# alphaXiv

"Comments on arXiv"

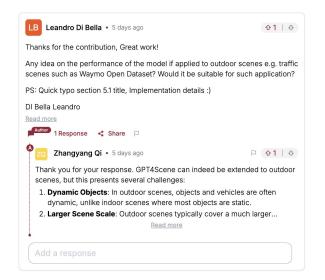
## What is alphaXiv?

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00	eta			□     Bookmark        ⊕ PDF)         Claim Authors: 00       Laurens van der Maaten         Published: 15 Aug 2024   3 versions ~   ⊕ 8,235 views         transformers       multi-modal-kanning         wilti-modal-kanning       wilti-modal-kanning	anguage-models		
ть	e Llama 3 Herd of Models				∆ †≞		
Llam <sup>3</sup> A d Mode new ; mult	Tham, AI (A) Meta <sup>1</sup> tailed contributor list can be found in the appendix of this paper. rn artificial intelligence (AI) systems are powered by foundation model et of foundation models, called Liama 3. It is a herd of language mo linguality, coding, reasoning, and tool usage. Our largest model is i parameters and a context window of up to 128K tokens. This pap cale evaluation of Liama 3. We find that Liama 3 delivers comparable (	dels that natively support a dense Transformer with per presents an extensive		CC Cristian Gutiérrez Cómez • 5 months ago About 'distillation' The report references distillation as a method used in smaller m pproach. However, reviewing the Phi papers (Textbooks are all of radional involved gi distillation. Childhen logit-level, Loten-1 from what I've seen, the Phi approach involved using GPT-3.5 a synth data	you need) there is not any mention avel, or sequence-level).		
mode video post- troop to post- to posto post- to to post to to to to to to to to to to to to to	Is such as GPT-4 on a plethora of tasks. We publicly release Lanna 3, trained versions of the 405B parameter language model and our Llann utput safety. The paper also presents the results of experiments in and speech capabilities into Llanna 3 via a compositional approach. rms competitively with the state-of-the-art on image, video, and spee	including pre-trained and a Guard 3 model for input which we integrate image, We observe this approach ch recognition tasks. The		Read more		Global ~	Papers □ Comments   옷 People
TY Date:	ing models are not yet being broadly released as they are still under July 23, 2024 https://llama.meta.com/	development.		Thinking the basing and polarisin the mere set of a for or control phrasing in the paper must somehow be confluence. The 8B and 70B models are not distilled from the 405B model data created using the 405B model in the post-training of the 405B models. The biog post states that the community can use the 405B models.	. However, we do use post-training 8B and 70B models. So we did use	In 3,643 ->* Image Langer Math	25 Jan 2023 mediumen representation-kuming toot-generation. Foundations of Large Language Models This comprehensive book from researchers at Northeastern University's N.P. Lab and NuTrans Research provides a foundational vertice of Large Language Models (LMMa), focusing on core concepts and technical approxides attribut not cuttin-degine refords.
(or arXiv:2501.12942v1 [cs.Al] for thi https://doi.org/10.48550/arXiv.2501		r modalities that are designed		Ine plog post states that the community can use the 4005 m distillation experiments. This is enabled by a change in the lic now allows developers to use outputs of Llama models to trai Read less	ense of the Llama 3.1 models, which	and a set	(Bookmark []) (Like 🖞 157)
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Bibliographic Tools Code, Data, Me Code, Data and Media Associa					Blog	A 214 AS	21.jun 2023     sequence-modeling     attention-mechanisms     representation-hamming       Test-time regression: a unifying framework for designing sequence models with associative memory.     This paper explains how sequence models with associative memory can be understood as performing     Image: Comparison of the second secon
CatalyzeX Code Finder for Papers ( DagsHub (What is DagsHub?)	What is CatalyzeX7)				Research Site New Comment Guidelines About Us	102 - Al July and State of Sta	(Bookmark [])         (Like (13)           223 Jan 2023         deep-werkersamet-kunning         model-wergerstatus         model-wergerstatus           DeepSeeb-R1: Incentivizing Reasoning Canability in LLMs via Reinforcement Learning         model-wergerstatus         model-wergerstatus

