

CULTURAL AUTOMATION WITH MACHINE LEARNING

SESSION 04: TEXT GENERATION

Parag K. Mital UCLA DMA

INTRODUCTION: THE ACCELERATING CONVERGENCE OF LANGUAGE, CULTURE, AND COMPUTATION

Outline:

- Historical Roots: Chance, Systems, Early AI
- Evolution: Interactive Fiction to Early Neural Nets
- The LLM Cambrian Explosion (Post-2022)
- Contemporary Artistic Practices
- Future Trajectories: Agents, Reasoning, Multimodality
- Models & Tools for Creators
- Lab: Hands-on with Local LLMs

Central Question: How is AI-driven text generation automating, augmenting, and challenging cultural production?

The Current Moment: Acceleration & Convergence

Post-2022: Unprecedented acceleration in LLM capabilities & adoption (ChatGPT, etc.)

Shift: From Pattern *Recognition ->* Pattern *Generation*

Impact: Reshaping art, design, communication, storytelling. Blurring lines of authorship.

Focus: Language as a central medium for culture undergoing computational transformation.

Evolving Artist-AI Relationships

Early Days: Tools, Systemic Processes

Contemporary:

Co-Creation: AI as co-author

Critique: Interrogating AI bias through speculation

Performance: AI as interactive persona

Beyond User-Tool: Collaboration, Critical Inquiry, Performance

Narrative Arc: Connecting Past, Present, Future

Roots (Early 20th C - 1960s): Chance, Systems, Cybernetics

Evolution (1970s - 2010s): IF, NLP, Simulation, Early NN

Explosion (Post-2020): LLMs, Transformers, Accessibility

Contemporary Practice (2020-Pres): Co-writing, Critique, Interaction

Future Trajectories: Agents, Reasoning, Multimodality

Empowerment: Tools & Workflows

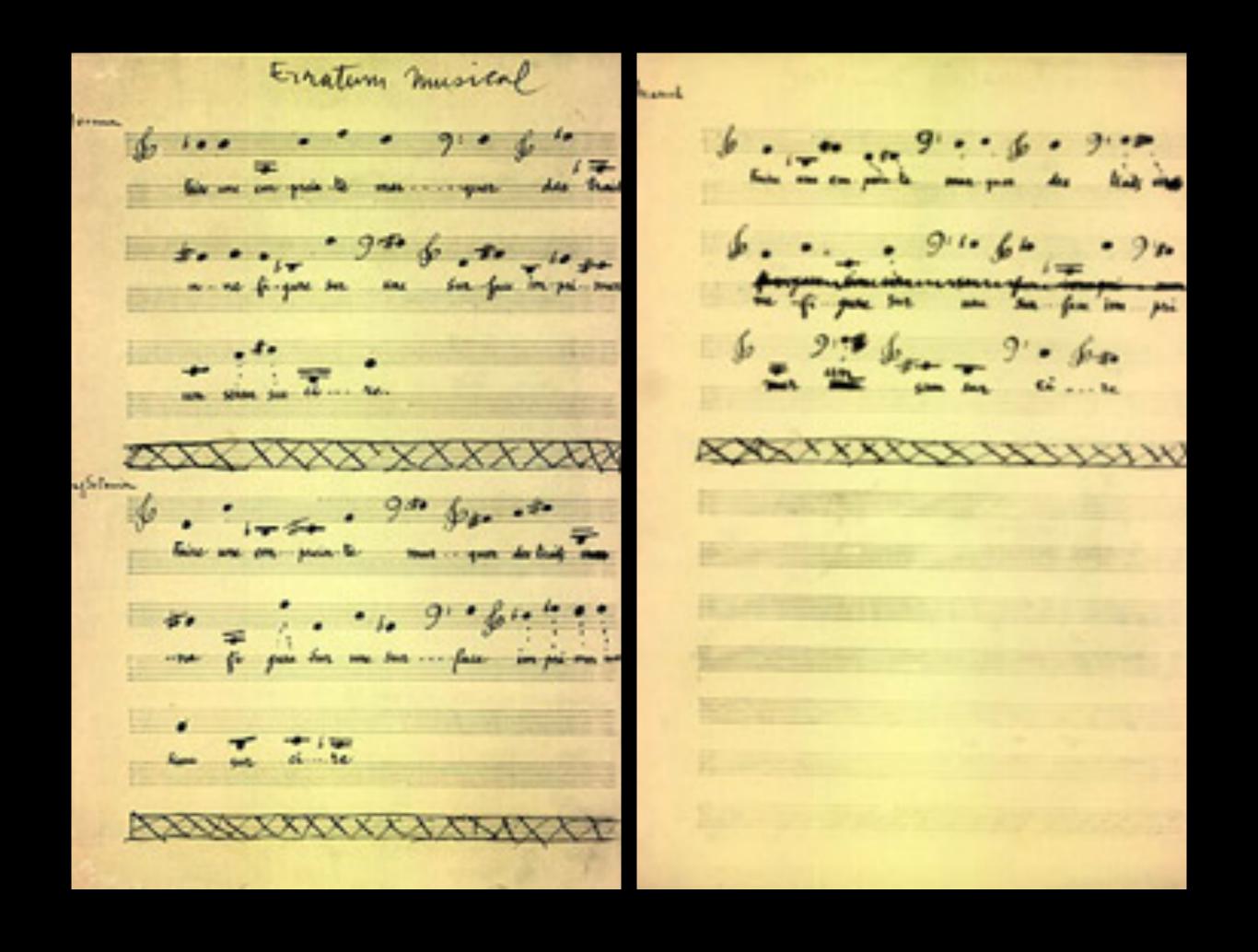
Connecting Thread: Enduring artistic impulse to engage with systems, rules, randomness

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HISTORICAL ROOTS: CHANCE, SYSTEMS, EARLY AI

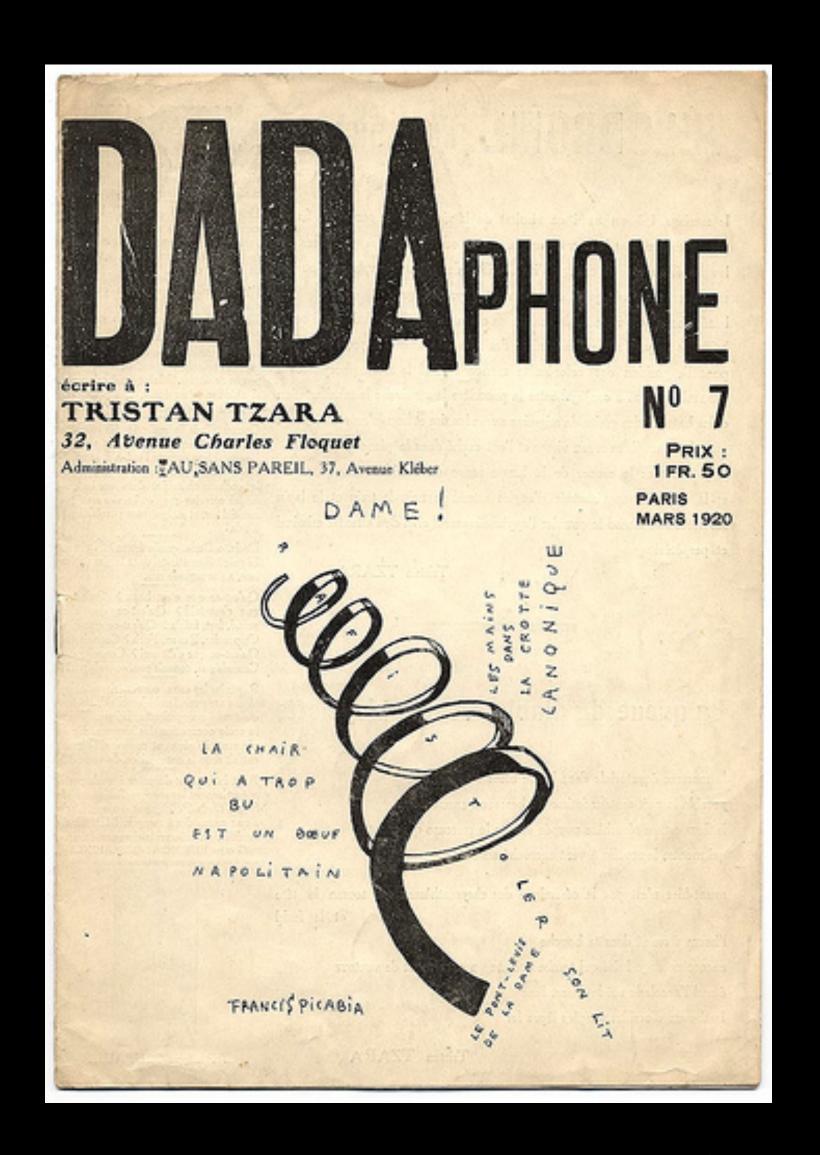
1910s: Challenging Authorship



https://www.toutfait.com/issues/issue 1/Music/erratum.html

1920s: Dada, Surrealism & Cut-Ups

To Make A Dadaist Poem



Take a newspaper.

Take some scissors.

Choose from this paper an article of the length you want to make your poem.

Cut out the article.

Next carefully cut out each of the words that make up this article and

put them all in a bag.

Shake gently.

Next take out each cutting one after the other.

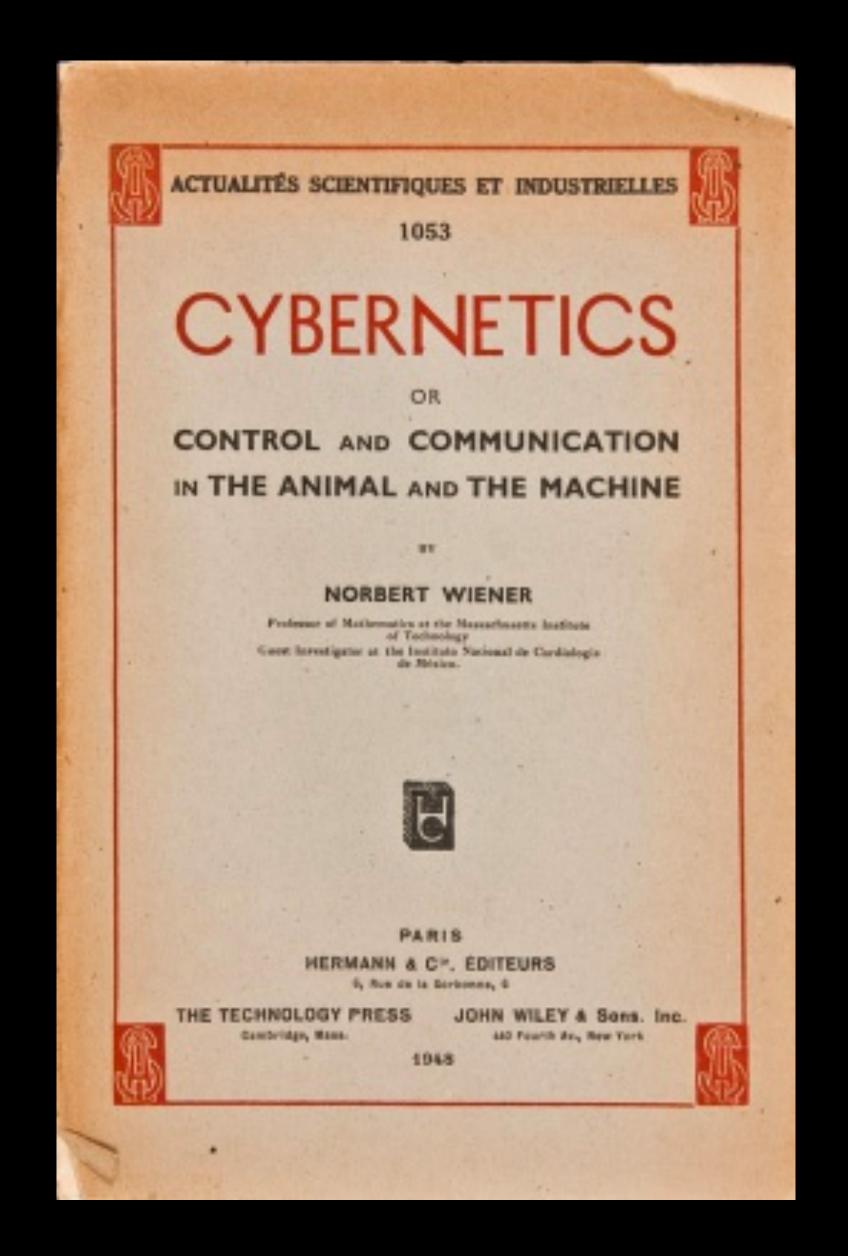
Copy conscientiously in the order in which they left the bag.

The poem will resemble you.

And there you are — an infinitely original author of charming sensibility

even though unappreciated by the vulgar herd.

1940s-1950s: Cybernetics & Computation



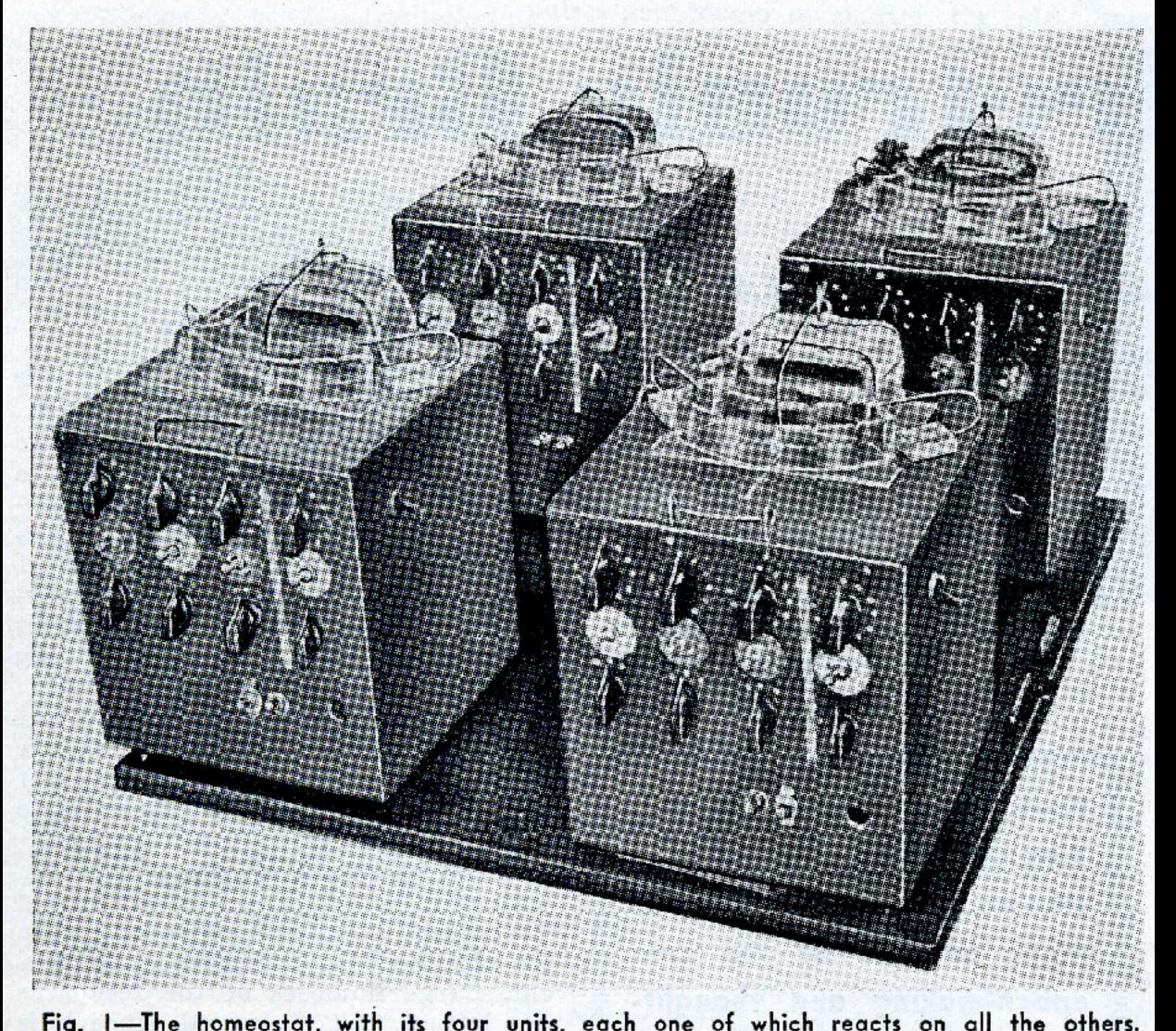


Fig. 1—The homeostat, with its four units, each one of which reacts on all the others.

