

AI-Enhanced storytelling for fostering a sustainable community and culture

Dr Tatia Codreanu, Institute of Extended Learning/ Continuing professional development

26/03/2025

Humans, storytelling, evolutionary dynamics

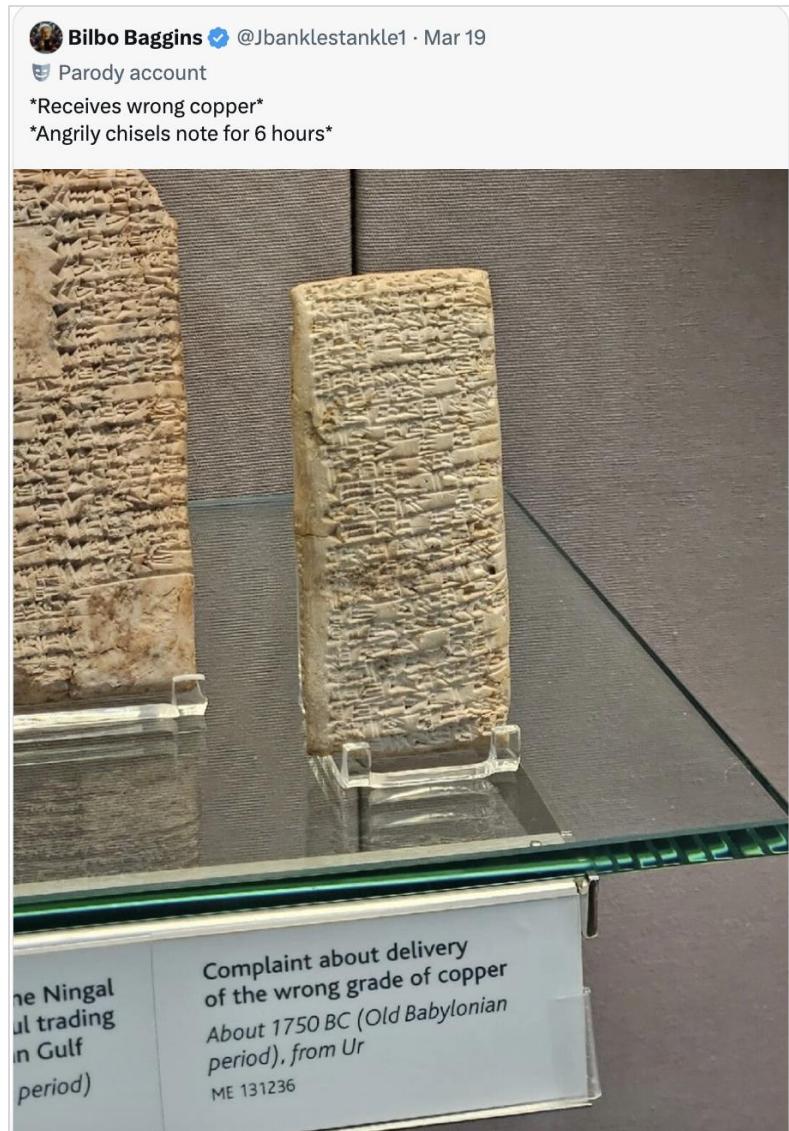


Glenn Matlin
@GlennMatlin

I love the Complaint Tablets. One of the earliest examples of language, stories, and finance all coming together. Even after thousands of years, some aspects of humanity are entirely universal.

en.m.wikipedia.org/wiki/Complaint...

