DocuSky 的數位重建與多維閱讀實作工作坊

Digital Reconstruction and Multidimensional Reading: A Hands-on Workshop with DocuSky

1、 工作坊基本資訊 I. Overview

課程一：DocuSky 的數位人文理路

Lesson 1: Digital Humanities Approaches with DocuSky: Concepts and Methodological Foundations

本課程以 DocuSky 數位人文學術研究平台為核心，帶領學員在實際操作之前，先行建立數位人文研究的基礎概念與方法意識。課程將介紹數位文本研究中不可或缺的思維視角：如何以「鳥瞰」的宏觀視野掌握語料全貌、如何在資料的脈絡關係中發掘文本的深層意義，以及如何運用結構化標記與分類體系，使傳統文獻轉化為可供分析的數位資源。透過概念講解與平台導覽的相互呼應，學員將能理解 DocuSky 的設計邏輯與人文研究之間的內在聯繫，為後續的數位重建與多維閱讀實作奠定扎實的方法基礎

This course centers on the DocuSky collaboration platform, guiding participants to establish a foundational conceptual and methodological framework before engaging in hands-on practice. The course introduces essential perspectives for digital text research: how to adopt a "bird's-eye view" to gain a macroscopic grasp of an entire corpus; how to uncover the deeper meanings of texts through their contextual relationships within a dataset; and how to employ structured markup and classification systems to transform traditional documents into analyzable digital resources. Through the interplay of conceptual instruction and platform orientation, participants will develop an understanding of the inherent connections between DocuSky's design logic and the practice of humanities research — laying a solid methodological foundation for subsequent work in digital reconstruction and multidimensional reading.

課程二：AI 協作下的 DocuSky 建庫

Lesson 2: AI-Assisted DocuSky Database Construction

本場次聚焦生成式 AI 在古籍文獻整理與數位人文建庫中的實作應用。前半以《宋高僧傳．感通篇》為例，示範如何運用 ChatGPT、NotebookLM、Gemini、Claude 等工具，提取人名、地名、時間、職官、事件、法門與經典等資訊，並說明領域知識在提示設計、資料判讀與錯誤修正中的關鍵作用。後半則以《通志．藝術傳》中十六國至北齊三十二位人物為材料，示範如何透過 Claude 製作人物詮釋資料，並進一步匯入 DocuSky 平台，建置可供檢索、分類與脈絡分析的資料庫系統。課程旨在說明 AI 並非取代研究者，而是透過人機協作提升資料整理效率，協助研究者將傳統文獻轉化為可分析、可視覺化與可延伸研究的數位資料。

This session focuses on the use of generative AI in organizing classical texts and constructing digital humanities databases. The first half uses the “Accounts of Miraculous Responses” section in the Song Biographies of Eminent Monks as an example, demonstrating how tools such as ChatGPT,

NotebookLM, Gemini, and Claude can be used to extract information including personal names, place names, dates, official titles, events, religious practices, and scriptures. It also discusses the crucial role of domain knowledge in prompt design, data interpretation, and error correction. The second half turns to the thirty-two figures from the Sixteen Kingdoms to the Northern Qi in the “Biographies of Artists” section of the Tongzhi, showing how Claude can assist in producing biographical metadata. The data will then be imported into the DocuSky platform to build a database system for searching, classification, and contextual analysis. This session presents a workflow that combines AI-assisted metadata creation with DocuSky-based contextual analysis, showing how traditional texts can be transformed into searchable and analyzable digital research materials.

課程三：DocuSky 的延伸實踐——法鼓數位人文研究平台

Lesson 3: DocuSky in Practice: The Dharma Drum Digital Humanities Research Platform as an Extended Application

本課程介紹以 DocuSky 脈絡分析系統為基礎所建置的法鼓數位人文研究平台，說明其如何將數位人文的方法理念落實於人文研究的具體場域。平台具備兩大核心特色：其一為一站式研究服務，涵蓋資料蒐集、整編、組織、分析至系統視覺化觀察等研究全流程，使研究者無需跨越多個工具即可完成完整學術工作；其二為壓縮式工作流程，從專案建立、檔案匯入、欄位對應、即時編修到一鍵建庫，以流暢的程序設計大幅降低技術門檻。本課程將帶領學員實際體驗平台操作，理解其設計邏輯如何回應人文研究者的實際需求。

This course introduces the Dharma Drum Digital Humanities Research Platform, developed on the foundation of DocuSky's contextual analysis system, and examines how its methodological principles are concretely realized within the fields of Buddhist and humanities scholarship. The platform is distinguished by two defining features. The first is its one-stop research environment, which supports the full spectrum of the research process — encompassing data collection, compilation, organization, analysis, and systematic visualization — enabling researchers to complete an entire scholarly workflow without navigating across multiple tools. The second is its streamlined and compressed workflow: from project creation and file import, through field mapping and real-time editing, to single-click database generation, the platform's procedural design significantly lowers the technical threshold for humanities researchers. Through guided hands-on exploration, participants will gain a practical understanding of the platform's operational logic and how its architecture responds to the genuine needs of humanities inquiry.

