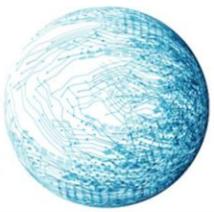


From Digitisation to Discovery: Centering AI At HKBU Library

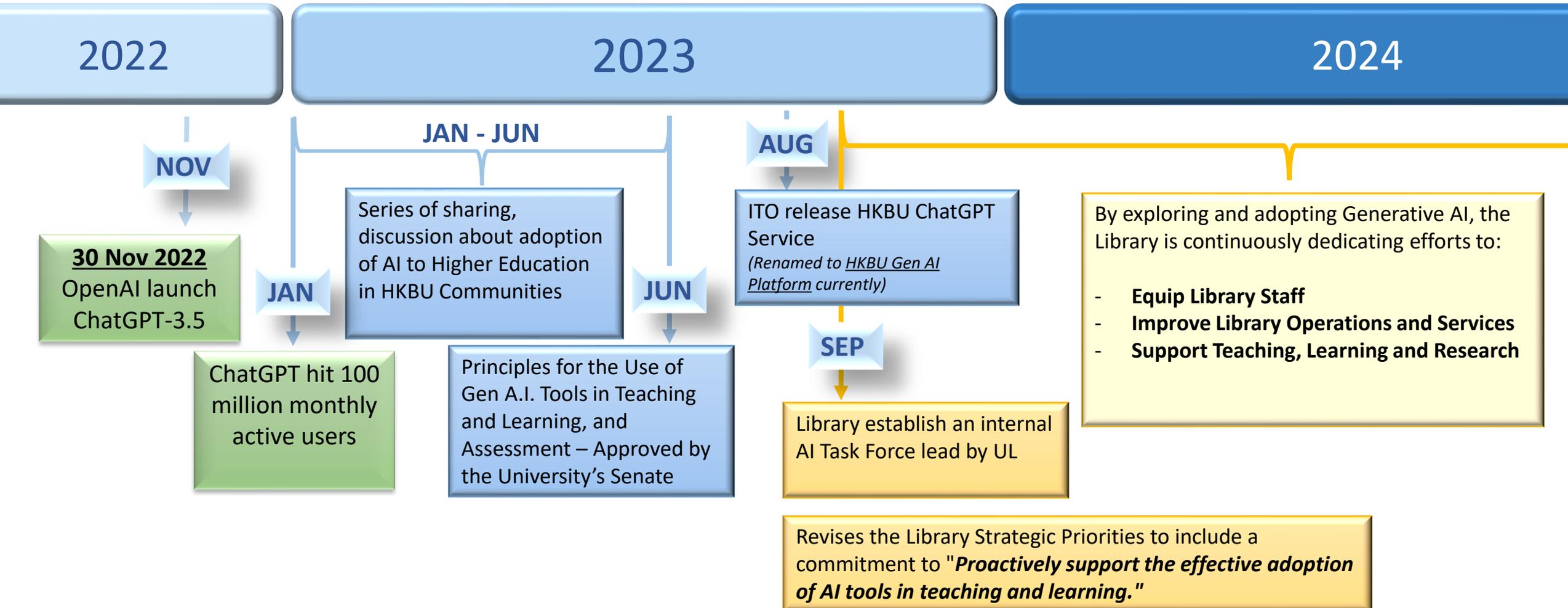
Mr. Wallace Wong
User Experience & Assessment Librarian

Ms. Becky Wu
Resource Management Librarian





Background & Overview





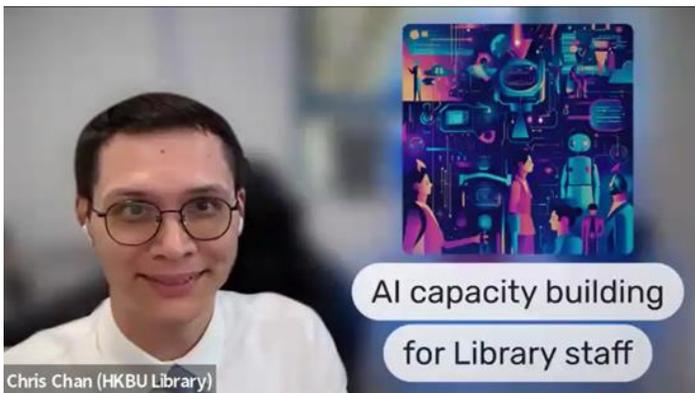
University Librarian

Overall support

Encouragement in using AI Tools for daily tasks / projects

Support external AI Tools Subscription

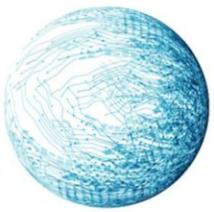
Establishment of internal AI Task Force



Text:  Poe

Image:





AI Task Force

Framework

Established in Sep 2023

Short-term Implementation

- Subscription access for research process
- Ethical implementation
- Impact review

Training & Resources Support

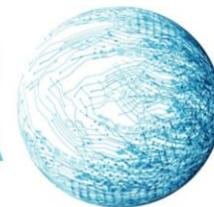
- AI tools usage instruction
- Effective adoption guidance
- Library resource curation

Strategic Planning

- Long-term strategy development
- Ethical implementation measures
- JULAC libraries collaboration

Process Enhancement

- Library workflow optimization
- AI integration in operations
- Work efficiency improvement



Encouragement

AI Task Force

Resource curation

Developing Library Staff Guideline

(Key Terms Highlighted)

4.1. Expectations for use

- ...no expectation for staff to make use of AI tools in their daily work.
- Colleagues will not receive a lower rating in their Goals/KPIs if they choose not to use the AI tools that are available them.