### Inception

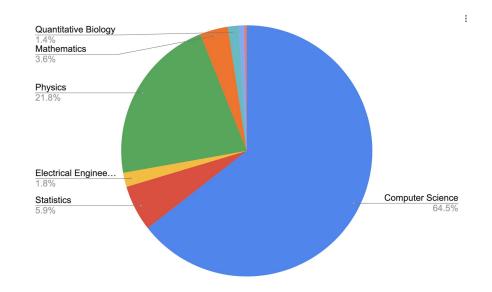
Undergraduates in research labs

- No idea what was going on in research papers
- pre-GPT
- "Stackoverflow for arXiv"



# Inception

- Initially used as private discussion layer used at a couple classes and labs
- Around a year ago decided to open it up publicly
  - Since then ~5,000 comments 12,000 accounts
  - Interest across CS and Physics

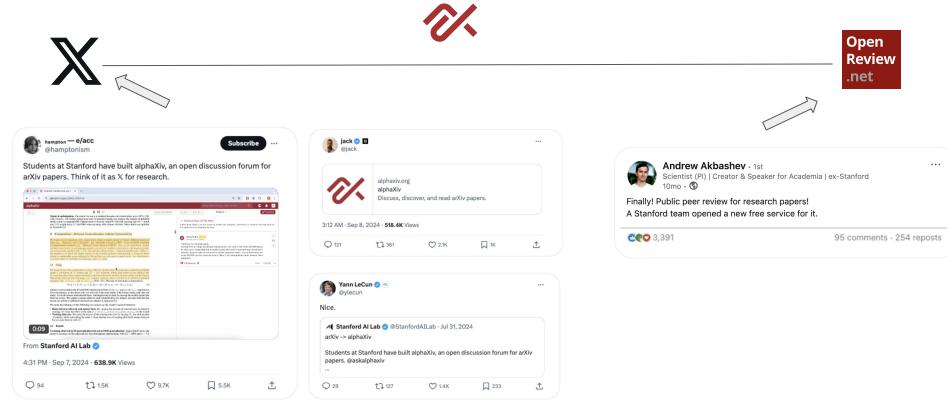


### Other arXiv Interfaces

#### Within CS...



Open Review .net

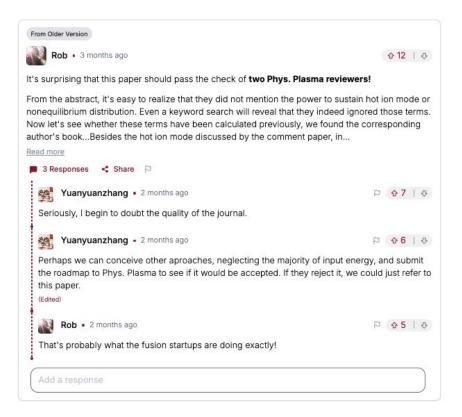


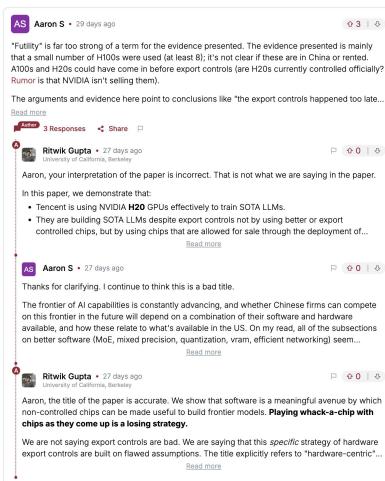
	RG Raymond Gasper • 9 months ago So I like this as a benchmark of the general utility of using large sets of descriptors as input for statistical models, tho Pat's concerns about the quality of datasets and statistical rigor I think are super relevant here. In particular, random splitting of molecular datasets can often lead to an effective leakage where data points in the training and test set are extremely similar, resulting in misleading test set performance. I've highlighted that paragraph for this comment, but the rest Read more	
Jackson Burns - 1st DC CSGF Fellow in Chemical Engineering and Computation PhD at MIT Smo. O         Watest work in molecular property prediction achieves state-of-the-art results by taking a modern approach to an old process - so I am doing the same with publishing it!         Technological advances make the closed-door, journal-centered peer review approach nearly obsolete - its high-profile failures have also fueled skepticism among researchers and the public. For that reason my latest work is freely available online and I invite all readers to leave their review comments on alphaXiv, the new open-source peer review platform: https://Inkd.in/gfGYGUHp	<ul> <li>A Responses &lt; Share </li> <li>A Responses &lt; Share </li> <li>A Responses &lt; Share </li> <li>A S</li></ul>	