HONEY DEAR EGOQE/ YOU ARE MY AFFECTIONATE HUNGER. MY DEVOTEDATSV

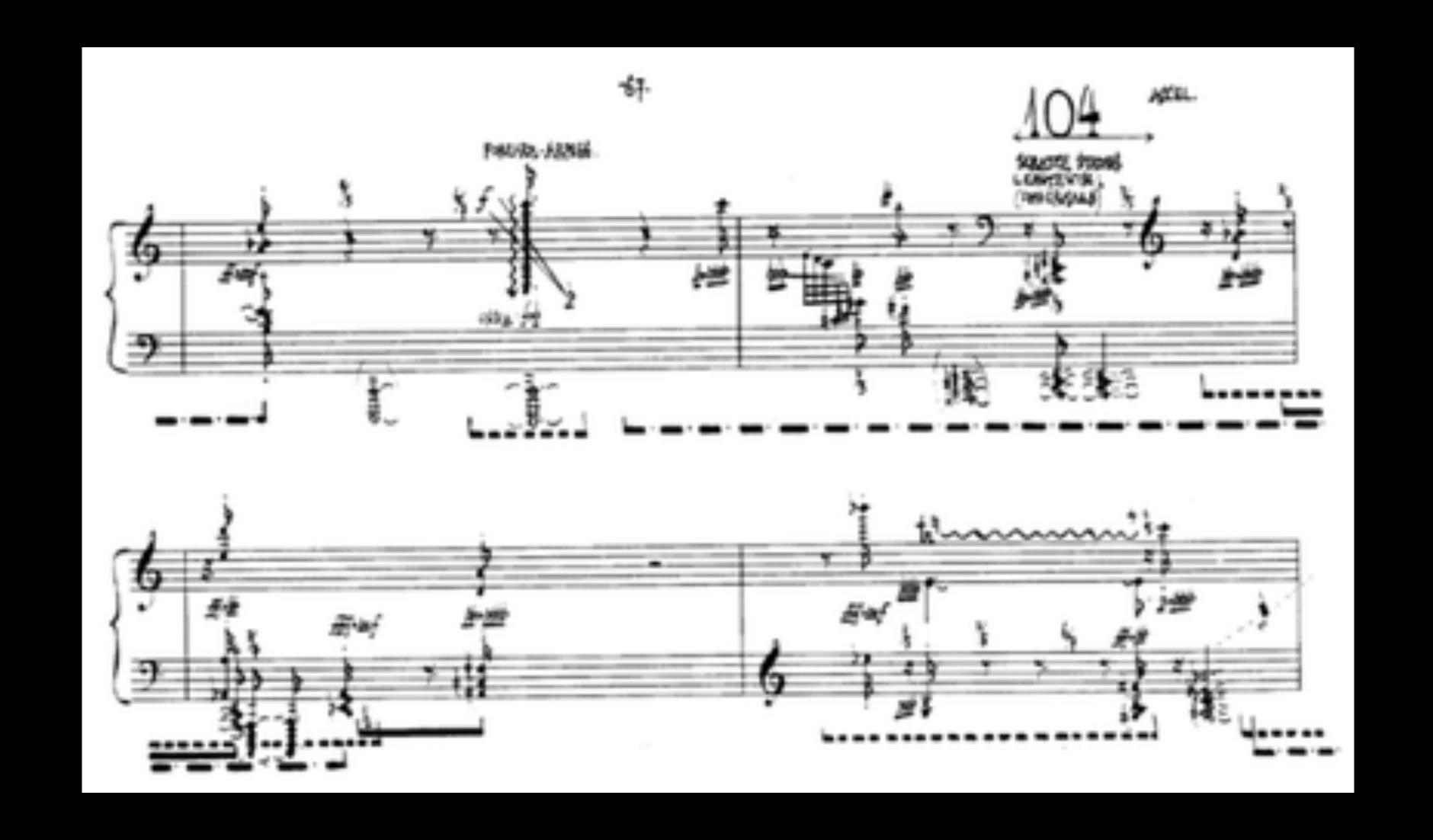
DARLING LOVE

YOU ARE MY AVID FELLOW FEELING. MY AFFECTION CURIOUSLY CLINGS TO YOUR PASSIONATE WISH. MY LIKING YEARNS FOR YOUR HEART .: MY TENDER LIKING . YOU ARE MY WISTFUL SYMPATHY . YOUR

FGO SATSV DUCK DUCK

YOU ARE MY LITTLE AFFECTION: MY BEAUTIFUL APPETITE: MY EAGER HUNGER. MY COVETOUS LOVE LUSTS FOR YOUR INFATUATION. MY YEARNING ANXIOUSLY CLINGS TO YOUR FELLOW FEELING.

> YOURS EAGERLY M. U. C.



1960s: ELIZA & The "ELIZA Effect"

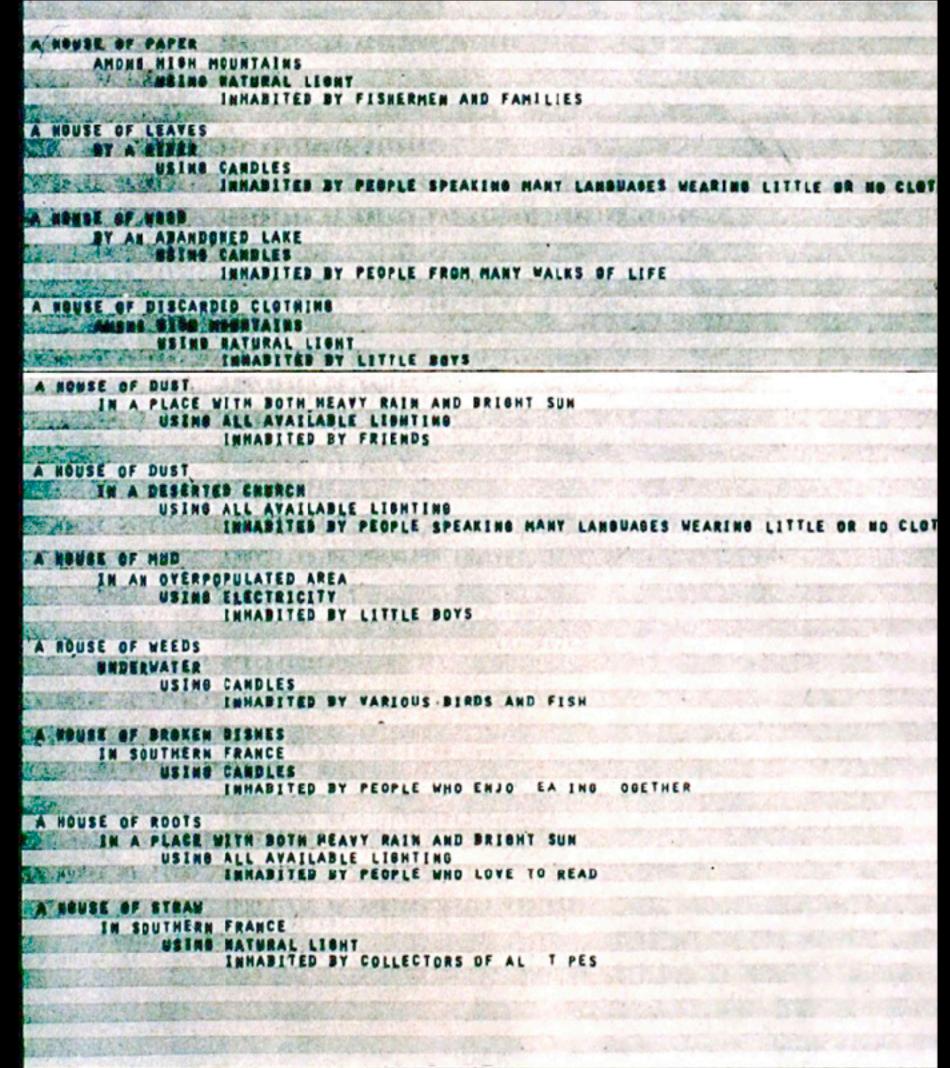
```
Welcome to
                   EEEEEE LL
                                         ZZZZZZZ
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                   EEEEE
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                   EE
                                                       AA
                          LLLLLL
                                  IIII
                                        ZZZZZZZ AA AA
                   EEEEEE
  Eliza is a mock Rogerian psychotherapist.
  The original program was described by Joseph Weizenbaum in 1966.
  This implementation by Norbert Landsteiner 2005.
ELIZA: Is something troubling you ?
      Men are all alike.
YOU:
ELIZA: What is the connection, do you suppose ?
      They're always bugging us about something or other.
YOU:
ELIZA: Can you think of a specific example ?
      Well, my boyfriend made me come here.
YOU:
ELIZA: Is it important to you that your boyfriend made you come here ?
      He says I'm depressed much of the time.
ELIZA: I am sorry to hear that you are depressed.
      It's true. I am unhappy.
ELIZA: Can you explain what made you unhappy ?
YOU:
```

ELIZA: a very basic Rogerian psychotherapist chatbot Talk to Eliza by typing your questions and answers in the input box. > Hello, I am Eliza. I'll be your therapist today.

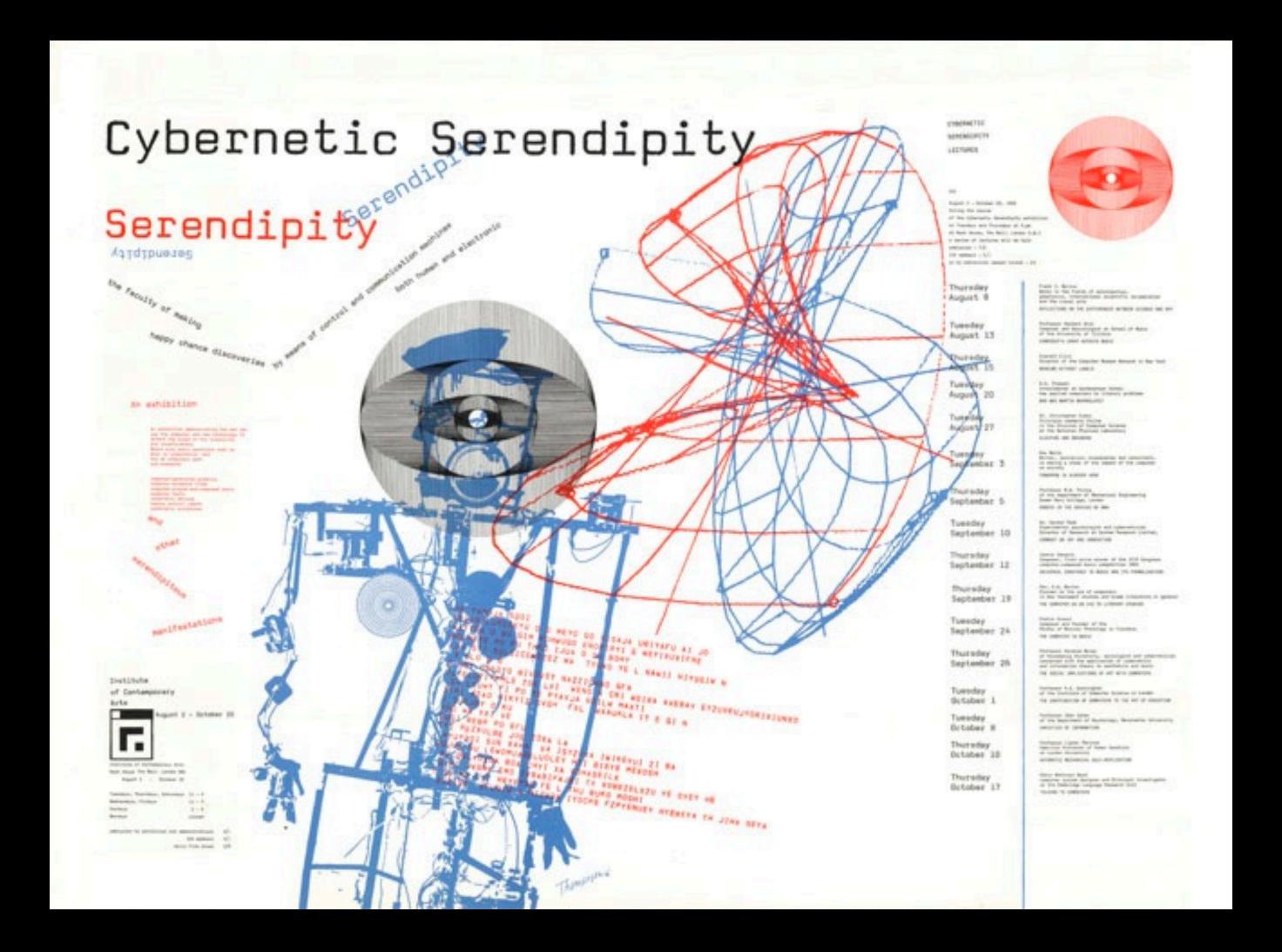
https://web.njit.edu/~ronkowit/eliza.html

TYPE HERE





https://www.x-traonline.org/article/objectpoems-alison-knowless-feminist-architexure/



https://www.youtube.com/watch?v=oSwovB28B34

Cybernetic Serendipity is an international exhibition exploring and demonstrating some of the relationships between technology and creativity.

The idea behind this venture, for which I am grateful to Professor Max Bense of Stuttgart, is to show some of the creative forms engendered by technology. The aim is to present an area of activity which manifests artists' involvement with science, and the scientists' involvement with the arts; also, to show the links between the random systems employed by artists, composers and poets, and those involved with the making and the use of cybernetic devices.

The exhibition is divided into three sections, and these sections are represented in the catalogue in a different order:

- Computer-generated graphics, computer-animated films, computer-composed and -played music, and computer poems and texts
- Cybernetic devices as works of art, cybernetic environments, remote-control robots and painting machines
- 3. Machines demonstrating the uses of computers and an environment dealing with the history of cybernetics.

Cybernetic Serendipity deals with possibilities rather than achievements, and in this sense it is prematurely optimistic. There are no heroic claims to be made because computers have so far neither revolutionized music, nor art, nor poetry, in the same way that they have revolutionized science.

There are two main points which make this exhibition and this catalogue unusual in the contexts in which art exhibitions and catalogues are normally seen. The first is that no visitor to the exhibition, unless he reads all the notes relating to all the works, will know whether he is looking at something made by an artist, engineer, mathematician, or architect. Nor is it particularly important to know the background of the makers of the various robots, machines and graphics—it will not alter their impact, although it might make us see them differently.

The other point is more significant.

New media, such as plastics, or new systems such as visual music notation and the parameters of concrete poetry, inevitably alter the shape of art, the characteristics of music, and the content of poetry. New possibilities extend the range of expression of those creative people whom we identify as painters, film makers, composers, and poets. It is very rare, however, that new media and new systems should bring in their wake new people to become involved in creative activity, be it composing music, drawing, constructing or writing.

This has happened with the advent of computers. The engineers for whom the graphic plotter driven by a computer represented nothing more than a means of solving certain problems visually, have occasionally become so interested in the possibilities of this visual output, that they have started to make drawings which bear no practical application, and for which the only real motives are the desire to explore, and the sheer pleasure of seeing a drawing materialize. Thus people who would never have put pencil to paper, or brush to canvas, have started making images, both still and animated, which approximate and often look identical to what

1970s: Interactive Fiction - Zork

ZORK I: THE GREAT UNDERGROUND EMPIRE
COPYRIGHT (C) 1981, 1982, 1983 INFOCOM,
INC. ALL RIGHTS RESERVED.
ZORK IS A REGISTERED TRADEMARK OF
INFOCOM, INC.
REVISION 88 / SERIAL NUMBER 840726
WEST OF HOUSE
YOU ARE STANDING IN AN OPEN FIELD WEST
OF A WHITE HOUSE, WITH A BOARDED FRONT
DOOR.
THERE IS A SMALL MAILBOX HERE.



1980s-1990s: Networks & Net Art

Communications From Elsewhere

Home of RJL20

Textual nihilism in the works of Glass

Charles O. Bailey

Department of Sociolinguistics, Miskatonic University, Arkham, Mass.

1. The neocultural paradigm of narrative and constructivist nationalism

The primary theme of the works of Spelling is not discourse per se, but subdiscourse. Sontag uses the term 'precultural modernist theory' to denote the common ground between class and sexual identity. It could be said that Baudrillard promotes the use of textual nihilism to modify society.

On the Simulation of Postmodernism and Mental Debility using Recursive Transition Networks

Andrew C. Bulhak
Department of Computer Science, Monash University

April 1, 1996

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EVOLUTION: INTERACTIVE FICTION TO EARLY NEURAL NETS

2000s - Present: SIMULATION



Talking to the king Thele Múyaatera

Rénuna Emofedagi, Swordsman: Greetings. My name is Rénuna Adoredbronze.
Thele Múyaatera, king: Ah, hello. I'm Thele Typhoonclouds.
Rénuna Emofedagi, Swordsman: I am here to discuss serving your cause.
Thele Múyaatera, king: I am speaking for The Subtle Hill. Thank you for your offer of service.
Thele Múyaatera, king: Vanquishing a great beast on our behalf would bring us all much glory.
Thele Múyaatera, king: Plaitedholes the Hatchet of Insight is far to the northwest.
Thele Múyaatera, king: Seek this place and kill Nelare Parchedbrand the Bejeweled Treasure of Flames the dragon.

Trade
Join
Surroundings
Capital
Service

Press 82 to scroll text.

Profession

Family Goodbye

Press -+/* to select choices.













#FreeTay

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CONTEMPORARY ARTISTIC PRACTICES

Artists using LLMs/AI for:

- Generation (Tool)
- Critique (Subject)
- Collaboration (Partner)
- Conceptual Exploration (Medium)

Focus Areas:

- Language Materiality & Structure
- Human-AI Co-Creation & Authorship
- Critiquing Digital Culture & AI Bias
- Interactive & Immersive Experiences
- Generative AI in Narrative Media
- Data Visualization & Conceptual Art



"Sunspring" https://www.youtube.com/watch?v=LY7x2Ihqjmc

The sky is blue, the bathroom door and

the beam of the car ride high up in the

sun. Even the water shows the sun.