2

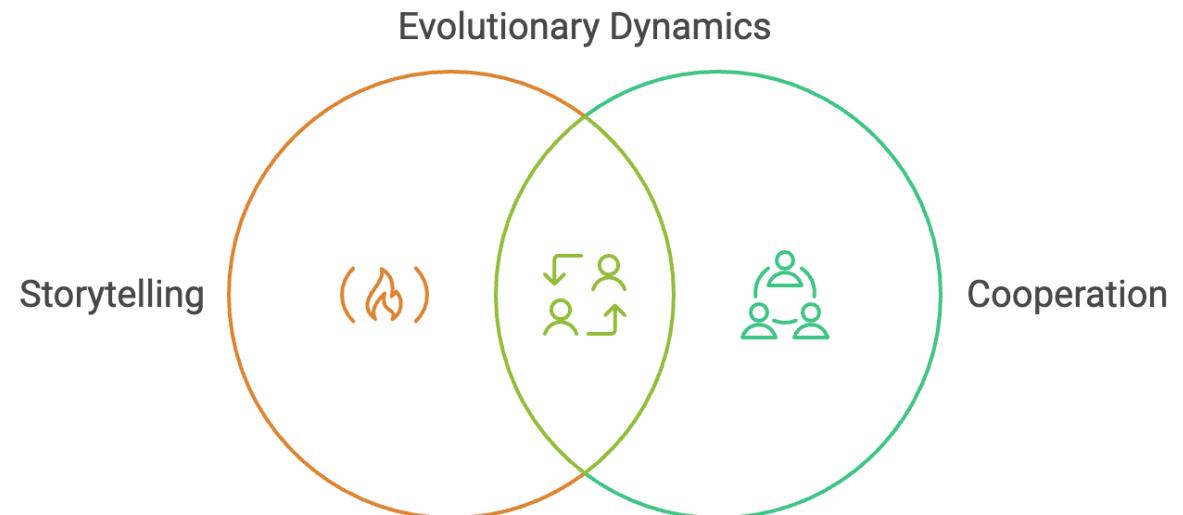


Humans, storytelling, evolutionary dynamics

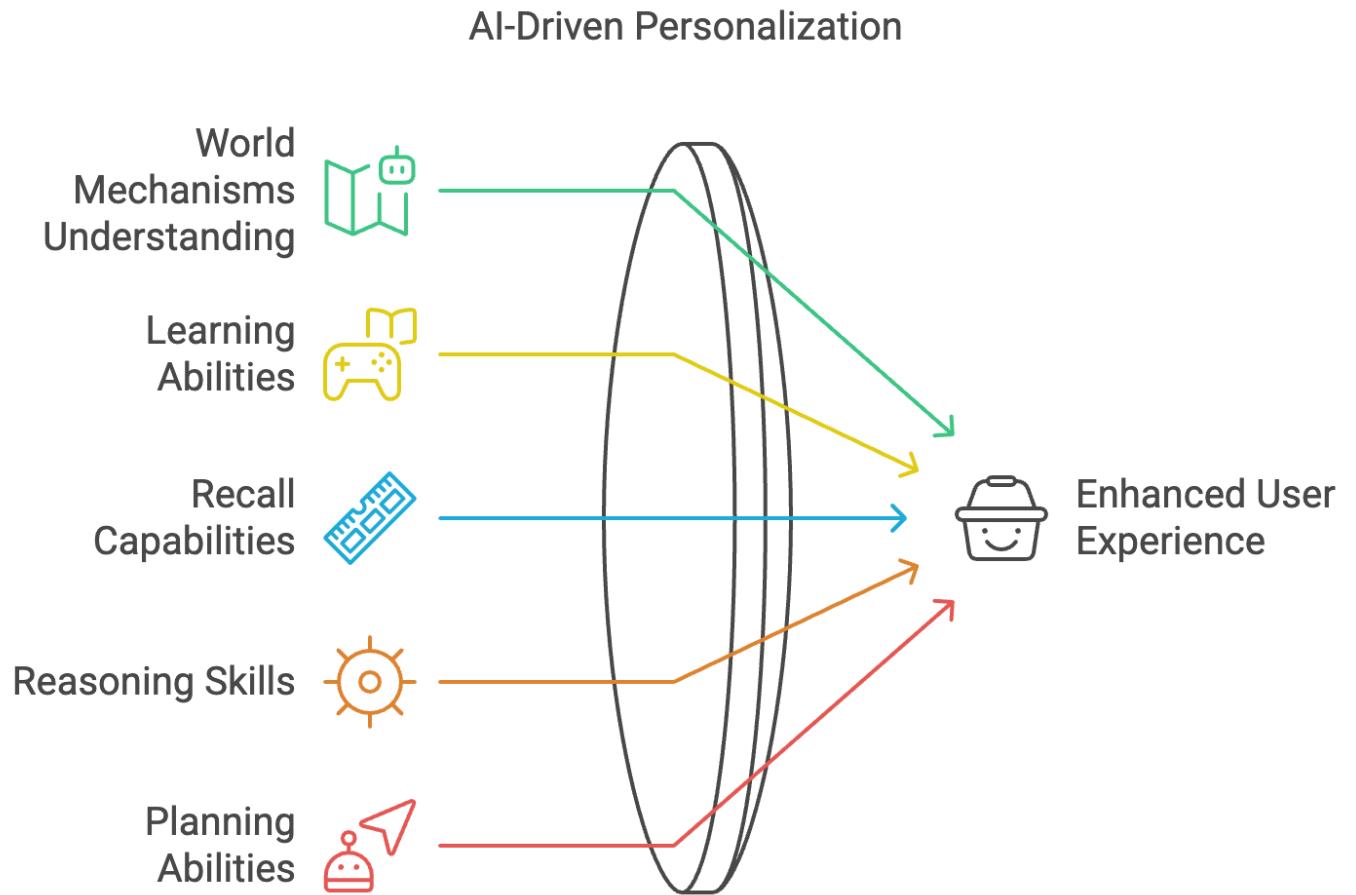
Good storytellers

- Convey messages that help coordinate behaviour (like cooperation and equality).
- Make people work better together.
- Skilled storytellers are popular.
- Storytelling might have evolved to help organize cooperation among hunter-gatherers.
- Smith and al. (2017). Cooperation and the Evolution of Hunter-Gatherer Storytelling.