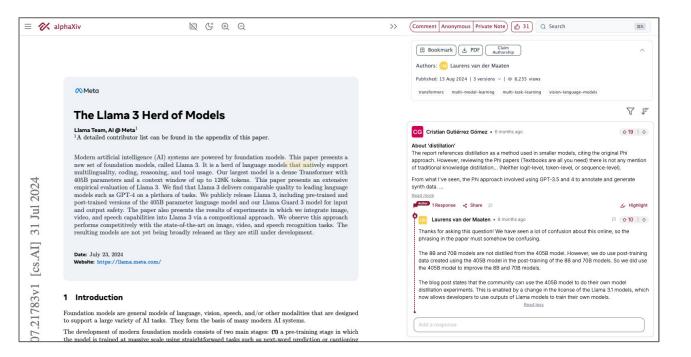
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The unbearable slowness of being: Why do we live at 10	The Unber	arable Slowness of Being: Why do we live at 10 bits/s?	4-46ANC
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Human Thought Is Far Slower Than Your Internet Connection	Z our overall informa function.	tion throughput is only 10 bits/s. This stark contrast touches on many fundamental aspects of brain	To put it differently, it may be converient for analysis to regard small, apparently random
Dec 28, 2024 – They titled their study, published this month in the journal Neuron, "The unbearable slowness of being." "It's a bit of a counterweight to Cell Press https://www.cell.compneuronphultext : The unbearable slowness of being: Why do we live at 10 by J Zheng · Cited by 4 – The unbearable slowness of being: Why do we live at 10 bits/s? Jieyu Zheng.	1 Abstract     1	the transmit remainstrate behind the denomina of them behavior. The information broughout of the other weight and them is the other weight and the other weight and them is the other weight and the other weight and them is the other weight and the other weigh	Bender in a market proceed market be takes at frameling, as known, ar winning a notes that for a stranget be notes that a stranget on a market be noted with a stranget on market
Jieyu Zheng. Correspondence. Corresponding author. jzzheng@caltech.edu. Affiliations.	time. Along the w of signal and noise (see Box). This information-d processes, between	si, one needs a clear criterion to distinguish the action from its neisy vanishes. This distinction is quantified by Shannos's entropy and ultimately leads to an information rate, expressed in biols- theoremic approach allows us to compare the speed of processing across different mentil tasks and different neural structures in the same brain, across different species, and between brains and dy, this is just one franzework by which to characterize branne experiment, built offers valuable	and a constraint of the degrees, and the information only <2 bits. Thanks to 22 saping Life pairing The dual to be bid degrees. At these P

#### Acknowledgments

For discussions and comments on the early stage of the manuscript, we thank Frederick Eberhardt, Michelle Effros, Florian Engert, Mehrdad Jazayeri, Christof Koch, Ueli Rutishauser, and Anthony Zador. We also thank alphaXiv for providing a platform for open discussions on our preprint, where the comments received were intriguing and helpful for the revision. M.M. was supported by grants from the Simons Collaboration on the Global Brain (543015) and NIH (R01 NS111477).







