

Database framework for small-scale datasets: some cases on field survey data collected in area studies in Southeast Asia.

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Toshiro Kamiya, Kyoto Sangyo University

- 20th July, 2024 -

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Case study of Small-scale databases

A search-specific database

Southeast Asian Periodicals Database
<13,752 items>

[日本語](#) [English](#) [Tiếng Việt](#) [အင်ဂျင်ဘာ](#) [ไทย](#) [ພື້ນລາວ](#) [ភាសាអាហັດ](#)

Southeast Asian Periodicals Database - v3.1 -

Extended Edition ([Switch to Core Journal Edition](#))

Search

TYPE MAGAZINE NEWSPAPER GAZETTE Others

Keyword Library | Reference

Title/Author Country Code

Publication Area Language Code

ISSN

A database utilizing cloud services

Hanoi Old Quarter Rubbing Database (demo)

[English](#) [Japanese](#) [Vietnamese](#)

<123 items>

Keywords

Temple name

Chùa Thành Nhàn

*Compatible browsers: Edge, Chrome, Firefox

景福寺漢喃本目録データベース（デモ）

キョウボクジハニバンモクドウベイ（デモ）

Chinese character babbling (chu nom)
Buddhist scriptures Database of Wat Samananam Borihan Temple

100 items

3,125 photos

ID	題名	卷	頁	書名	年代	著者	出版社	尺寸	説明
BB0002359	Thien(?)-2	BB0002359	BB00068194	2004198333	明治	著者不詳	著者不詳	24.8×14.1	説明
BB0002358	Triv(?)-4	BB0002358	BB00068194	2004198542	明治	著者不詳	著者不詳	25.2×15.1	説明

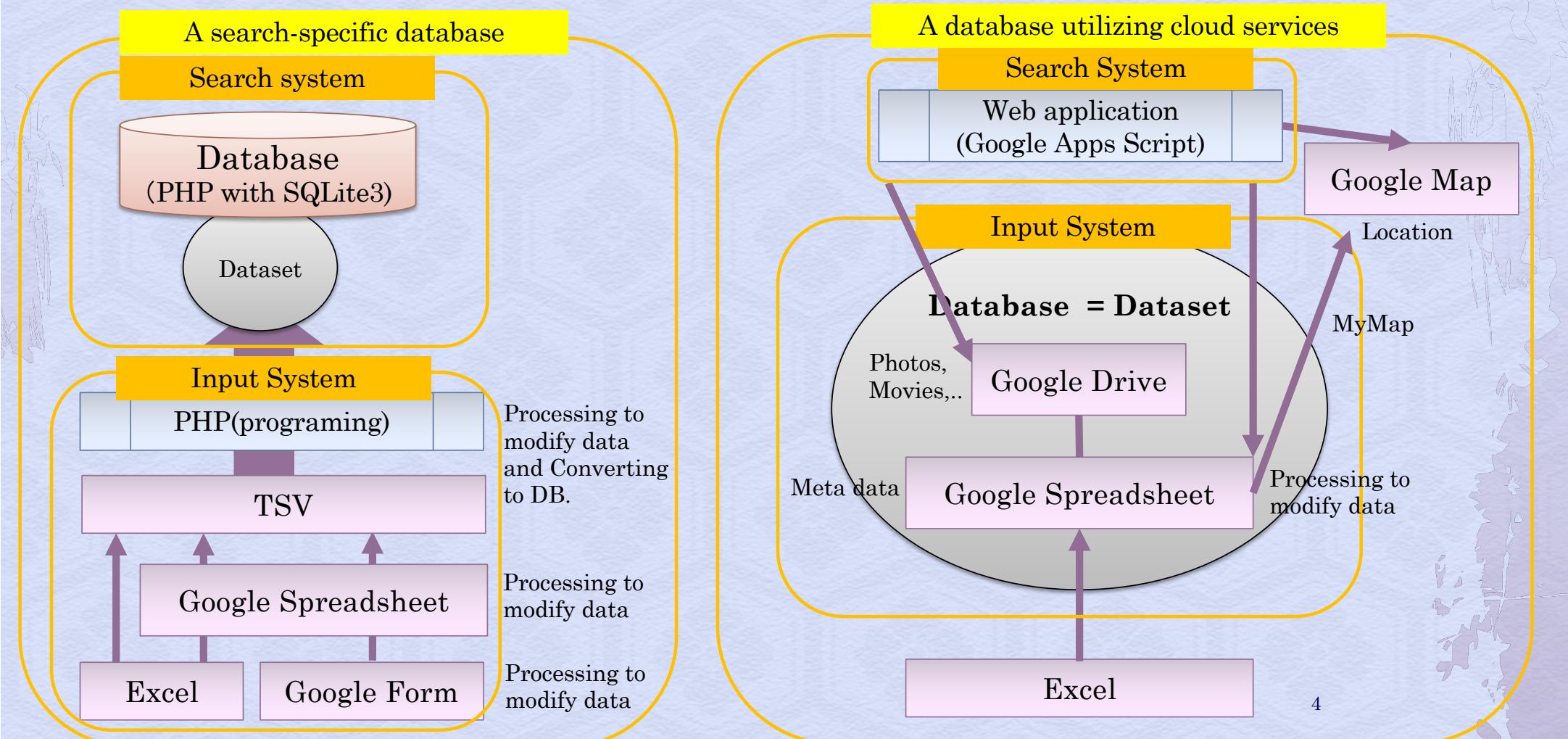
[DEMO] Thai Database of Three Seals Law(Thammasat University Edition)