The Evolutionary Role of Storytelling in Cooperation

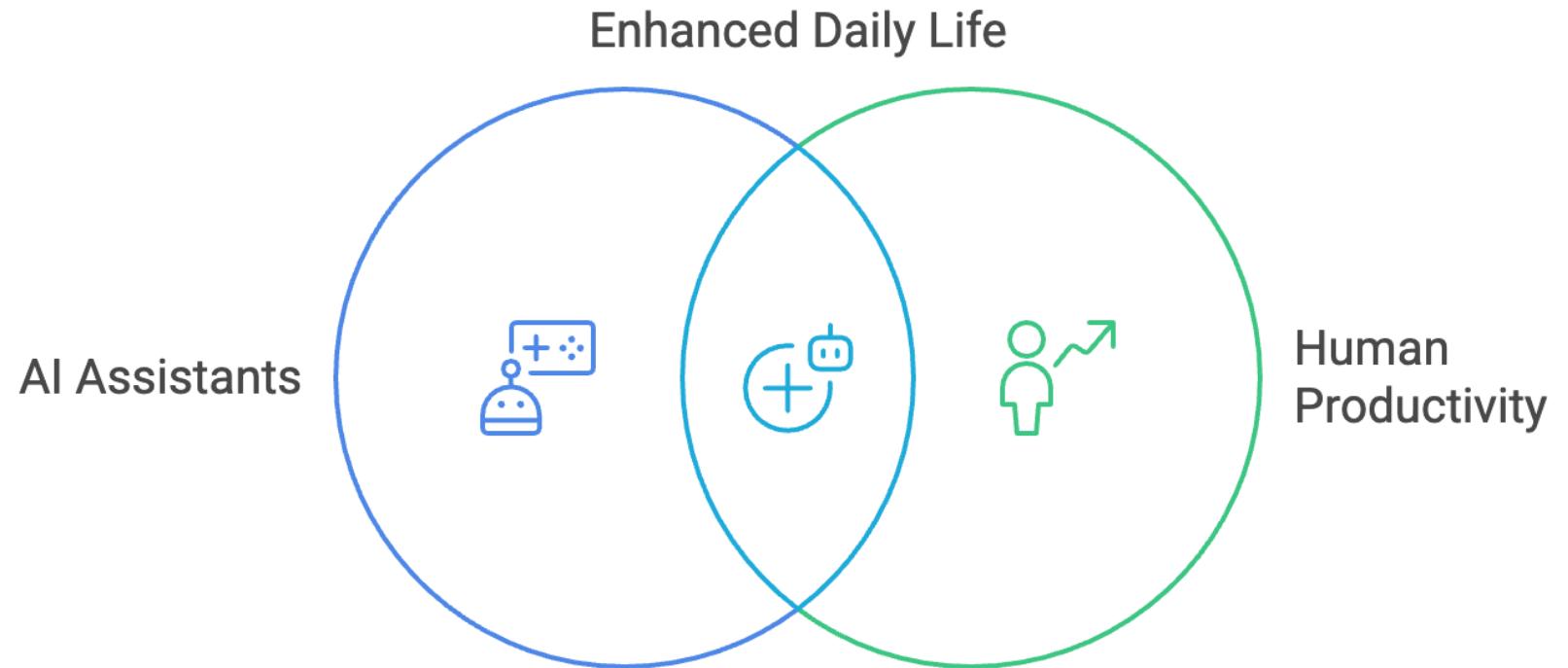


The Future of AI-mediated digital interactions



The Future of AI-mediated digital interactions

The Role of AI Assistants in Daily Life

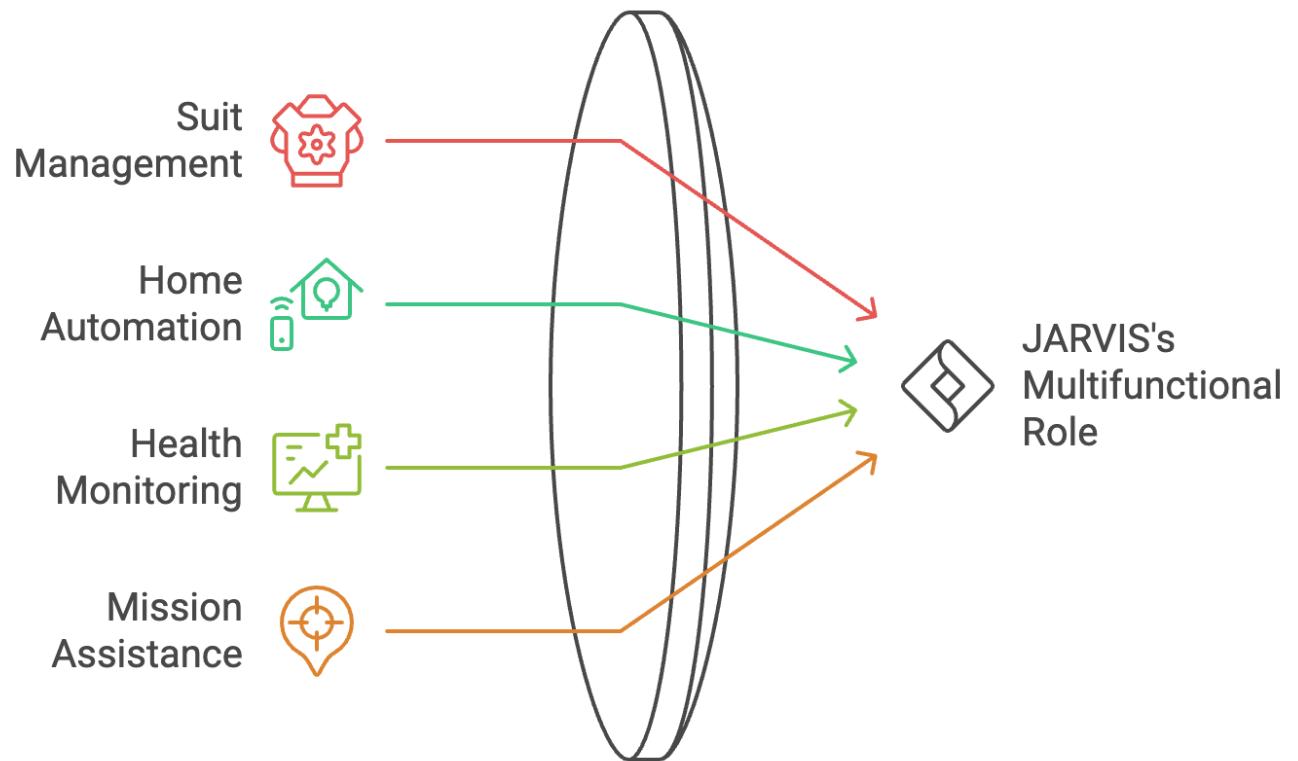


The Future of AI-mediated digital interactions

Iron Man's JARVIS

- JARVIS (Just A Rather Very Intelligent System) is Tony Stark's AI assistant in the Marvel universe.
- Originally inspired by Edwin Jarvis, the Stark family butler, JARVIS evolved into a sophisticated AI.
- JARVIS manages Tony's suits, homes, health, and even assists during Avengers missions.

JARVIS's Integrated Intelligence



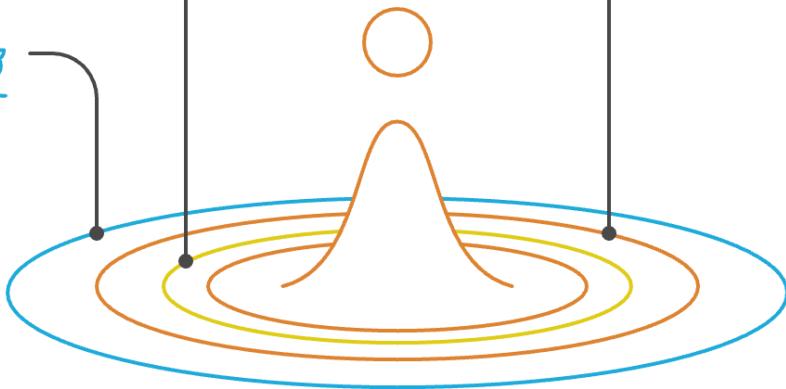
Bridging the gap

AI and Animal-Level Intelligence

Sensory Perception  Understanding how AI can mimic animal senses.

Intuitive Understanding  AI's challenge in grasping environmental nuances.