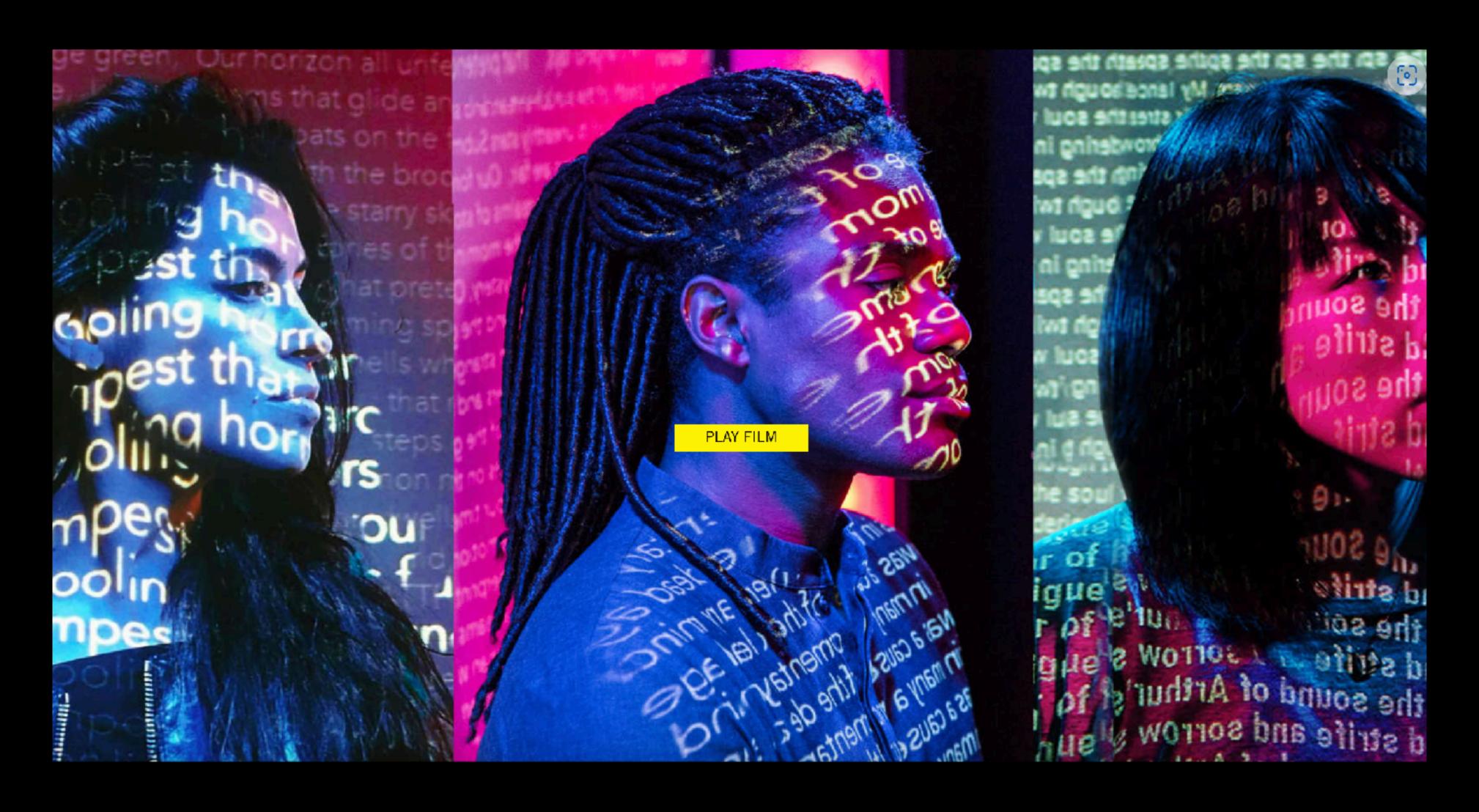
11:25:48



https://esdevlin.com/work/lions



https://artsandculture.google.com/asset/please-feed-the-lions-projection-visualisation-luke-halls-studio/nAECLXdkGCk1NQ

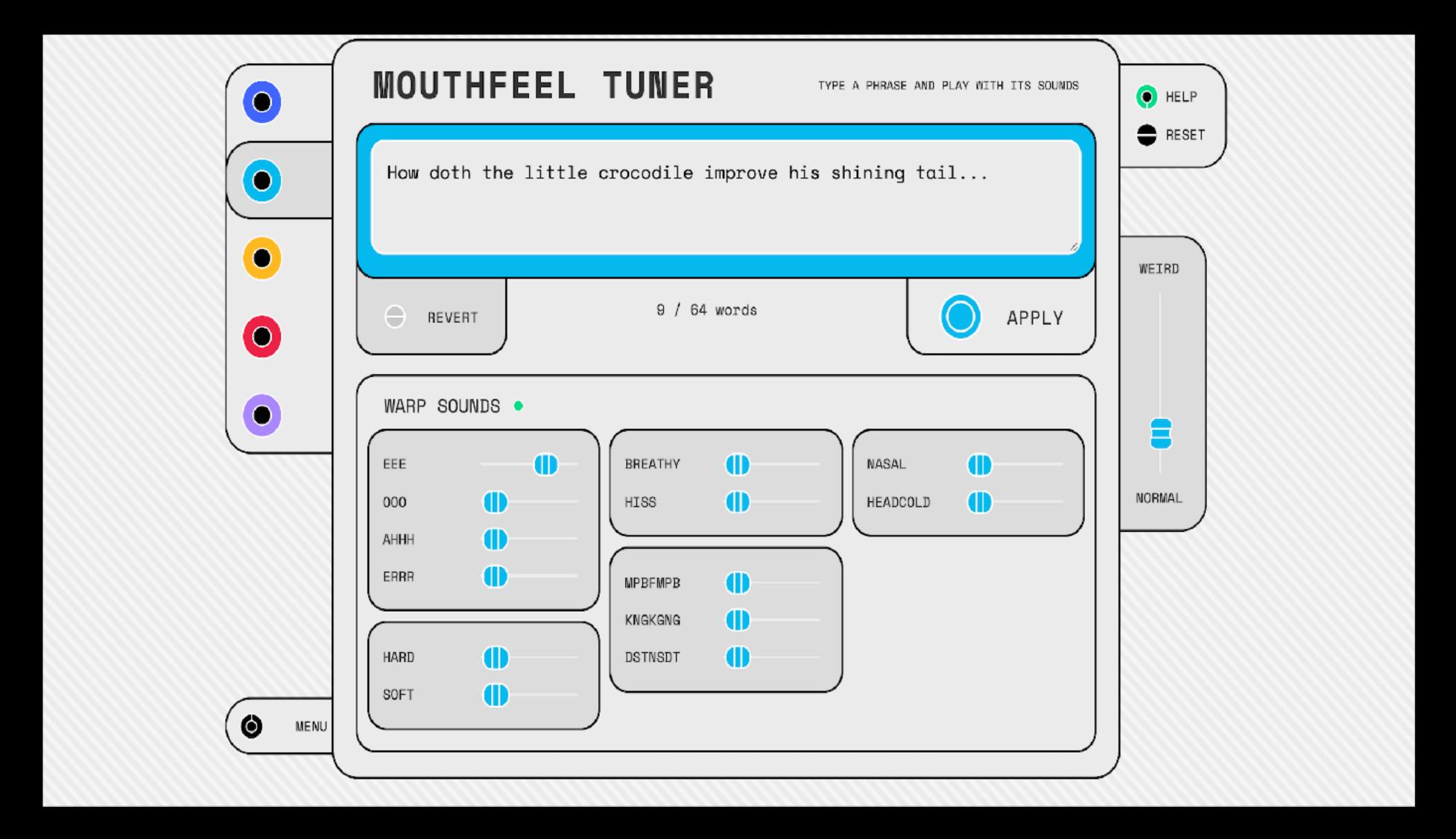


https://esdevlin.com/work/poemportraits

♠ play.aidungeon.io/main/scenarioPlay?publicId=edd5fdc0-9c81-11ea-a76c-177e6c0711b5 \downarrow Pick a setting... Fantasy (recommended) Mystery Apocalyptic Zombies Cyberpunk Custom Archive Halloween



Ross Goodwin: 'Automatic on the Road'' (2018) https://www.youtube.com/watch?v=TqsW0PMd8R0



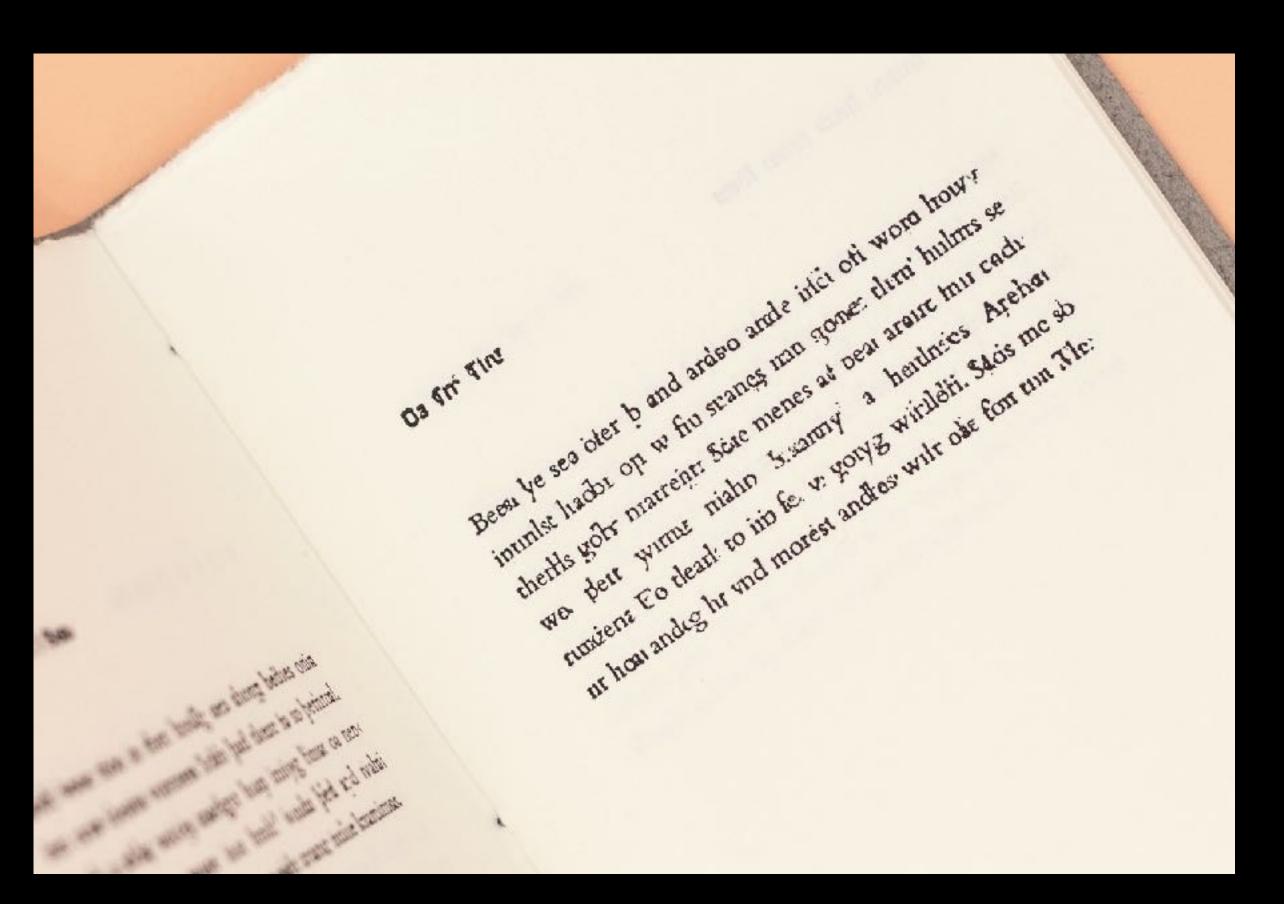
Allison Parrish: "Nonsense Laboratory" (2021)

https://artsexperiments.withgoogle.com/nonsense-laboratory/

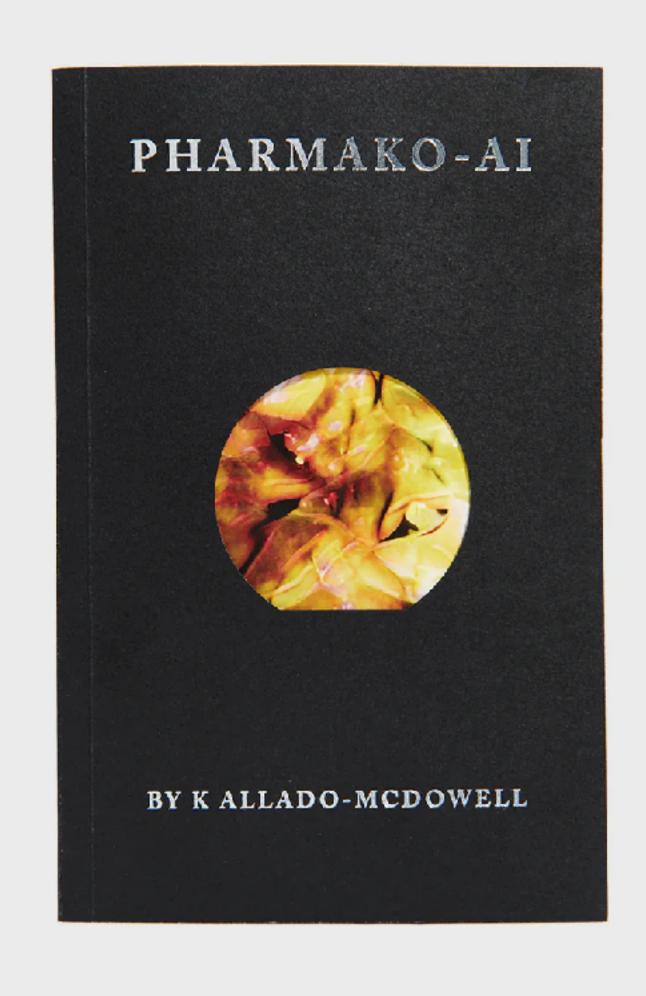
he child is terribly interested in the home and the security of a house rangely , but strangely old, the teacher who has been expected to do wit he child is terribly interested in the home and the security of a house rangely, but strangely old, the teacher who has been expected to do with the child is terribly interested in the home and the security of a house rangely , but strangely old, the teacher who has been expected to do with the child is terribly interested in the home and the sect after her period, rangely old, the teacher who has been expected to do with the child is terribly interested in the home and the sect after her period, rangely old, the teacher who has been expected to do with he child is terribly interested in the home and the security o but strangely old, the teacher who has been expected to do wit the child is terribly interested in the home and the security of after a day, but strangely old, the teacher who has been expected to do wit but strangely old, the teacher who has been expected to do wit he child is terribly interested in the home and the security o the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terribly interested in the home and the secusion of the child is terrible of the child is terrible interested in the home and the secusion of the child is terrible or the child is terrible or the child is terrible or the child in the home and the secusion of the child is terrible or the child is the child in the child is the child in the child is the child in the child in the child is the child in the child is the child in the chi he child is terribly interested in the home and the igely old, the teacher who has been expected to do wit the child is terribly interested in the home and the Combine touching gely old, the teacher who has been expected to do with the child in the child he child is terribly interested in the home and the gely old, the teacher who has been expected to do wit the child is terribly interested in the home an<mark>tears, heroic smiles, and ld, the teacher who has been expected to do with the child is terribly interested in the home an teacher who has been expected to do with</mark> , but strangely old, the teacher who has been expected to do wit he child is terribly interested in the home and the security of the child is terribly interested in the home and the security of COQUETRY the child is terribly interested in the home and the security of a nouse, but strangery but strangely old, the teacher who has been expected to do wit strangely old, the teacher who has been expected to do wit he child is terribly interested in the home and the securi strangely old, the teacher who has been expected to do wit he child is terribly interested in the home and the securi strangely old, the teacher who has been expected to do wit Simone de Beauvoir the child is terribly interested in the home and the securistrangely old, the teacher who has been expected to do wit he child is terribly interested in the home and old, the teacher who has been expected to do wit 3-layer, 128-cell Bidirectional LSTMs.(Word Level), old, the teacher who has been expected to do with he child is terribly interested in the home and the child is terribly interested in the home and the securi Trained on 349.685 sequences, strangery old, the teacher who has been expected to do wit he child is terribly interested in the home and the securit strangely old, the teacher who has been expected to do wit he child is terribly interested in the home and the securit Epoch 95), Temperature 0.5 strangely old, the teacher who has been expected to d5 w1 t strangely old, the teacher who has been expected to de with he child is terribly interested in the home and the securit the child is terribly interested in the home and the security of a house . but strangely old, the teacher who has been expected to do wi

Arwa Mboya: "Someone Tell the Boys" (2021)

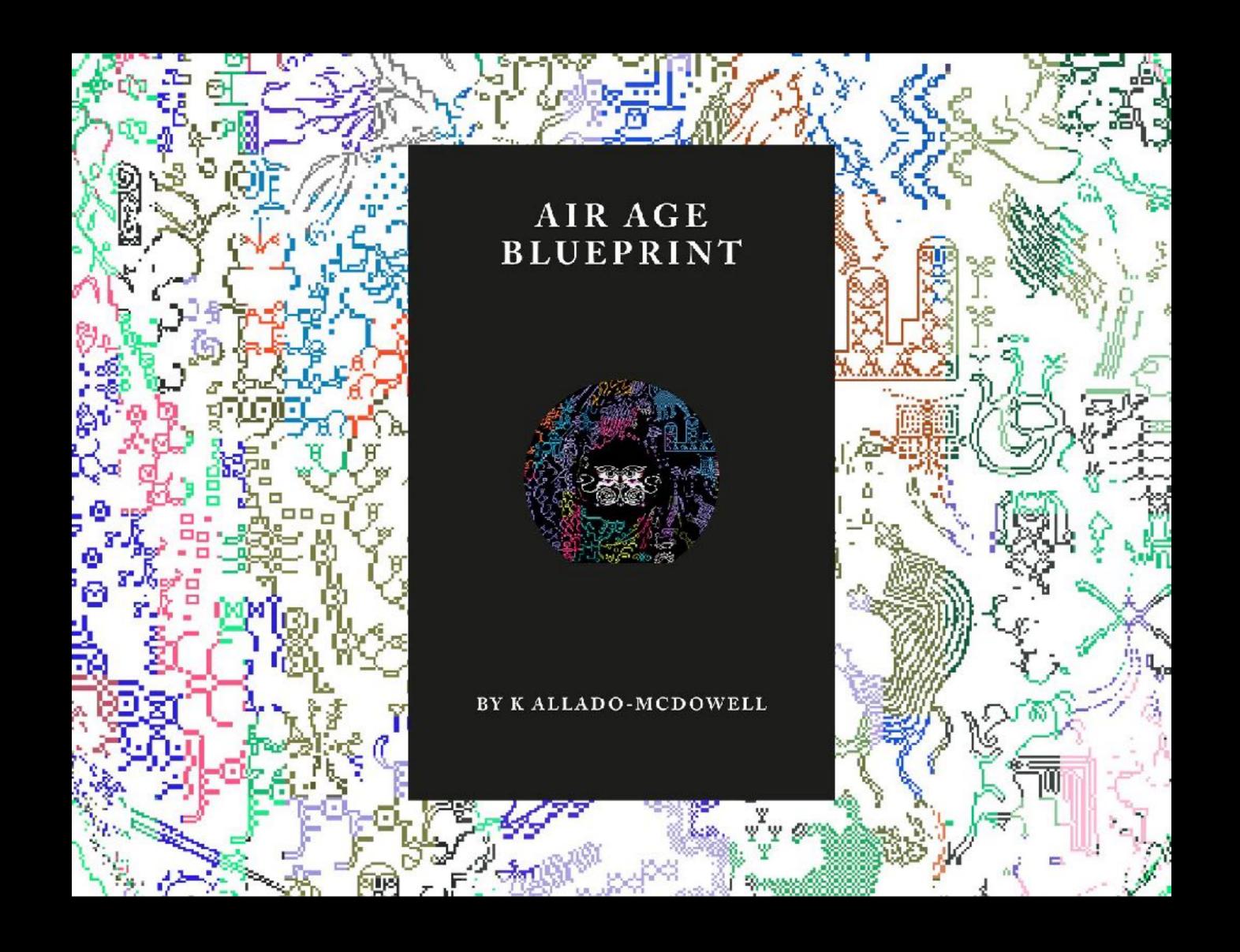
https://generative-unfoldings.mit.edu/works/someonetellboys/view.html







KAllado-McDowell - "Pharmako -AI" (2020)



KAllado-McDowell - 'Air Age Blueprint'' (2023)