4.3. Suitable use cases

- ...The following use cases are provided as representative examples of how colleagues might use generative AI to facilitate their work:
 - Drafting of email replies to patron enquiries.
 - Producing initial drafts of lesson plans for library instruction sessions.
 - Assisting in the completion of internal forms and documents (e.g. APR forms).
 - Generation of artwork/images for use in promotional/marketing materials.

Subscribed

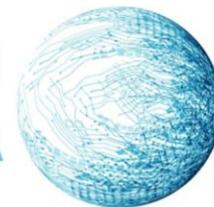


Under Review

JSTOR Interactive
Research Tool (Beta)

Web of Science
Research Assistant

Scopus AI



Library Staff Pre-AI Training Survey

BEFORE the training offered by Library

Number of Responses: 54

75.5%

Staff were already using AI tools

25%

Had previous AI training (mostly online)

75.5%

Had only "basic" or "no understanding" of AI

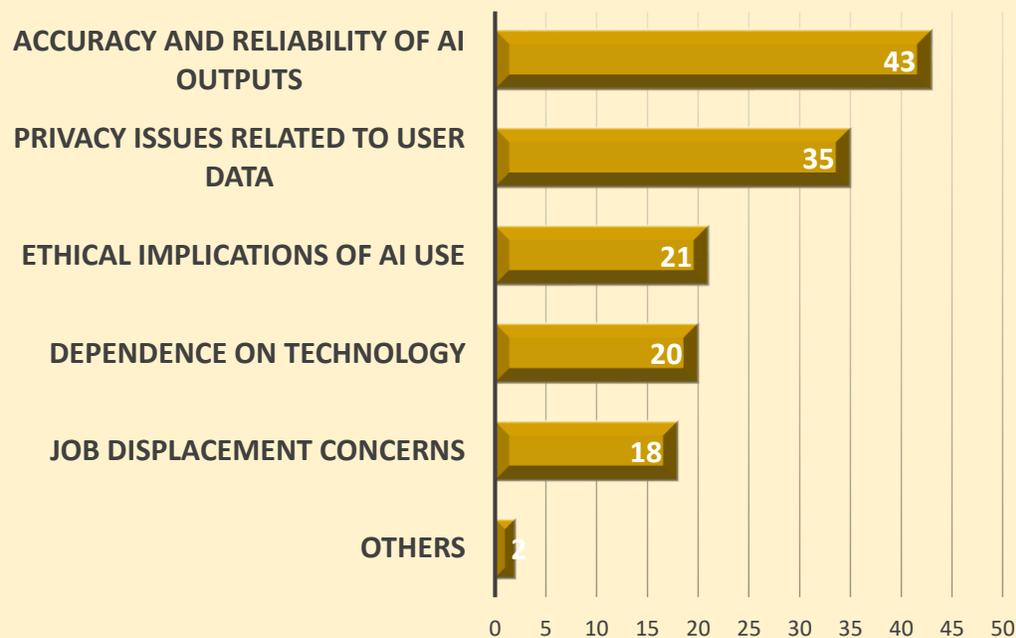


Library Staff Pre-AI Training Survey

Key Barriers to AI Adoption in the Workplace



Key Concerns About AI Integration in the Workplace





LibStaff GPT

Purpose

Develop staff knowledge in generative AI technologies

Target

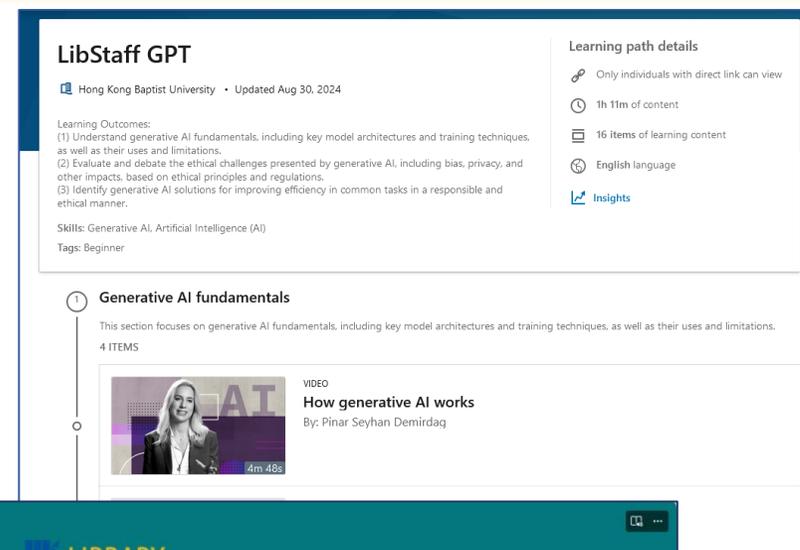
Mandatory for all Library staff

Learning Outcomes

- Understanding of generative AI fundamentals
- Ability to evaluate AI ethical challenges
- Skills to identify appropriate AI solutions for work tasks

Components

- LinkedIn Learning video path "LibStaff GPT"
- Assessment quiz via Microsoft Forms



LibStaff GPT
Hong Kong Baptist University • Updated Aug 30, 2024

Learning path details

- Only individuals with direct link can view
- 1h 11m of content
- 16 items of learning content
- English language
- Insights