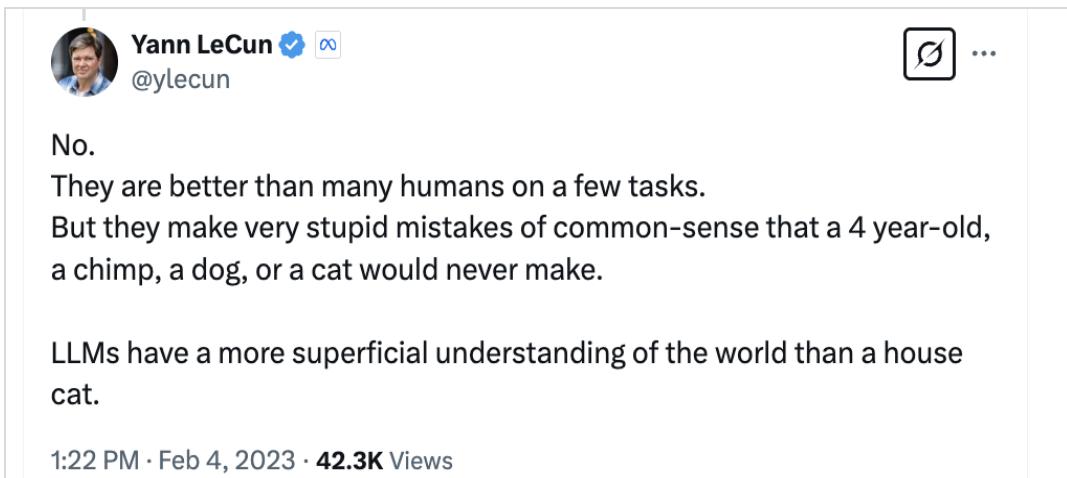
Motor Skills  Developing AI with advanced physical capabilities.



Landscape of LLMs in Dialog and Text Generation

Addressing these fundamental limitations remains a critical area of research to enhance their utility and reliability in real-world applications.

(Gestrin et al., 2024)



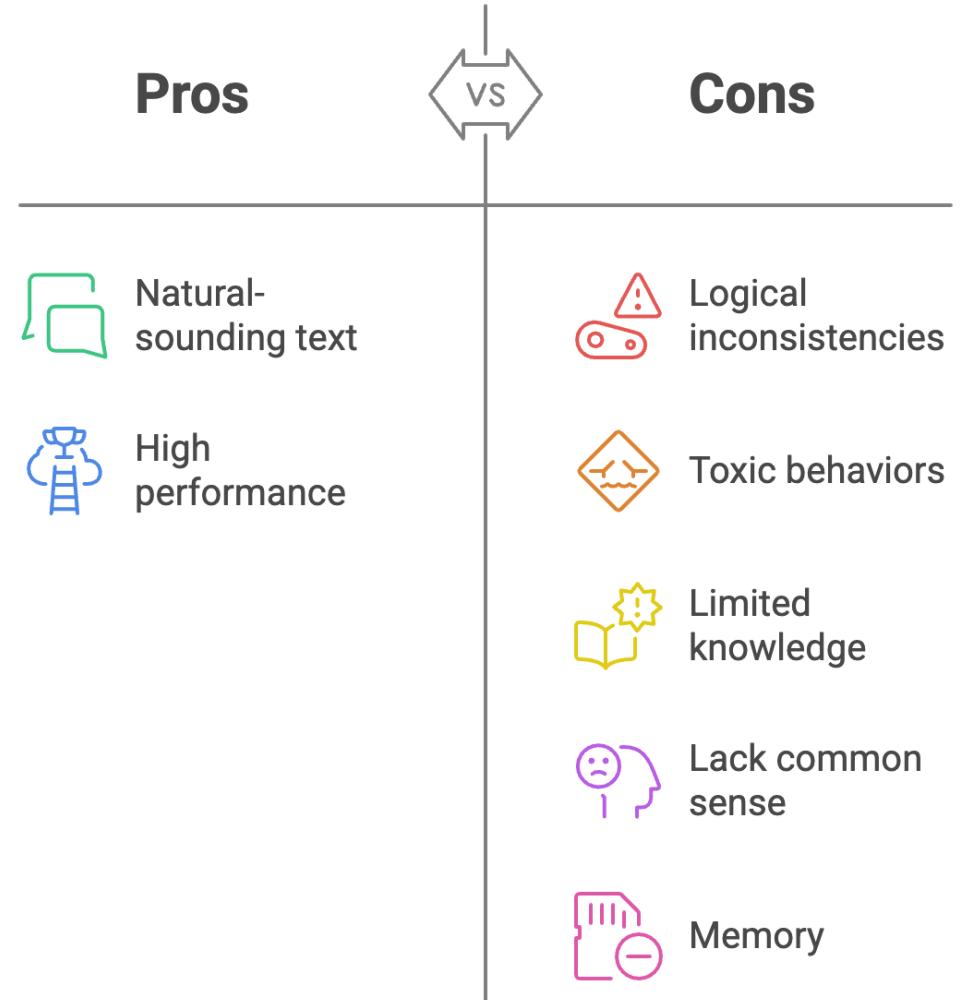
Yann LeCun  
@ylecun

No.
They are better than many humans on a few tasks.
But they make very stupid mistakes of common-sense that a 4 year-old, a chimp, a dog, or a cat would never make.

LLMs have a more superficial understanding of the world than a house cat.

1:22 PM · Feb 4, 2023 · 42.3K Views

LLMs in Dialog and Text Generation



Large concept models LCM



Yann LeCun Following
VP & Chief AI Scientist at Meta
6d ·

Exactly



Gabriel de Souza P. Moreira · Following
Senior Applied Research Scientist at NVIDIA | Phd. in ML | GDE for ML
1w · Edited ·

"I am not interested anymore in LLMs. They are just token generators and those are limited because tokens are in discrete space. I am more interested in next-gen model architectures, that should be able to do 4 things: understand physical world, have persistent memory and ultimately be more capable to plan and reason."