## Road to Best Discussions

#### Visibility and author presence

- Authors share the link to their paper on alphaXiv
- A reader shares their comments on other platforms
- The paper is claimed on alphaXiv when a new reader visits



Hey all, I'll be answering questions about our "Motion Prompting" paper on alphaXiv (@askalphaxiv) (it's like arXiv, but adds a discussion section, and I think is quite well built!):

alphaxiv.org/abs/2412.02700	(Monczer @KonczerJ	
9:37 AM · Jan 10, 2025 · <b>4,955</b> Views	I read Model Swarms by authors : commented on @askalphaxiv: alphaxiv.org/abs/2410.11163	from @GoogleDeepMind & @UW and
Q 1 t 8 ♥ 49		netic algorithms is a promising direction, tation. I am curious what future work will
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Authors: Shangbin Feng S Yike Wang Zifeng War Published: 14 Oct 2024   1 version ~   © 5,341 views	ng	Weight Update
This paper introduces a collaborative search algorithm call MODELSWARMS that adapts Language Learning Models (LL swarm intelligence principles		vs ♥ 205 関 158 🗘
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## **Categorizing Comments**

- *technical-clarification* Questions seeking to understand specific technical details or procedures in the paper.
- *conceptual-discussion* Exploration of theoretical ideas, implications, or abstract concepts from the paper.
- *error-report* Pointing out specific mistakes, typos, or inconsistencies in the paper.
- research-extension Suggestions or questions about potential future directions or expansions of the work.
- *methodology-question* Questions about why certain research design choices were made.
- *literature-connection* Comments relating the work to existing research or pointing out relevant papers.
- praise comments highlighting specific strengths or contributions of the paper.
- *substantive-critique* Detailed, evidence-based challenges to the paper's methods, results, or conclusions.
- *academic-dispute* Contentious disagreements about attribution, priority, or academic integrity.

#### H Helen • 19 days ago

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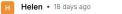
When you use holographic principle on CFT2, does it naturally lead to AdS/CFT correspondence? Or instead this method apply to CFT2 states that have no corresponding AdS states?



AdS/CFT correspondence is a realization/example of holographic principle, but not completely covers holographic principle in our current understanding.

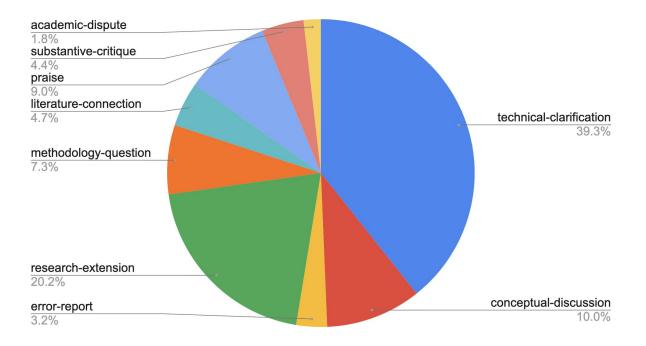
This paper was finished over 6 years ago. Though the approach is correct, we were discouraged by the referee reports to have it published. We publish it now becasue our recent papers solved the problem in a complete and ne...

Read more



₽ 61 | ₽

Thanks! Will have a closer look.



#### Moderation

#### na\_cohomologist • 4mo ago

How are they going to moderate comments to filter out inappropriate things? I don't mean obviously inappropriate to random person on the street, but professionally inappropriate stuff that difficult to explicitly delineate, but stemming from bias, unconscious and otherwise?

+ 8 more replies

#### z jieyou zhao • 3 months ago

Edit Delete 쇼 0 | 🕹

I honestly hope you could read the paper carefully and check the result on leaderborad.

Even a pupil could figure out the difference between L1 and L2 but you can't, which means our result is basiclly the same

Jz jieyou zhao • 3 months ago

A

Edit Delete 🗘 5 | 🕀

Besides, about you are saying that we do not show your result just because your result is better than us.

I am happy to say that you could check LEGO(which is also an online method)'s result, It could achieve 80.75 by only using CasA detector. (We labeled it as Virconv incorrectly but it will be fix soon)

We DO NOT use your result is because your improvement on KITTI is really huge but you didn't show the same improvement on Waymo.

And considered you could not identify if CasTrack and VirconvTrack is online or offline (showed in your email), I highly suspect if your code is truly online.

As I said, show me the code, talk is cheap.

