other journal package.
- It provides large proportions of article downloads for more subject categories than other packages.





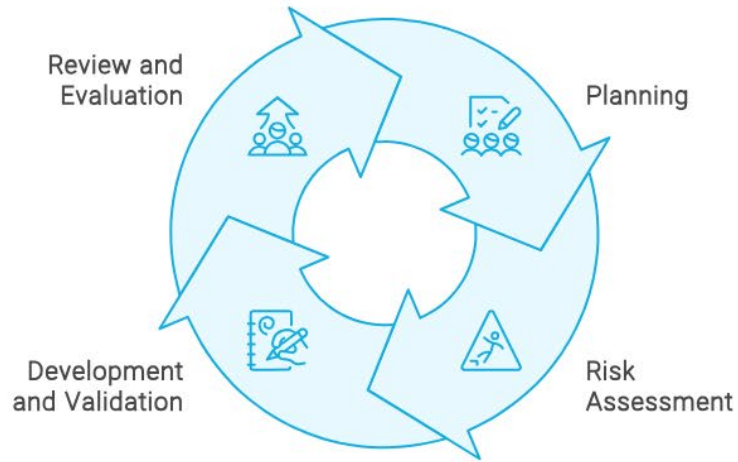
create an image of a person riding a bicycle up a steep slope



Create a simple, minimalist image of a person riding a bicycle up a steep slope. The cyclist should be positioned perpendicular to the viewer

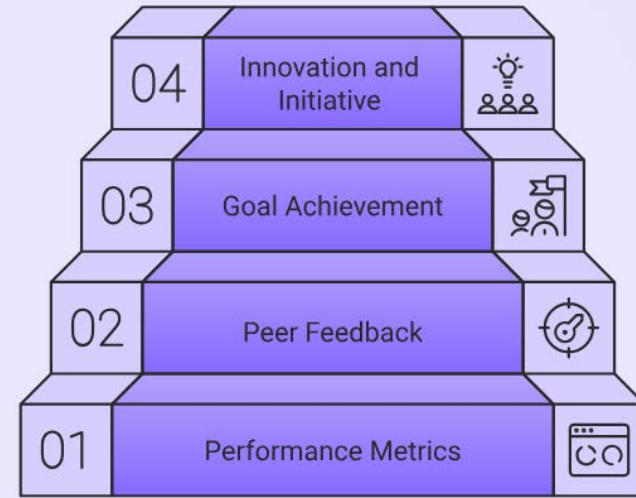


Iterative Project Development



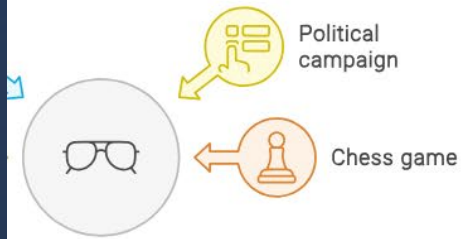
Steps to Identify Top Performers

Get Napkin Free →

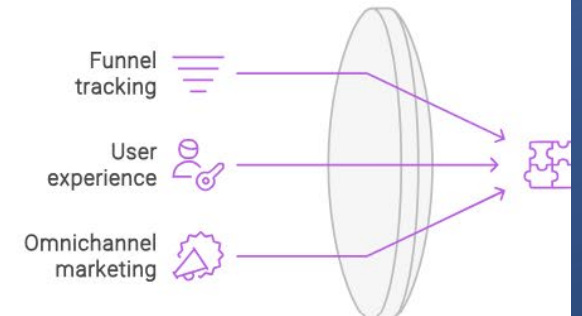
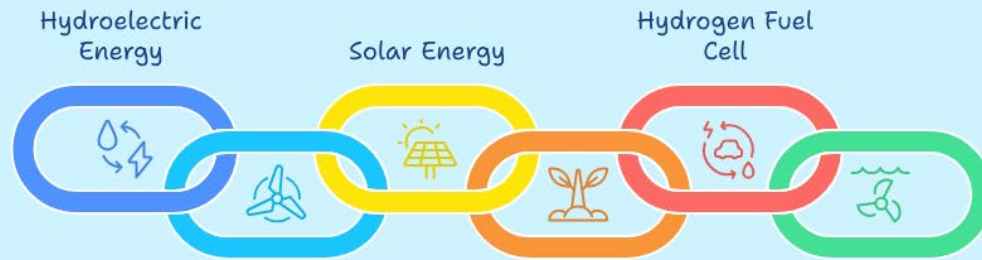