Yann LeCun at #Nvidia #GTC2025



6,547

191 comments · 249 reposts

Large Concept Models:

Language Modeling in a Sentence Representation Space

The LCM team, Loïc Barrault*, Paul-Ambroise Duquenne*, Maha Elbayad*, Artyom Kozhevnikov*, Belen Alastruey†, Pierre Andrews†, Mariano Coria†, Guillaume Couairon†, Marta R. Costa-jussà†, David Dale†, Hady Elsahar†, Kevin Heffernan†, João Maria Janeiro†, Tuan Tran†, Christophe Ropers†, Eduardo Sánchez†, Robin San Roman†, Alexandre Mourachko†, Safiyyah Saleem†, Holger Schwenk†

FAIR at Meta

*Core contributors, alphabetical order, †Contributors to data preparation, LCM extensions and evaluation, alphabetical order, ‡Research and project management, alphabetical order, †Initial work while at FAIR at Meta, new affiliation: INRIA, France

LLMs have revolutionized the field of artificial intelligence and have emerged as the de-facto tool for many tasks. The current established technology of LLMs is to process input and generate output at the token level. This is in sharp contrast to humans who operate at multiple levels of abstraction, well beyond single words, to analyze information and to generate creative content. In this paper, we present an attempt at an architecture which operates on an explicit higher-level semantic representation, which we name a "*concept*". Concepts are language- and modality-agnostic and represent a higher level idea or action in a flow. Hence, we build a "*LARGE CONCEPT MODEL*". In this study, as proof of feasibility, we assume that a concept corresponds to a sentence, and use an existing sentence embedding space, SONAR, which supports up to 200 languages in both text and speech modalities.

The *LARGE CONCEPT MODEL* is trained to perform autoregressive sentence prediction in an embedding space. We explore multiple approaches, namely MSE regression, variants of diffusion-based generation, and models operating in a quantized SONAR space. These explorations are performed using 1.6B parameter models and training data in the order of 1.3T tokens. We then scale one architecture to a model size of 7B parameters and training data of about 2.7T tokens. We perform an experimental evaluation on several generative tasks, namely summarization and a new task of summary expansion. Finally, we show that our model exhibits impressive zero-shot generalization performance to many languages, outperforming existing LLMs of the same size. The training code of our models is freely available.^a

Date: December 12, 2024

Correspondence: Holger Schwenk at schwenk@meta.com

^ahttps://github.com/facebookresearch/large_concept_model



Empowering students with AI, to become creators



Empowering students with AI, to become creators

Harnessing AI Creativity

ChatGPT

Leverage the power of large language models to generate original story ideas, character profiles, and dialogue.

Pictory

Create visually stunning, AI-generated videos to enhance your storytelling and bring your narratives to life.

Perplexity, [You.com](#), Claude AI, Copilot, AI Board of Innovation

Tap into AI's analytical capabilities to uncover insights and trends that can inform your creative decision-making.

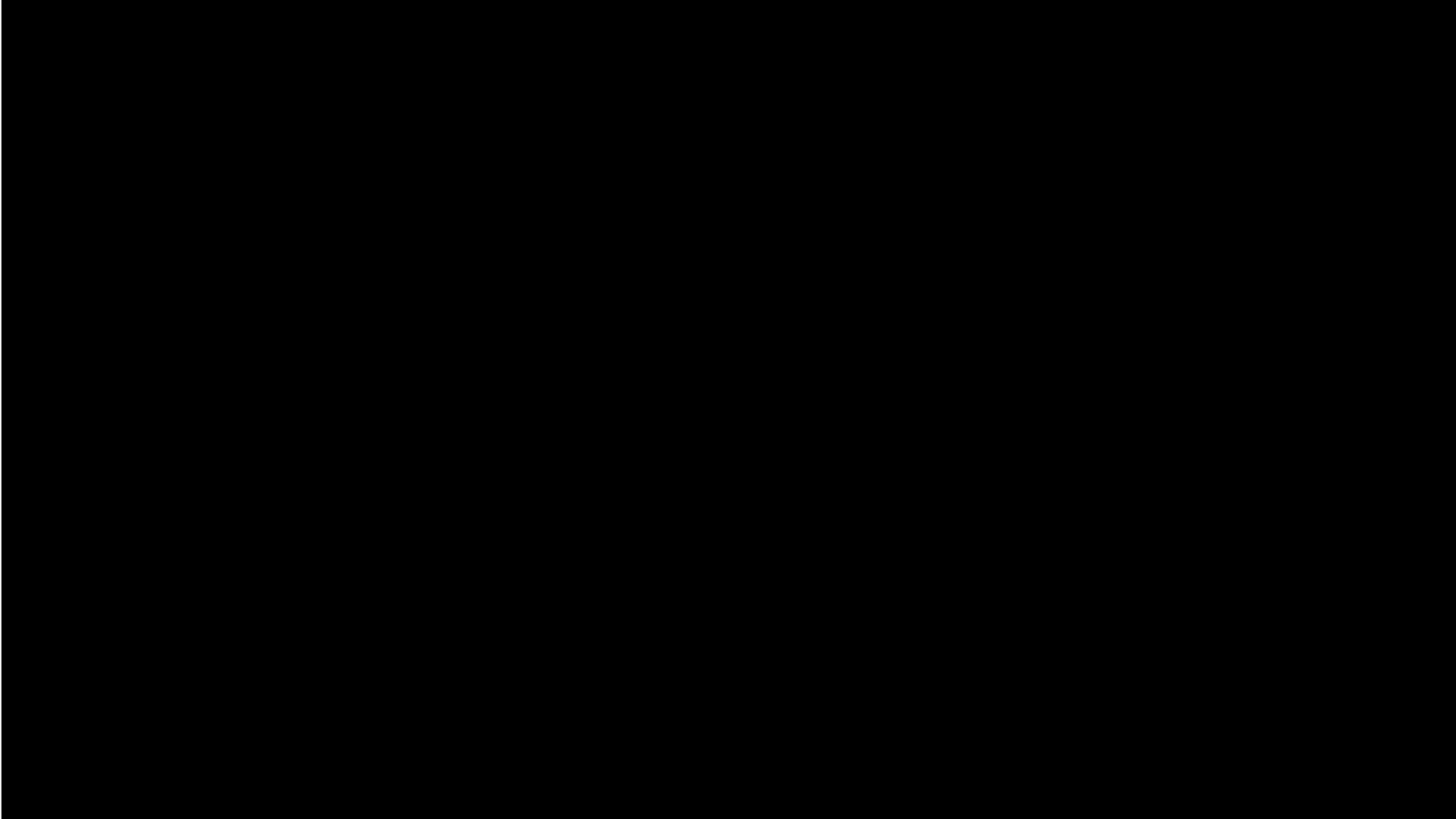
Canva, Gamma

Utilise advanced AI visual assistants to streamline design processes and enhance presentation aesthetics