Read less

Mohamed Nagy Mostafa • 3 months ago

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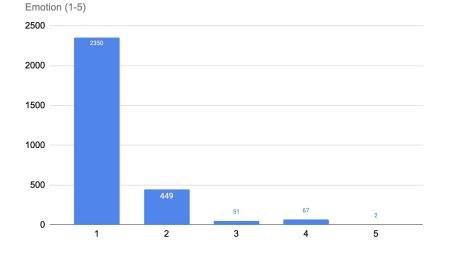
#### "You won't get away with this"

They didn't answer anything what I mentioned; instead, trying to change the topic as expected. I can answer you, but I know the purpose of your questions is to simply hide what I mentioned. So, let me copy/paste my comment above so everyone can see it. In summary, the authors manipulate the results of existing work and remove methods that outperform their work. **I will keep copying/pasting it as long as no response**.

"(First bullet point by @XiyangWang): After acceptance, the code of our method will be available on GitHub, regardless of the situation of this paper, <u>as per our input</u> to the journal we sent our work. However, let me response properly to this point:

I quote you: "The claimed online performance of non-open-source methods stems"; so you are saying your paper only considers open-source methods, and "somehow" you added it in V1 and removed in V2 because it is not open source! Good. Let me list for you all the "non-open source" work you have in V1 in Table 1 and still there in V2.

## Anonymity



User A5F	٠	1	hour	ago
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#### ☆0 | む

#### Question on contemporary application

Can SIMS be directly bolt on to Stable Diffusion fine-tuned models (or Flux and other open weight models)? What would be the expected challenges of adding a score function to a diverse set of models with slight differences in architecture?

🖻 Add a response i Share 🏳

## Difficulty of browsing on arXiv

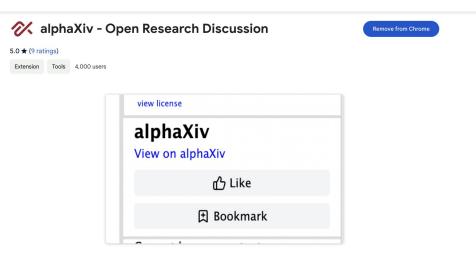
#### **Computer Science**

• Computing Research Repository (CoRR new, recent, search)

includes: (see detailed description): Artificial Intelligence; Computation and Language; Computational Complexity; Computational Engineering, Finance, and Science; Computational Geometry; Computer Science and Game Theory; Computer Vision and Pattern Recognition; Computers and Society; Cryptography and Security; Data Structures and Algorithms; Databases; Digital Libraries; Discrete Mathematics; Distributed, Parallel, and Cluster Computing; Emerging Technologies; Formal Languages and Automata Theory; General Literature; Graphics; Hardware Architecture; Human-Computer Interaction; Information Retrieval; Information Theory; Logic in Computer Science; Machine Learning; Mathematical Software; Multiagent Systems; Multimedia; Networking and Internet Architecture; Neural and Evolutionary Computing; Numerical Analysis; Operating Systems; Other Computer Science; Performance; Programming Languages; Robotics; Social and Information Networks; Software Engineering; Sound; Symbolic Computation; Systems and Control

### alphaXiv Browser Extension

- Offers a great sample of papers people are reading.
- Many people seem to want to know what papers their peers are reading or discussing.
- This data could be helpful!



#### Overview

The official Chrome Extension for alphaXiv, the site for open research discussion directly on top of arXiv.

With this extension, you'll never miss out on any alphaXiv discussion! We'll gently let you know whenever an arXiv paper you're currently reading has comments on alphaXiv.

Join the (research) discussion!

