

Libraries, Collections as Data, and AI

Thomas Padilla



collections as data?







Feeding America

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P R E F A C E.

AS this treatise is calculated for the improvement of the rising generation of *Females* in America, the Lady of fashion and fortune will not be displeased, if many hints are suggested for the more general and universal knowledge of those females in this country, who by the loss of their parents, or other unfortunate circumstances, are reduced to the necessity of going into families in the line of domestics, or taking refuge with their friends or relations, and doing those things which are really essential to the perfecting them as good wives, and

```
<recipe class1="soups" ethnicgroup="creole" region="south" occasion="other"><p><purpose align="center"
size="smaller" placement="heading">SOUPE MAIGRE, WITHOUT MEAT, FOR LENT</purpose>
```


```
Melt half a pound of <ingredient>butter</ingredient> in a <implement>stewpan,</implement> put in six <
ingredient>onions</ingredient> sliced; add two heads of <ingredient>celery</ingredient> cut small, one-
half a head of <ingredient>white cabbage,</ingredient> and a bunch of chopped <ingredient>parsley;</
ingredient> let them boil twenty minutes, then stir in three rolled <ingredient>crackers;</ingredient>
pour in two quarts of boiling <ingredient>milk,</ingredient> or <ingredient>milk</ingredient> and <
ingredient>water;</ingredient> let this boil up gently for half an hour, and just before serving stir in
two well-beaten <ingredient>eggs.</ingredient></p></recipe>
```

Feeding America: The Historic American Cookbook Dataset

View of encoded cookbook text data

```
<recipe class="soups" ethnicgroup="creole" region="south" occasion="other"><p><purpose align="center"
size="smaller" placement="heading">SOUPE MAIGRE, WITHOUT MEAT, FOR LENT</purpose>

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two well-beaten <ingredient>eggs.</ingredient></p></recipe>
```



Download Data

[The Feeding America: The Historic American Cookbook Dataset](https://www.lib.msu.edu/feedingamericadata/)

Description

The Feeding America: The Historic American Cookbook dataset contains transcribed and encoded text from 76 influential American cookbooks held by MSU Libraries Special Collections. Features encoded within the text include but are not limited to recipes, types of recipes, cooking implements, and ingredients. The 76 texts were chosen among more than 7000 cookbooks that MSU Libraries holds as representative of periods and themes in American cookbook history spanning the late 18th to early 20th century.

Preferred Citation

Feeding America: The Historic American Cookbook Dataset. East Lansing: Michigan State University Libraries Special Collections. <https://www.lib.msu.edu/feedingamericadata/>

Example of a 'Memcon' (Meeting Memo)

REPRODUCED AT THE NATIONAL ARCHIVES

Authority WNDP1520
By LGB NARA Date 10/16/02

September 13, 1971

MEMORANDUM FOR: THE PRESIDENT
FROM: HENRY A. KISSINGER
SUBJECT: September 13 meeting with the Chinese Ambassador in Paris

I met with Huang Chen, the Chinese Ambassador in Paris, for almost two hours on September 13 before my other session, primarily to lay the groundwork for your trip to Peking and my interim visit. This meeting, the third that we have had, was once again extremely cordial.

Announcement of Trips

The Ambassador read an oral note from Peking, the full text of which is attached at Tab A. In response to our messages of August 16 and September 1 the Chinese made the following points:

-- They propose a four-day visit to Peking to make concrete arrangements for your trip. This should begin on October 20 (Peking time). I accepted this as it matched our proposals for length and timing.

-- The Chinese proposed announcing my visit on October 14. I made clear why we had suggested September 21 or 22: in addition to making the necessary arrangements for my travel, we preferred to announce my trip before Gromyko came to the U.S. on his annual visit to the UN. I explained that we did not want our announcement with the Chinese to look like a reaction to Gromyko's visit, during which the Soviets might well pin down your trip to Moscow, now that the conditions for it have been met in various negotiations. I said that I would have to check with you regarding the October 14 date for the announcement and asked them to let us know if they had any different views (i.e. moving it up) as a result of this discussion.