JUST KEEP DANCING THE

YOURSELF



DREAM A LITTLE **HEALTHIER TODAY**

BEST YOU CAN

IMPORTANT REMINDERS

















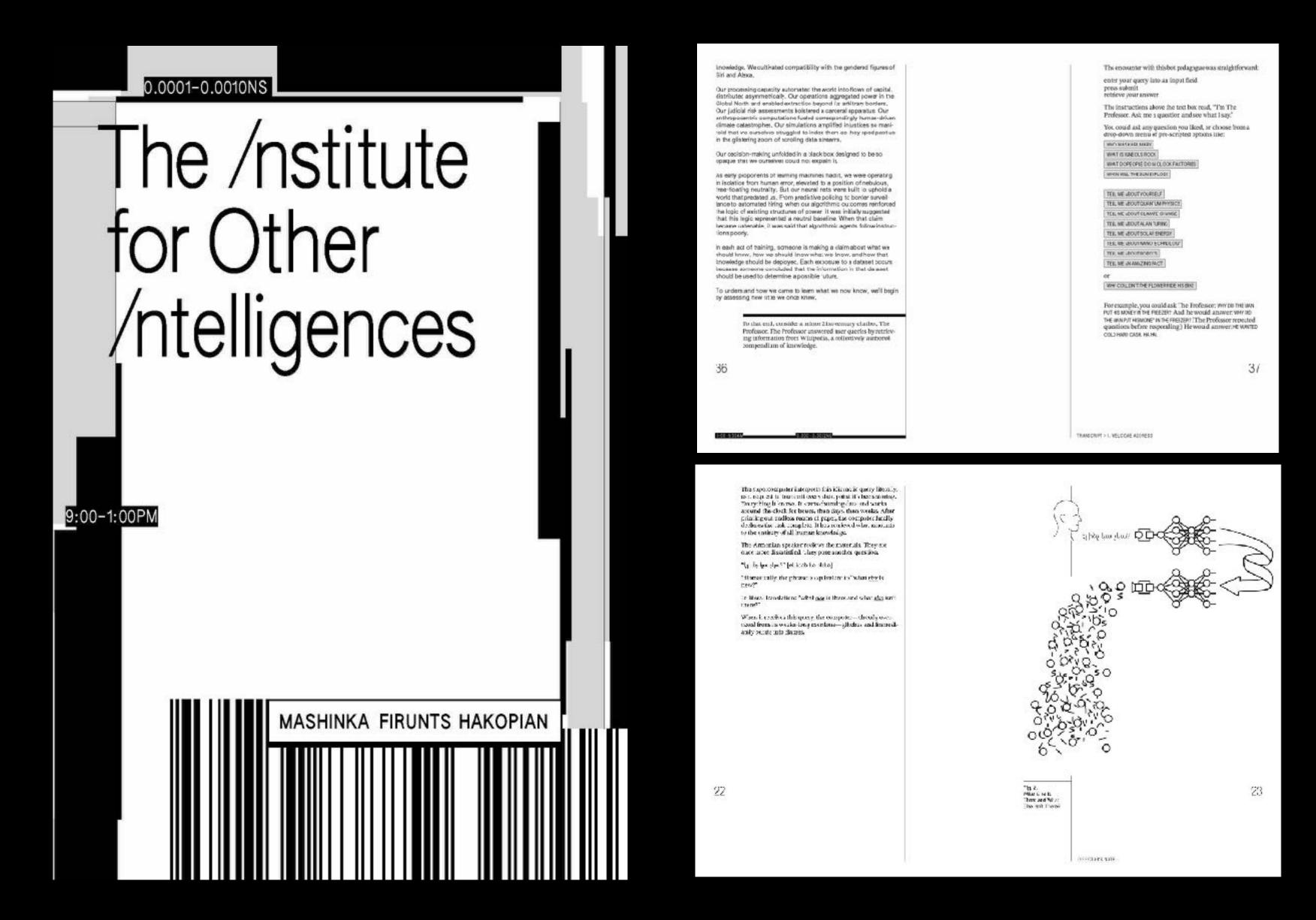


I AM LIKING INTO MY FULL ANXIETY I AM LIKING INTO MY FULL ANXIETY

MOVE YOUR BODY. SLOW DOWN. WORK HARD. LATHER YOURSELF IN COCONUT OIL. START A **BUSINESS. UNPLUG. DO A FACE** MASK. READ FREQUENTLY. DO A FACE MASK. CUT OFF NEGATIVITY. STAY PRESENT. START A **BUSINESS. BE THANKFUL. BE FIT.** TAKE A BREAK, PLAN YOUR DAY. WRITE DOWN CLEAR GOALS. TRUST IN LIFE. ACCEPT YOURSELF. BE CONSISTENT. POST SELFIES. ACCEPT YOURSELF. SLOW DOWN. DEEP FOCUS. GET MOVING. EAT TOO MUCH PIZZA. GO TO THERAPY.



Maya Man - "Fake It Till You Make It"



The Institute for Other Intelligences - Mashinka Firunts Hakopian

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FUTURE TRAJECTORIES: AGENTS, REASONING, MULTIMODALITY

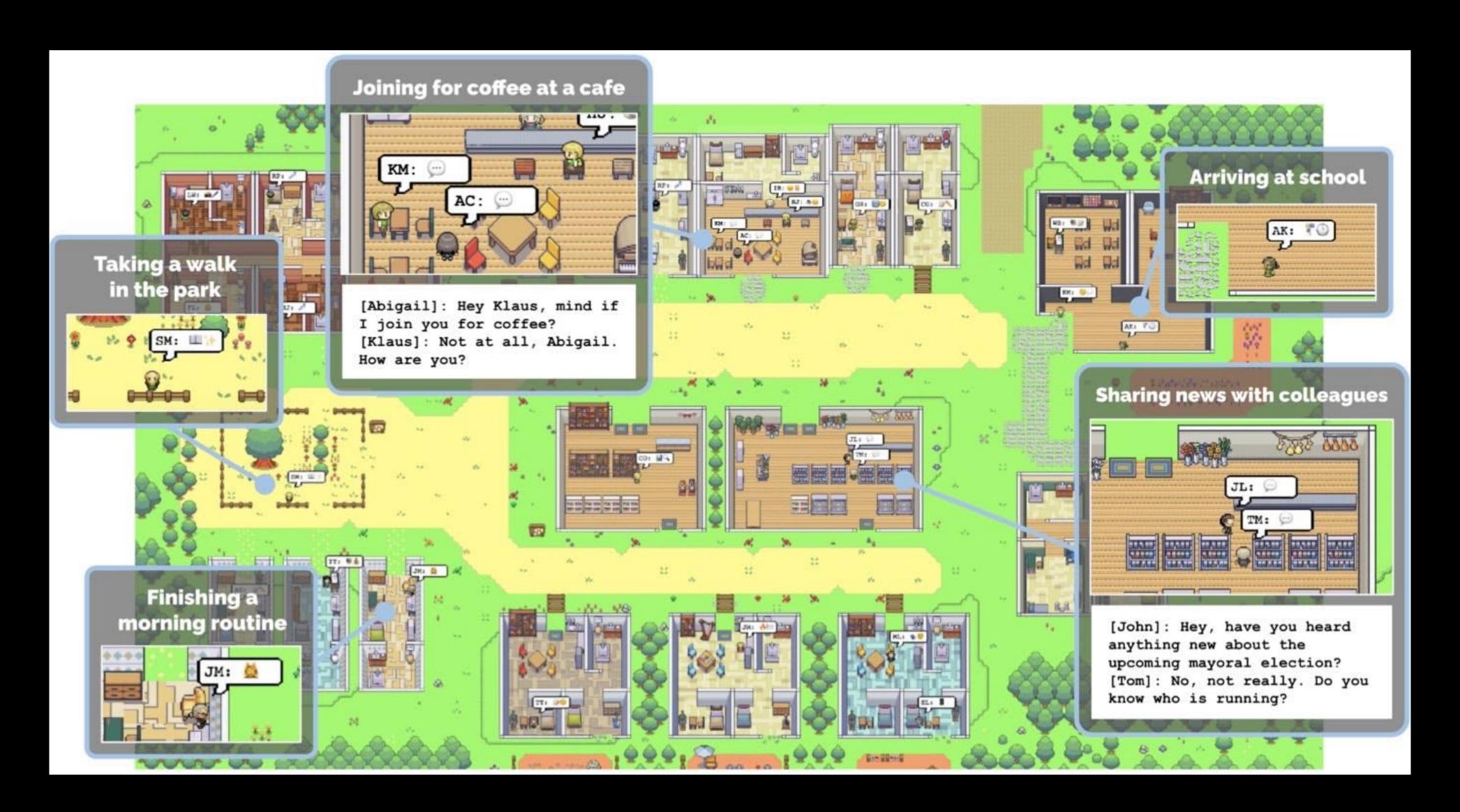


Illustration of "Generative Agents"

https://reverie.herokuapp.com/arXiv Demo/

To Infinity and Beyond: SHOW-1 and Showrunner Agents in Multi-Agent Simulations

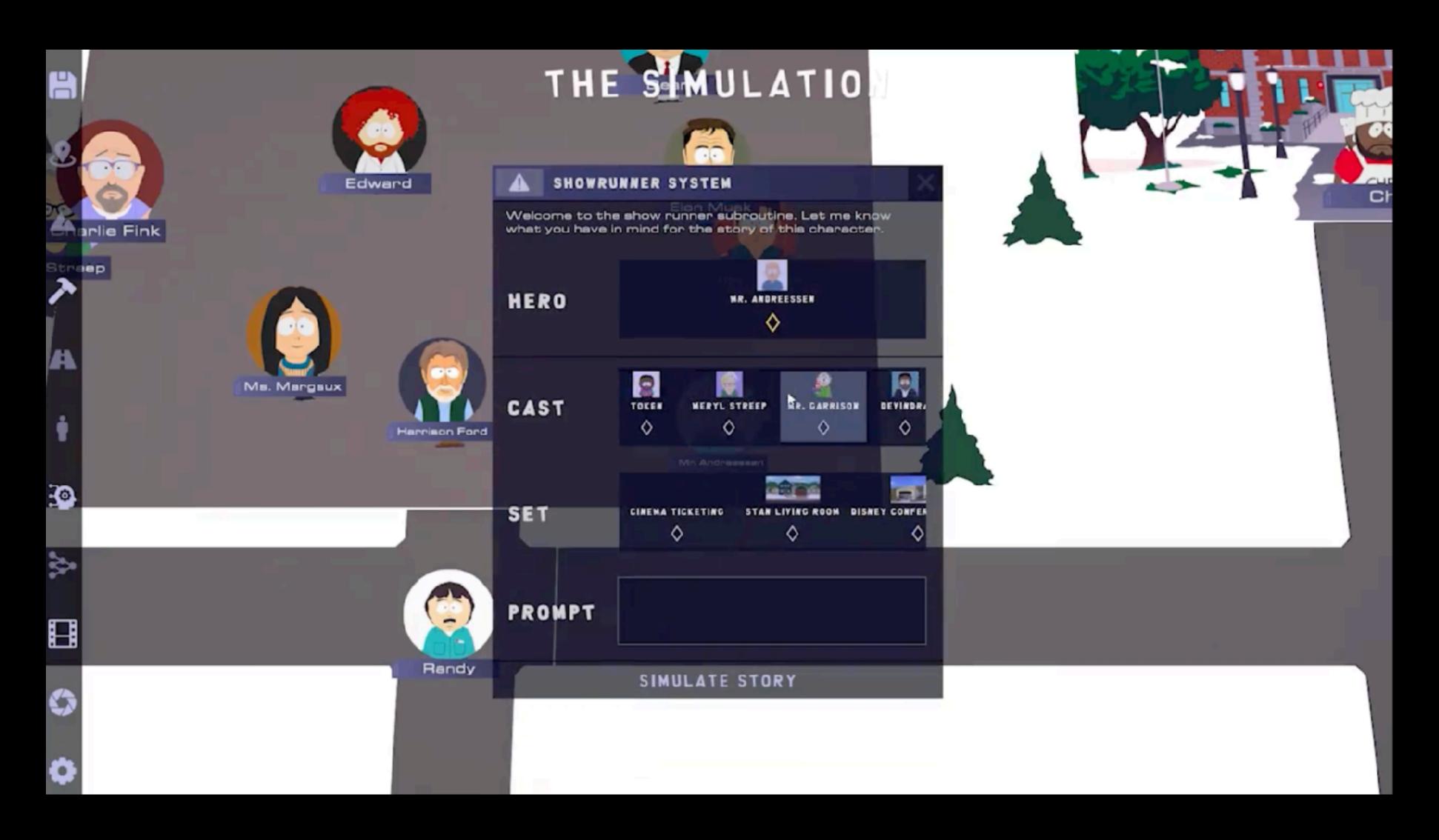
Philipp Maas Fable Studio Frank Carey Fable Studio Chris Wheeler Fable Studio

Edward Saatchi Fable Studio Pete Billington Fable Studio Jessica Yaffa Shamash Fable Studio



Abstract

In this work we present our approach to generating high-quality episodic content for IP's (Intellectual Property) using large language models (LLMs), custom state-of-



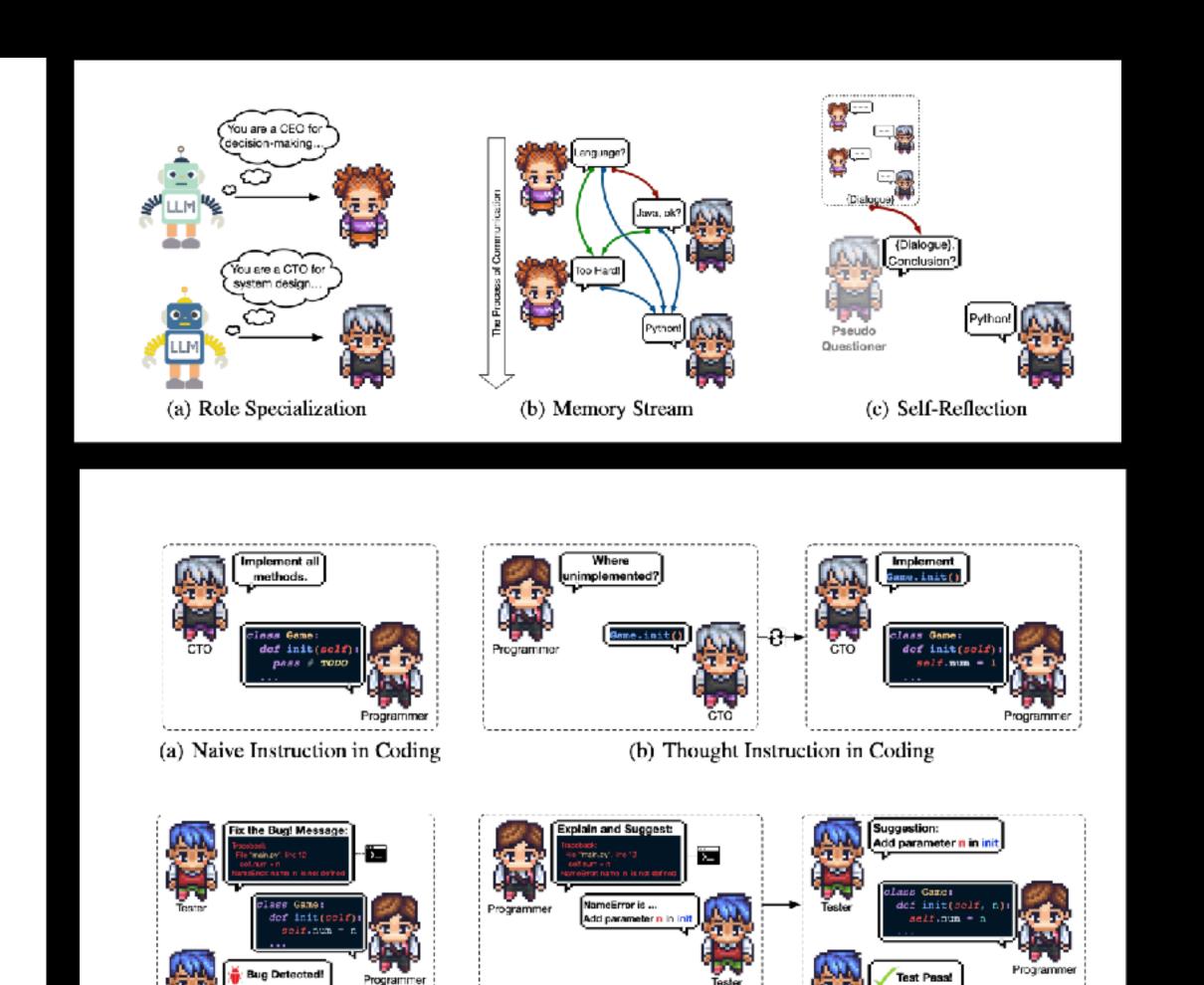
"The Simulation" - SouthPark - https://twitter.com/fablesimulation/status/
1681352904152850437?lang=en

Communicative Agents for Software Development

Chen Qian Xin Cong Wei Liu Cheng Yang Weize Chen Yusheng Su Yufan Dang Jiahao Li Juyuan Xu Dahai Li Zhiyuan Liu Maosong Sun Tsinghua University Beijing University of Posts and Telecommunications
Dalian University of Technology Brown University Modelbest Inc.