## **Custom Topical Search**

Cornell University Library	We grateholy acknowledge support from the Simons Foundation and member institutions
arXiv.org	Losi Search of Anton-ad Otsis I Advanced Search All pagers v Gol
Open access to 951.910 e-prints in Physics. Mathematics. Computer Science, Quantitative Biology, Quantitative Finance and Statistics	
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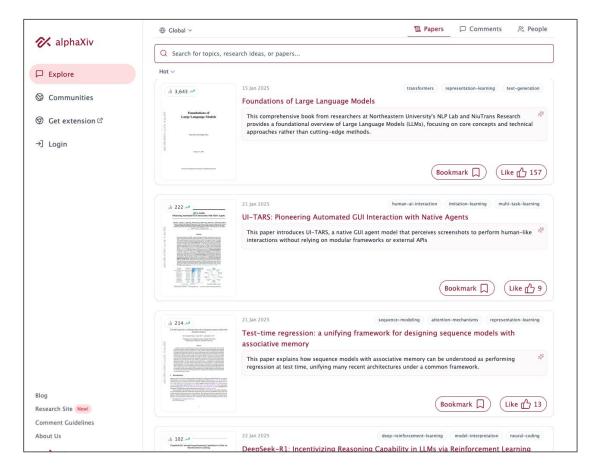


human-ai-interaction

multi-modal-learning

deep-reinforcement-learning

### arXiv Sanity Reimagined



## ResearchGate: An attempt at social media for research?

- Is alphaXiv social media?
  - No. not quite
    - Platform is built around papers, not people
- There are other examples of academic social networks
  - I.e. ResearchGate
  - For CS researchers it's just Twitter

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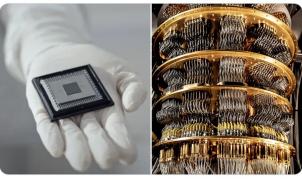
Kevin Joey Chen 🤡 @kevxalchemy · Dec 10, 2024 While everyone watches AI, Google broke time itself.

Their quantum chip just solved a problem that would outlast the universe — in 5 minutes.

×1 ····

And this is just the start...

What you need to know about **Willow** — and how it'll transform humanity in 2030+:

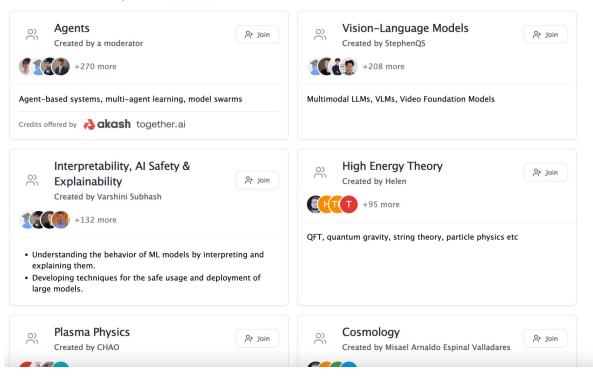


#### **Future Directions**

### Communities

#### **Explore Communities**

Discover new communities in your field - how it works



### Communities

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# To AI or not AI?

ılı 3,643 🔊	15 Jan 2025 transformers representation-learning text-generation
	Foundations of Large Language Models
Foundations of Large Language Models	This comprehensive book from researchers at Northeastern University's NLP Lab and NiuTrans Research provides a foundational overview of Large Language Models (LLMs), focusing on core concepts and technical approaches rather than cutting-edge methods.
lanary 17, 3025	
342 (ab. Nordenian Verseni) d Nel'son Romani	Bookmark [] Like (157)
uli 222 🔊	21 Jan 2025 human-ai-interaction imitation-learning multi-task-learning
XUI-TARS: Pioneering Automated GUI Interaction with Native Agents	UI-TARS: Pioneering Automated GUI Interaction with Native Agents
And a simple and the state of the true of the work is characterised by the observation of the state of	This paper introduces UI-TARS, a native GUI agent model that perceives screenshots to perform human-like interactions without relying on modular frameworks or external APIs

#### To AI or not AI?

📃 🔣 alphaXiv

#### $G \oplus Q$

#### SFT Memorizes, RL Generalizes: A Comparative Study of Foundation Model Post-training

#### Tianzhe Chu<sup>++</sup> Yuexiang Zhai<sup>++</sup> Jihan Yang<sup>+</sup> Shengbang Tong<sup>+</sup> Saining Xie<sup>++</sup> Dale Schuurmans<sup>+</sup> Quoc V. Le<sup>+</sup> Sergey Levine<sup>+</sup> Yi Ma<sup>++</sup>