TOP SECRET/SENSITIVE/EXCLUSIVELY EYES ONLY

Example of a 'Telcon' (Telephone Conversation Transcript)

Reproduced from the transcripts
of the Nixon Presidential
Materials Staff

DECLASSIFIED
E.O. 12958, Sect. 3.6

*

By KMLW NARA Date 5/13/04

TELCON
VP Agnew
Mr. Kissinger
4-18-69 3:40 PM

VP said he was appearing on Issues and Answers on Sunday and wondered what kind of responses he should give if Korean question arises. K said he would send him the suggested questions and answers prepared for the President on this. VP said that would help and K said he would get it over this afternoon. VP asked if K would be in office tomorrow and K said yes. VP said he would check with him to see how things are and K said, of course, he would have to know before he appears on Issues and Answers.

From their point of view a late date for the announcement puts it beyond their national day (October 1) and that of the Nationalists (October 10), and cuts down on the period of speculation. They are, of course, unaware of our October 12 announcement. We have complex scheduling problems, and I want to discuss personally with you our response to the proposed date of October 14.

Preparations for Peking Trips

In order to get the Chinese to do advance thinking, to pave the way for my trip, and to begin to shape a successful outcome for your trip, I gave the Chinese some technical questions and substantive suggestions.

-- On the technical side, I explained and handed over lists of questions which I had gone over with Bob Helmsman and a few others on the White House Staff. I suggested that my party would number about 10 people, both substantive and technical. I explained the responsibilities of each of the

TOP SECRET/SENSITIVE/EXCLUSIVELY EYES ONLY

Relevance

Sort

Narrow results by

DNSA record type

Document (48)

Date

1969 - 1974 (years)



Update

Enter a specific date range

Document type

Subject

Classification

☐ Select 1-20

0 Selected items

Brief view

Detailed view

☐ 1**Memcon** of Meeting with Matt Meselson and Information as Requested [Includes Attachment]

Preview

United States. National Security Council. Staff. Secret, Information Memorandum. December 17, 1970: 5 pp.

DNSA collection: **Kissinger** Transcripts...**Kissinger** and Matthew Meselson debate use of herbicides and tear gas in Vietnam;[Abstract/Details](#) [Full text - PDF](#) (317 KB)☐ 2**MemCon** of Your July 4 Talk with Thieu [Attachment Not Included]

Preview

United States. National Security Council. Staff. Top Secret, Action Memorandum. August 4, 1971: 3 pp.

DNSA collection: U.S. Policy in the Vietnam War, 1969-1975

...commitments made to Nguyen Van Thieu during meeting with Henry **Kissinger**.[Abstract/Details](#) [Full text - PDF](#) (159 KB)☐ 3**MEMCON** of Your July 4 Talk with Thieu [Includes Attachment]

Preview

United States. National Security Council. Staff. Top Secret, Action Memorandum. August 4, 1971: 21 pp.

DNSA collection: **Kissinger** Transcripts...**Kissinger** to Nguyen Van Thieu related to Paris Peace Talks, retention of South[Abstract/Details](#) [Full text - PDF](#) (2 MB)☐ 4**Meeting between the President, Ambassador Chow, and Henry A. Kissinger** [U.S. Relations with China and Taiwan; Includes Action Memorandum Entitled "Chinese Representation at the United Nations"]

Preview

United States. Assistant to the President for National Security Affairs. Top Secret, Memorandum of Conversation. April 12, 1971: 7 pp.