<3,719 items>

<6,666 photos>

Thai Database of Three Seals Law(Thammasat University Edition)

Approaches of the database framework for small-scale datasets.



A database utilizing cloud services

Composition for a dataset utilizing Google cloud service

ハノイ拓本資料DVDリスト

ファイル 編集 表示 挿入 表示形式 データ ツール 拡張機能 ヘルプ 最終編集: 数秒前

G25 | Vườn Bách Thảo

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	box No	No	Number	Number of beer	Name	Street	Ward	Area	Comment	Latitude	Longitude	Address	Google Map	OpenStreetMap	Photos	
2	1	1	45	16 (17)	Đình Đền Chùa Vũ Thạc	13 Bà Triệu	Tràng Tiền	Hoàn Kiếm		21.02512	105.8519	Ng. Chùa Vũ Thạc, Tràng	https://maps.googleapis.com/maps/api/st	https://www.op	https://drive.google.co	
3	1	2	44	3(7)	Chùa Hảm Long	18 Hảm Long	Phan Chu Trinh	Hoàn Kiếm	2-2,2-7	21.01923	105.8538	18 P.Hảm Long, Phan Chu	https://maps.googleapis.com/maps/api/st	https://www.op		
4	1	2	44	3(7)	Chùa Hảm Long	18 Hảm Long	Phan Chu Trinh	Hoàn Kiếm	2-1,2-3,2-4,2-5,2-6	21.01923	105.8538	18 P.Hảm Long, Phan Chu	https://maps.googleapis.com/maps/api/st	https://www.op		
5	1	3	43	8(8)	Đền Ngọc Sơn	Giữa Hồ Hoàn Kiếm	Lý Thái Tô	Hoàn Kiếm		21.03069	105.8523	P. Đinh Tiên Hoàng, Hàng	https://maps.googleapis.com/maps/api/st	https://www.op		
6	1	4	42	3(3)	Đền Bà Kiệu	159 Đinh Tiên Hoàng	Lý Thái Tô	Hoàn Kiếm		21.03111	105.8535	59 P. Đinh Tiên Hoàng, Hàn	https://maps.googleapis.com/maps/api/st	https://www.op		
7	1	5	41	2(5)	Chùa Phúc Long	168 Trần Quang Khải	Lý Thái Tô	Hoàn Kiếm		21.03036	105.8567	16 D. Trần Quang Khải, Lý	https://maps.googleapis.com/maps/api/st	https://www.op		
8	1	6	40	3(3)	Đình Đền Trang Lâu	77 Nguyễn Hữu Huân	Lý Thái Tô	Hoàn Kiếm		21.03230	105.8546	77 Nguyễn Hữu Huân, Lý	https://maps.googleapis.com/maps/api/st	https://www.op		
9	1	7	21	số bia 4 + 1 chuông (8)	Đình Tân Khai	16 Hàng Gà	Hàng Bồ	Hoàn Kiếm		21.03592	105.8471	16 P. Hàng Gà, Hàng Bồ, H	https://maps.googleapis.com/maps/api/st	https://www.op		
10	1	8	39	1(1)	Đền Cây Xanh	158 Trần Quang Khải	Lý Thái Tô	Hoàn Kiếm		21.03359	105.8552	158 D. Trần Quang Khải, Lý	https://maps.googleapis.com/maps/api/st	https://www.op		