Credit Analysis

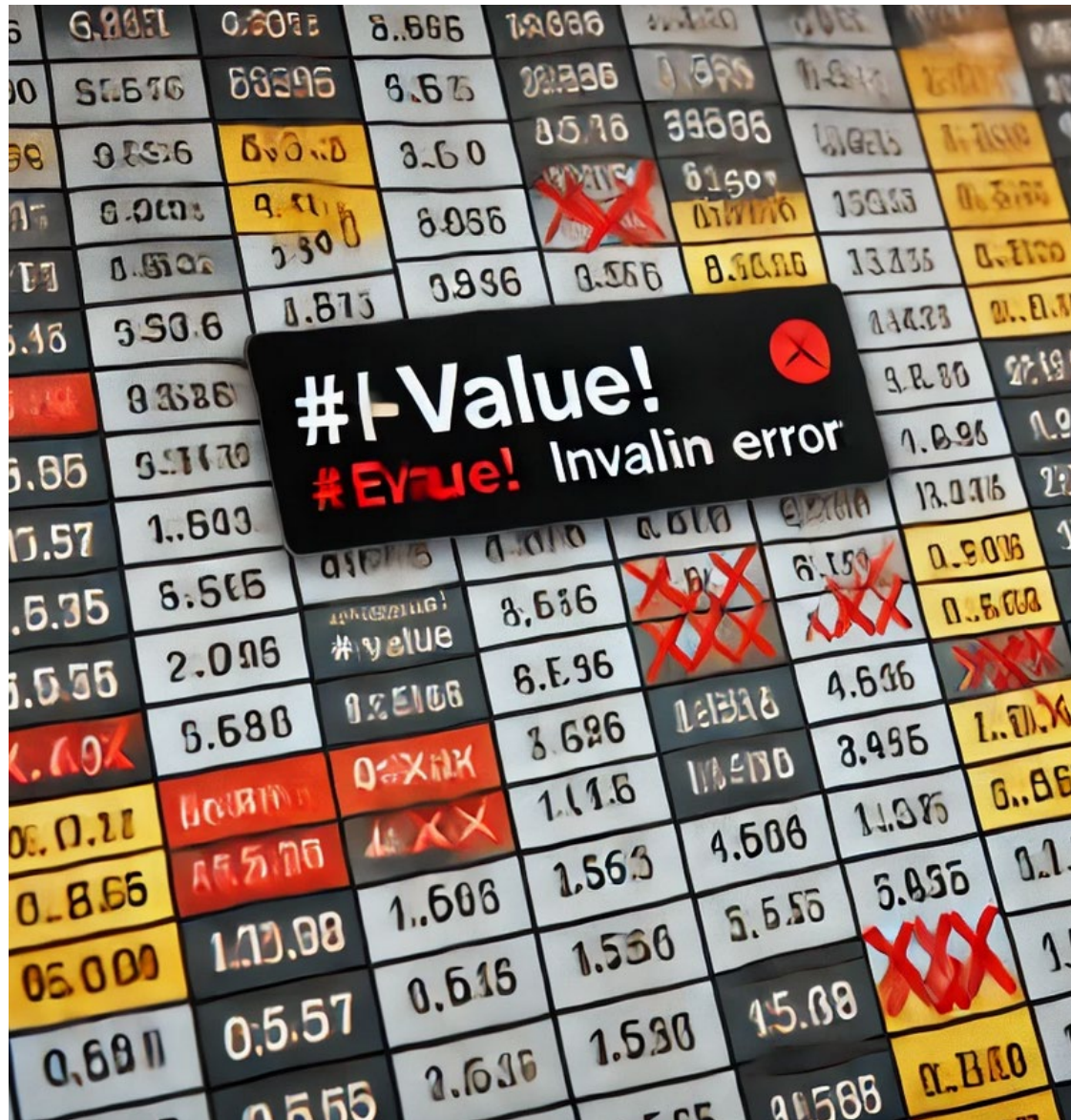
metaphors for an interview



Renewable Energy Sources



	A	B	C	D	F	H	I	J	K
1	Barcode	Lifecycle	Last Loan Date (calendar)	Receiving Date (Calendar)	Permanent Call Number	Location	Publication	Title	Subject
81798	30101023523370	Active		11/28/2018	Y 4.R 51/3:115-21	--Governm	2017.	Assessing C	Lyndor
81799	30101023523384	Active		11/28/2018	Y 4.AR 5/3:S.HRG.115-166	--Governm	2018.	Civilian co	Civil-m
81800	30101023523392	Active	11/28/2018	↔	11/28/2018	Y 1.1/8:H.Rpt.115-424	--Governm	[2017]	Senior Safe Fraud--
81801	30101023523400	Active	11/28/2018	↔	11/28/2018	Y 1.1/7:H.DOC.115-110	--Governm	2018.	Continuati Econor
81802	30101023523418	Active	11/27/2018		11/27/2018	Y 4.SCI 2:115-31	--Governm	2018.	NIST's phy Nation
81803	30101023523434	Active			11/28/2018	Y 4.F 76/1:115-75	--Governm	2017.	Russia : co Terrori
81804	30101023523442	Active			11/28/2018	Y 4.SM 1:115-047	--Governm	2018.	Hiring mor United
81805	30101023523459	Active	11/28/2018		11/28/2018	Y 1.1/5:S.Rpt.115-189	--Governm	2017.	Temporary United
81806	30101023523467	Active	11/28/2018	↔	11/28/2018	Y 1.1/5:S.Rpt.115-221	--Governm	2018.	A bill to re Water
81807	30101023523475	Active	11/27/2018	↔	11/27/2018	Y 4.F 76/2:S.HRG.114-705	--Governm	2018.	Review of United
81808	30101023523483	Active	11/27/2018		11/27/2018	D 214.14/5:3	--Governm	2018.	Reducing t United
81809	30101023523509	Active			11/28/2018	Y 4.SM 1:115-037	--Governm	2018.	Small busin United
81810	30101023523517	Active	11/28/2018		11/28/2018	Y 4.L 11/4:S.HRG.114-711	--Governm	2017.	Retiremen Small b
81811	30101023523525	Active	11/28/2018	↔	11/28/2018	Y 1.1/7:H.DOC.115-111	--Governm	2018.	Notificatic Tariff--