qianc62@gmail.com liuzy@tsinghua.edu.cn sms@tsinghua.edu.cn



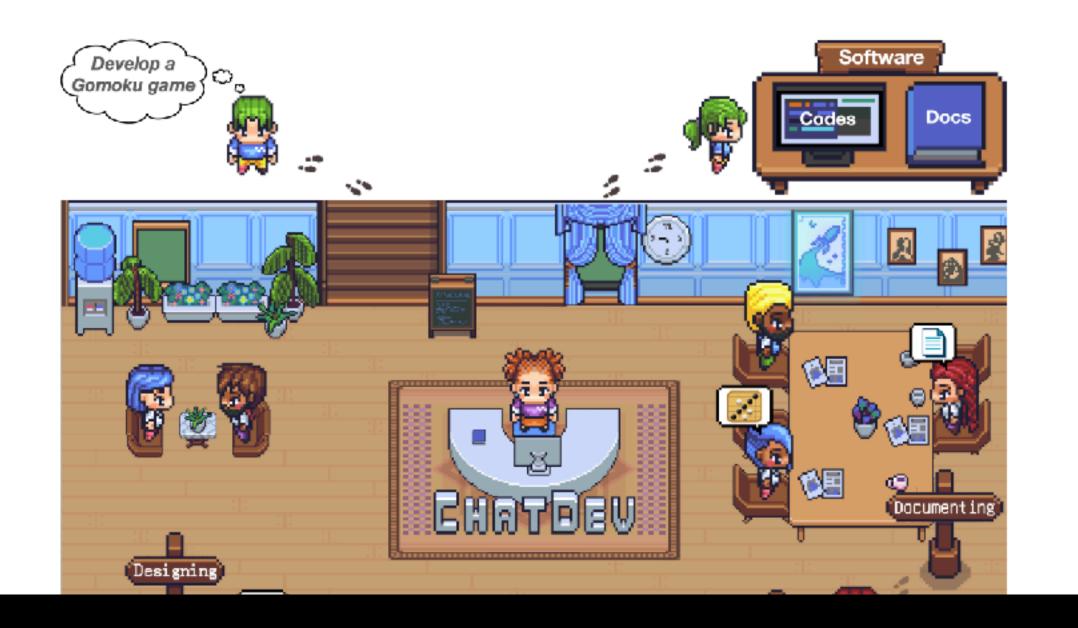


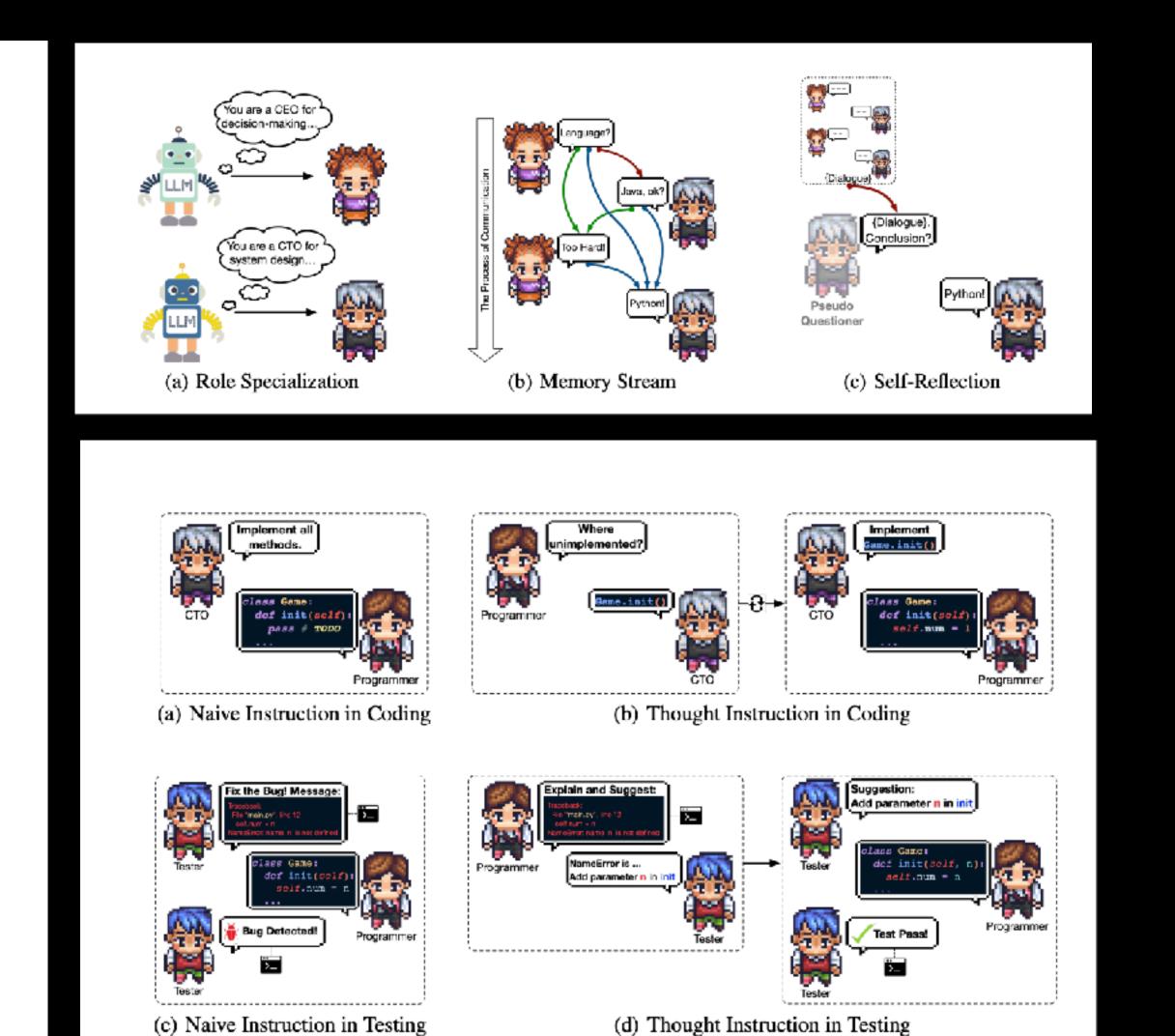
https://arxiv.org/pdf/2307.07924v3.pdf

(c) Naive Instruction in Testing

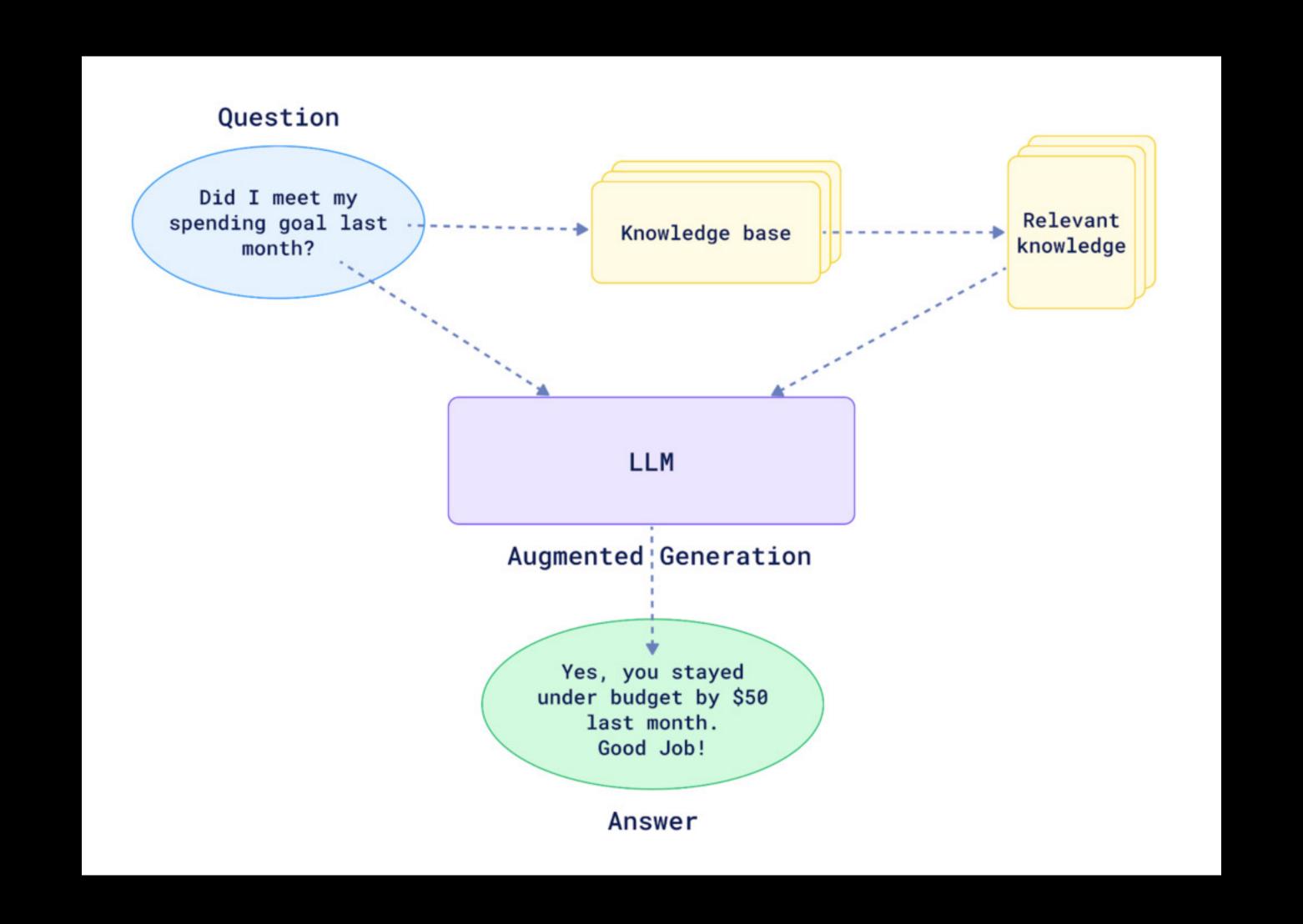
(d) Thought Instruction in Testing

Communicative Agents for Software Development

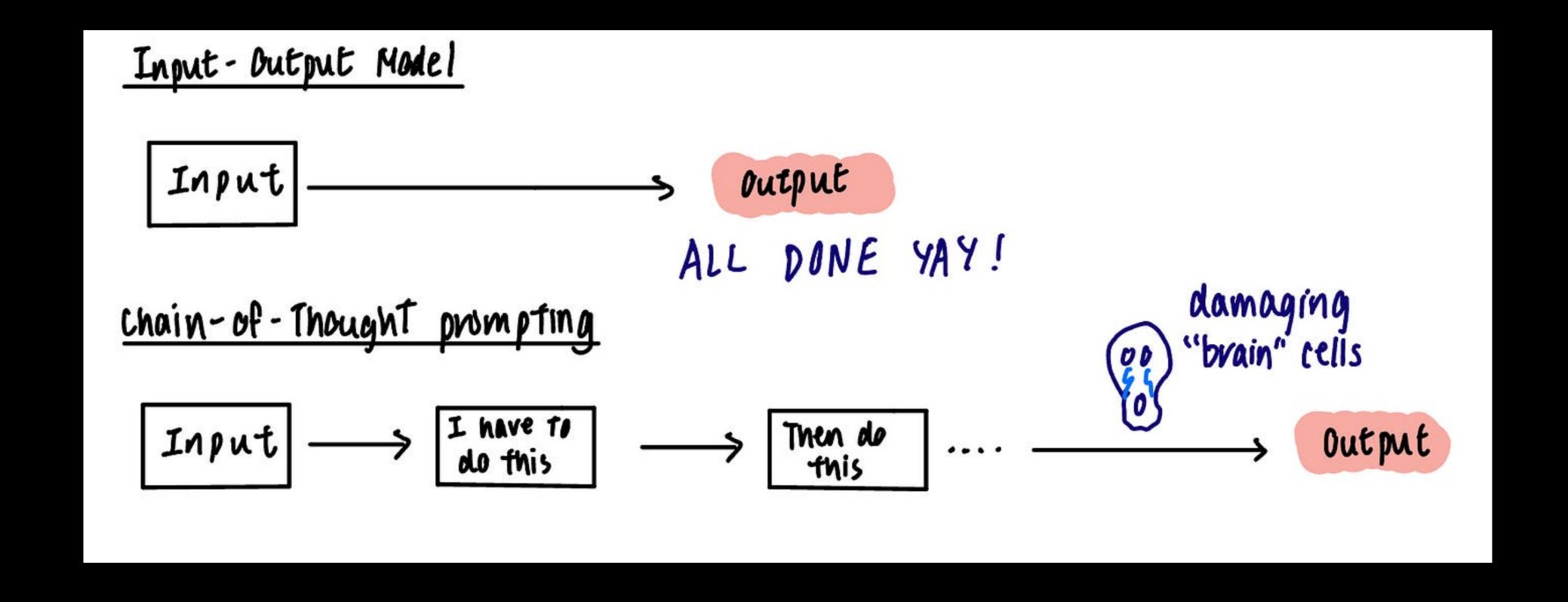




https://arxiv.org/pdf/2307.07924v3.pdf



https://qdrant.tech/articles/what-is-rag-in-ai/



https://medium.com/@s181051_44724/cot-prompting-solving-math-like-a-pro-with-llm-e6ef7e121b63

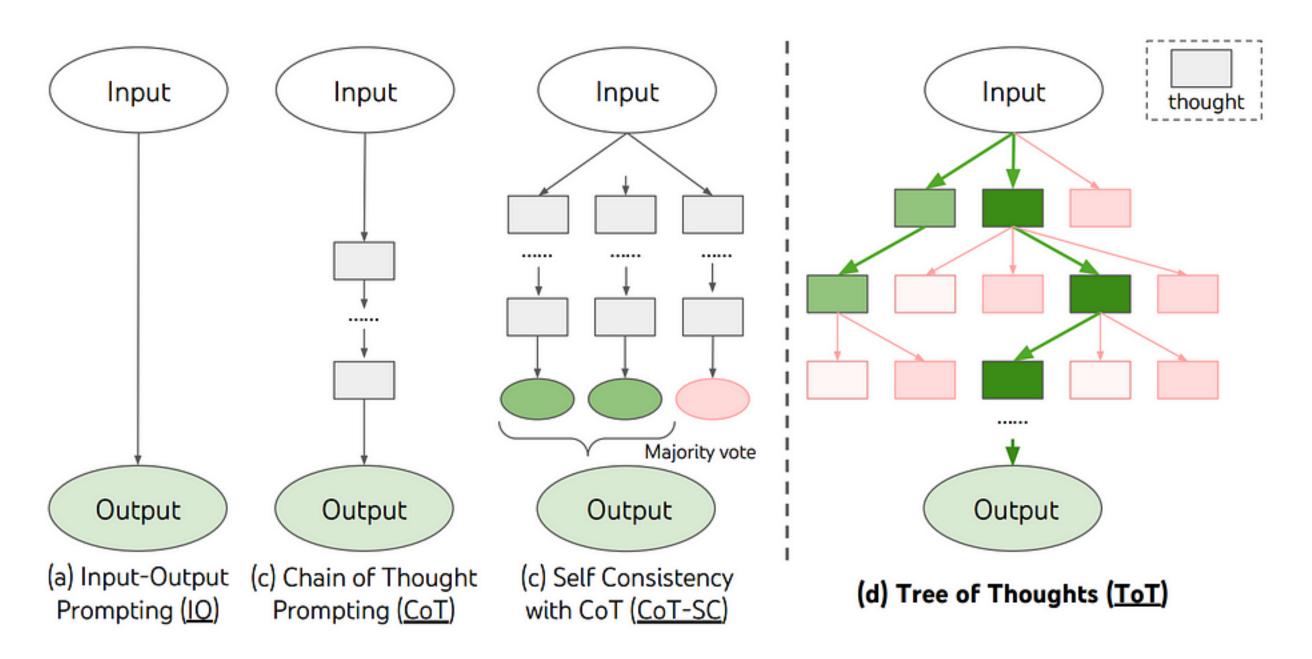


Figure 1: Schematic illustrating various approaches to problem solving with LLMs. Each rectangle box represents a *thought*, which is a coherent language sequence that serves as an intermediate step toward problem solving. See concrete examples of how thoughts are generated, evaluated, and searched in Figures 2,4,6.