課程四：從建庫到深探——DocuSky 的資料加值、分析與視覺化實踐

Lession 4: From Database Construction to Deep Exploration: Practices in Data Enrichment, Analysis, and Visualization with DocuSky

本課程銜接自主建庫的成果，引導學員進一步掌握如何運用 DocuSky 平台上的多樣工具，持續豐富與深化個人資料庫。課程涵蓋三個遞進層次：首先是資料加值，透過標記、分類與詮釋資料等方式，在擴充既有資料集的同時，賦予原始文獻更豐富的研究意義與可分析性；其次是深化分析，運用平台工具對語料進行系統性探勘，發掘文本之間潛藏的規律、關聯與脈絡結構；最後是視覺化觀察，將抽象的資料關係轉化為可供詮釋的圖像呈現，實現研究者與材料之間更

深層的對話與互動。本課程旨在協助學員建立完整的數位研究工作循環，從資料建置延伸至知識生產。

This course builds upon participants' independently constructed databases, guiding them to further harness the diverse tools available on the DocuSky platform in order to continuously enrich and deepen their personal corpora. The course unfolds across three progressive dimensions. The first is data enrichment: through annotation, classification, and the interpretive layering of materials, participants learn to expand their existing datasets while simultaneously endowing source documents with greater analytical depth and research significance. The second is in-depth analysis: by applying the platform's analytical tools to conduct systematic corpus exploration, participants uncover latent patterns, interrelationships, and contextual structures embedded within the texts. The third is visualization and observation: translating abstract data relationships into interpretable visual representations, thereby enabling a more profound dialogue between the researcher and the materials. Taken together, the course aims to equip participants with a complete digital research cycle — extending from data construction through to knowledge production.

課程五：看見歷史的脈絡：運用安全 AI 建立時空 GIS 與互動展示

Lesson 5：Seeing Historical Contexts: Building Spatiotemporal GIS and Interactive Exhibitions with Safe AI

本工作坊結合 Safe AI 與 DocuGIS2，帶領人文研究者將文獻、圖片與歷史資料轉化為互動式故事地圖與 GIS 時空展示成果。課程將使用 本機端大型語言模型（LLM），確保研究資料不需上傳雲端，兼顧 AI 應用效率與學術隱私安全。學員將學習「Text-to-Map」技術，從文本中提取人物、地點與事件等時空資訊，並透過時空對讀功能分析歷史變遷。最終完成可互動展示的時空敘事成果，實踐從「閱讀文本」到「看見歷史脈絡」的數位人文研究方法。

This workshop integrates Safe AI and DocuGIS2 to guide humanities researchers in transforming documents, images, and historical materials into interactive story maps and spatiotemporal GIS visualizations. The course will utilize the local large language model (LLM), ensuring that research data does not need to be uploaded to the cloud, thereby balancing AI efficiency with academic privacy and security.

Participants will learn “Text-to-Map” techniques for extracting spatiotemporal information—such as people, places, and events—from textual sources, and will use spatiotemporal comparative analysis tools to explore historical change over time. By the end of the workshop, participants will produce interactive spatiotemporal narrative projects, putting into practice a digital humanities approach that moves from “reading texts” to “seeing historical contexts.”

二、授课團隊　II. Instructors

洪一梅 博士 臺灣大學資訊工程學系 博士後研究員；法鼓文理學院 兼任助理教授

Dr. I-MEI HUNG Postdoctoral Research Fellow, Department of Computer Science and Information Engineering, National Taiwan University；Adjunct Assistant Professor, Dharma Drum Institute of Liberal Arts

曹德啟 博士 法鼓文理學院 博士後研究員；兼任助理教授

Dr. Te-chi Tsao Postdoctoral Research Fellow and Adjunct Assistant Professor,Dharma Drum Institute of Liberal Arts (DILA)
林農堯 博士 彰化師範大學 博士後研究員
Dr. NUNG-YAO LIN, Doctoral Research Fellow, Graduate Institute of History, National Changhua University of Education