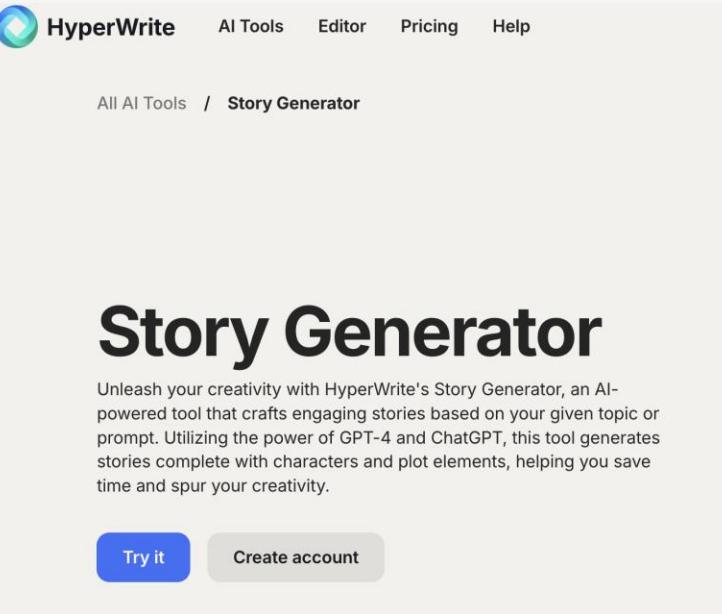


Made with Gamma

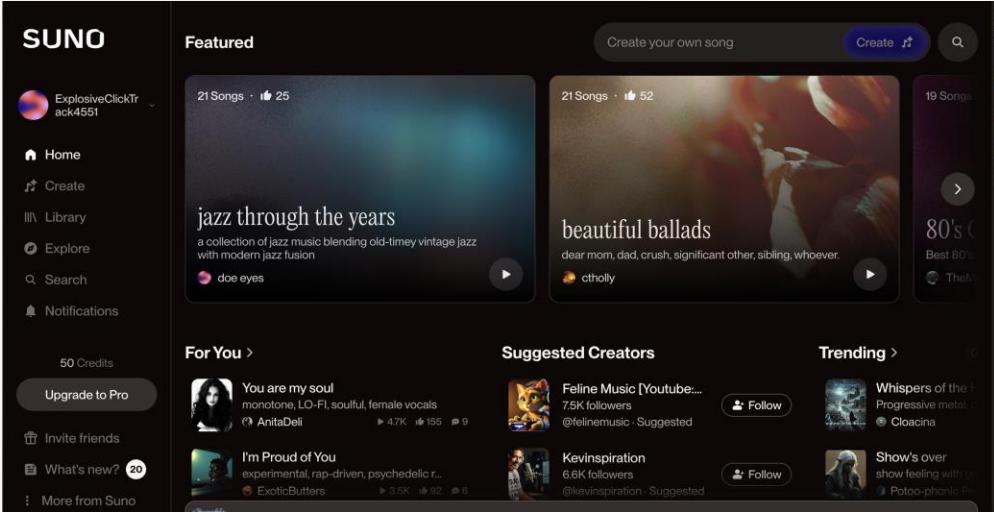
Empowering students with AI, to become creators



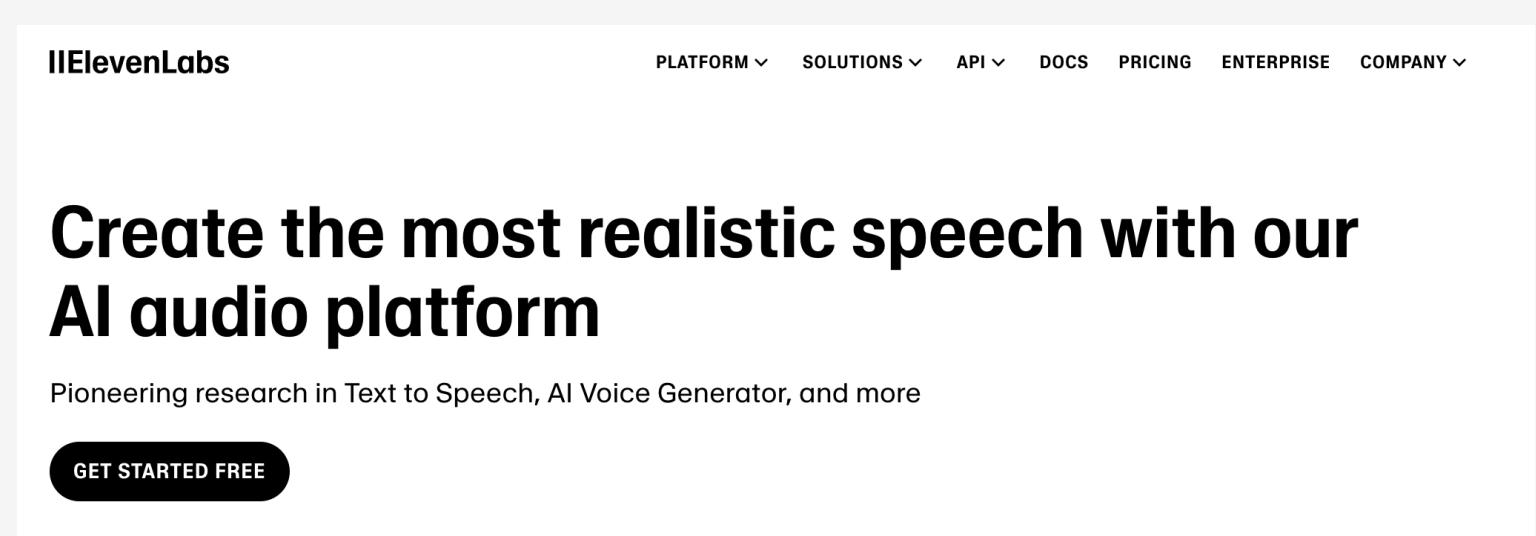
Empowering students with AI, to become creators