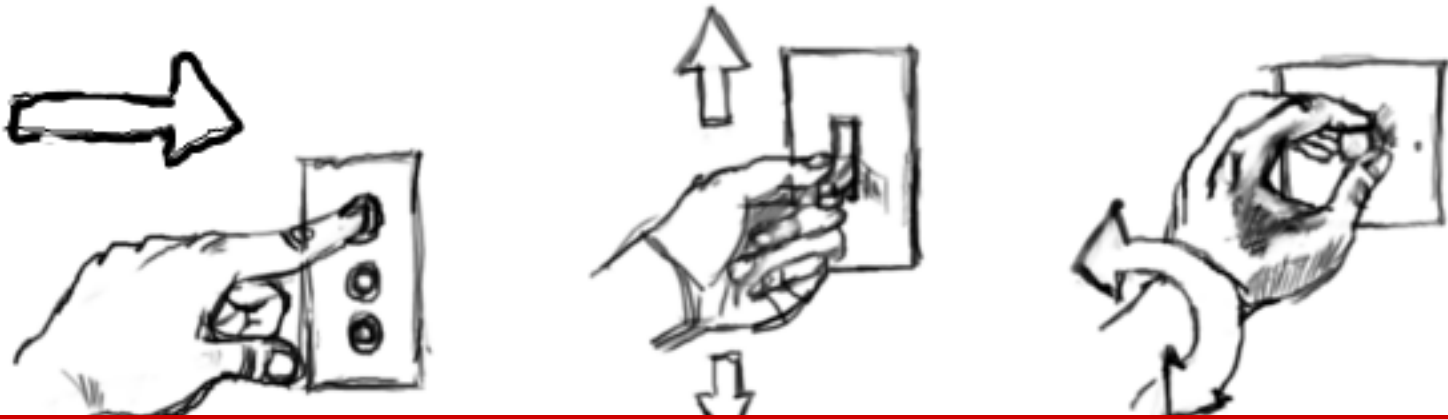
DNSA collection: **Kissinger** Transcripts[Abstract/Details](#) [Full text - PDF](#) (430 KB)

collections as data

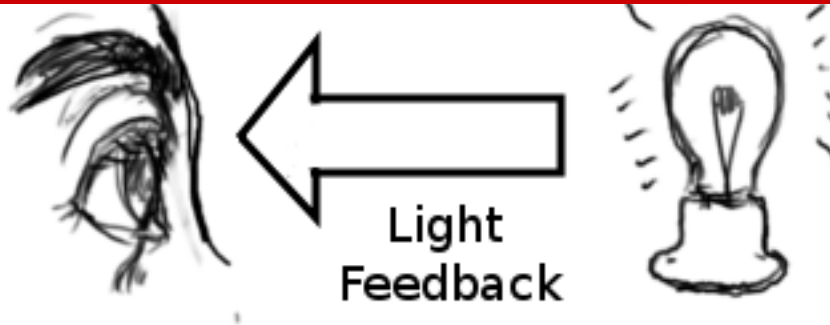
- ... ordered information

- ... stored digitally

- ... amenable to computation



**design for qualities of collections
that define possible use**





Always Already Computational: Collections as Data
2016-2018

thomas padilla, unlv

laurie allen, university of pennsylvania

stewart varner, university of pennsylvania

hannah frost, stanford university

sarah potvin, texas a&m university

elizabeth russey roke, emory university

collectionsasdata.github.io



Collections as Data: Part to Whole
2019-2023

thomas padilla, internet archive
hannah scates kettler, iowa state university
stewart varner, university of pennsylvania
yasmeen shorish, james madison university

collectionsasdata.github.io/part2whole



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL





- May - June 2023
 - Draft Collections as Data: State of the Field and Future Directions
 - Submit Barbers Statement on Collections as Data
- July 2023
 - Draft public handbook on white paper + overview
- August 2023
 - Translate white paper + representation, editorial support
 - Publish Collections as Data: State of the Field and Future Directions
 - Submit Barbers Statement on Collections as Data



Collections as Data

Published December 20, 2023 | Version v1

Declaraciones de posturas -> Collections as Data: Field and Future Directions (ES)



Collections as Data

Published September 13, 2023 | Version v2

Vancouver Statement on Collections as Data (ES)

Padilla, Thomas¹; Scates Kettler, Hannah²; Varner, Stewart³; Shorish, Yasmeen⁴



Collections as Data

Published November 27, 2023 | Version 1

Report

Open

Collections as Data: Part to Whole Final Report (ES)

Padilla, Thomas¹; Scates Kettler, Hannah²; Shorish, Yasmeen³

Show affiliations

[Collections-as-data](#) (2017) se ha producido acidentalmente. Las instituciones, tanto gran...
ilitación de acceso y el respaldo del uso c...
lo, es necesaria una declaración actualiza...
de datos en el contexto de un entorno de c...

