

Use of Digital Archives with IIF Curation Platform

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Toward use of digital archives (based on informatics)

Providers

- Digital archives
 - Sustainability
 - OSS (Open Source Software)
- DOI (Digital Object Identifier)
- Use conditions/license
 - CC License
 - PDM(Public Domain Mark)



Standards/Technologies linking providers and users

Metadata



LOD (Linked Open Data)
RDF

Images



IIF
(International Image
Interoperability Framework)

Text



TEI
(Text Encoding Initiative)

⋮

Users

- Research/Education
 - Machine learning
 - Digital Humanities
 - Open science
- Dissemination
 - Exhibitions
 - Digital exhibitions
- Scholarly communication
 - Across institutions
 - Across subjects

⋮

Outline of this presentation

- Digital archive projects
 - The University of Tokyo "Kunshujo" (a collection of scrapbooks)
 - The University of Tokyo "The Tale of Genji"
 - The University of Tokyo "Hieratische Paläographie DB"
 - The University of Tokyo "Letter of Shelley"
 - Cultural Japan "Self Museum"
 - Toyo Bunko "Daimin-chiri-no-zu" (Edo period map of East Asia)
 - Individual research "Arrangement of data from Ottoman-Turkish documents"
- ICP-related tools

The University of Tokyo

"Kunshujo"

Development of Content Search System of
"Kunshujo" with IIIF and Open Data
Satoru NAKAMURA
Journal of the Japan Society for Digital
Archive, 3(2) 155–158, March 2019
https://doi.org/10.24506/jsda.3.2_155

Tanaka Yoshio: Natural History Collection, Distributed on August 6, 2018

田中芳男・博物学コレクション

検索 

詳細検索

101件中 1 - 40件を表示

1 2 3 » 最後 >

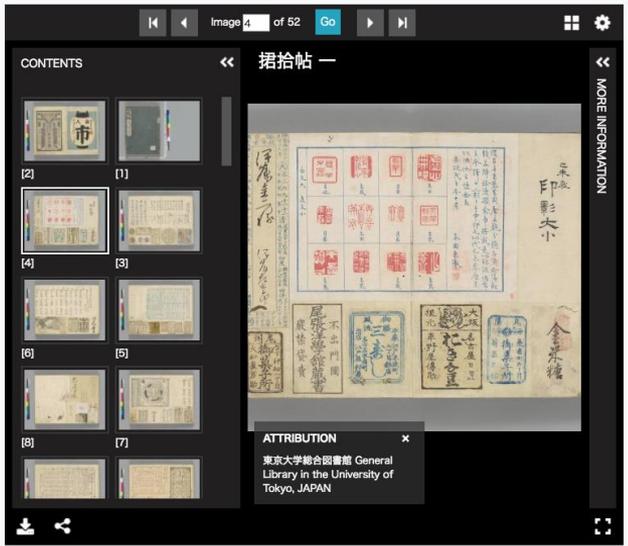
冊：昇順



摺拾帖一 摺拾帖二 摺拾帖三 摺拾帖四

摺拾帖五 摺拾帖六 摺拾帖七 摺拾帖八

摺拾帖一



CONTENTS << 摺拾帖一 >> MORE INFORMATION

Image 4 of 52 Go

ATtribution x
東京大学総合図書館 General Library in the University of Tokyo, JAPAN

画像のダウンロード (ファイルサイズが大きくなる場合がありますのでご注意ください。)
全コマダウンロード

メタデータのエクスポート json-ld rdf/xml turtle n-triples

電子展示『摺拾帖』

[一覧](#)
[地図で見る](#)
[カテゴリで見る](#)
[サムネイルで見る](#)
[年表で見る](#)
[このサイトについて](#)
[利用条件](#)
[その他](#)

選択行を比較

すべての選択を解除

Management of
cropped image
information

50 まで表示 1 row selected

50 件表示

検索:

前 1 2 3 4 5 ... 53 次

	タイトル	帖数	目録番号	書誌事項	枚数	年月日	地名	版	形態	内容	ICP
<input checked="" type="checkbox"/>	 白人市引札	『摺拾帖』第 1帖	16-A00-6010- 1-1	19.5×14.5 「現金亭 正味、手附庵三日、松 乃舎」とあり	1枚	安政 5年	尾張	木版	引札	文芸・芸能・ スポーツ・教育・出版・教 化	<input checked="" type="checkbox"/>
<input type="checkbox"/>	 嘉永校定東西地球万国全図	『摺拾帖』第 1帖	16-A00-6010- 1-2	22.0×15.5 東都文深 堂梓、栗原信晁再校、 為齋画、但し包紙の み、オランダ語で KAARTとあり	1枚	嘉永 6年	江戸	木版		常識・娯楽・ 遊戯・地図・ 食事	<input checked="" type="checkbox"/>
<input type="checkbox"/>	 芽子垣内月並兼 題	『摺拾帖』第 1帖	16-A00-6010- 1-3	15.5×20.7 1月は春 従東来とこうばい、1 2月は炭竈炯細とひか げ	1枚	安政 6年1 月	尾張	木版		文芸・芸能・ スポーツ・教育・出版・教 化	<input checked="" type="checkbox"/>

Recipe N2 - IIIF Curation Viewer Embedded - ★★



Simple display of image

Recipe N3 - IIIF Curation Player - ★

This screenshot shows the IIIF Curation Player interface. A red arrow points from the '拡大表示' button in the previous screenshot to the '拡大表示' button in this interface. The image is the same calligraphic artwork of a white market jar. The interface is more detailed, showing a metadata panel on the right side. The metadata panel contains the following information:

和暦	安政5年
西暦コード	18580099099
タイトル	白人市引札
版種類	木版
数量	1枚
書誌事項	19.5×14.5 「現金亭正味、手附庵三日、松乃舎」とあり
形態分類	引札
内容分類	文芸・芸能・スポーツ・教育・出版・教化
帖数	『摺拾帖』第1帖
地名	尾張

The interface also includes a navigation bar at the top with '前', 'ピックアップ1/1', '次', and '目' buttons, and a '2 / 52' indicator. A yellow callout box points to the image area with the text 'Display of image with metadata'. The footer of the interface reads '東京大学学術資産等アーカイブズ委員会事務局, Powered by IIIF Curation Player.'

Display of image
with metadata

Prototype of pasted item image search

- Automatic extraction of pasted items using deep learning (object detection)
- Use of 2,713 manually-created annotations as teaching data
- Management of cropped image information using the IIF Curation API

Development of Content Retrieval System of Scrapbook "Kunshujo" using IIF and Deep Learning
Satoru NAKAMURA

2019 IIF Conference, June 2019

<https://iif.io/event/2019/goettingen/program/38/>

The screenshot shows the IIF Curation Viewer interface. At the top, there is a search bar and navigation buttons. Below the search bar, there are three buttons: "検索" (Search), "ランダム" (Random), and "画像操作" (Image Operation). The main content area displays a grid of image thumbnails. Each thumbnail is accompanied by a title and a page number, such as "摺拾帖 四八 p.174", "摺拾帖 四五 p.79", "摺拾帖 三十一 p.9", "摺拾帖 四六 p.48", and "摺拾帖 七一 p.91". Below each thumbnail, there is a metadata section with fields for "所蔵" (Collection), "帖名" (Title), "抽出方法" (Extraction Method), and "機械タグ" (Machine Tag).

Two yellow callout boxes highlight specific features:

- Use in a machine learning pipeline**: Points to the search bar and the "検索" button.
- Image display using the IIF Curation Viewer**: Points to the grid of image thumbnails.

[Example](#)