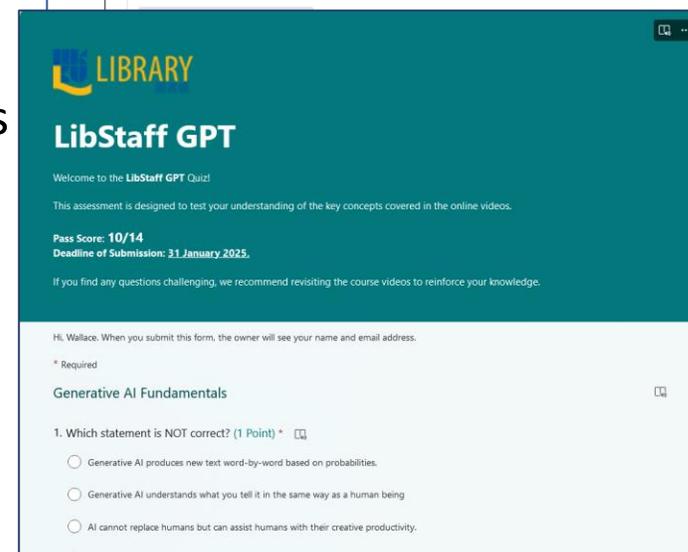
Learning Outcomes:

- Understand generative AI fundamentals, including key model architectures and training techniques, as well as their uses and limitations.
- Evaluate and debate the ethical challenges presented by generative AI, including bias, privacy, and other impacts, based on ethical principles and regulations.
- Identify generative AI solutions for improving efficiency in common tasks in a responsible and ethical manner.

Skills: Generative AI, Artificial Intelligence (AI)
Tags: Beginner

1 Generative AI fundamentals
This section focuses on generative AI fundamentals, including key model architectures and training techniques, as well as their uses and limitations.
4 ITEMS

VIDEO
How generative AI works
By: Pinar Seyhan Demirdag
4m 46s



LIBRARY
LibStaff GPT

Welcome to the LibStaff GPT Quiz!

This assessment is designed to test your understanding of the key concepts covered in the online videos.

Pass Score: 10/14
Deadline of Submission: 31 January 2025.

If you find any questions challenging, we recommend revisiting the course videos to reinforce your knowledge.

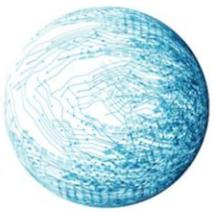
Hi, Wallace. When you submit this form, the owner will see your name and email address.

* Required

Generative AI Fundamentals

1. Which statement is NOT correct? (1 Point) *

- Generative AI produces new text word-by-word based on probabilities.
- Generative AI understands what you tell it in the same way as a human being
- AI cannot replace humans but can assist humans with their creative productivity.



Two Half-Day AI Training Workshops for Library Staff

Workshop 1 - GenAI Essentials (Introductory)

- Introduction to major AI platforms (ChatGPT, Poe, Copilot, Perplexity) and their uses
- Common business applications
- Integration into daily workflows
- Focus on immediate practical implementation

Workshop 2: Advanced GenAI

- Advanced prompting techniques
 - Various frameworks (CO-STAR, CoT, ToT)
 - Automated prompt engineering
- Technical Limitations and Challenges
- Dataset biases and limitations
- Reliability concerns

Comparison of LLM models

Task Implementation with AI Assistance

Study a 40 Pages Tender

Prompt Engineering Techniques

Modifying writing style

社交媒體撰文風格 (Writing Style)

想了解一下，你手裡一個強大工具，可以為你提供無限可能。在過去幾年，AI世界，繪畫個新世界，ChatGPT/Dall-E 將成為你得力助手，幫你解決各種問題，提升業務效能。

立即加入【Generative AI Series: Mastering ChatGPT, Dall-E and more for Results (with hands-on)】，率先掌握AI先機，引領行業潮流！

課程重點：

- 香港首位廣東話AI課程
- 親身體驗AI科技，感受無限可能
- 行業專家親自授課，實數經驗分享

地點：HKPC大樓，九龍彌敦道78號
費用：HK\$2,400 (優惠：2人或以上報名可享團體折扣)

課程內容：

- AI、ChatGPT/Dall-E簡介，揭開神秘面紗
- 深入了解AI與人機協同運作
- 掌握AI技術，掌握創新之匙
- 親身體驗：下載並互動ChatGPT，創意無限

完成課程後，你將成為AI時代電腦精英，掌握ChatGPT/Dall-E獨特大能力，開創美好未來。

課程會獲得：現在就報名，獻給AI新世界！百訓詳情，請致電2788 5087聯絡Ms. Ko，或電郵至training@hkpc.org。

https://www.hkpcacademy.org/10014511-05-genai-advanced/



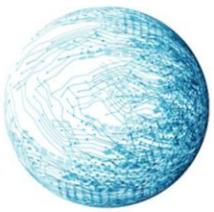
Two Half-Day AI Training Workshops for Library Staff

77.2% Library Colleagues participated



The Top 50 Gen AI Web Products, by Unique Monthly Visits				
1. ChatGPT	11. SpicyChat	21. VIGGLE	31. PIXAI	41. MaxAI.me
2. character.ai	12. IIElevenLabs	22. Photoroom	32. Clipchamp	42. BLACKBOX AI
3. perplexity	13. Hugging Face	23. Gamma	33. udio	43. CHATPDF
4. Claude	14. LUMA AI	24. VEED.IO	34. Chatbot App	44. Gauth
5. SUNO	15. candy.ai	25. PIXLR	35. VocalRemover	45. COZE
6. JanitorAI	16. Crushon AI	26. ideogram	36. PicWish	46. Playground
7. QuillBot	17. Leonardo.Ai	27. you.com	37. Chub.ai	47. Doubao
8. Poe	18. Midjourney	28. DeepAI	38. HIX.AI	48. Speechify
9. liner	19. YODAYO	29. SeaArt AI	39. Vidnoz	49. NightCafe
10. CIVITAI	20. cutout.pro	30. invideo AI	40. PIXELCUT	50. AI Novelist