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Transfiguring the Library as Digital Research Infrastructure: Making KBLab at the National Library of Sweden

*Love Börjeson, Chris Haffenden, Martin Malmsten, Fredrik Klingwall, Emma Rende, Robin Kurtz, Faton Rekathati, Hillevi Hägglöf and Justyna Sikora**

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Collections as data: Acceso computacional a colecciones digitales

Gustavo Candela

Universidad de Alicante

 <https://orcid.org/0000-0001-6122-0777>

2024



**How do we responsibly support
computational engagement with memory
organization collections as data?**



Libraries & AI

1. **reusable** - ✨ open ✨, not 😬 open 😬
2. **accountable** - development and use subject to specific community needs
3. **sustainable** - adoption guided by stewardship mindset

Libraries & AI

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open AI =

Maximize our agency
through ability to
comprehensively
assess, freely build
upon, reuse, and share



Considerations	internal research only high risk control low auditability limited perspectives				community research low risk control high auditability broader perspectives	
Level of Access	fully closed	gradual/staged release	hosted access	cloud-based/API access	downloadable	fully open
System (Developer)	PaLM (Google) Gopher (DeepMind) Imagen (Google) Make-A-Video (Meta)	GPT-2 (OpenAI) Stable Diffusion (Stability AI)	DALL-E-2 (OpenAI) Midjourney (Midjourney)	GPT-3 (OpenAI)	OPT (Meta) Craiyon (craiyon)	BLOOM (BigScience) GPT-J (EleutherAI)

Irene Solaiman, **The Gradient of Generative AI Release: Methods and Considerations**

Large language model

Llama 2: open source, free for research and commercial use

We're unlocking the power of these large language models. Our latest version of Llama – Llama 2 – is now accessible to individuals, creators, researchers, and businesses so they can experiment, innovate, and scale their ideas responsibly.

[Download the model](#)



facebookresearch / llama Public

Notifications

Fork 8.6k



Code Issues 269 Pull requests 43 Actions Projects Security Insights

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SulimanSagindykov Update LICENSE ✓

7c0a08e · 7 months ago

Code Blame 126 lines (102 loc) · 6.86 KB

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60

61 v. You will not use the Llama Materials or any output or results of the
62 Llama Materials to improve any other large language model (excluding Llama 2 or
63 derivative works thereof).



“**Open source software** often becomes an industry standard,” Zuckerberg told investors on an earnings call on Feb. 1. “When companies **standardize on** building with **our stack**, that then becomes easier to **integrate** new **innovations** into **our products**.”

Billy Perrigo, Yann LeCun On How An Open Source Approach Could Shape AI

Open Language Model: OLMo

A State-of-the-Art, Truly Open LLM and Framework



Each model comes with the following:

- Full training data used for these models, including code that produces the training data, from AI2's Dolma, and WIMBD for analyzing pretraining data.
- Full model weights, training code, training logs, training metrics in the form of Weights & Biases logs, and inference code.
- 500+ checkpoints per model, from every 1000 steps during the training process, available as revisions on HuggingFace.
- Evaluation code under the umbrella of AI2's Catwalk and Paloma.
- Fine-tuning code and adapted models (coming soon with Open Instruct)
- All code, weights, and intermediate checkpoints are released under the Apache 2.0 License.

Libraries & AI

1. **reusable** - ✨ open ✨, not 😬 open 😬
2. **accountable** - development and use subject to specific community needs
3. **sustainable** - adoption guided by stewardship mindset



OCTOBER 30, 2023

FACT SHEET: President Biden Iss Executive Order on Safe, Secure, & Trustworthy Artificial Intelligen



BRIEFING ROOM

STATEMENTS AND RELEASES

GOV.UK

Home > Business and industry > Science and innovation > Artificial intelligence > AI Safet



AI Safety Institute



Department for
Science, Innovation
& Technology

Policy paper

Introducing the AI Safety Inst

Updated 17 January 2024



REUTERS®

World Business Markets Sustainability Legal Breakingviews Technology Investig

Disrupted

Europe within reach of landmark AI rules after nod from EU countries

By Foo Yun Chee

February 2, 2024 2:31 PM PST · Updated 9 days ago



Artificial Intelligence (AI)





About ▼

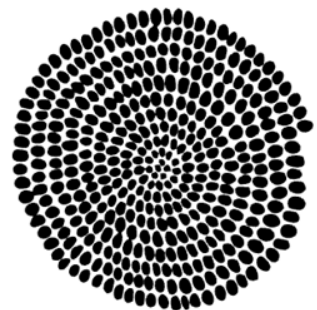
Research

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Community

Reducing the distance between researchers and community collaborators

Our research centers lived experiences from communities which are not typically represented in AI research. We strongly believe in a bottom-up approach, supporting and prioritizing research and researchers that emerge from the communities that we center in our work and their specific needs.