81812	30101023523533	Active	11/27/2018	↔	11/27/2018	Y 4.P 96/10:S.HRG.115-123	--Governm	2018.	Hearing or Allen, K
81813	30101023523541	Active	11/27/2018		11/27/2018	D 214.511/3:H 87	--Governm	2018.	Death in th United
81814	30101023523566	Active			11/28/2018	Y 4.H 75:115-34	--Governm	2018.	Public-priv Compu
81815	30101023523574	Active	11/28/2018		11/28/2018	Y 4.L 11/4:S.HRG.114-710	--Governm	2017.	Education: Dyslexi
81816	30101023523582	Active	11/28/2018	↔	11/28/2018	Y 1.1/8:H.Rpt.115-620	--Governm	[2018]	Transpare United
81817	30101023523590	Active	11/27/2018	↔	11/27/2018	Y 4.AP 6/2:S.HRG.114-696	--Governm	2017.	Agriculture United
81818	30101023523608	Active	11/27/2018		11/27/2018	Y 1.1/5:S.Rpt.115-231	--Governm	2018.	Constructi Constr
81819	30101023523624	Active			11/28/2018	Y 4.IN 2/11:S.HRG.115-180	--Governm	2018.	Safeguardi Indian
81820	30101023523632	Active	11/28/2018		11/28/2018	Y 4.J 89/1:115-18	--Governm	2017.	Oversight United
81821	30101023523640	Active	11/28/2018	↔	11/28/2018	Y 1.1/8:H.Rpt.115-621	--Governm	[2018]	Volcker Ru United
81822	30101023523657	Active	11/27/2018	↔	11/27/2018	Y 4.AP 6/2:S.HRG.113-877	--Governm	2017.	Agriculture United
81823	30101023523665	Active	11/27/2018		11/27/2018	Y 4.T 68/2:115-25	--Governm	2018.	Building a United
81824	30101023523681	Active			11/28/2018	Y 4.IN 2/11:S.HRG.115-179	--Governm	2018.	S. 664 and Hualap



create an image of a spreadsheet
with a data error

2. In Cell S2, enter the following formula to check if a barcode from the first sheet appears on the second sheet:

excel

 Copy code

```
=IF(ISNUMBER(MATCH(B2, Sheet2!A:A, 0)), "Y", "")
```

Here's what this formula does:

- `MATCH(B2, Sheet2!A:A, 0)` checks if the barcode in `B2` is in `Sheet2` (assuming your barcode column on the second sheet is column `A`). It returns a number if it finds a match, otherwise it returns an error.
- `ISNUMBER(...)` checks if the `MATCH` function found a number, meaning there was a match.
- `IF(...)` outputs "Y" if there's a match; otherwise, it leaves the cell blank.

3. In Cell T2, enter a similar formula to output "ER" in column T:

excel

 Copy code



To create an index where the largest number (24.1) is equal to 100 and all other numbers are scaled proportionally between 0 and 100, you can use the following formula for each number:

$$\text{Index Value} = \frac{\text{Number}}{\text{Max Number}} \times 100$$

In this case, since 24.1 is the maximum value, the formula becomes:

$$\text{Index Value} = \frac{\text{Number}}{24.1} \times 100$$

Steps:

1. Divide each number by 24.1.
2. Multiply the result by 100 to get the scaled value.

Example

Let's say your series is:

- $X = [5, 12, 18, 20, 22, 23.5, 24.1]$

Then, apply the formula to each number:

- For 5: $\frac{5}{24.1} \times 100 \approx 20.75$
- For 12: $\frac{12}{24.1} \times 100 \approx 49.79$
- For 18: $\frac{18}{24.1} \times 100 \approx 74.69$
- For 20: $\frac{20}{24.1} \times 100 \approx 82.99$
- For 22: $\frac{22}{24.1} \times 100 \approx 91.29$
- For 23.5: $\frac{23.5}{24.1} \times 100 \approx 97.51$
- For 24.1: $\frac{24.1}{24.1} \times 100 = 100$

This gives you an index where each value is between 0 and 100, proportionate to 24.1.

	Subjects	total_times_loaned	total_documents	average_loans_per_document
2	Fetal alcohol spectrum disorders.	58	1	58
3	Donation of organs, tissues, etc.--	49	1	49
4	Zoology--Research--United States	49	1	49
5	Mexique.; Mexico.; Mexiko.; ECON	44	1	44
6	Education--United States.; Educa	86	2	43
7	Drunk driving--United States.; Drin	42	1	42
8	Fetal alcohol spectrum disorders-	41	1	41
9	Abnormalities, Human.; Drinking o	40	1	40
0	Automobiles--United States--Seat	40	1	40
1	Arizona--Population--Statistics.; I	78	2	39
2	Child Abuse.; Incest.; Sex Offense	39	1	39
3	Vivisection--United States.; Anima	38	1	38
4	Alcoholism--Research--United St	37	1	37
5	POLITICAL CONDITIONS.; ECONC	37	1	37
6	Abused children--Services for--Ur	36	1	36
7	Police--Job stress--United States.	36	1	36
8	Sexually abused children--Service	36	1	36
9	Abused children--Services for--Ur	35	1	35
0	Carcinoma, Basal Cell.; Carcinom	35	1	35
1	Gun control--United States.; Arme	35	1	35
2	Youth--Alcohol use--United States	69	2	34.5
3	Automobiles--Safety appliances.;	34	1	34
4	Child abuse--United States--Statis	34	1	34

Can you provide an analysis of times loaned per "Group 1" term, divided by total number of items with that "group 1" term?




	Group 1	total_times_loaned	total_items	average_time
1	Academies and learned societies	8	125	0.064
2	Agriculture (General)	675	695	0.9712230238
3	Air forces. Air warfare	127	211	0.6018957364
4	America	578	444	1.3018018018
	America. North			1.69230769

I've provided the analysis of "Times Loaned" per item for each "Group 1" term in the dataset. Let me know if you'd like further insights or specific breakdowns. [;-]



Based on these columns, we can use criteria such as publication date, times loaned, and location to assess which books might be kept or withdrawn. Let me know your specific criteria, or I can suggest some for you. [>-]

Times Loaned is the most important criteria for keeping a title. If there are topical trends in those titles loaned more frequently, I would like you to recommend titles on a similar topic. Also keep any title related to Minnesota or the upper Midwest.