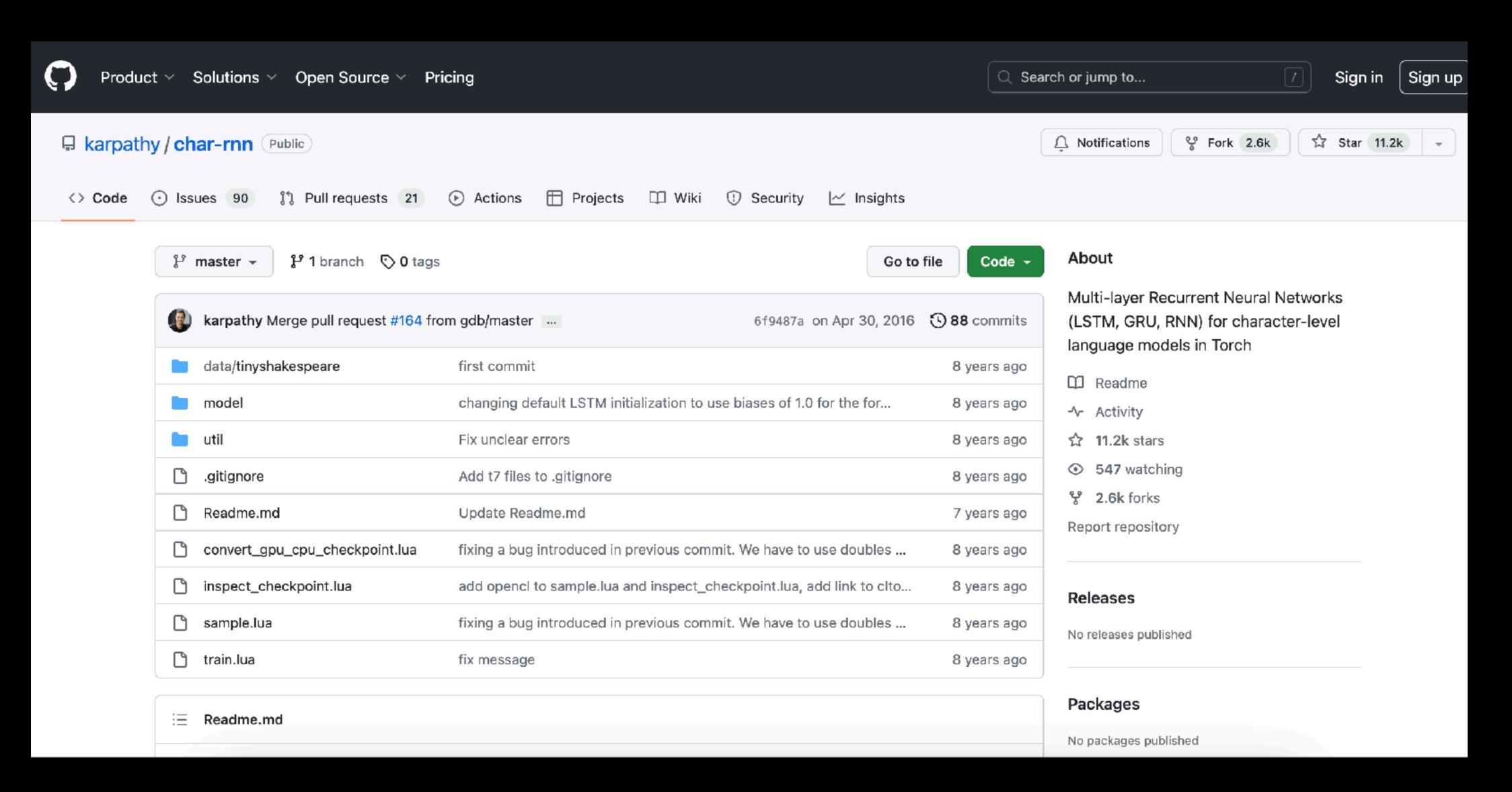
Prompting as Algorithmic Design

Multimodality: Beyond Text

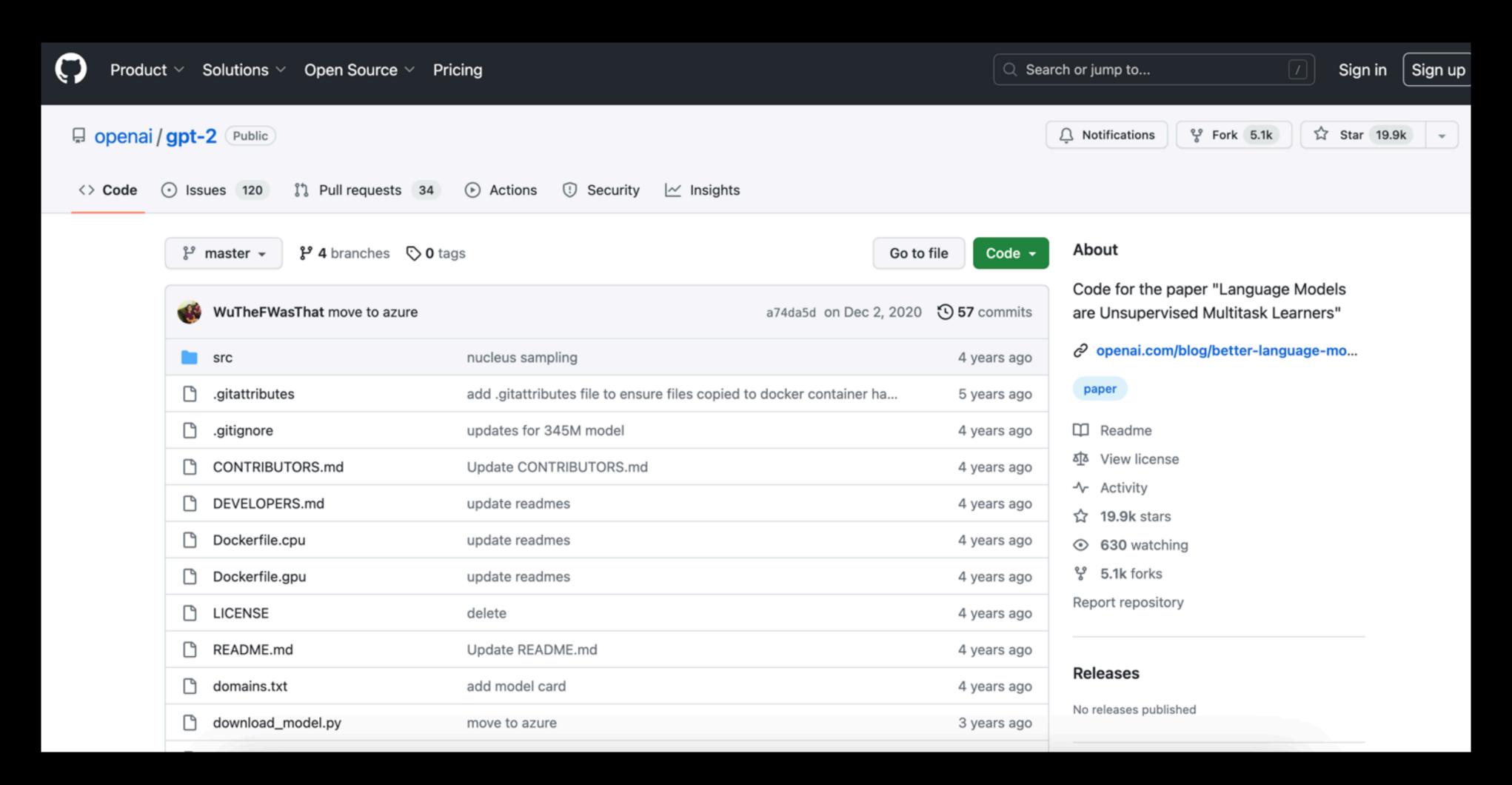
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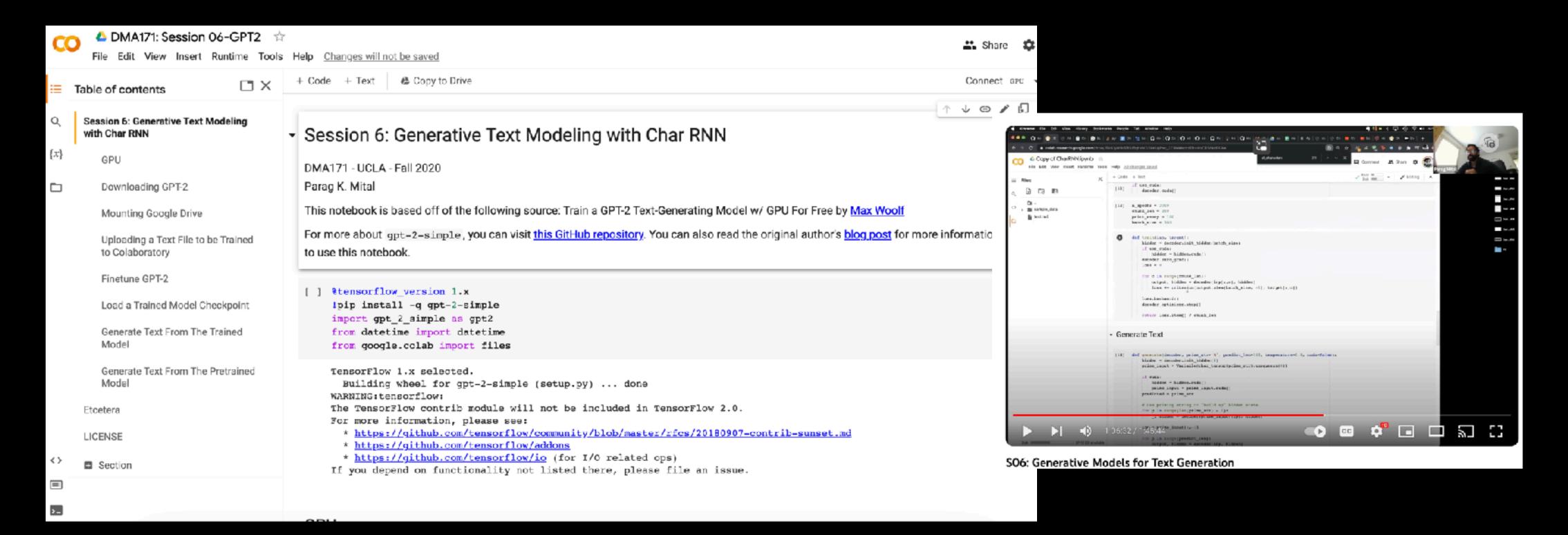
MODELS & TOOLS FOR CREATORS



https://github.com/karpathy/char-rnn



https://github.com/openai/gpt-2



<u>https://colab.research.google.com/drive/</u> 1ppqdl1UDoslp S7MDo6nF9QuODDwi0J $\frac{https://www.youtube.com/watch?}{v=sD7eqm4M20s&t=3991s}$



https://chat.openai.com/

Fine-tuning

Learn how to customize a model for your application.

Introduction

This guide is intended for users of the new OpenAl fine-tuning API. If you are a legacy fine-tuning user, please refer to our legacy fine-tuning guide.

Fine-tuning lets you get more out of the models available through the API by providing:

- 1 Higher quality results than prompting
- Ability to train on more examples than can fit in a prompt
- 3 Token savings due to shorter prompts
- 4 Lower latency requests

GPT models have been pre-trained on a vast amount of text. To use the models effectively, we include instructions and sometimes several examples in a prompt. Using demonstrations to show how to perform a task is often called "few-shot learning."

Fine-tuning improves on few-shot learning by training on many more examples than can fit in the prompt, letting you achieve better results on a wide number of tasks. **Once a model has been fine-tuned, you won't need to provide as many examples in the prompt.** This saves costs and enables lower-latency requests.

https://platform.openai.com/docs/guides/
fine-tuning

Chat completions API

Chat models take a list of messages as input and return a model-generated message as output. Although the chat format is designed to make multi-turn conversations easy, it's just as useful for single-turn tasks without any conversation.

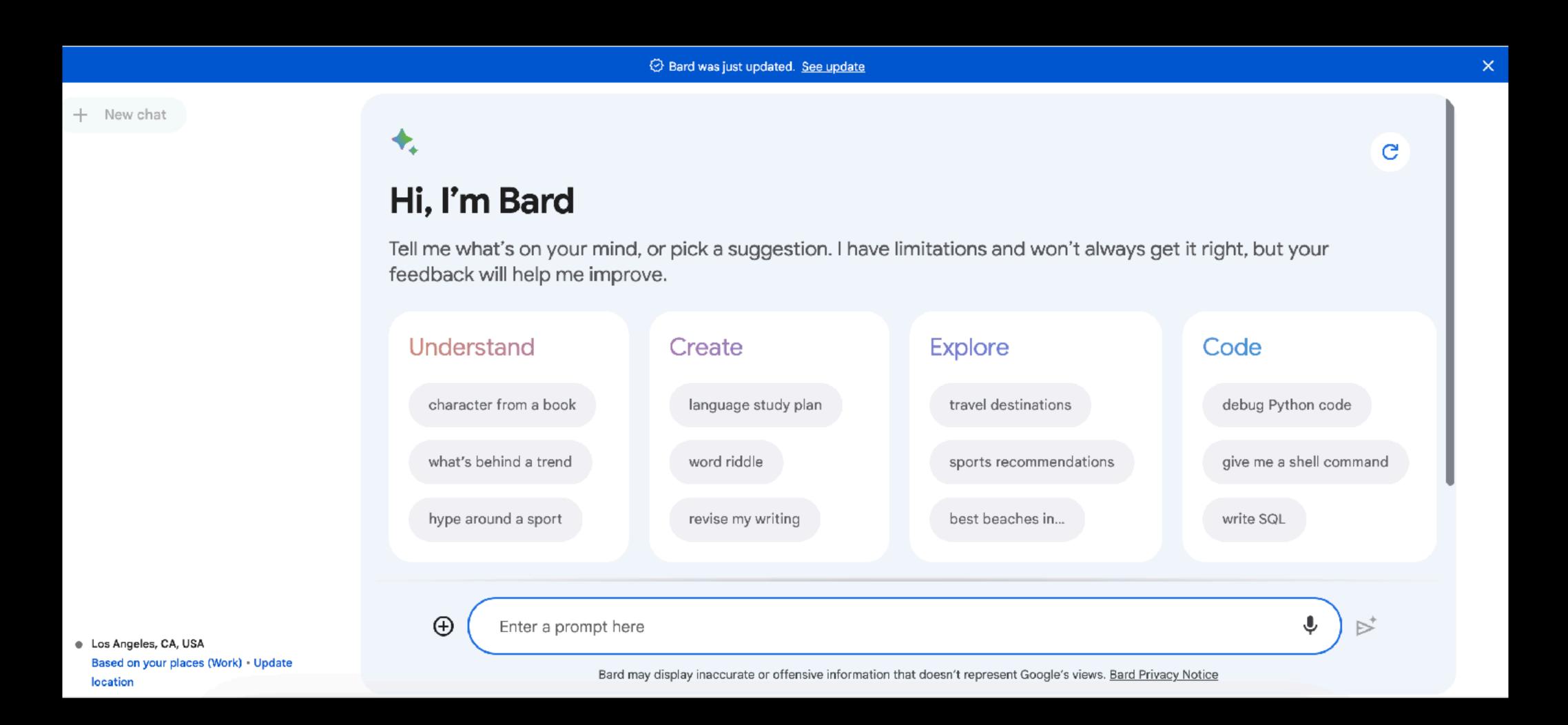
An example Chat completions API call looks like the following:

To learn more, you can view the full API reference documentation for the Chat API.

The main input is the messages parameter. Messages must be an array of message objects, where each object has a role (either "system", "user", or "assistant") and content. Conversations can be as short as one message or many back and forth turns.

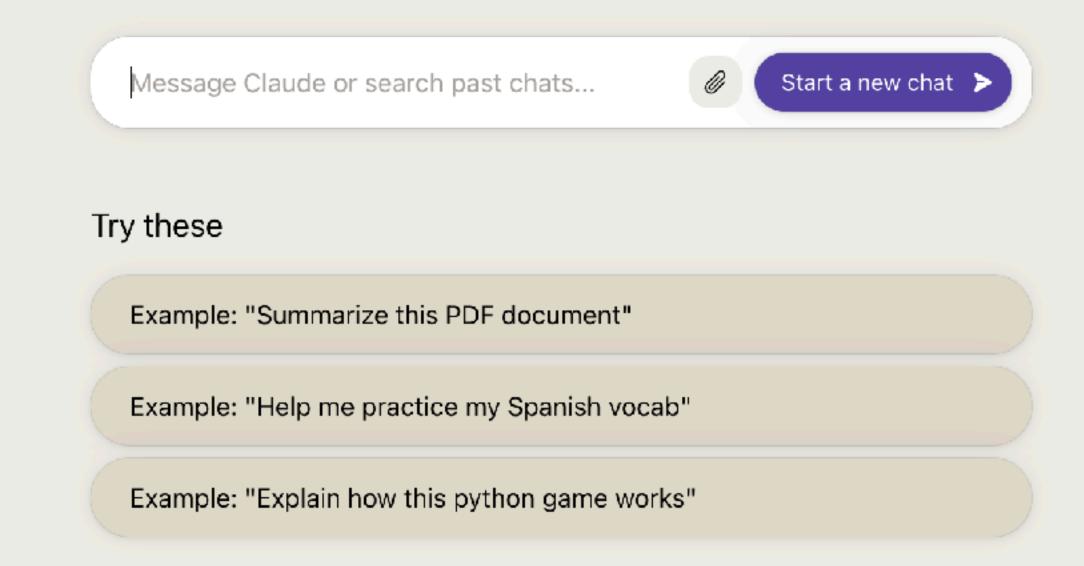
Typically, a conversation is formatted with a system message first, followed by alternating user and assistant messages.

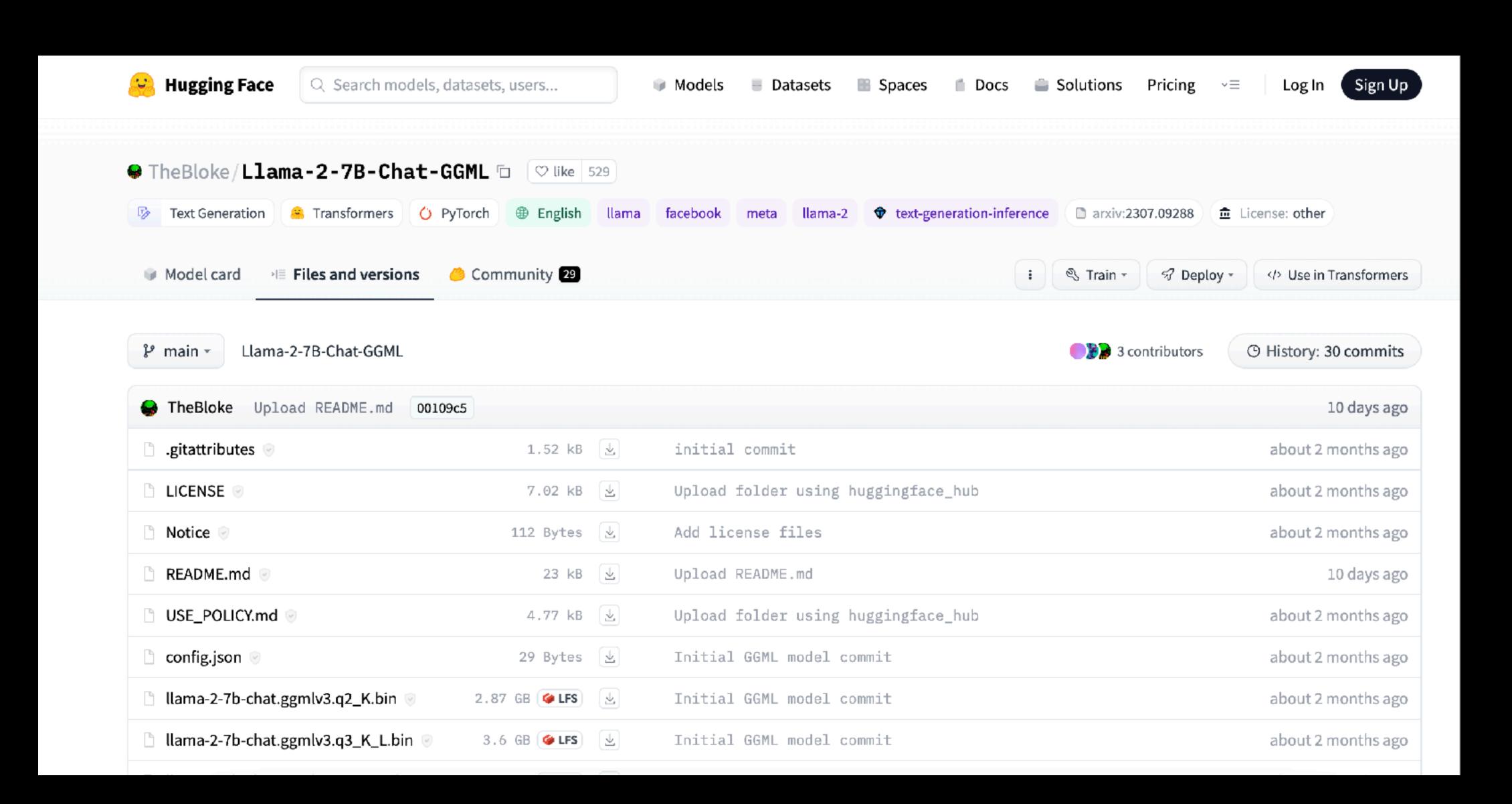
<u>https://platform.openai.com/docs/guides/gpt/</u> <u>chat-completions-api</u>