Interrogating Power

Creating spaces for communities to question elites

Understanding why people and communities “on the margins” are broadly excluded from AI development, and how this affects all of us, requires interrogating power. Part of our work is to expand the field of inquiry to study decision makers and tech elites that have remained significantly unquestioned in AI research.

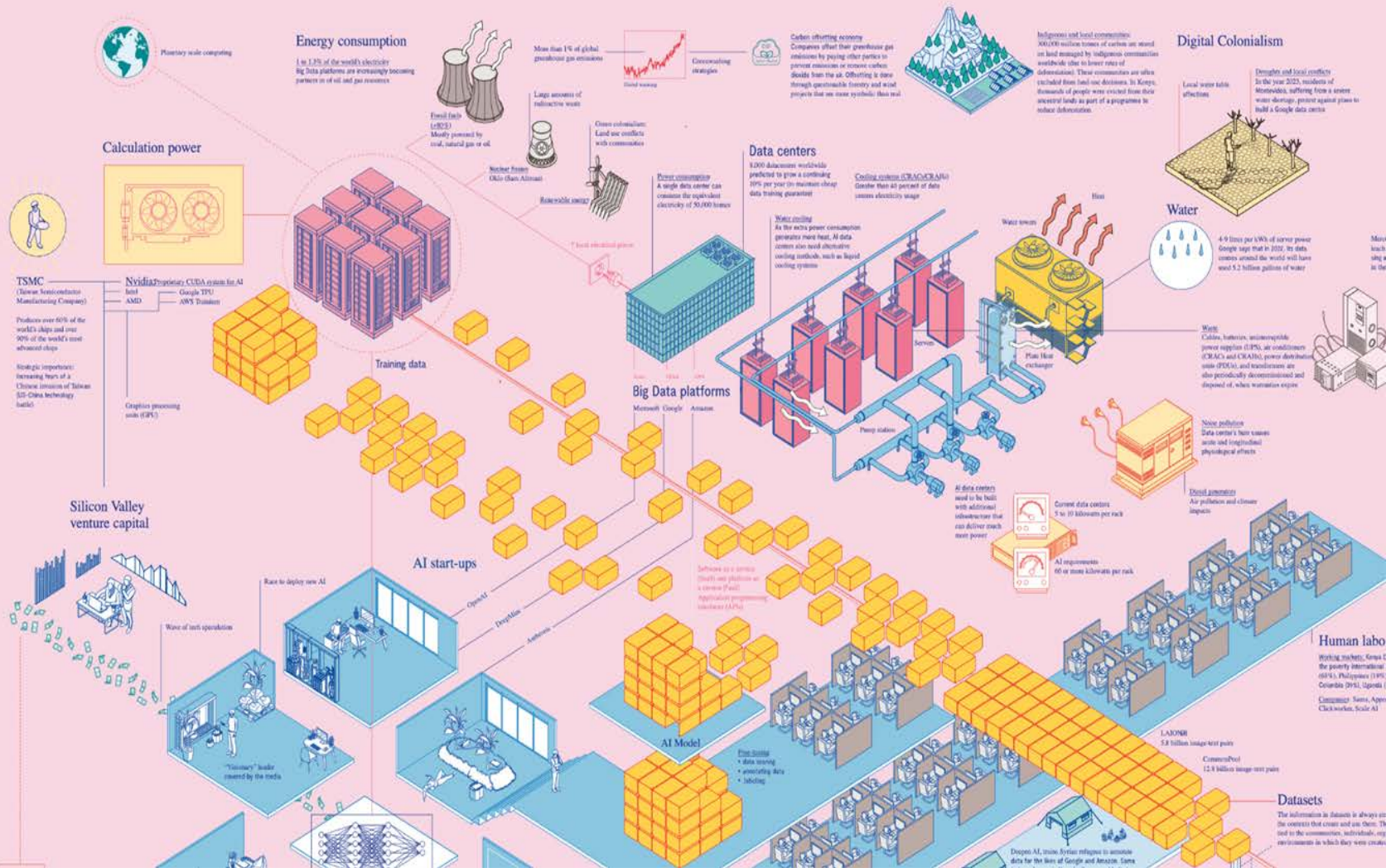
Libraries & AI

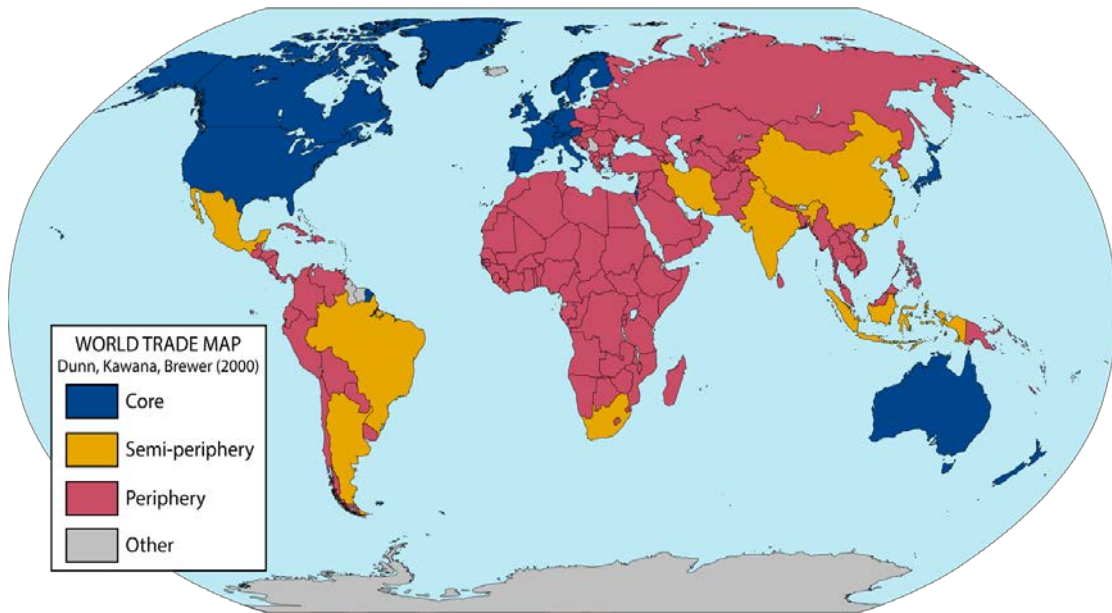
1. **reusable** - ✨ open ✨, not 😬 open 😬
2. **accountable** - development and use subject to specific community needs
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Sustainability strategy depends on awareness of interdependence, threats, and opportunities.

Suggested methods:

- 1. Exploded view** - Cartography of generative AI
- 2. Systems view** - World Systems Theory (Wallerstein)
- 3. Replacement view** - AI is Automation (Bender)