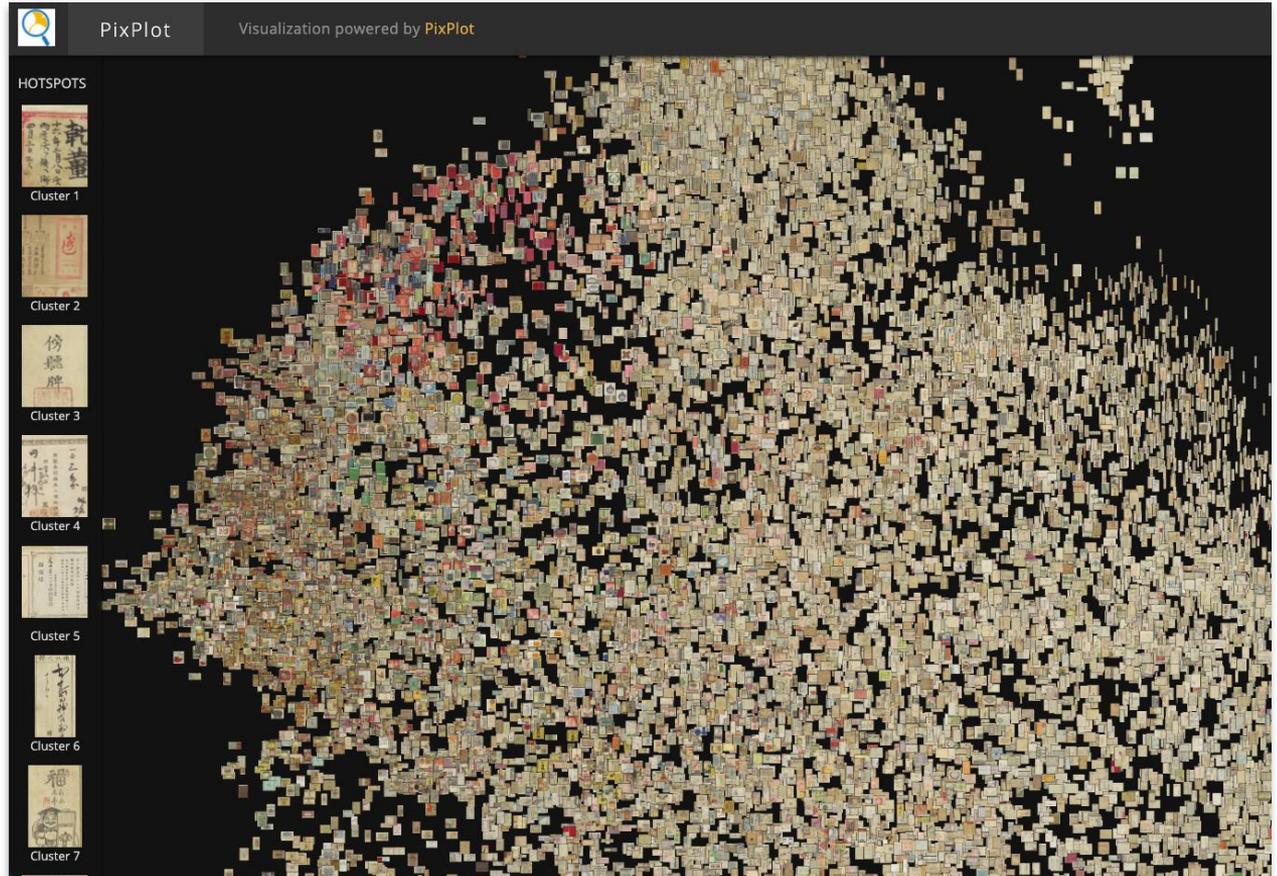
Application:

Visualization of large-scale image collections

Function: Use of IIIF curation list as input data

Source code

<https://github.com/YaleDHLab/pix-plot>



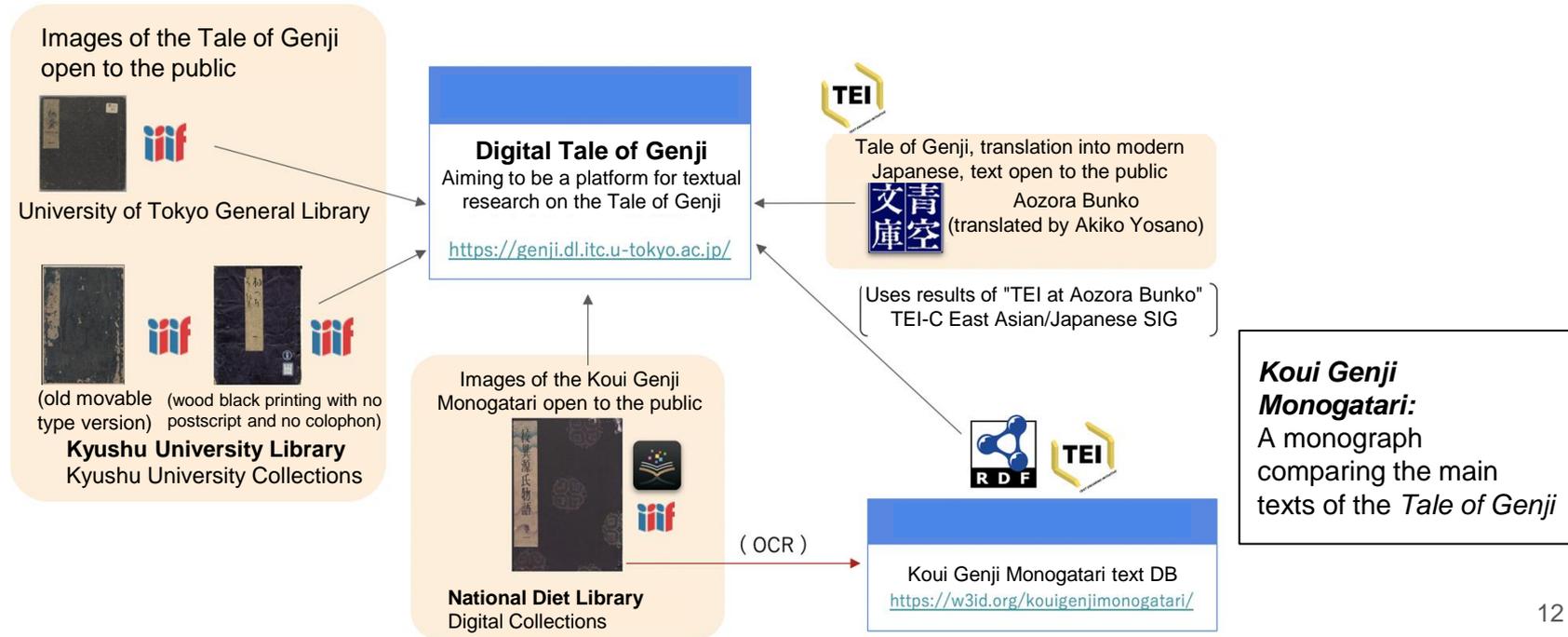
The University of Tokyo

"The Tale of Genji"

Use of IIIF/TEI in Development of the Genji Monogatari
Textual Research Support System "Digital Tale of Genji"
Satoru NAKAMURA, Takashi TAMURA, Kiyonori NAGASAKI
Research Report – Humanities and Computers (CH) 2020-
CH-124(2) 1–7, September 2020 (in Japanese)
<http://id.nii.ac.jp/1001/00206588/>

Digital Tale of Genji

By collecting and creating various types of data relating to the *Tale of Genji*, and linking them to the text, this system aims to provide an environment to assist *Tale of Genji* research, as well as education and research activities using classical documents



Examples of functions provided in the Digital Tales of Genji

Example

Association in page no. units of the *Kouji Genji Monogatari*

Images of the *Tales of Genji*

Management of page nos. for multiple images

Text of the *Kouji Genji Monogatari*

Association in sentence units with the modern Japanese translation

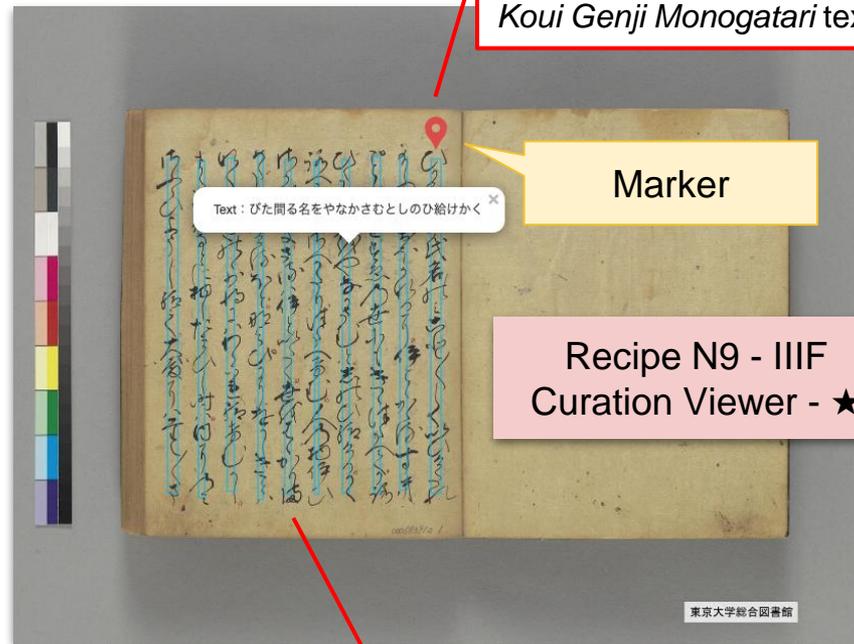
Modern Japanese translation (Aozora Bunko, transl. by Akiko Yosano)

The screenshot displays a digital viewer interface. At the top, there are tabs for different sections: '校異源氏...', '東大本', and '九大本...'. Below the tabs are several image thumbnails of manuscript pages, each with navigation arrows. A red box highlights one of these thumbnails. Below the thumbnails is a large view of a manuscript page with handwritten Japanese text. A red box highlights a specific sentence in the original text. Below the original text is a modern Japanese translation. A yellow callout box points to the page number management area. A blue box points to the association between the image units and the text units.