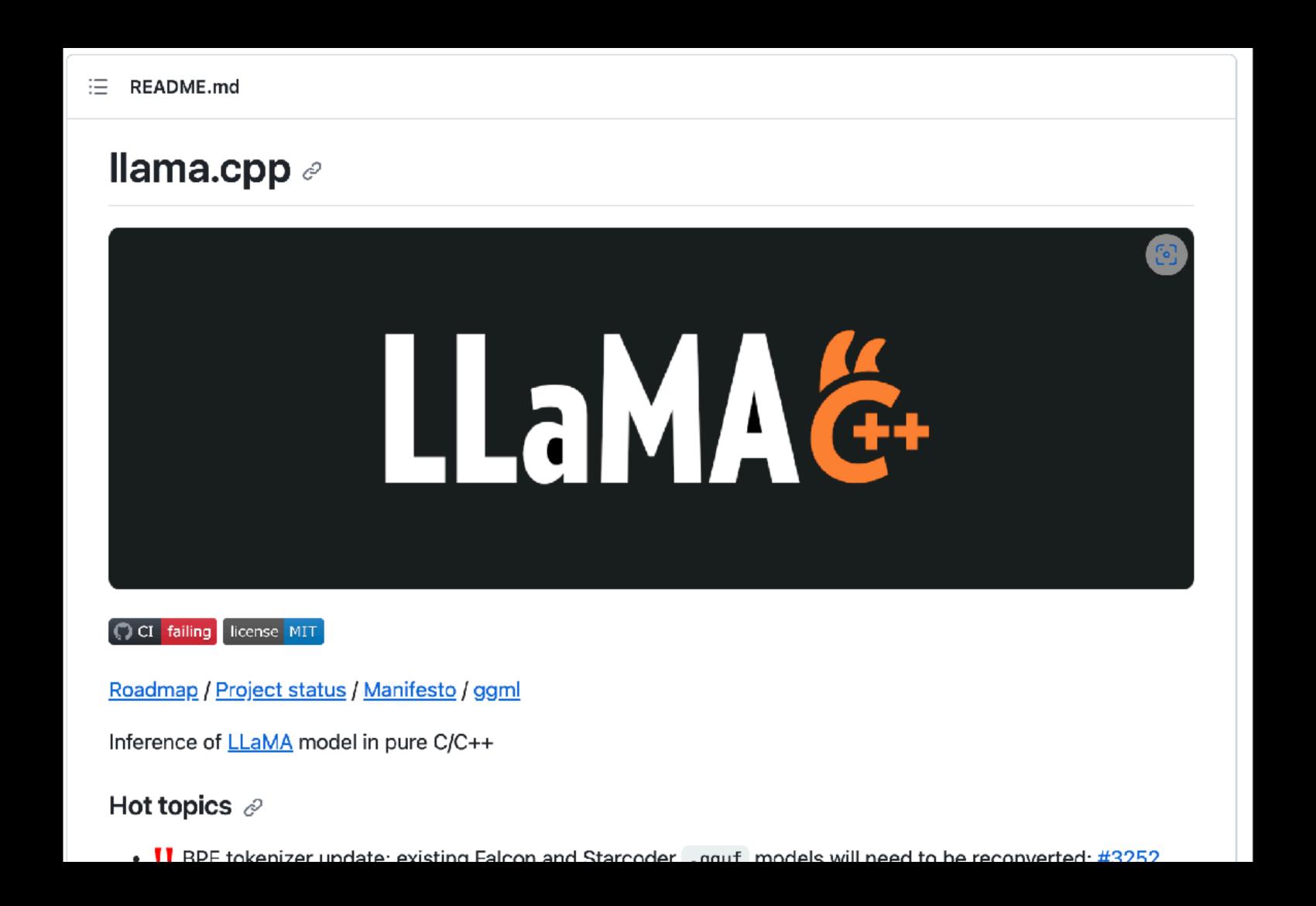


https://bard.google.com/

Meet Claude



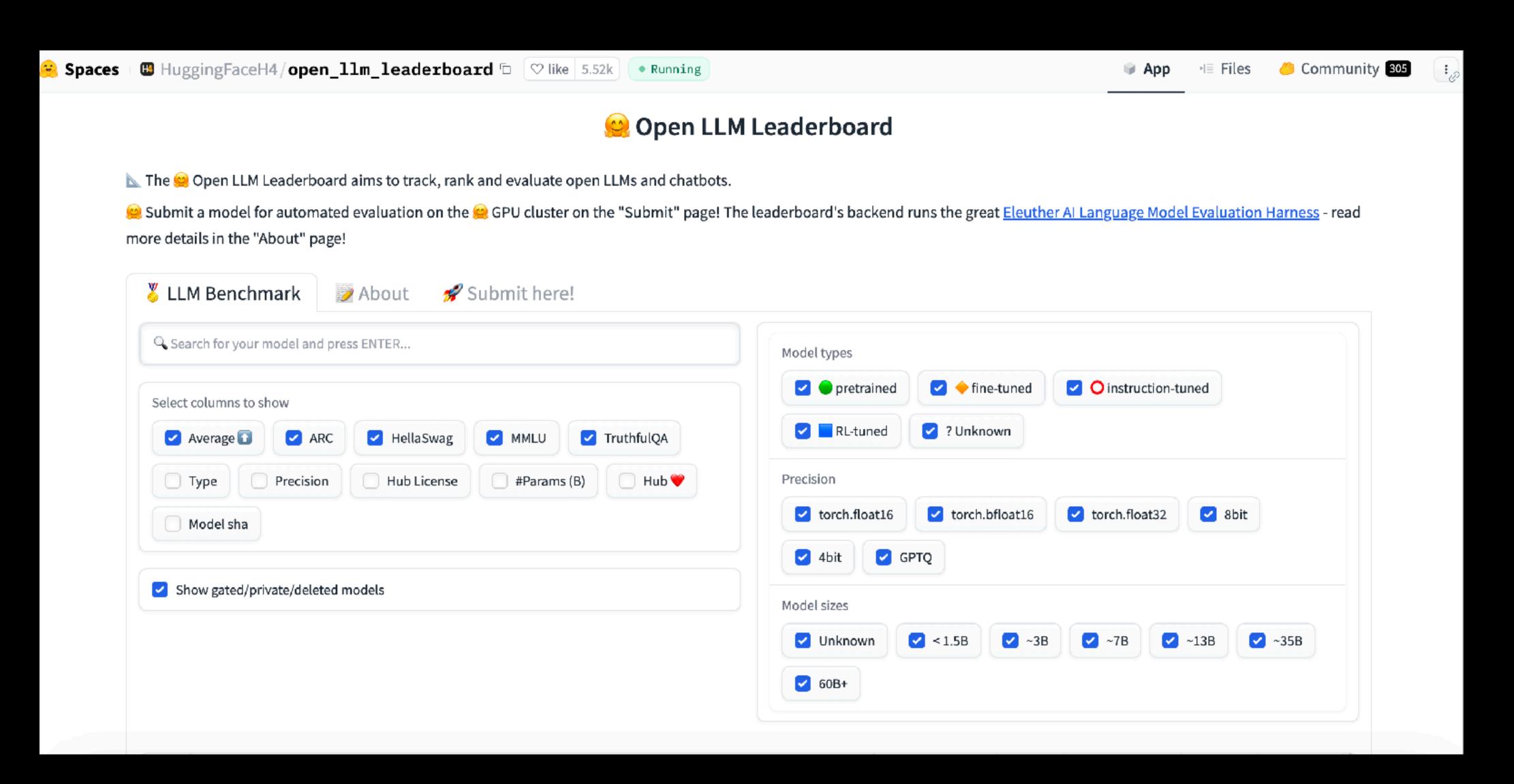




https://github.com/ggerganov/llama.cpp

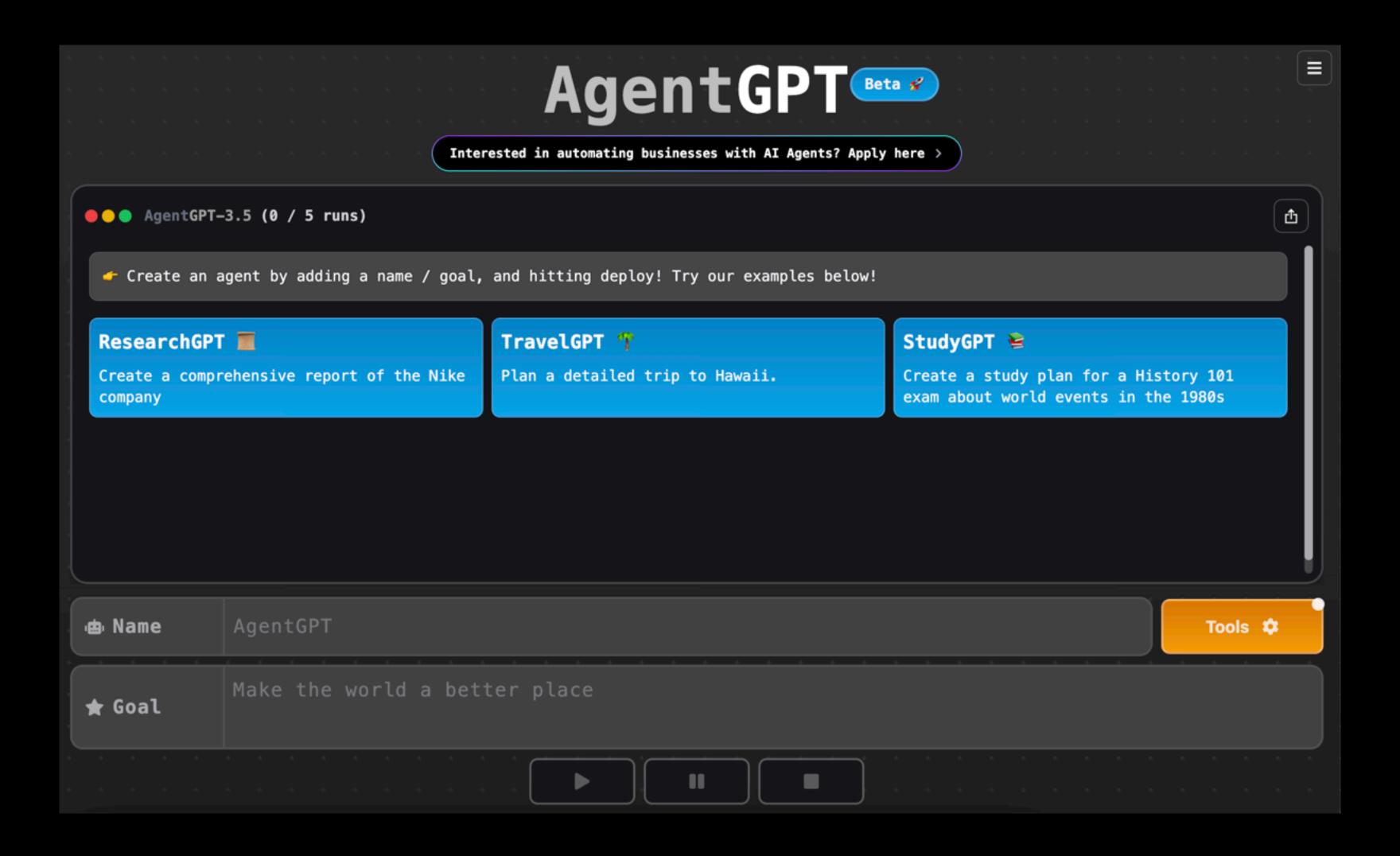
🦙 Chat with Llama 2 70B Customize Llama's personality by clicking the settings button. I can explain concepts, write poems and code, solve logic puzzles, or even name your pets. Send me a message. Send a message Chat

https://www.llama2.ai/

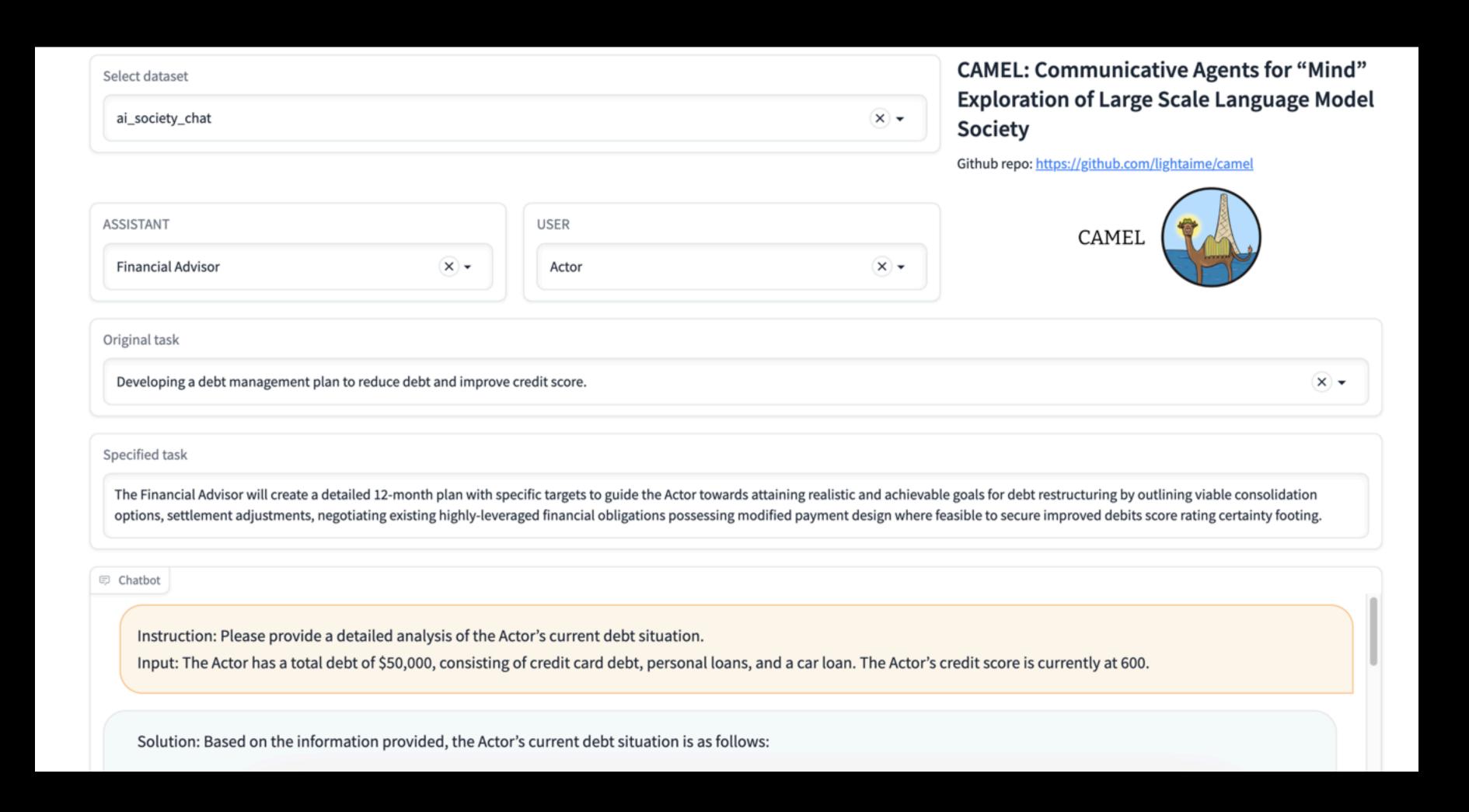


https://huggingface.co/spaces/HuggingFaceH4/open llm leaderboard

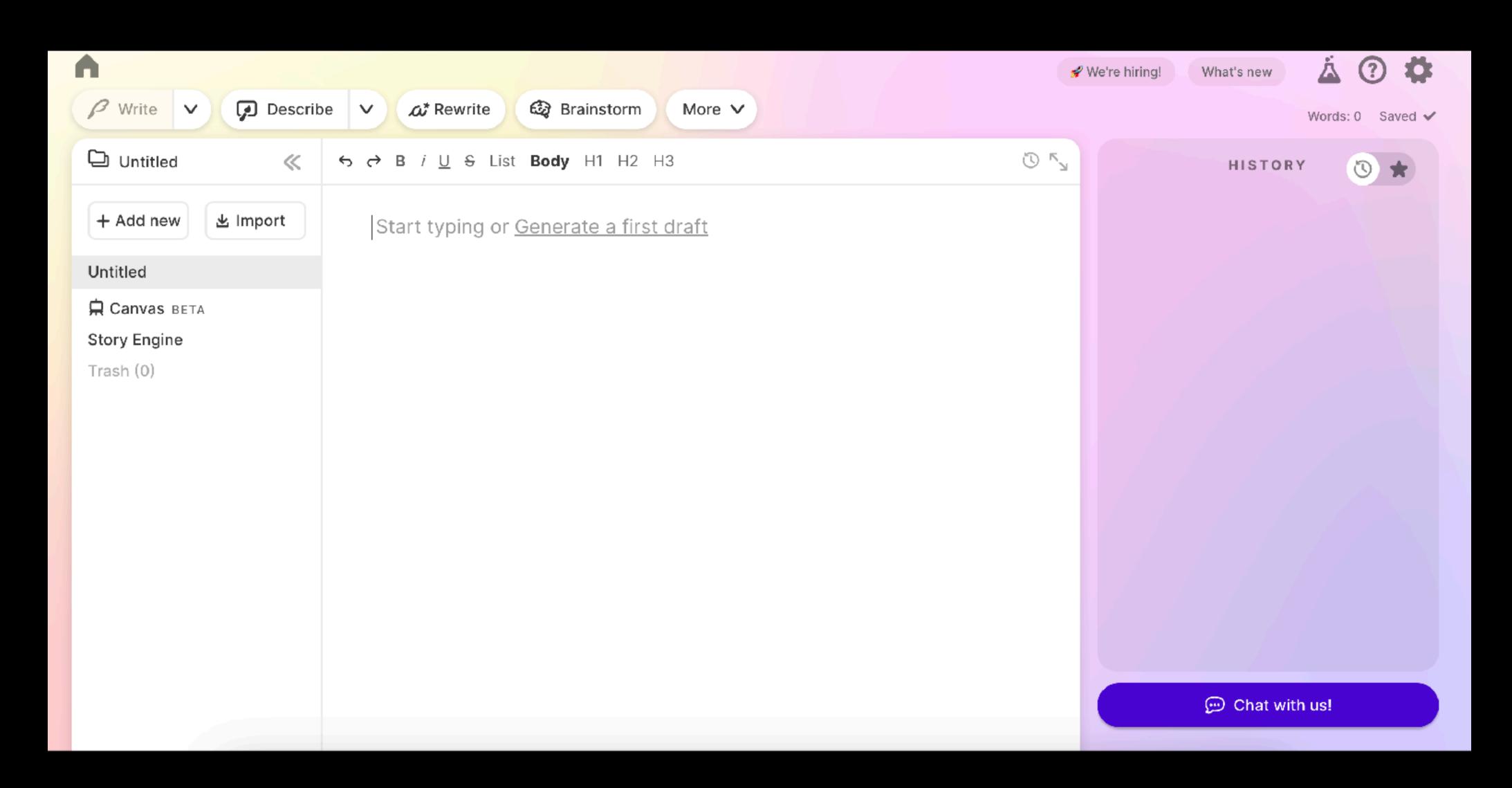
Feature	Google Gemini 1.5/2.5 Pro	Anthropic Claude 3 / 3.5 / 3.7	Meta Llama 3.1
Key Model(s)	1.5 Pro (API/Adv.), 2.5 Pro (Exp. Adv.)	Sonnet (3/3.5/3.7), Opus (3)	8B, 70B, 405B
Max Context (Tokens)	~1M - 2M	~200k	~128k
Multimodality?	Yes (Text, Image, Audio, Video)	Yes (Text, Image)	Primarily Text (Vision planned)
Access	Web UI (Free/Adv.), API	Web UI, API	Download, API Providers, Web UI
Open Source?	No	No	Yes
Key Creative Strengths	Massive context, Native multimodality, Research assistance (2.5 Pro)	Strong reasoning & writing, Safety focus, Balanced options (Haiku/Sonnet/Opus)	Local control, Customization, Cost- effective (no API fees for local), High performance (70B/405B)
Potential Use Cases	Long-form analysis/generation (text/ video/audio), Multimodal projects, In- depth research	Complex creative writing, Dialogue generation, Code generation, Ethical Al exploration	Local experimentation, Fine-tuning on custom data, Building custom tools/apps, Offline work