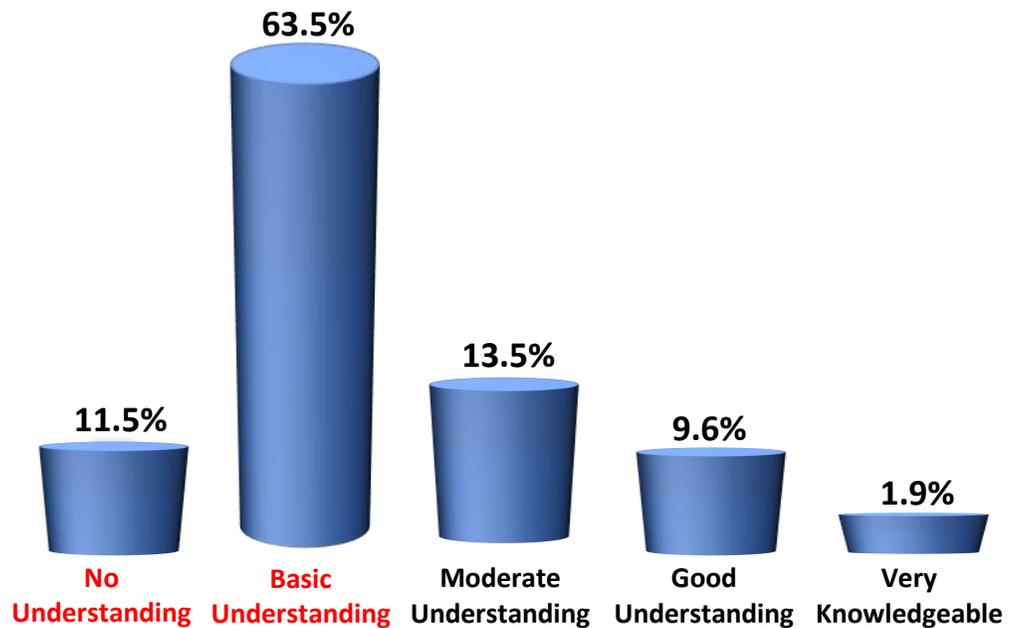
Charts are for informational purposes only and should not be used for investment decisions. Past performance is not indicative of future results. None of the above should be taken as investment advice; see a16z.com/disclosures.