Assignment of page numbers of *Koui Genji Monogatari* to images

- Uses the KuroNet Kuzushiji Character OCR service developed by CODH
 - Text data in line units is generated by using an automatic reading order inference algorithm
- Edit distance is calculated for the cursive character OCR text and first line of each page of the *Koui Genji Monogatari* text created in ①
- The page number of the *Koui Genji Monogatari* is automatically assigned to the line with the highest similarity, and the result is manually checked
 - Precision is roughly 90%



Text conversion of each line using KuroNet Kuzushiji Character OCR

Summary: Developed data (5 main collaborators)

	Method	Created data	Quantity
(1) Creation of text data for the <i>Koui Genji Monogatari</i>	<ul style="list-style-type: none"> ● Omeka S ● Scripto 	TEI-compliant XML files	<ul style="list-style-type: none"> ● 54 volumes out of 54 ● 1,812 pages, 856,495 characters
(2) Assignment of page numbers of the <i>Koui Genji Monogatari</i> to distributed images	Kuzushiji Character OCR	Kuzushiji Character OCR text	3,977 pages, 1,687,192 characters
	<ul style="list-style-type: none"> ● Edit distance ● Manually checking 	IIIF Curation API compliant JSON files	<ul style="list-style-type: none"> ● Univ. of Tokyo book ● Kyushu University books (2 types) ● <i>Kogetsusho</i> (commentary) (23 volumes out of 54)
(3) Association of <i>Koui Genji Monogatari</i> and modern Japanese translation	<ul style="list-style-type: none"> ● Aozora Bunko text ● <anchor/> tags 	TEI-compliant XML files	9 volumes out of 54

List of lacunae and pages out of order

- Management of lacunae and pages out of order across multiple manifests

Recipe N10 -
IIIF Curation API - ★★

Recipe N11 -
IIIF Curation Viewer - ★

東大本・脱文錯簡リスト

東大本の画像に『校異源氏物語』及び『新編日本古典文学全集』の頁番号を付与していく過程で、これら両書の本文との比較において、東大本に本文の脱落や錯簡（緩じ違いなどで、頁の順序が乱れていること）が起こっていると判断される箇所が複数見つかりました。以下がその一覧です。なお、該当箇所の画像にも赤色三角のアイコンを表示し、説明を付しています。

巻	タイトル	コマ数	説明	種類	画像を見る
			右4行目「ふりすつてけふはゆくともす」か川やそせの浪に袖はぬれじや」に対する源氏の返歌は本来「す」か河やそせの波にぬれぬれすいせまでたれかおもひをこそん」であるが、東大本は「なかもやらんこの秋はそ」に飛んで、この歌を返	脱文	
			占紙により本文が補記され		
			かたらひまいぬ。いとよ」の箇所は、「かたらひ」は本来「こまやかにかたらが通常。	脱文	
			さのみは待らじと」の後は5ことなれば」と続くが東簡がなく、続く4行目の途中	脱文	
			が、本来は巻33「藤裏葉」		
			行は「真木柱」の最後の部いせずとはしたなかりている。	錯簡・脱文	
			マ左に続く。	錯簡	
			と「し」とそ思ひける		