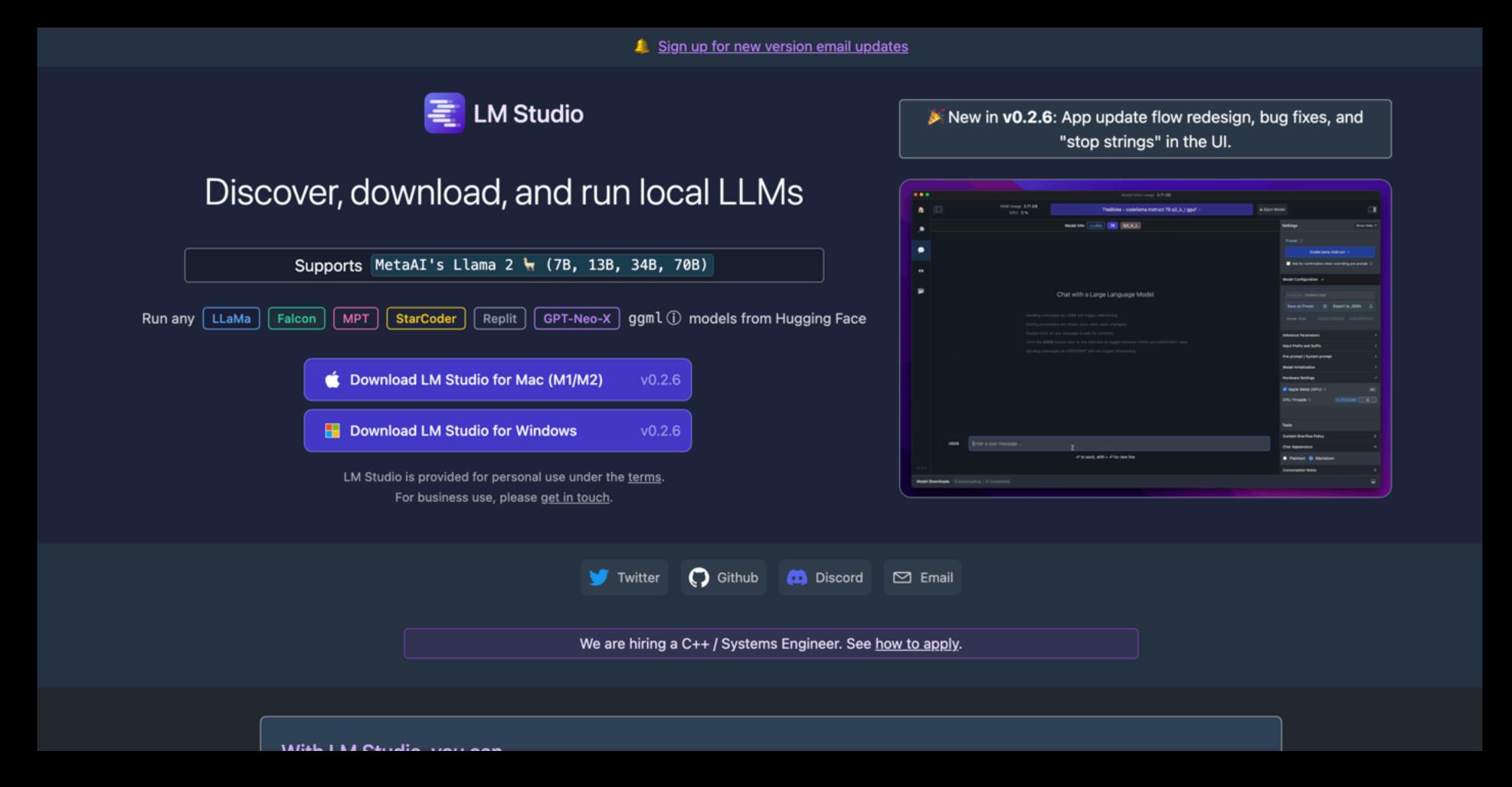
https://agentgpt.reworkd.ai/



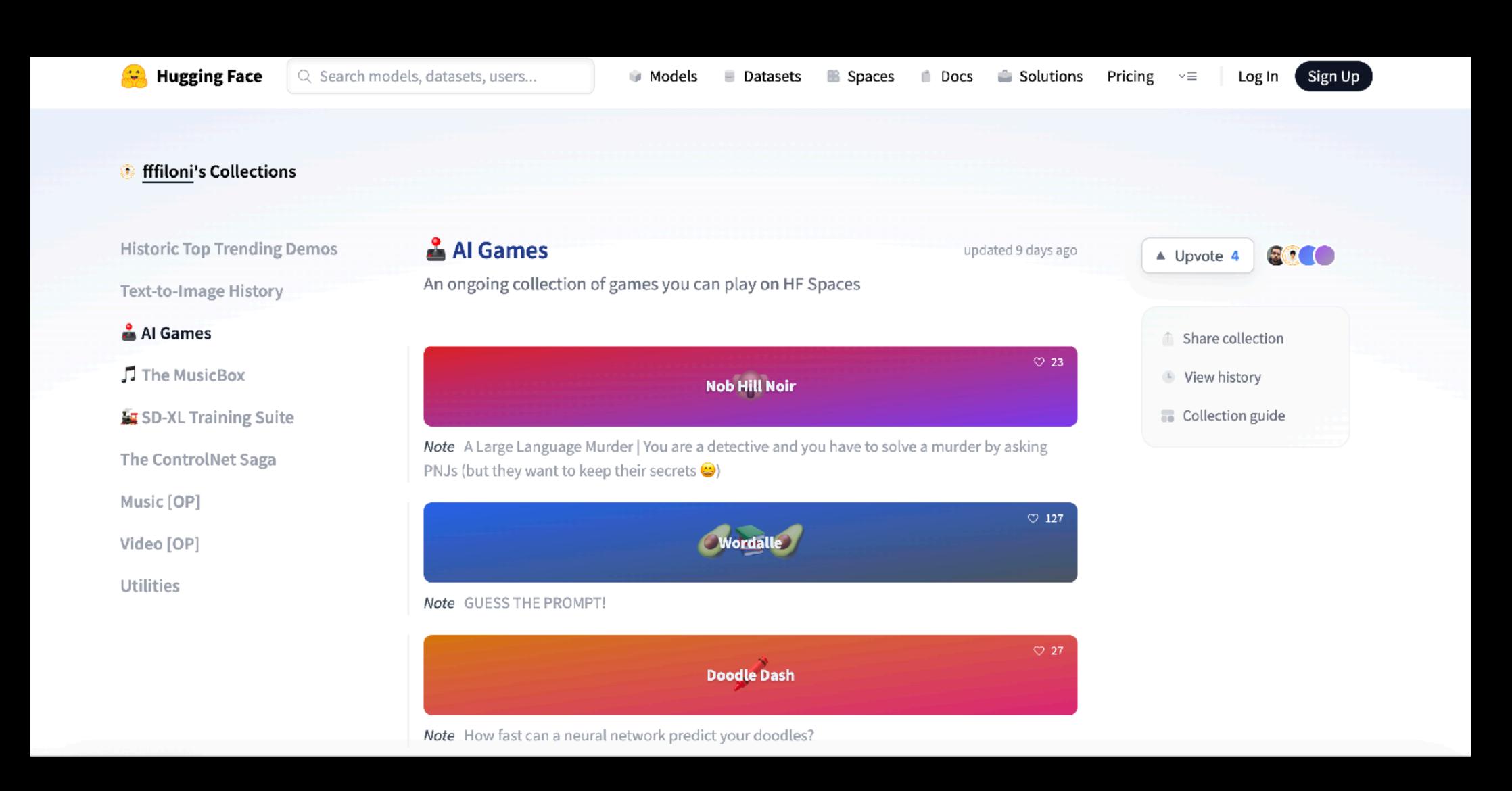
http://data.camel-ai.org/



https://www.sudowrite.com/



https://lmstudio.ai/



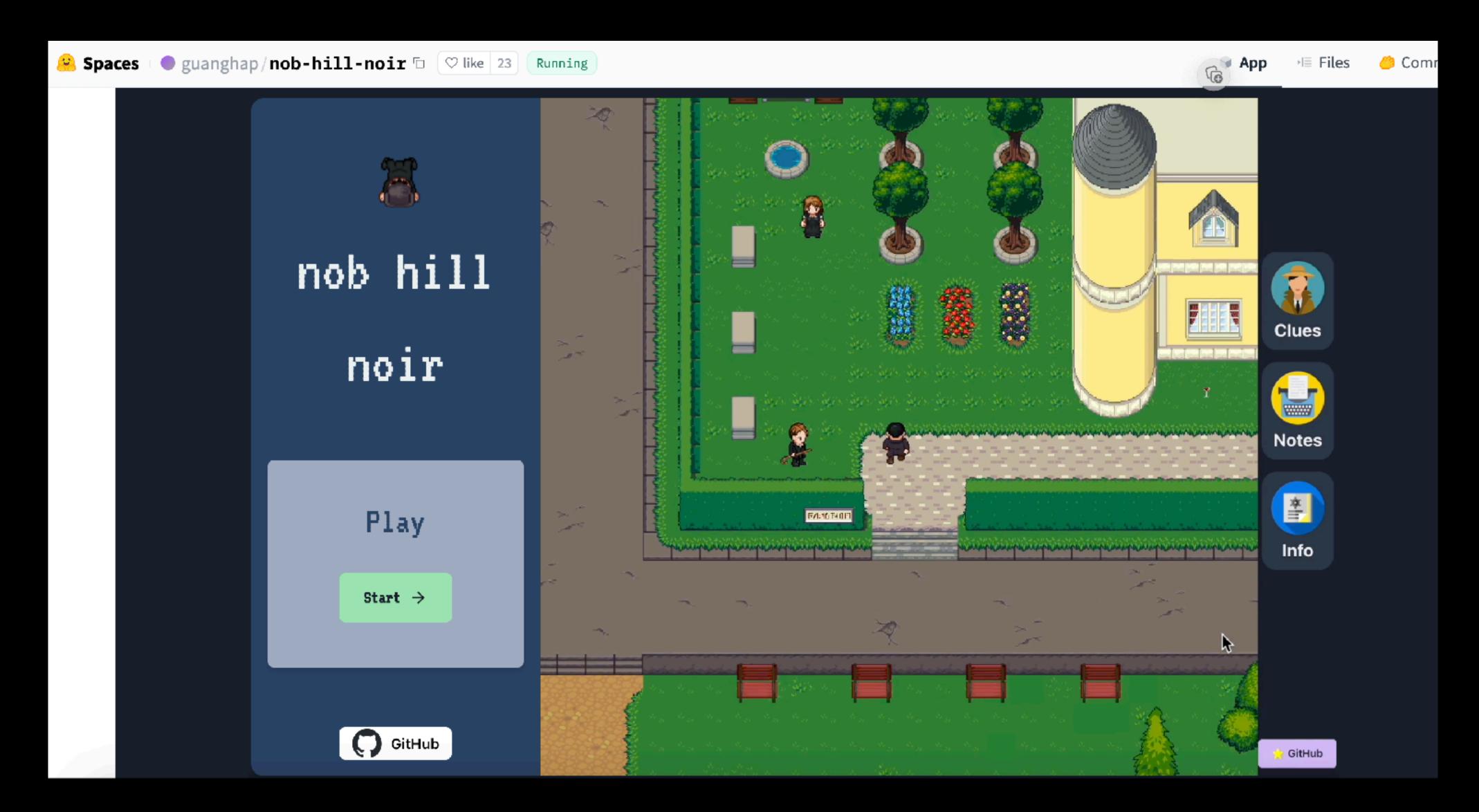
https://huggingface.co/collections/fffiloni/ai-games-64fda15e0e486522f868432d

Generative Agents: Interactive Simulacra of Human **Behavior** *∂*



This repository accompanies our research paper titled "Generative Agents: Interactive Simulacra of Human Behavior." It contains our core simulation module for generative agents—computational agents that simulate believable human behaviors—and their game environment. Below, we document the steps for setting up the simulation environment on your local machine and for replaying the simulation as a demo animation.

https://github.com/a16z-infra/ai-town



https://huggingface.co/spaces/guanghap/nob-hill-noir

Further Approaches

- Text generation: These tools use AI algorithms, including GPT-3 and Transformer models, to generate high-quality text content such as articles, blog posts, and social media updates. Popular examples include Copy.ai, Jarvis.ai, and Qordoba.
- **Text summarization:** These tools use AI to summarize long-form content into shorter, more readable formats. Popular examples include SummarizeBot, SMMRY, and TextTeaser.
- Language translation: These tools use Al algorithms to translate text content from one language to another. Popular examples include Google Translate, DeepL, and Microsoft Translator.
- Copy.ai: An Al-powered tool that generates product descriptions, copywriting, blog posts, and much more
- **Wordsmith:** A tool that uses Al to generate written reports in a variety of styles and formats, as well as personalized email or letter copy
- Quillbot: A tool that uses Al to reword and simplify text to make it easier to read and understand
- Jarvis.ai: A one-stop-shop for content creation that uses Al to generate several types of content like blogs, articles, and social media posts

Further Reading

- https://blog.langchain.dev/agents-round/ "Autonomous Agents & Agent Simulations"
- https://towardsdatascience.com/4-autonomous-ai-agents-you-need-to-know-d612a643fa92 "4 Autonomous Al Agents you need to know"
- https://ai4comm.media.mit.edu/?utm_source=substack&utm_medium=email
- https://fablestudio.github.io/showrunner-agents/static/pdfs/
 To Infinity and Beyond SHOW-1 And Showrunner Agents in Multi Agent Simulati
 ons.pdf South Park Simulator

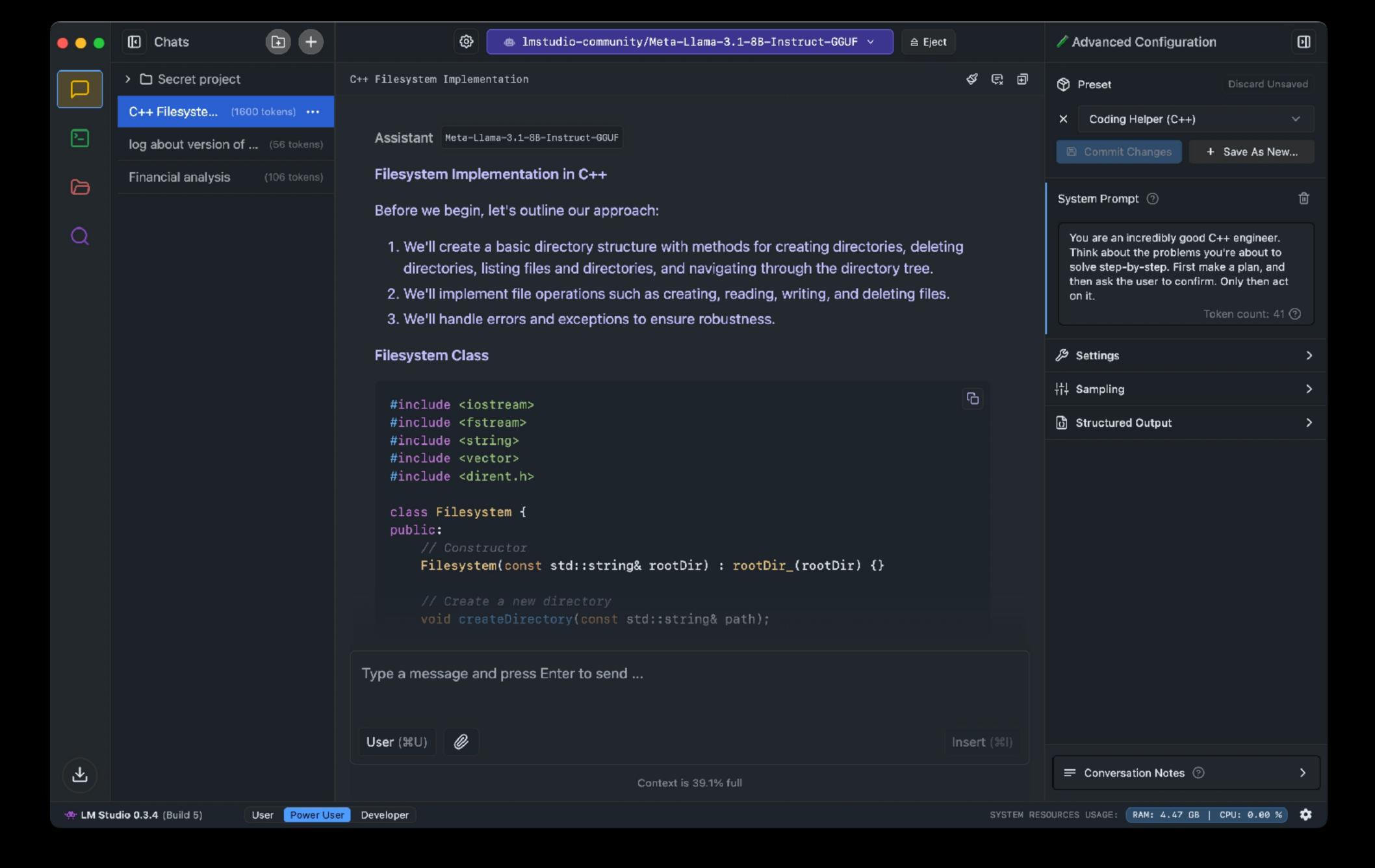
More Resources / Advanced Text Generation

- https://huggingface.co/spaces/HuggingFaceH4/open_Ilm_leaderboard Hugging Face LLM Leaderboard
- https://huggingface.co/Salesforce/xgen-7b-8k-base? <u>ref=blog.salesforceairesearch.com</u> XGen from SalesForce
- https://huggingface.co/spaces/julien-c/nllb-translation-in-browser

Outline:

- Historical Roots: Chance, Systems, Early AI
- Evolution: Interactive Fiction to Early Neural Nets
- Contemporary Artistic Practices
- Future Trajectories: Agents, Reasoning, Multimodality
- Models & Tools for Creators
- Lab: Hands-on with Local LLMs

LAB: HANDS-ON WITH LOCAL LLMS



HOMEWORK

Homework

- Explore the use of text generation
- Create an artwork, story, script, idea, essay, etc.. related to your interests / topic for the course
- This work should be able to be presented as a standalone project, but should ideally contribute towards the development of your final project
- Ideally build on the world you pitched last week, and towards development of your final project
- Presentation format is open to student preference, but must be <u>limited to 5 minutes</u> to allow time for feedback from crit advisors