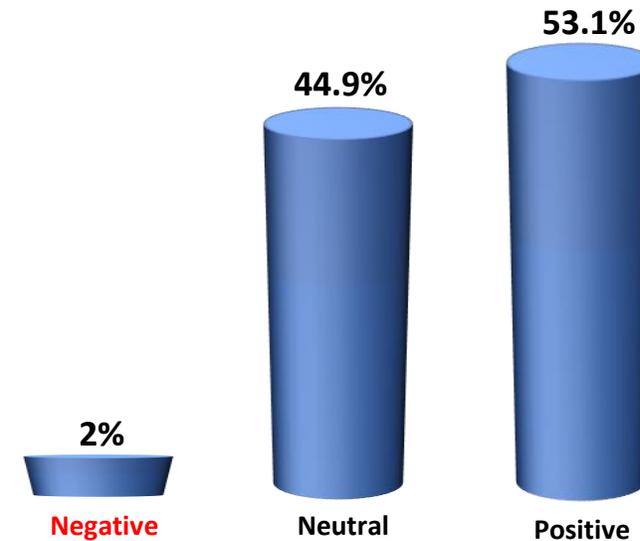
Impact of Training

Number of Responses: 54

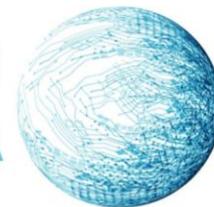
Understanding of AI Concept



Library Staff Perception of AI in Workplace



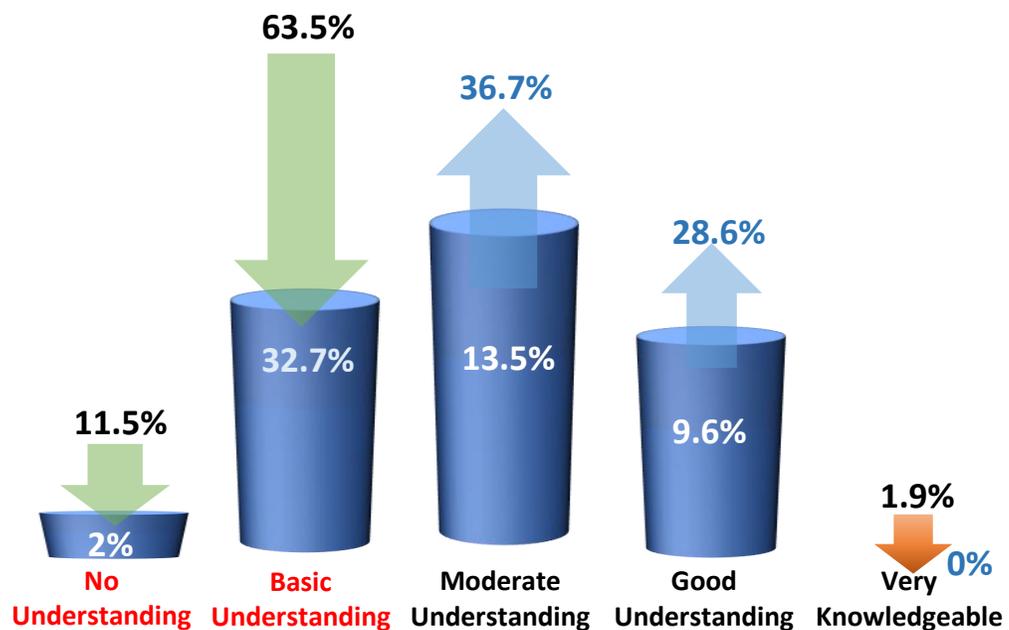
Pre- AI Training
Survey



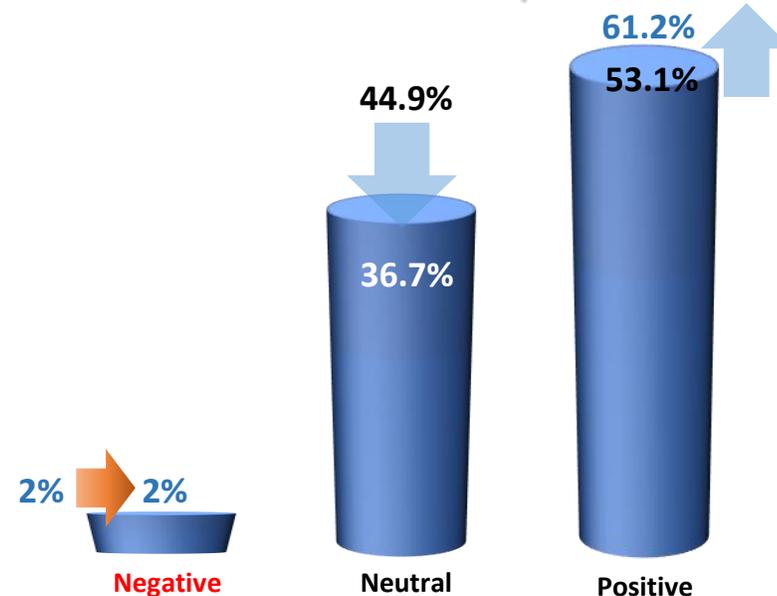
Impact of Training

Number of Responses: 46

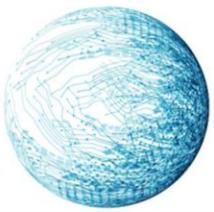
Understanding of AI Concept



Library Staff Perception of AI in Workplace



Post- AI Training
Survey



How HKBU Library Colleagues Embracing GenAI

I use **Midjourney** & **Adobe Firefly** for creative works. **Poe.com** for improving email writing and generate prompt.

Jeff LO (Assistant Library Officer, Chinese Medicine Library)

I use **Poe.com**, **Perplexity**, **Github CoPilot** to improve my coding efficiency and speed up development cycles. With features like smart code completion and helpful debugging assistance, I can easily find bugs and get automatic code suggestions. These tools make the development process smoother, help me come up with creative solutions, and reduce errors, which boosts my overall productivity.

Arthur LEE (Senior IT Officer, Systems Team)

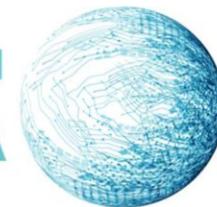


I utilize **HKBU Chat GPT** to refine the content of emails and documents, as well as to brainstorm presentation outlines. Additionally, I use **Perplexity.ai** for initial information searches on the Internet and to generate summaries and tables of relevant data. Furthermore, I employ various AI tools, including **HKBU Chat GPT** and **POE.com**, to assist with basic data cleaning, data rearrangement, and the creation of simple dashboards.

Carlee CHAN (Library Officer, User Experience & Assessment)

AI tools (**ChatGPT** and **Canva AI image generator**) speed up the process of drafting notices and designing promotional posters.

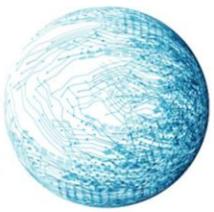
Karen NG (Senior Library Officer, Shek Mun Campus Library)



Collaborating with Library Clusters and Teams

You can do it!





User &
Information
Services

User and Information Services

Integrated AI components in library instructions

Components:

- Principles - HKBU Principles, Ethical Concerns, Limitations
- Available tools - Consensus, HKBU GenAI Platform

In AY23/24, **26.3%** of library workshops/events had integrated AI components

Organizing AI Promotional Events

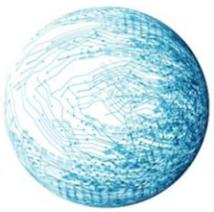
to provide faculty and students with strategic practices for optimizing AI technologies in their academic pursuits.

Effective Use of AI-powered Tools for Library Research

February 21, 2024 (Wednesday)

9:30 am - 12:00 nn (HKT)

via **zoom**



User &
Information
Services

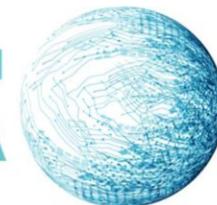
User and Information Services

GenAI LibGuide

The screenshot shows the 'Getting Started with Generative AI: Home' page of the HKBU Library. The page features a navigation menu with options like 'Home', 'Generative AI Basics', 'List of AI tools', 'Citing AI-Generated Content', and 'Online Self-Learning Resources'. The main content area includes an 'Introduction' section and a 'What is Generative AI?' section. The 'What is Generative AI?' section explains that generative AI refers to artificial intelligence systems that can create new content such as images, text, audio and video. These systems, powered by machine learning techniques like neural networks, can generate novels, artworks, music and other creative works that are almost indistinguishable from human-generated content.

AI Chatbot (In-development)

The screenshot shows the HKBU LIBUddy AI chatbot interface. The chatbot's name is 'HKBU LIBUddy'. The chat history shows a message from the chatbot: 'Hi! I'm LIBUddy, your guide to HKBU Library services. What can I help you with?'. Below the chat history, there are two suggested questions: 'How many books can I borrow?' and 'How to book a room?'. At the bottom of the interface, there is a disclaimer: 'This chatbot provides general information only. For reference enquiry, please consult the librarians.'