三、學習目標 III. Learning Objectives

完成本工作坊後，學員將能夠：

掌握數位人文核心概念：理解鳥瞰、脈絡、結構化標記等數位人文研究的基礎思維視角，並能將其應用於文本分析的實際場景。

運用生成式 AI 輔助建庫：熟悉 ChatGPT、Claude 等大型語言模型在古籍文獻整理中的操作方法，能有效提取人名、地名、時間、事件等詮釋資料，並理解領域知識在人機協作中的關鍵角色。

操作 DocuSky 平台進行資料建置：獨立完成從專案建立、資料匯入、欄位對應到資料庫生成的完整建庫流程，具備自主維護與擴充資料庫的基本能力。

實踐資料加值、分析與視覺化：能對既有資料庫進行持續的標記、分類與詮釋，運用平台工具進行系統性語料探勘，並將分析結果轉化為可供詮釋的視覺化呈現。

建立時空 GIS 與互動敘事成果：運用 Safe AI 與 DocuGIS2 工具，從文獻中提取時空資訊，製作可互動展示的故事地圖，實現從文本閱讀到歷史脈絡視覺化的完整研究流程。

By the end of this workshop, participants will be able to:

1. Grasp core digital humanities concepts: Understand foundational perspectives in digital humanities research — including bird's-eye reading, contextual analysis, and structured markup — and apply them to practical scenarios of textual analysis.
2. Employ generative AI for database construction: Demonstrate proficiency in using large language models such as ChatGPT and Claude to organize classical texts, extract metadata including personal names, place names, dates, and events, and critically assess the role of domain knowledge in human-AI collaboration.
3. Build databases using the DocuSky platform: Independently complete a full database construction workflow — from project creation and data import through field mapping to database generation — and maintain the capacity to expand and manage their corpora autonomously.
4. Practice data enrichment, analysis, and visualization: Continuously annotate, classify, and interpret existing databases; conduct systematic corpus exploration using platform tools; and translate analytical findings into meaningful visual representations.
5. Produce spatiotemporal GIS and interactive narrative outputs: Utilize Safe AI and DocuGIS2 to extract spatiotemporal information from historical texts, construct interactive story maps, and realize a complete digital humanities research pipeline from textual reading to the visualization of historical contexts.

四、課程安排　IV. Schedule

📅 7 月 22 日（周三）：DocuSky 的數位人文理路；AI 協作下的 DocuSky 建庫

Wednesday, July 22 : Digital Humanities Approaches with DocuSky: Concepts and Methodological Foundations；AI-Assisted DocuSky Database Construction

时间 Time	内容 Content
10:00 – 12:00	課程解說；課程一 Workshop overview；Lession 1
12:00 – 13:30	午餐 Lunch
13:30 – 15:00	課程二 Lession 2
15:00 – 15:15	茶敘 Coffee break
15:15 – 17:00	課程二 Lession 2

📅 7 月 23 日（周四）：DocuSky 的延伸實踐——法鼓數位人文研究平台；從建庫到深探——DocuSky 的資料加值、分析與視覺化實踐

Thursday, July 23 : DocuSky in Practice: The Dharma Drum Digital Humanities Research Platform as an Extended Application；From Database Construction to Deep Exploration: Practices in Data Enrichment, Analysis, and Visualization with DocuSky

时间 Time	内容 Content
09:30 – 12:00	課程三 Lession 3
12:00 – 13:30	午餐 Lunch
13:30 – 15:00	課程四 Lession 4
15:00 – 15:15	茶敘 Coffee break
15:15 – 17:00	課程四 Lession 4

📅 7 月 24 日（周五）：看見歷史的脈絡：運用安全 AI 建立時空 GIS 與互動展示

Friday, July 24 : Seeing Historical Contexts: Building Spatiotemporal GIS and Interactive Exhibitions with Safe AI

时间 Time	内容 Content
09:30 – 12:00	課程五 Lession 5
12:00 – 13:30	午餐 Lunch
13:30 – 15:00	課程五 Lession 5
15:00– 15:15	茶敘 Coffee break
15:15 – 17:00	課程五 Lession 5

五、課前準備清單　V. Pre-Workshop Checklist

5.1 設備與帳號　Devices & Accounts

- 自帶筆電與充電器　Bring your own laptop and charger
- 提前完成以下平台的帳號註冊：

Register accounts on the following platforms in advance :

- 法鼓數位人文研究平台 DILA Digital Humanities Platform：https://dhp.dila.edu.tw
- DocuSky 數位人文學術研究平台 DocuSky Collaboration Platform：https://docusky.org.tw

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承辦機構 / Organizing Institutions

Taiwan Association for Digital Humanities (TADH)
Department of Computer Science and Information Engineering, National Taiwan University (NTU)
Dharma Drum Institute of Liberal Arts (DILA)
Graduate Institute of History, National Changhua University of Education (NCUE)