... > DB > 写真 >

種類 ユーザー 最終更新

名前 ↑

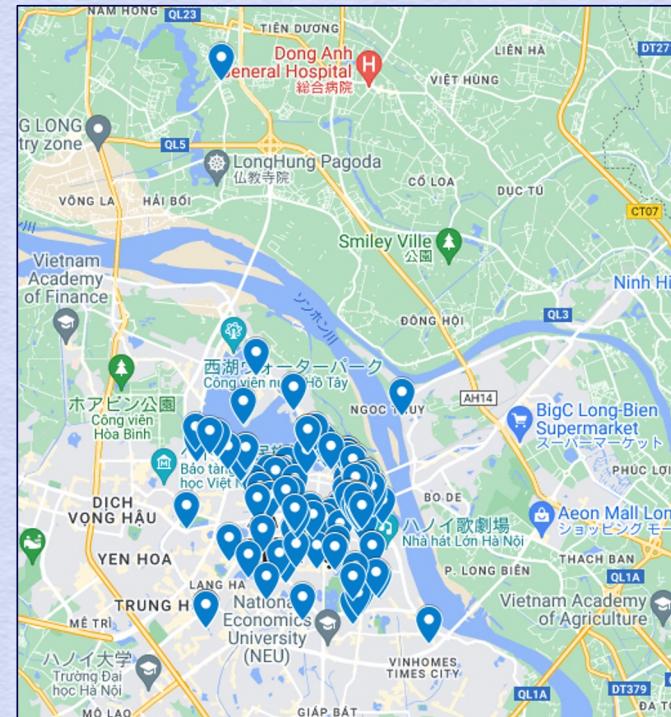
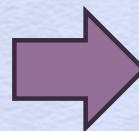
- 1-1-1
- 24-2-1(5)
- 101-6-3(6)

Google Drive folder URL in Photos item

A database utilizing cloud services

Visualization of data source locations in Google Maps

Limited sharing (private) with specific members is also possible



Google MyMap

Information on each location

Chùa Trấn Quốc	
ID	59
box No	2
No	34(16-)
Number	値なし
Number of beer	値なし
Street	73 Đường Thanh Niên
Ward	Quảng An
Area	Ba Đình
Comment	値なし
Latitude	21.0441908
Longitude	105.8363457
Address	73 Đ. Thanh Niên, Yên Phụ, Ba Đình, Hà Nam
Google Map	https://maps.googleapis.com/maps/api/p?center=73%20%C4%90%20Thanh%20n%20Y%C3%AAn%20Ph%C6%AD%20E1%BB%0Ba%20%C4%90%20C3%ACnh%2C%20H20N%20E1%BB%99i%20Vi%20E1%BB%m&key1=ACi1rjD1Esx31KiswW7SmwCi1rjD1Esx31&key2=YnrLACi1rjnrLACi1
21.04785, 105.83673	

Performance comparison on the approaches

	A search-specific database	A database utilizing cloud services
Processing Speed	High (PHP)	Slow (Google Apps Script)
Use Restriction	Not particular	Script runtime: 6 minutes (*1)
Display images using tag	No restrictions	Required: signed in to a Google account.
Import the data to the database	Only developer can be imported.	No need
Ease of applying to other datasets	Difficult	Easy

*1 Quotas for Google Services: <https://developers.google.com/apps-script/guides/services/quotas> 7

Case 1: Southeast Asian Periodicals Database

<https://sealib.cseas.kyoto-u.ac.jp/db/>

日本語 English Tiếng Việt ພາສາລາວ ທ່ານ ດෙශ ກාນධිය

Southeast Asian Periodicals Database
- v3.1 -

Extended Edition (Switch to Core Journal Edition)

Search

TYPE MAGAZINE NEWSPAPER GAZETTE Others

Keyword Library | Reference

Title/Author Country Code

Publication Area Language Code

ISSN

日本語 English Tiếng Việt ພາສາລາວ ທ່ານ ດෙශ ກාນධිය

Southeast Asian Periodicals Database
- v3.1 -

Extended Edition (Switch to Core Journal Edition)

Detail

Social science Diliman

TYPE	MAGAZINE
No.	(01)087PH10470
Country	Philippines (PH)
Language code	engtgl
Frequency	semiannual
Title/Author	Social science Diliman
Other Title	VT:Social science
First & Last Issue	Vol. 1, no. 1 (Jan.-June 2000)-
Publisher(Place, Publisher, Year)	Quezon City, Philippines : Research Dissemination and Utilization Office of the Office of the Vice Chancellor for Research and Development, University of the Philippines , 2000-
ISSN	16551524
LCCN	2001412764

Library Information

Organization No.	Library	Vol. and No.	Year(s)	Continuity	Call No.	Microform	Comment
JA087	Library, Institute of Developing Economies, Japan External Trade Organization						

Southeast Asian Periodicals Database

Core Journal Edition

TYPE	Japan <Core Journal>
MAGAZINE	432
NEWSPAPER	461
GAZETTE	143
Total	1,036

Indochina countries
Vietnam, Laos, Cambodia

Augmented Edition



Units	Japan <Core Journal>
Library Information	4,553
Organization	120

Mainland Southeast Asian Ethnic Minorities
Chin, Shan, Mon, Karen, etc.