Claude-3.5-Sonnet on Poe

AI-powered Book Suggestion (LCC)

A bot generates 5-10 relevant subjects with corresponding Library of Congress Classification (LCC) numbers for a given course outline.

- Retrieve the titles from GOBI by using the suggested LCC
- Provides some hits about book selections for a specific course

Ideal for junior library liaisons developing their subject expertise in their respective departments.

BasedOnCourse Poe ...

Thank you for providing the information. Based on the program details, I'll suggest relevant subjects and LCC numbers for your library collection.

Communication and Media Studies

This is a foundational area covering the broad spectrum of communication studies needed for all majors in the program. Essential for understanding theoretical frameworks and research methodologies [6].

- LCC: P87-96 (Communication Theory)
- LCC: P90-92 (Digital Communication)
- LCC: P95-95.6 (Mass Media)

Output: P87-96; P90-92; P95-95.6

Journalism and Digital Media

Directly supports the Journalism and Digital Media major, particularly relevant for both the Data and Media Communication and Journalism concentrations [1].

- LCC: PN4699-5650 (Journalism)
- LCC: ZA4050-4480 (Digital Media)
- LCC: QA76.9.D32 (Data Communication)

Output: PN4699-5650; ZA4050-4480; QA76.9.D32

Public Relations and Advertising

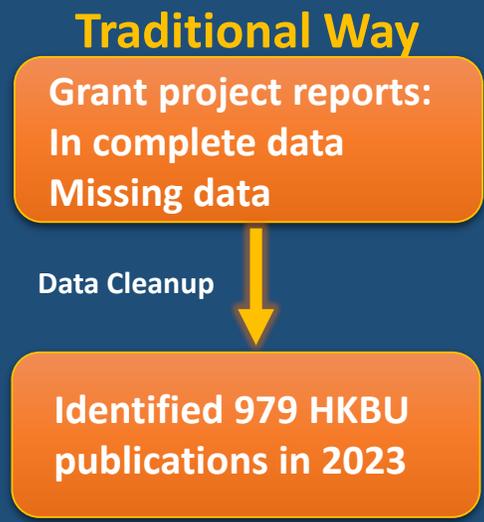
Essential materials for the Public Relations and Advertising major, covering both concentrations in Advertising and Branding, and Public Relations.



Digital Initiatives & Research

AI-Powered Discovery Boosts RGC Publication Gateway

The Gateway is set up to enable quick and easy searching of information of refereed journal articles arising from research projects funded by Research Grants Council at earliest since 1999.



About RGC Publication Gateway

As part of Research Grants Council's Open Access Plan, the Gateway is set up to enable quick and easy searching of information of refereed journal articles arising from research projects funded by Research Grants Council at earliest since 1999.

The Gateway is designed as a one-stop online control database providing essential metadata information of refereed journal articles published since 2000, including the project title, information of the Principal Investigator, the corresponding author(s) and other identifiers, as well as hyperlink(s) of the refereed journal articles provided by the universities and other means of getting access to the articles.

UGC Secretariat

*Some information is available only in Chinese or English as provided by the universities.

Search Keywords Search

[Advanced Search](#)

Institutional Repositories

City University of Hong Kong	Hong Kong Baptist University	Lingnan University	The Chinese University of Hong Kong
The Education University of Hong Kong	The Hong Kong Polytechnic University	The Hong Kong University of Science and Technology	The University of Hong Kong



Digital Initiatives & Research

AI-Powered Discovery Boosts RGC Publication Gateway

Use of GenAI

Data from Scopus & Web of Science

Funding Details

Mapping by ChatGPT

IRIMS (PURE/HKBU Scholar)

Identified **additional 2,995 HKBU publications**

About RGC Publication Gateway

As part of Research Grants Council's Open Access Plan, the Gateway is set up to enable quick and easy searching of information of refereed journal articles arising from research projects funded by Research Grants Council at earliest since 1999.

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Search Keywords Search

[Advanced Search](#)

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City University of Hong Kong	Hong Kong Baptist University	Lingnan University	The Chinese University of Hong Kong
The Education University of Hong Kong	The Hong Kong Polytechnic University	The Hong Kong University of Science and Technology	The University of Hong Kong