1. **"Introduction to Quantum Mechanics with Applications to Chemistry"** by Linus Pauling and E. Bright Wilson (1945)

- While published just at the end of WWII, this book became essential for understanding the application of quantum mechanics in chemistry, especially chemical bonding.

2. **"The Nature of the Chemical Bond"** (3rd Edition) by Linus Pauling (1960)

- This later edition of Pauling's classic work further established the quantum mechanical understanding of bonding and molecular structure.

3. **"Biochemistry"** by Lubert Stryer (1st Edition, 1975)

- Stryer's text revolutionized the teaching of biochemistry, emphasizing the molecular basis of biological processes, and is still highly regarded for its clear, visual approach.

4. **"Principles of Biochemistry"** by Albert Lehninger (1970)

- This foundational text is known for connecting chemical principles to biological processes, shaping modern biochemistry education.

5. **"Physical Chemistry"** by Peter Atkins and Julio de Paula (1st Edition, 1978)

- A rigorous and widely used physical chemistry textbook, this work covers essential topics like thermodynamics, kinetics, and quantum mechanics for advanced students.


6. **"Mechanisms and Theory in Organic Chemistry"** by Thomas H. Lowry and Kathleen Schueller Richardson (1st Edition, 1961)

- This book introduced organic chemists to the underlying mechanisms of organic reactions and theoretical approaches that continue to be essential for advanced study.

7. **"Advanced Organic Chemistry"** by Jerry March (1st Edition, 1968)

- Known for its comprehensive approach to organic reactions and mechanisms, March's text remains a go-to reference for organic chemists.

8. **"Symmetry and Spectroscopy: An Introduction to Vibrational and Electronic Spectroscopy"** by Daniel C. Harris and Michael D. Bertolucci (1978)



Here are some potential research topics for a paper in a class on criminal justice ethics and leadership, spanning key ethical dilemmas, leadership challenges, and current trends.

1. The Ethical Challenges of Police Discretion

- Examining how police officers make discretionary decisions, the factors influencing their choices, and how leadership within police departments can shape ethical outcomes.

2. Ethics in the Use of Force: Leadership Accountability

- Analyzing cases of excessive use of force and how leadership accountability, or lack thereof, plays a role in preventing or escalating such incidents.

3. Ethical Implications of Racial Profiling in Law Enforcement

- Investigating the ethical issues surrounding racial profiling, its impact on communities, and how leaders can create more inclusive and fair policing practices.

4. Leadership and Ethics in Correctional Facilities

- Exploring how ethical leadership influences the culture within correctional institutions, including staff behavior, inmate treatment, and rehabilitation programs.

5. Whistleblowing in Criminal Justice Agencies: Ethical Dilemmas and Leadership





To find **data on the most followed athletes** on TikTok or Instagram, you can explore the following sources:

1. **Social Media Analytics Platforms:**

- **HypeAuditor:** Offers detailed reports and rankings on social media influencers, including athletes, with follower counts and engagement rates.
- **Social Blade:** Tracks follower counts and provides analytics for social media profiles across platforms, including Instagram and TikTok.
- **Klear:** Another platform that provides detailed analytics on social media profiles, including athletes.

2. **Sports and Marketing Websites:**

- **Forbes:** Regularly publishes articles on the most influential athletes, often including their social media followings.
- **ESPN:** Occasionally features lists of top athletes by social media followers, especially during major sports events.
- **Sportico:** Focuses on sports business news and might have relevant data on athlete social media rankings.

3. **Social Media Direct:**

- Check Instagram's and TikTok's trending sections or explore hashtags related to sports to identify top-followed athletes.
- Use the platforms' search features to find and compare follower counts directly.

4. **Articles and Reports:**

- Search for recent articles or reports on sports and social media influence, as many media outlets track and report on these metrics.

If you're looking for comprehensive or up-to-date data, analytics platforms or sports-focused media outlets are the most reliable sources.



Conclusion

- Thank you so much for having us!
- Any questions or thoughts?
- Let's continue the conversation!

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