*Number as of March 2024

- Library of Center for Southeast Asian Studies, Kyoto University
- Library of Institute of Developing Economies Japan External Trade Organization

Case 2: Hanoi Old Quarter Rubbings Database

The framework of the design and layout were utilized by ChatGPT Plus.

Hanoi Old Quarter Rubbing Database (demo)

[English](#) [Japanese](#) [Vietnamese](#)

Keywords

Temple name

Chùa Thanh Nhàn

Search

Reset

*Compatible browsers: Edge, Chrome, Firefox

To Detail Page

101

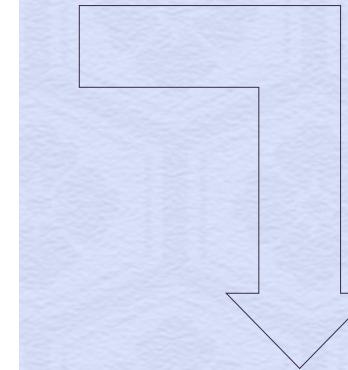
6

3(6)

6b

Temple name	Street	Ward	Area	Comment	Latitude	Longitude	Address	Google Map	OpenStreetMap	Photos
Chùa Thanh Nhàn	Ô Chợ Dừa	Đống Đa			21.0232337	105.8245724	68 Ng. 318 Đ. La Thành, Chợ Dừa, Đống Đa, Hà Nội, Việt Nam	Google Map	OpenStreet Map	Photos Link

TOTAL: 1,312
Digitalized: 123



Search Result

*Compatible browsers: Edge, Chrome, Firefox

Temple name: [Chùa Thanh Nhàn]

Number of Hits: 1

Database screen (demo) - detailed view

Hanoi Old Quarter Rubbing Database (demo) - Display in Detail

ID	101
box No.	6
No.	3(6)
Number	
number of beer	6b
Temple name	Chùa Thanh Nhàn
Street	
Ward	Ô Chợ Dừa
Area	Đồng Da
Comment	
Latitude	21.023237
Longitude	105.8245724
Address	68 Ng. 318 D. La Thành, Chợ Dừa, Đồng Da, Hà Nội, Việt Nam

Google Map

OpenStreetMap

Photos Link

Photos

Google Drive

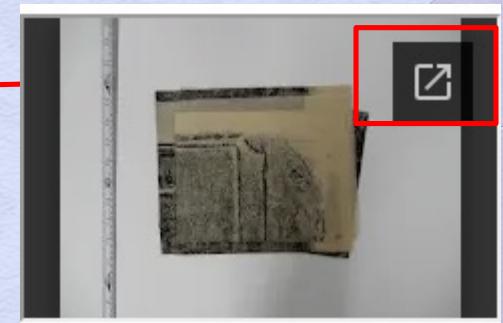
... > 写真 > 101-6-3(6) >

種類 ユーザー 最終更新

名前 ↑

- 6-3-1.JPG
- 6-3-2.JPG
- 6-3-3.JPG
- 6-3-4.JPG
- 6-3-5.JPG
- 6-3-6.JPG
- 中身 姿.JPG
- 封筒 表.JPG
- 封筒 裏.JPG

Pop-up to original image



Case 3: Buddhist Scriptures Database of Vietnamese Chinese character (Chu Nom): Wat Samananam Borihan Temple

景福寺漢喃本目録データベース（デモ）

ID	桜井目録	RB ID	書誌ID	資料ID	タイトル	言語	記録方法	形状	法量cm	頁	内容	作成情報
RB00033995	Thiên(天)-2	RB00033995	BB08586364	200041568333	佛說天地八陽經	漢語、字喃	鈔本	線裝（六針眼訂（簡））	24.8×14.1	[39]葉		
RB00033996	Tù(慈)-4	RB00033996	BB08586384	200041568342	慈悲水懺法卷下	漢語、字喃	鈔本	線裝（六針眼訂（簡））	25.2×13.1	[33]葉		
					百歲修	漢語、	鈔	線裝（四				「謹筆明洪廣恩禪作」

キーワード

タイトル

*対応ブラウザ : Edge、Chrome、Firefox

キーワード: [字喃]

ヒット件数: 38

TOTAL: 100

Images: 3,125

Kyoto University Rare Materials Digital Archive

The screenshot shows a digital archive interface for Kyoto University. At the top, it displays 'Kyoto University Rare Materials Digital Archive' in English and Japanese. Below the header, there's a navigation bar with links for Collection, Search, News, About, and Library. The main content area features a thumbnail grid of historical documents on the left and a detailed view of a document titled '佛說天地八陽經' (Fo Shuo Tian Di Ba Yang Jing) on the right. The detailed view includes a color calibration strip and various viewing options like 'マニエスト' (Maniesto), 'Universal Viewer', and 'Mirador'. Below the image, there's a summary table with details such as Record ID, Language, Publication year, Title in kana, and Publisher.