Digital Initiatives & Research

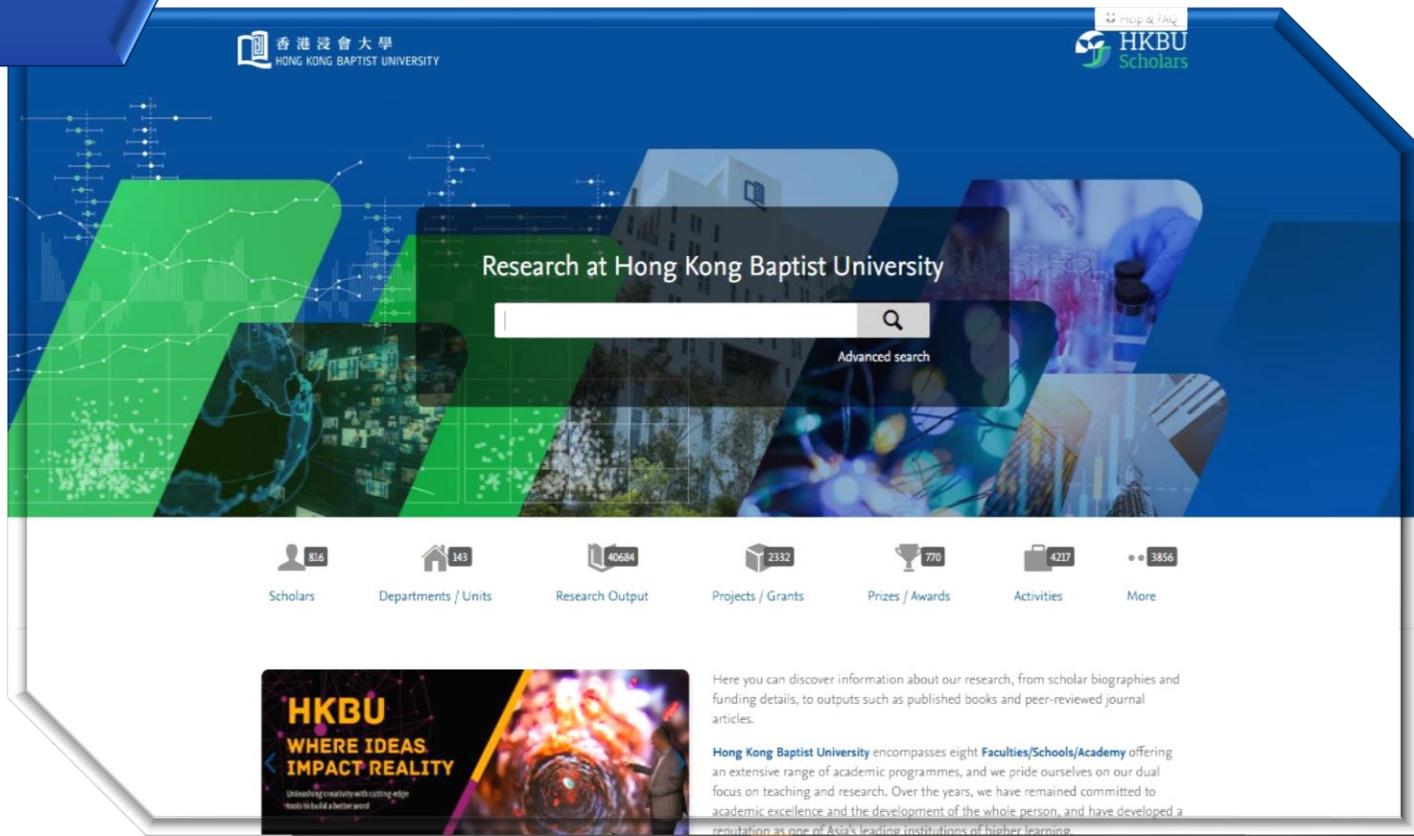
SDGs for IRIMS
(HKBU Scholar/PURE)

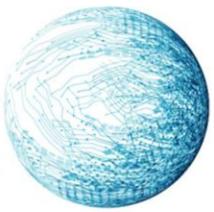


Why? – Current SDG auto mapping function in IRIMS is often found to be inaccurate

Developing a program to Identify how HKBU research outputs are contributing to the SDGs

Tool Used
Label Classifier: N-Gram based NLP mode





Digital Initiatives & Research



Self-developed Large Language Model

Stage 1 Data Collection:
Online film data & datasets from publisher

Stage 2: Data Processing:
Merge and clean by using Python and R

Stage 3: LLM Mapping:
Replace the existing keywords through mapping

Stage 4: Automation:
Automate keyword indexing through mapping the LLM against the OCR results

Search results for '汪明荃' (Wong Meng Tsun) in the '中港電視·電影刊物資料庫' (Hong Kong and Mainland China TV & Film Periodicals Database). The search results table is as follows:

封面	文章/專欄名稱	載於 (頁)	刊物名稱	發行日期
	汪明荃在日本大出風頭	頁 16 - 頁 17	香港電視 電視雜誌	1971-03-23
	歡樂茶座	頁 66 - 頁 67	香港電視 電視雜誌	1971-03-23
	慈雲山下	頁 72 - 頁 73	香港電視 電視雜誌	1971-03-23
	--	封面	香港電視 電視雜誌	1971-03-30
	汪明荃的願望實現了	頁 2 - 頁 3	香港電視	1971-03-30

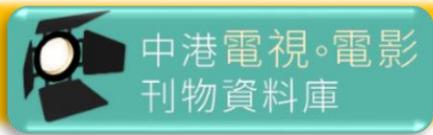
On the right side of the screenshot, there are two data visualizations:

- 「汪明荃」被提及的次數 (按年份)**: A line graph showing the number of times 'Wong Meng Tsun' was mentioned in TV magazines from 1940 to 1980. The x-axis represents years (1940, 1960, 1980) and the y-axis represents the number of mentions (0 to 130). The graph shows a significant increase starting around 1970, peaking at approximately 120 mentions in 1971.
- 「汪明荃」在《香港電視》被提及的次數 (按期數)**: A dot plot showing the number of mentions of 'Wong Meng Tsun' in 'Hong Kong TV' magazines across various issues. The x-axis represents issue numbers and the y-axis represents years from 1975 to 1997. The plot shows a dense cluster of mentions between 1975 and 1980, with fewer mentions in subsequent years.



Digital Initiatives & Research

OCR by Gemini:
Film Pamphlets



100,000 pages waiting for OCR

Google Vertex AI + Gemini + Google Colab
= OCR in batch

CHARACTER ERROR RATE
Lower the number,
higher the accuracy

	Non-AI	LLM aided
	ABBY FineReader 16	Gemini
Sample 1	Insertion: 23 Deletion: 2 Substitution: 13 38/422 9.00%	Insertion: 2 Deletion: 0 Substitution: 4 6/422 1.42%
Sample 2	Insertion: 3 Deletion: 8 Substitution: 5 8/148 10.81%	Insertion: 0 Deletion: 8 Substitution: 0 8/148 5.41%
Sample 3	Insertion: 27 Deletion: 1 Substitution: 25 53/634 8.36%	Insertion: 4 Deletion: 3 Substitution: 7 14/634 2.21%
Sample 4	Insertion: 16 Deletion: 4 Substitution: 3 23/207 11.11%	Insertion: 2 Deletion: 3 Substitution: 2 7/207 3.38%