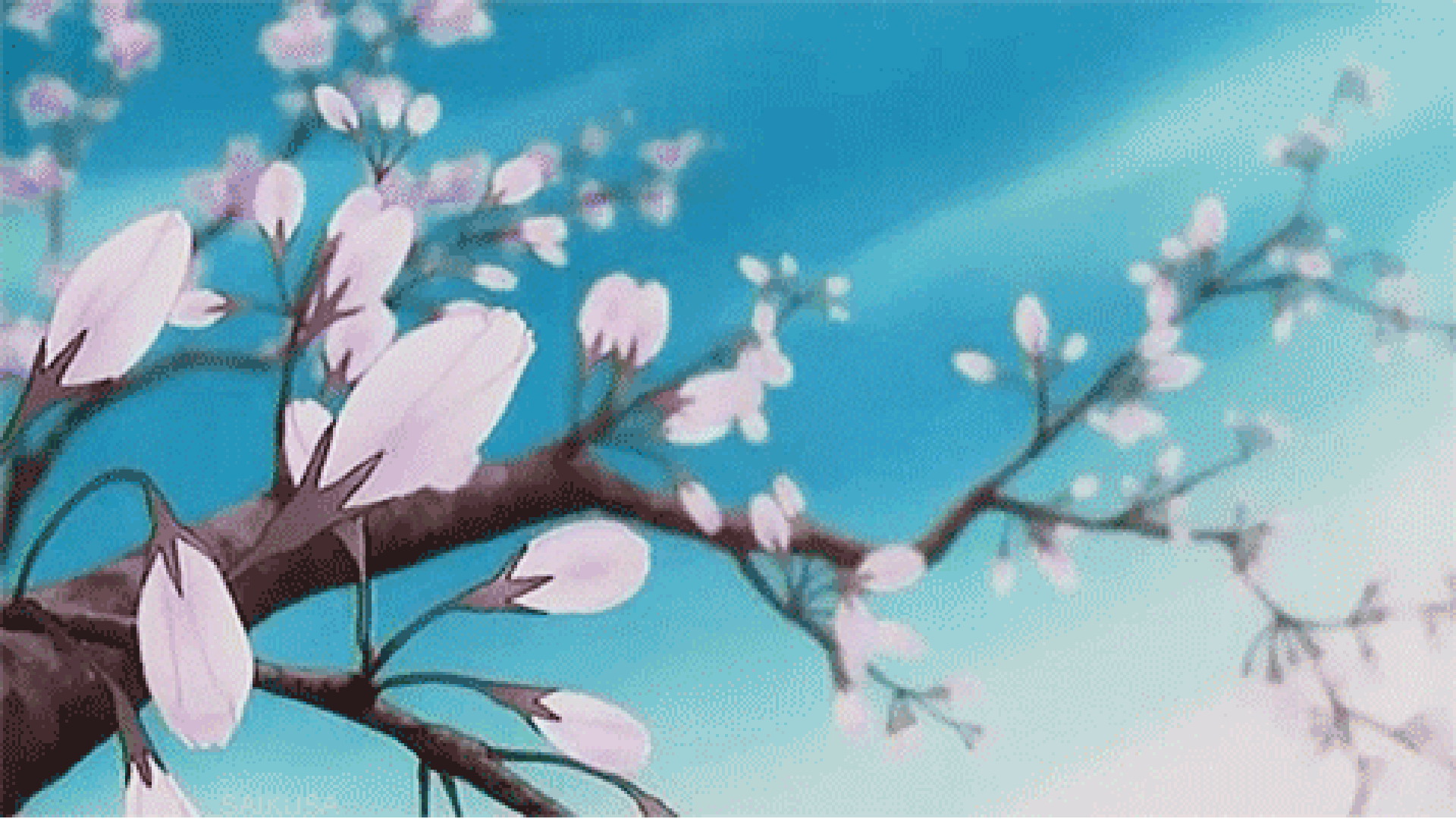


- Maintained distribution of capital concretizes system roles
- Exclusivity - e.g., compute
- Purgatory - e.g., raw materials, training data, content moderation

I think that discussions of this technology become much clearer when we replace the term AI with the word “automation”.

Then we can ask:

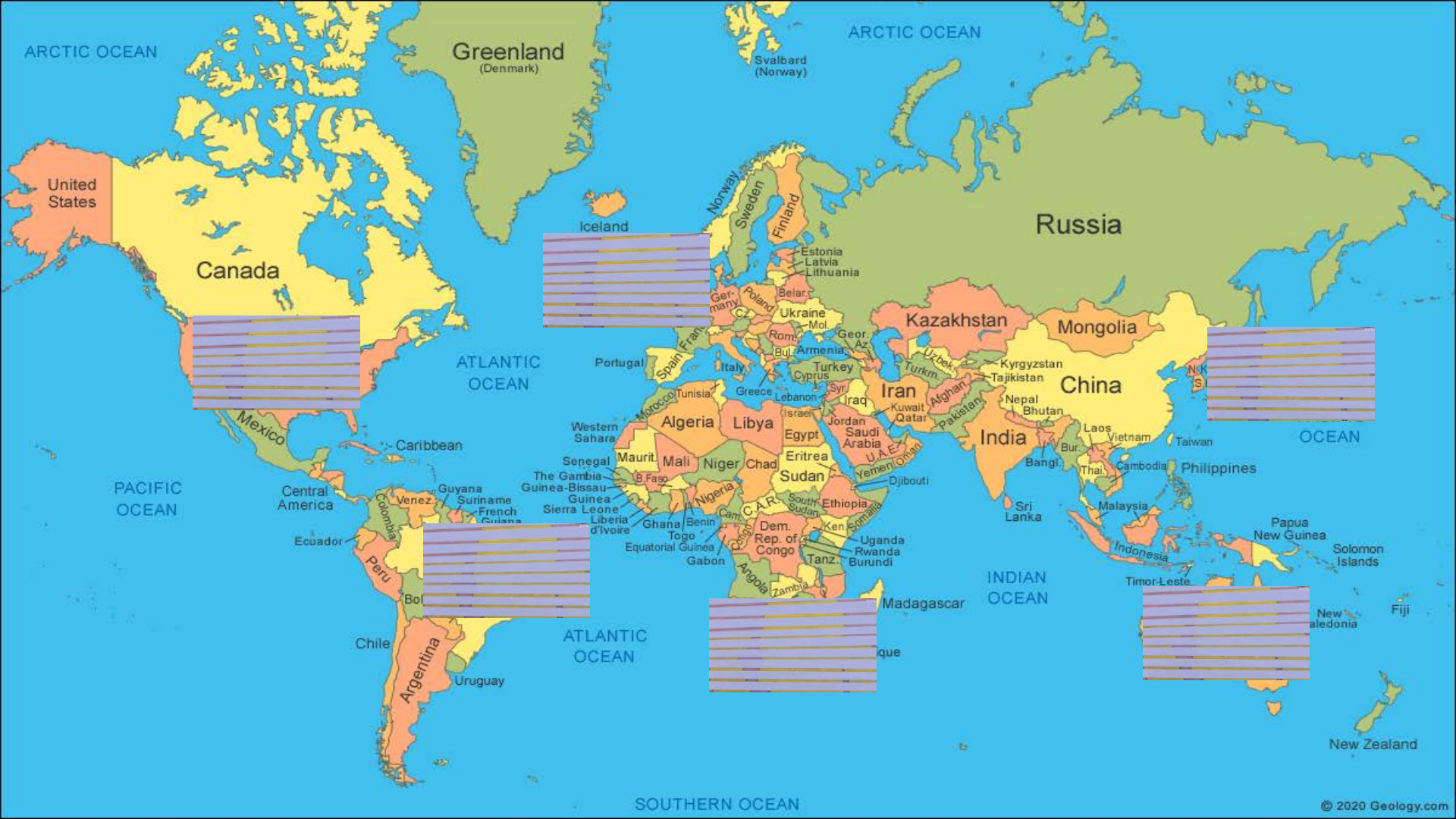
- What is being automated?
- Who's automating it and why?
- Who benefits from that automation?
- How well does the automation work in its use case that we're considering?
- Who's being harmed?
- Who has accountability for the functioning of the automated system?
- What existing regulations already apply to the activities where the automation is being used?



call for collaboration!









United Nations

Department of Economic and Social Affairs
Sustainable Development



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Interested in collections as data or AI and libraries work?

Seeking partners for international convenings and workshops to address challenges and opportunities together.

Please do reach out!





Emily Bender, University of Washington Seattle

Chris Bourg, MIT

Laurie Bridges, Oregon State University

F. Stuart Chapin, University of Alaska Fairbanks

Kate Crawford, USC Annenberg

Timnit Gebru, Distributed Artificial Intelligence Institute (DAIR)

Hanna Hajishirzi, Allen Institute for AI, University of Washington Seattle

Yacine Jernite, Hugging Face

Bergis Jules, Shift Collective

Mia Lund, Open Source Initiative

A Maxwell

Margaret Mitchell, Hugging Face

Rachael Samberg, UC Berkeley

Irene Solaiman, Hugging Face

Anna Tsing, UC Santa Cruz

Immanuel Wallerstein, Yale University

Sarah West, AI Now Institute

David Gray Widder, Carnegie Mellon University

Meredith Whittaker, Signal