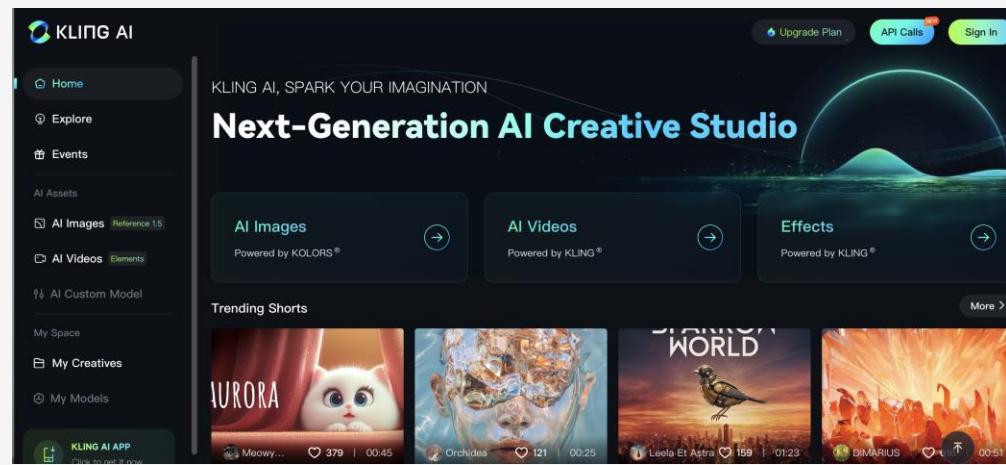
The screenshot shows the HyperWrite Story Generator interface. At the top, there's a navigation bar with the HyperWrite logo, AI Tools, Editor, Pricing, and Help. Below that, a breadcrumb navigation shows 'All AI Tools / Story Generator'. The main title 'Story Generator' is prominently displayed. Below the title, a sub-copy reads: 'Unleash your creativity with HyperWrite's Story Generator, an AI-powered tool that crafts engaging stories based on your given topic or prompt. Utilizing the power of GPT-4 and ChatGPT, this tool generates stories complete with characters and plot elements, helping you save time and spur your creativity.' At the bottom of the page are two buttons: 'Try it' and 'Create account'.



The screenshot shows the Suno AI interface. The top navigation bar includes 'Home', 'Create', 'Library', 'Explore', 'Search', 'Notifications', '50 Credits', 'Upgrade to Pro', 'Invite friends', 'What's new?', and 'More from Suno'. The main content area features a 'Featured' section with three song cards: 'jazz through the years', 'beautiful ballads', and '80's'. Below this are sections for 'For You', 'Suggested Creators', and 'Trending'. Each section contains cards for different artists or creators.



The screenshot shows the IIElevenLabs AI audio platform. At the top, there's a navigation bar with the IIElevenLabs logo, PLATFORM, SOLUTIONS, API, DOCS, PRICING, ENTERPRISE, and COMPANY. The main title 'Create the most realistic speech with our AI audio platform' is displayed in large, bold letters. Below the title, a sub-copy reads: 'Pioneering research in Text to Speech, AI Voice Generator, and more'. A large 'GET STARTED FREE' button is centered at the bottom of the main content area.



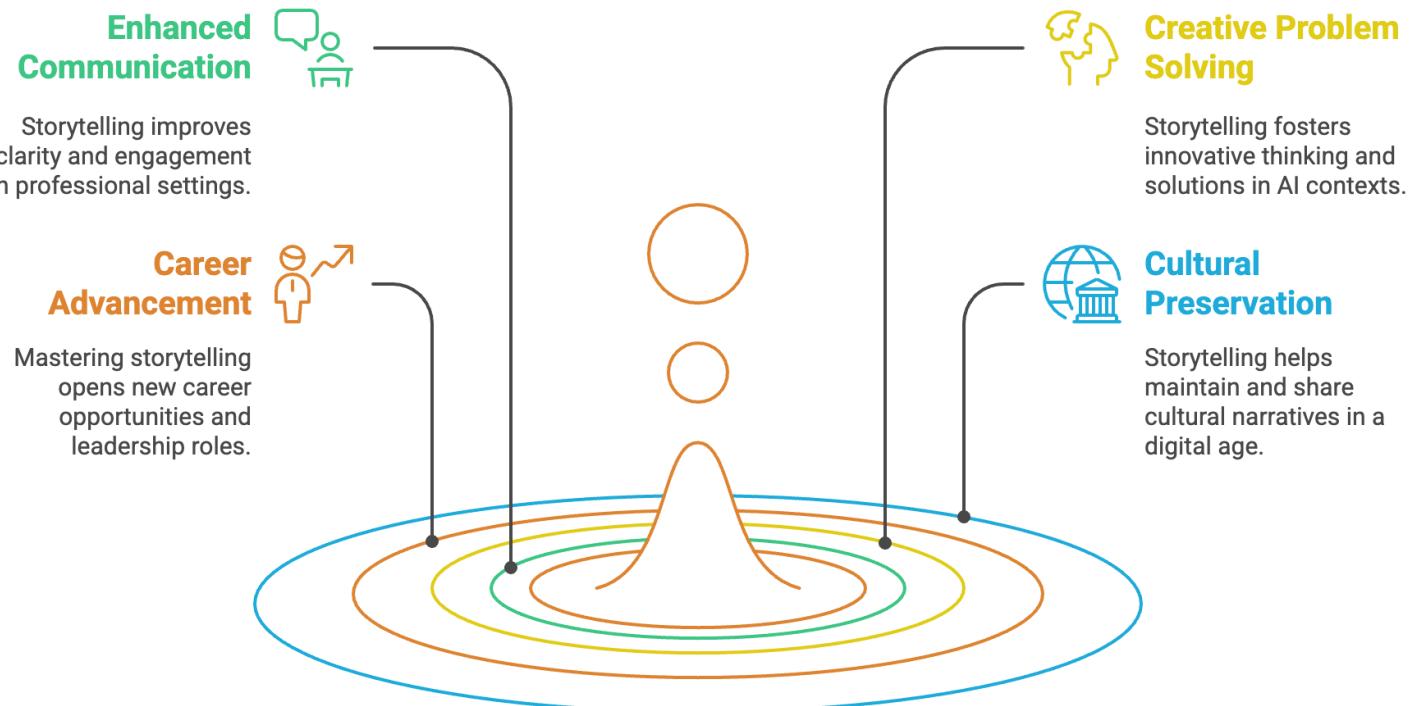
The screenshot shows the KLING AI interface. The top navigation bar includes 'Upgrade Plan', 'API Calls', 'Sign In', 'Home', 'Explore', 'Events', 'AI Assets', 'AI Images', 'AI Videos', 'AI Custom Model', 'My Space', 'My Creatives', and 'My Models'. The main content area features a banner for 'KLING AI, SPARK YOUR IMAGINATION' and 'Next-Generation AI Creative Studio'. It includes sections for 'AI Images' (Powered by KOLORS®), 'AI Videos' (Powered by KLING®), and 'Effects' (Powered by KLING®). Below these are 'Trending Shorts' cards for 'AURORA', 'Orchid', 'WORLD', and 'DIMARUS'.