Record ID	RB00033995
Language	中国語、ベトナム語
Publication year	----
Title in kana	fo shuo tian di ba yang jing
Publisher	[出版地不明] : [出版者不明], [出版年不明]

Please use the URL below to link to this page:
<https://rmada.kulib.kyoto-u.ac.jp/en/item/rb00033995>

Related record
 佛說天地八陽經||fo shuo tian di ba yang jing
 <BB08586364>

Database screen (demo) - detailed view

景福寺漢喃本目録データベース（デモ） - 詳細表示

ID	RB00033995
桜井目録	Thiên(天)-2
RB ID	RB00033995
書誌ID	BB08586364
資料ID	200041568333
タイトル	佛說天地八陽經
言語	漢語, 字喃
記録方法	鉛筆
形状	綴装 (六針眼訂 (簡))
法量cm	24.8x14.1
頁	[39]葉
内容	
作成情報	
印記	

Image Type: TIFF
* About 40MB per file
* Total volume is about 142GB

Files Link

Files	
Files	

Case 4: Thai Database of Three Seals Law(Thammasat University Edition)

Search Result

[DEMO] Thai Database of Three Seals Law(Thammasat University Edition)

English Japanese

Keywords
sentence

Search Reset

*Compatible browsers: Edge, Chrome, Firefox

Keywords: [sentence]
Number of Hits: 5

No.	Thumbnail	volume	page	line	sentence
84		1	10 - 10	7 - 8	คั่นอยู่มา/กี/เก็ตวิวา/ แกกัน/ หา/ดู/ดี/จะบังคับมีญาณไม่ได้/
101		1	11 - 11	14 - 15	แม/อยู่มาพะนัคต้าพะนุหามาสมมุติร้า/ พท// oo/ พะนุหพ/ แม/พะนุหามา/อังกะ/อิบ/พะนุหพ/เล่า
126		1	13 - 13	8 - 9	อยู่มา/วันพี่นั่งบังเกิด/สมมาสูญ/ห้ามเป็น/ไหดู/ดัก/ก่อน

Detail Page

[DEMO] Thai Database of Three Seals Law(Thammasat University Edition) - Display in Detail

ประภาท/พระราชนปราภ

Items	Contents
volume	2
page	158 - 1
line	1 - 1
image1(djvu)	https://drive.google.com/uc?id=1Lvkw2xGx27KFfBgY8sFcxTbmmnJQU
image2(djvu)	https://drive.google.com/uc?id=1Q7ognF1bRqPx2YwPbicRsT8oFg5Ga

Academic DB:

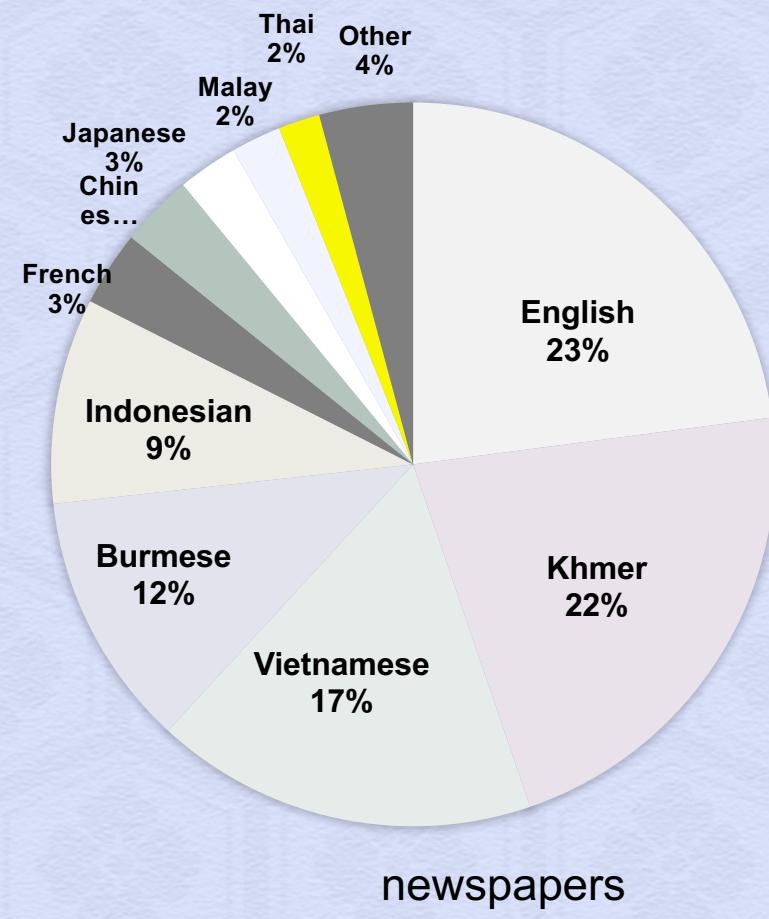
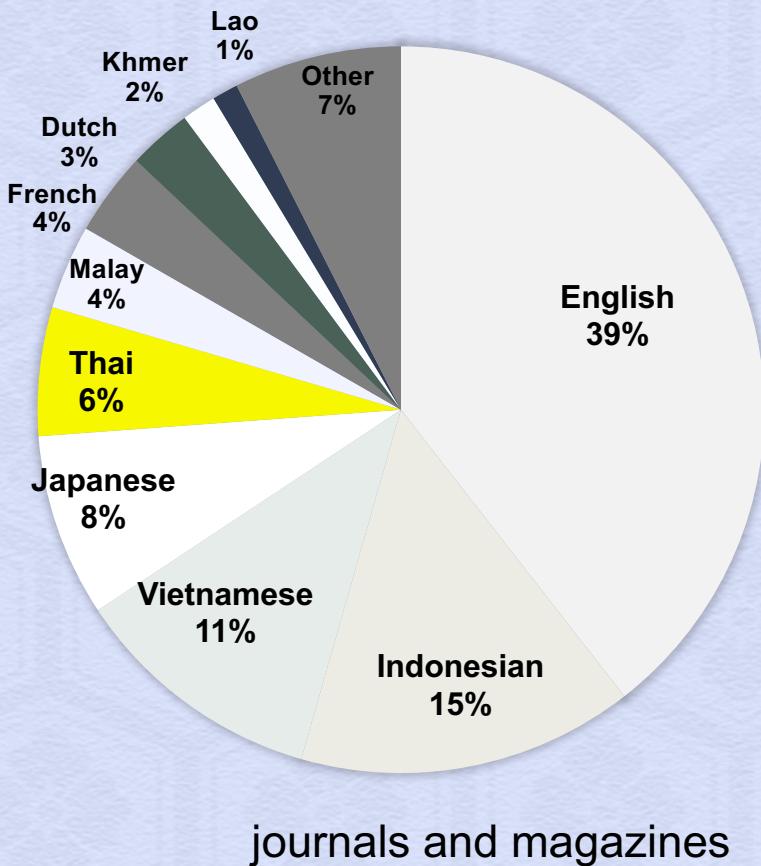
<https://kyoto.cseas.kyoto-u.ac.jp/database>

TOTAL: 3,719

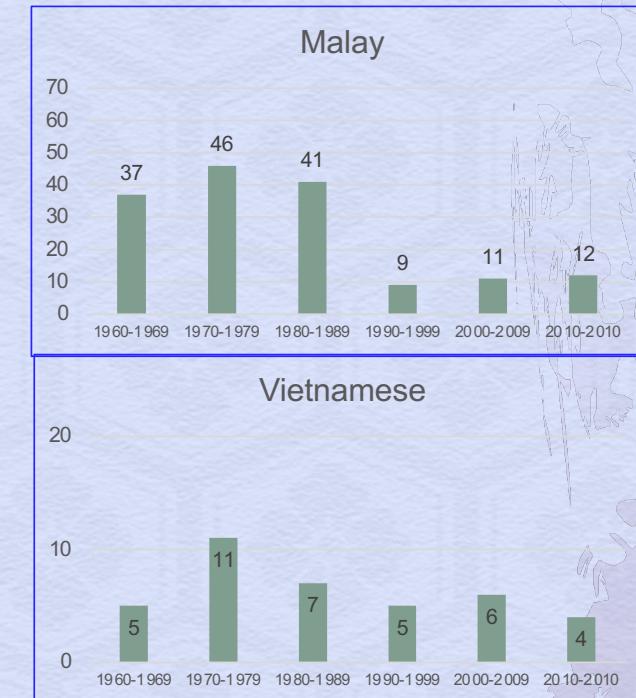
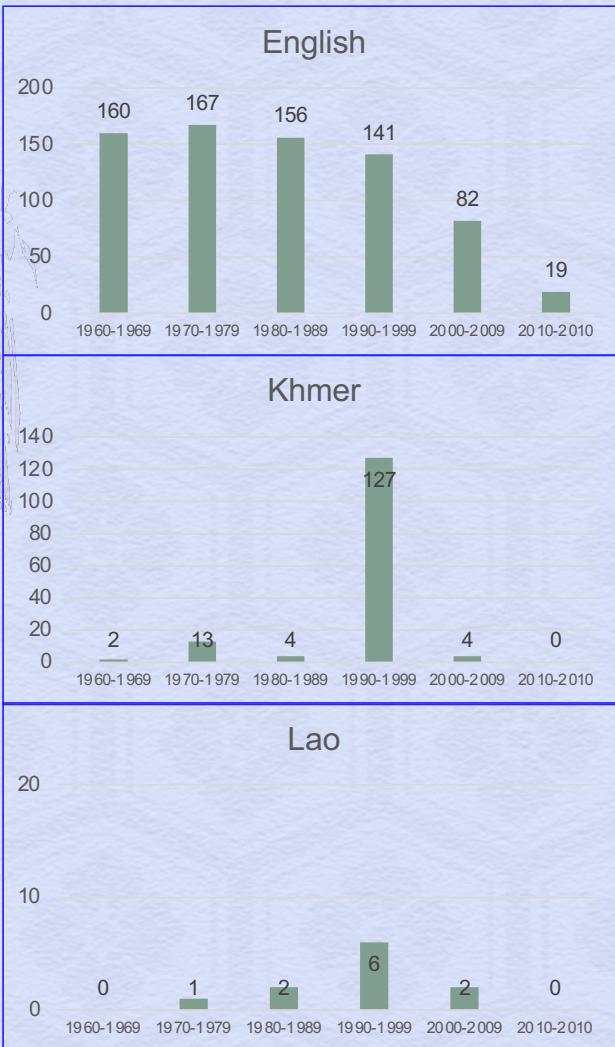
Images: 6,666