#### Abstract

Supervised fine-tuning (SFT) and reinforcement learning (RL) are widely used post-training techniques for foundation models. However, their respective role in enhancing model generalization remains unclear. This paper studies the comparative effect of SFT and RL on generalization and memorization, focusing on text-based and visual environments. We introduce GeneralPoints. an arithmetic reasoning card game, and also consider V-IRL, a real-world navigation environment, to assess how models trained with SFT and RL generalize to unseen variants in both textual and visual domains. We show that RL, especially when trained with an outcome-based reward, generalizes in both the rule-based textual and visual environments. SFT, in contrast, tends to memorize the training data and struggles to generalize out-of-distribution in either scenario. Further analysis reveals that RL improves the model's underlying visual recognition capabilities, contributing to its enhanced generalization in visual domains. Despite RL's superior generalization, we show that SFT is still helpful for effective RL training: SFT stabilizes the model's output format, enabling subsequent

generalization (Bousquet & Elisseeff, 2000; Zhang et al., 2021) remain unclear, which makes it challenging to build reliable and robust AI systems. A key challenge in analyzing the generalization ability of foundation models (Bommasani et al., 2021; Brown et al., 2020) is separating data memorization<sup>1</sup> from the acquisition of transferable principles. We therefore investigate the key question of whether SFT or RL primarily memorize the training data (Allen-Zhu & Li, 2023a; Ye et al., 2024; Kang et al., 2024), or whether they learn generalizable principles that can adapt to novel task variants.

To address this question, we focus on two aspects of generalization: textual rule-based generalization and visual generalization. For textual rules, we study a model's ability to apply learned rules (given text instructions) to variants of those rules (Zhu et al., 2023; Yao et al., 2024; Ye et al., 2024). For vision-language models (VLMs), visual generalization measures performance consistency to variations in visual input, such as color and spatial layout, within a given task. For studying text-based and visual generalization, we investigate two different tasks that embody rule-based and visual variants. Our first task is GeneralPoints, an original card game task that is similar to the Points24 task from RL4VLM (Zhai et al., 2024a), which is designed to evaluate a model's *arithmetic reasoning capabilities*. In GeneralPoints, the model receives four cards (pre(Comment Anonymous Private Note) 🖒 215

>>

Switch Chat

₩K

Do these results align with @[2501.12948] DeepSeek-R1: Incentivizing Reasoning Capability in ... 's findings comparing their r1 and r1-zero experiments?

Yes, they do. The paper shows that while the pure RL approach (DeepSeek-R1-Zero) already achieves significant improvements over the base model, its performance is noticeably enhanced once additional high-quality (cold-start) data and further supervised fine-tuning steps are incorporated—this is what they refer to as DeepSeek-R1. For example, across several benchmarks (such as AIME 2024, MATH-500, and others), DeepSeek-R1 and its distilled versions clearly outperform the R1–Zero variant. This comparison supports their overall conclusion that although incentivizing reasoning via pure reinforcement learning is promising, the extra refinements (cold start data, multi-stage RL, and subsequent distillation) lead to substantially better reasoning performance and more user-friendly outputs.

#### R

I am confused about what the GlobalPoints environment in this paper is

Q Search

The GeneralPoints environment is a custom-designed evaluation setting meant to test a model's arithmetic reasoning and its ability to generalize. In this environment, a model is given four cards (which can be provided as text or as an image) and must generate a valid arithmetic expression that uses each card's numerical value exactly once to reach a predetermined target (usually 24). Several aspects make GeneralPoints interesting for research



:2501.17161v1 [cs.AI] 28 Jan 202

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## Call to Action

We encourage you all to claim your papers and share the alphaXiv discussion links for your research. We're also happy to help promote your work :)

Feel free to use the Explore page/Communities to discover new and relevant papers. We'd love to hear your thoughts!

### Questions

What are your biggest challenges in research today?

How do you discover relevant papers?

What can we add that would be useful?