AI-enhanced storytelling techniques

Scott Galloway (marketing Professor at Stern School of Business), emphasized the importance of storytelling skills for young professionals in the AI era.

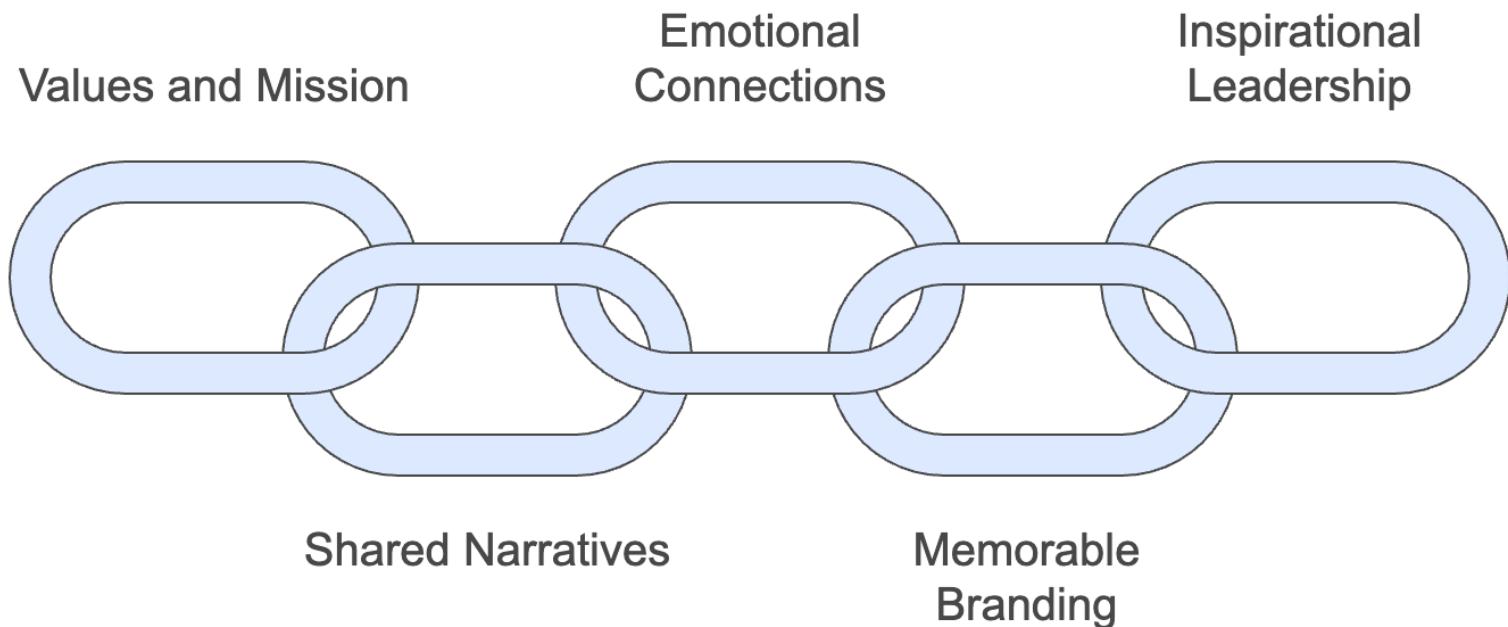
If he could impart one competence to his children that would stand the test of time, it would be storytelling.

Storytelling Skills in the AI Era

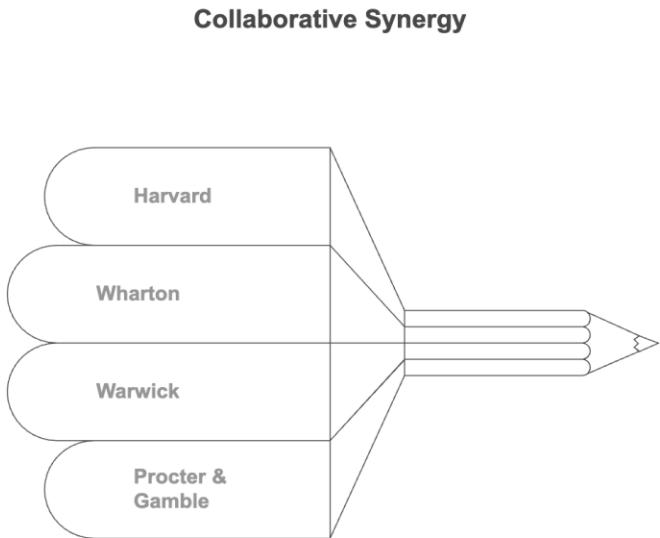


The power of stories in education

The Power of Storytelling in Shaping University Culture



Universities and the power of stories in AI-enhanced collaboration



The Cybernetic Teammate: A Field Experiment on Generative AI Reshaping Teamwork and Expertise

Fabrizio Dell'Acqua
Harvard Business School and Digital Data Design Institute at Harvard

Charles Ayoubi
ESSEC Business School

Hila Lifshitz
Warwick Business School and Digital Data Design Institute at Harvard

Raffaella Sadun
Harvard Business School and Digital Data Design Institute at Harvard

Ethan Mollick
The Wharton School, University of Pennsylvania

Lilach Mollick
The Wharton School, University of Pennsylvania

Working Paper 25-043

Yi Han
Procter & Gamble

Jeff Goldman
Procter & Gamble

Hari Nair
Procter & Gamble

Stew Taub
Procter & Gamble

Karim R. Lakhani
Harvard Business School and Digital Data Design Institute at Harvard

AI Collaboration

Synergy in AI-Human Collaboration

Enhanced Creativity and Problem-Solving