Analysis of Publishing Trend; Using the Database

Publishing trend of periodicals by language (analysing the database #1 : what language is used?)



Publishing trend of periodicals by language (analysing the database : the year of first publication)



Periodicals for the Minorities; the Shan People

Title	Medium	Language	Place of Publication
Hsenpai Media	WEB (Youtube)	Shan	BR
ယွတ်ဆင်း yaut "khūn'" (Market)	WEB (archive)	Shan	BR
ပီဇ္ဈာတံ့ ၂၁၁၄ ခုံး pī" mv' tai" 2114 n̩ (Shan New Year 2114)	WEB (archive)	Shan / English / Thai	BR
ပပ်.လိပ်ငင်တံ့ pap' yin' ne' tai" (Shan Culture Magazine)	WEB (archive)	Shan	BR
ပိုအောင်.ဂျူးပတော်,သာ။ puin' hū' patesā, (General Knowledge)	WEB (archive)	Shan	BR
လိုင်းလိုင်း cūin' lèv'" (Freedom Way)	WEB (archive)	Shan / English	BR
တုမ်းခေါင်,ဟန်တွဲ,ရှုံး Cum'" khāv' phū' toi.hauk" (Shan Herald Agency for News / S.H.A.N.)	WEB	Shan	BR
The Journal of Tai Studies	PRINTED	English	BR
ဒွေအောင် Kaun'" kho (Independence)	PRINTED	Shan	BR
ဖိုအောင်တံ့ မူနိလုံးယုန်ယွှောင်လိုက်တံ့ တရာ့ကသွဲ ဝိုင်းရအောင် Phuin' lik' Tai" muk' cum" yuk' yauñ' lik' Tai tak' ka suv' viñ'" Ran' kuñ' (Shan Literary Society University of Rangoon)	PRINTED	Shan / Burmese / English	BR
ရန်ကုန်တက္ကသိုလ် တိုင်းလူထော် Ran' kun' takkasui' Rham'" cā pe mrhañ' tañ' re" 'a sañ'" (The Rangoon university Tai youth magazine / Shan literary society university of Rangoon)	PRINTED	English / Burmese	BR
ဆူးတွဲ,ရှုံး Phū' toi.hauk" (Reporter)	PRINTED	Shan / Burmese / English	BR
ယွတ်ဆင်း Yaut "khūn'"	PRINTED	Burmese	BR
လွှဲ ထိန် ငင် တံ့ Laun' yin' ne' Tai (Speak in Shan)	PRINTED	Shan / Burmese	BR
သိုင် တံ့ Sen' Tai" (Voice of Shan)	PRINTED	Shan	BR
ဖိုအောင်၊ သားလွှဲတံ့ Phuin' lik" Sāicv' Tai" (Shan Life Book)	N.A.	Shan / English / Burmese	BR
ရမ်းပြည်နယ် မဂ္ဂောင်း Rham'" praññ' nay' Maggajañ'" (Shan State Magazine)	N.A.	Burmese / English	BR

Periodicals for the Minorities; the Hmong People

Title	Medium	Language	Place of Publication
18XEEM : Cultural Hmong Magazine	PRINTED	English, Hmong	Wisconsin, USA
Hmong Times	PRINTED	English	California, USA
Báo ảnh Dân tộc và Miền núi	WEB	Vietnamese, Hmong, and other minority languages	Hanoi, VNM
Hmong Daily News	WEB	English	California, USA
Hmong Today	WEB	English	Minnesota, USA
Hmong Star	WEB	English, Hmong	Minnesota, USA
Hmong Newsletter	WEB	English	Brussel, BEL (Unrepresented Nations and Peoples Organization /UNPO)

History and Future of the Project

Phase 1

Southeast Asian Periodicals Database

Core Journal Edition

FY2009 - 2013

Japanese Universities

To foreign libraries

Phase 2

Toward ethnic minorities

Phase 3

Extended Edition

FY2014 - 2020

Indochina countries
Vietnam, Laos, Cambodia

Mainland Southeast Asian
Ethnic Minorities Edition

FY2021 - 2023

Chin, Shan, Mon, Karen, Nùng, etc.