Digital Initiatives & Research

Special Collections & Archives

OCR by Gemini: Newspaper Clippings

Over 7,000 newspaper clippings waiting for processing

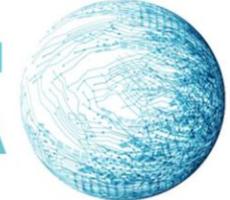
Outsourced vs Gemini

OCR coverage from basic information increased to full-text

Estimated **91%** Cost Saving

Estimated **87%** faster processing





Digital Initiatives & Research

Special Collections & Archives

OCR by Gemini: Presentations & Articles



Ms. Angela Luk
Library Officer
University Library



Mr. Enoch Wong
Project Administrator
University Library

Presentation title:
Using Gemini to support OCR in archaic Chinese materials – a case study



Fall Symposium on Digital Scholarship
2024

The Digital Orientalist

```

{
  "headlines": [
    {
      "headline1": "閩省人民政府救濟失業工",
      "headline2": "上期大專畢業學生已經全"
    }
  ],
  "date": "1950-10-24",
  "publisher": "人民日報",
  "author": "理",
  "fulltext": {
    "paragraph1": "【福州通信】閩省人民政府最近積極解決失",
    "paragraph2": "【福州通信】閩省上學期公立大學、學院"
  }
}

```

AI - CHINESE LANGUAGE, DIGITIZATION, NEW POST, OCR

An Experiment with Gemini Pro LLM for Chinese OCR and Metadata Extraction

Gemini

By Dr. Eric Chow
(Former Digital Scholarship Manager)



Digital Initiatives & Research

Special Collections & Archives

Face recognition for SCA Photos

Over 2,000 CDs & DVDs with over **1 million** HKBU's events photos from year 2005 to 2015.

Purpose:

- University Archive
- Identify HKBU key persons in the photos



Object Detection Machine Learning - Histogram of oriented gradients (HOG)

Difficulties in data training

- ✘ Faces of individuals naturally undergo changes as time passes
- ✘ How to find enough data sample?

Results from HOG



Digital Initiatives & Research

Resource Discovery & Management

Experiments with ChatGPT

Reclassification
Using ChatGPT to reclassify about 1,000 randomly selected English (DDC) and Chinese (Lai Classification) books to LCC

Accuracy rate (32% - 52%) is insufficient for large-scale automatic classification.

LCSH Subject Assignment
LLMs have the potential to reduce the cataloging time needed for assigning subject terms from LCSH

Catalogers remain essential for verifying and enhancing the validity, exhaustivity



Q&A

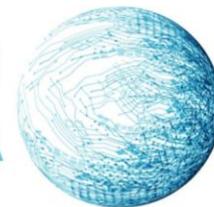


JULAC



2024 JULAC LIBRARIES FORUM

INNOVATING IN THE DIGITAL ERA



Digital Initiatives & Research

Resource Discovery & Management

Use of ChatGPT for LCSH Subject Assignment Presentation & Research Article

Research Articles

An Experiment with the Use of ChatGPT for LCSH Subject Assignment on Electronic Theses and Dissertations

Eric H. C. Chow , T. J. Kao & Xiaoli Li

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(Former Digital Scholarship Manager)



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Library

Academy of
Wellness and
Human
Development

Partnership
with CUHK &
HKUST

To engage teachers and students in discussing and exploring the potential of AIs in research, teaching and learning.

AI PLAYGROUND

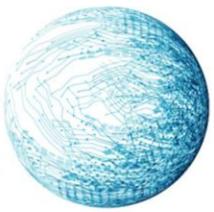
SHARING SESSIONS
Learn pedagogical uses of AI tools in different subject disciplines

AI PLAY STATION
Get hands-on experience with a range of AI tools

POSTER DISPLAYS
Explore the types of GPTs, prompting strategies and AI ethics

CONSULTATIONS
Chat about AI tools with colleagues





University Librarian

AI Task Force

User & Information Services

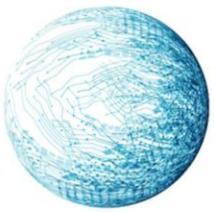
Digital Initiatives & Research

Resource Discovery & Management

Special Collections & Archives

Key takeaways

- Data training requires **careful selection of sources**
- Rapid GenAI evolution **demands frequent testing and adjustments**
- Every AI test provides **valuable learning experience**
- Non-technical users** can leverage AI through proper **prompt training**

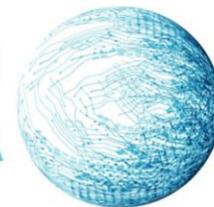


Deputy
University
Librarian

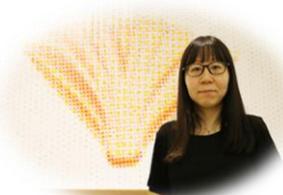
Message from Ms. Bethany Wilkes



Academic libraries play a crucial role in the thoughtful and effective adoption of AI, reinforcing their significance in the information and educational landscape while aligning with institutional goals. Cohesive and multi-pronged approaches demonstrate how **libraries not only embrace new technologies but also promote innovation and critical engagement**. By leveraging their solid foundation alongside forward-thinking strategies, **academic libraries can be central to enhancing research, learning, and teaching through the strategic integration of AI.**



Want to discuss further? Contact us now!



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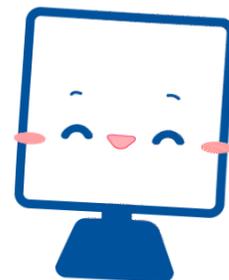
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多謝
THANK YOU



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