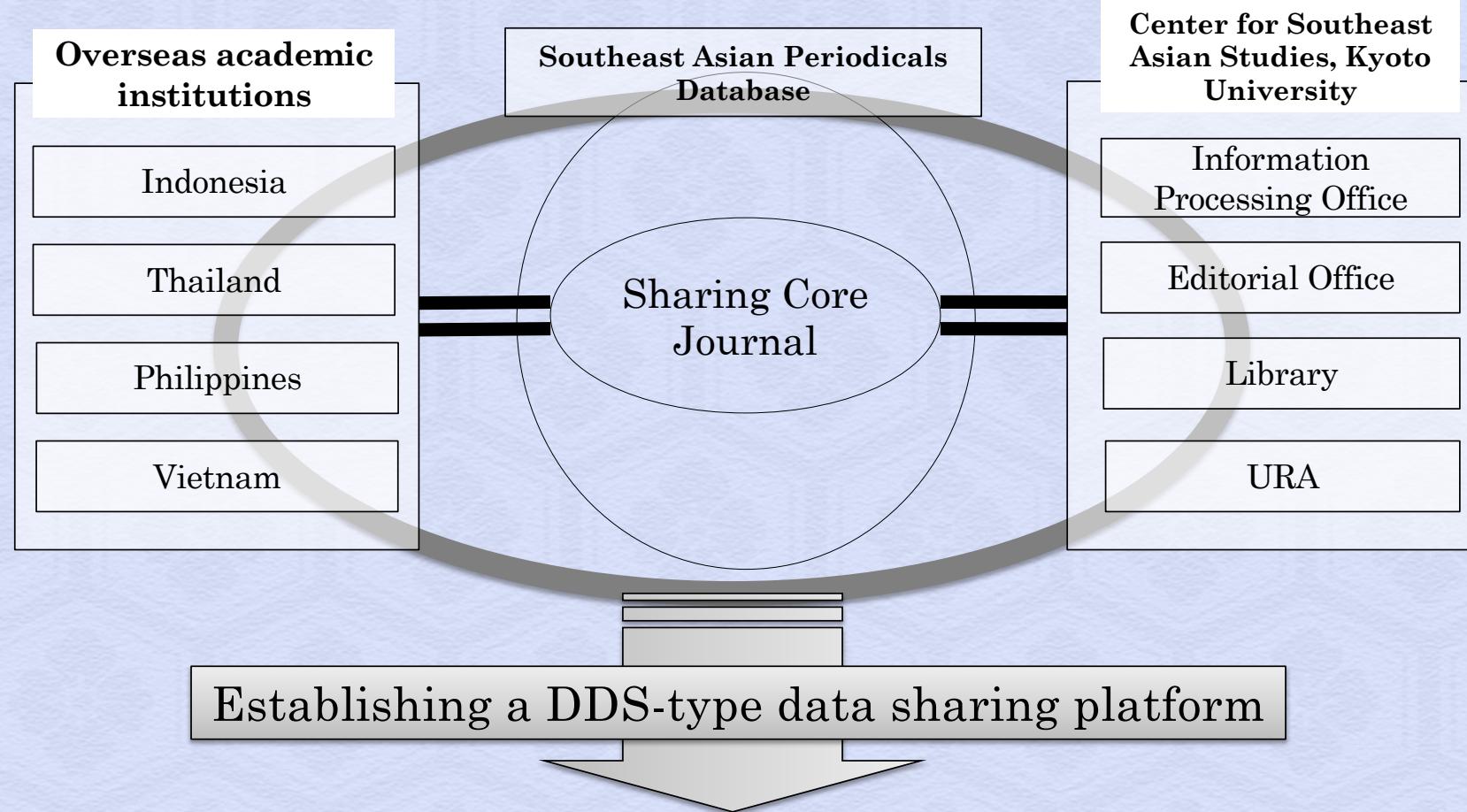
Phase 4

Construction of Academic database

FY2023 - 2025

Evaluation and Selection of "Core Journals" in
Southeast Asia Periodicals.

Further Collaborations



Southeast Asian regional studies considered from
the academic information base