Example

The University of Tokyo

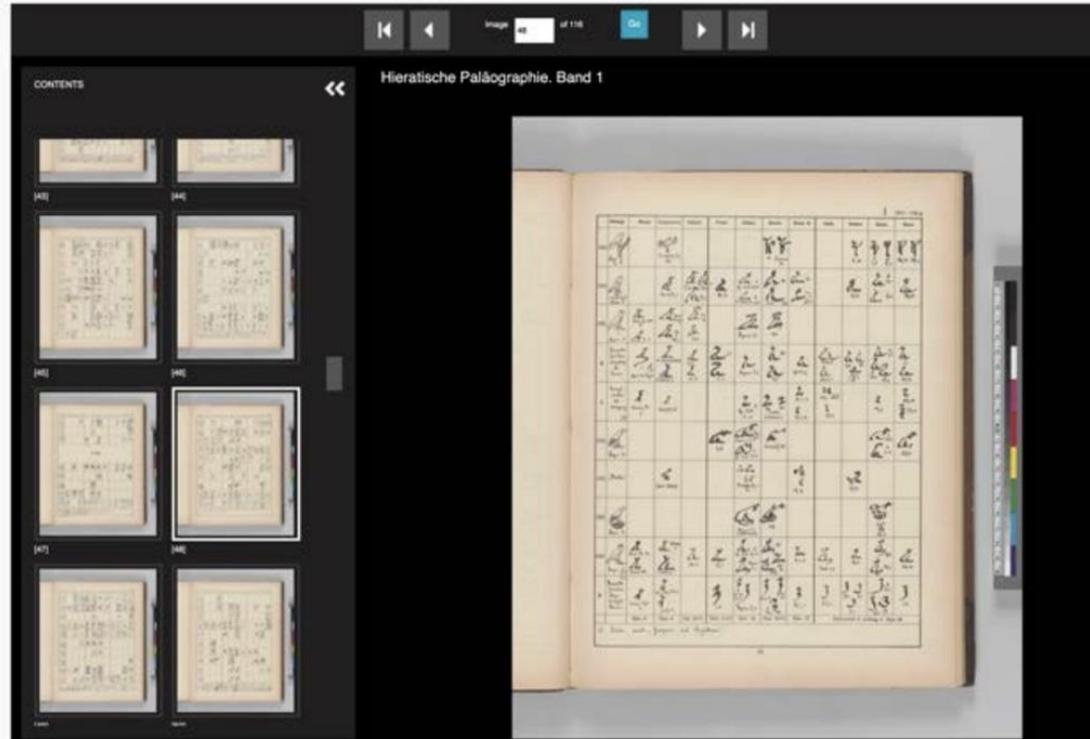
Hieratische *Paläographie* Database

Development of Hieratische Paläographie DB
Satoru NAKAMURA, Masakatsu NAGAI,
Toshihito WAKI, Yona TAKAHASHI
Proceedings of Jinmoncon 2020, 191–196,
December 2020
<http://id.nii.ac.jp/1001/00208595/>

George Möller, *Hieratische Paläographie*

Band I, 1909; II, 1909; III, 1912; IV, 1936

Hieratische Paläographie. Band 1



- University of Tokyo Asian Research Library Digital Collection
- Hieratic dictionary
- More than a century has passed since publication of the first volume, but even today, this dictionary is essential when learning or researching hieratic

Issues with the Möller dictionary

- **Möller's (hieratic) character nos.** differ from the **hieroglyph character nos.**, and other correspondence table is needed.
- Characters can not be searched based on their phonetic value or word consonant transcription.
- Multiple pages must be checked when searching for interpretation candidates for a single character.

Old  New

Hierogl.	Absir	Elephantine	Hahnub	Prisse	Illahun	Sinche	Bulaq 18	Math.	Westcar	Golen.	Ebers
2. 		 (Kaiser 25975 2-7)	 23, 1 dwr	 10, 6. dwr		 275 dwr				 11, 1 dwr	 107, 10.

HieraticNo

HieroglyphNo(e.g. A30)

Recipe N12 - IIIF Curation API -

★★★

[Example](#)

Management of more than 2,000 pieces of cropped image information from multiple (3 volumes) items (IIIF manifests)

検索結果: 2,065件見つかりました。

並び順 ヒエラティ... 表示数 24 レイアウト デフォルト

絞込み条件

タイプ (3件) ↑

- 基本字 1,626
- 数字類 251
- 連字 188

更新

サブタイプ (6件) ↑

- 数詞 118
- 体積 45
- 日付 33
- 分数 25
- 面積 17
- 尺 13

更新

単位 (2件) ↑

0 件のアイテムを比較 リスト

アイテム番号 1
ヒエラティック番号 1
ヒエログリフ番号 A26
タイプ 基本字 単位 単字
音価/語 nis, ?
巻数 2, ページ 1, 順序 1
備考

アイテム番号 1
ヒエラティック番号 1
ヒエログリフ番号 A26
タイプ 基本字 単位 単字
音価/語 nis, ?
巻数 3, ページ 1, 順序 1
備考

アイテム番号 1bis
ヒエラティック番号 1bis
ヒエログリフ番号 A83
タイプ 基本字 単位 単字
音価/語 nis
巻数 3, ページ 1, 順序 2

Recipe N13 - IIIF Curation Viewer

Embedded - ★★

[Example](#)

Simple display of cropped image

『ヒエラティック古書体学』データベース

検索

日本語

Image display with a specific section of the image emphasized with a boundary

[Example](#)

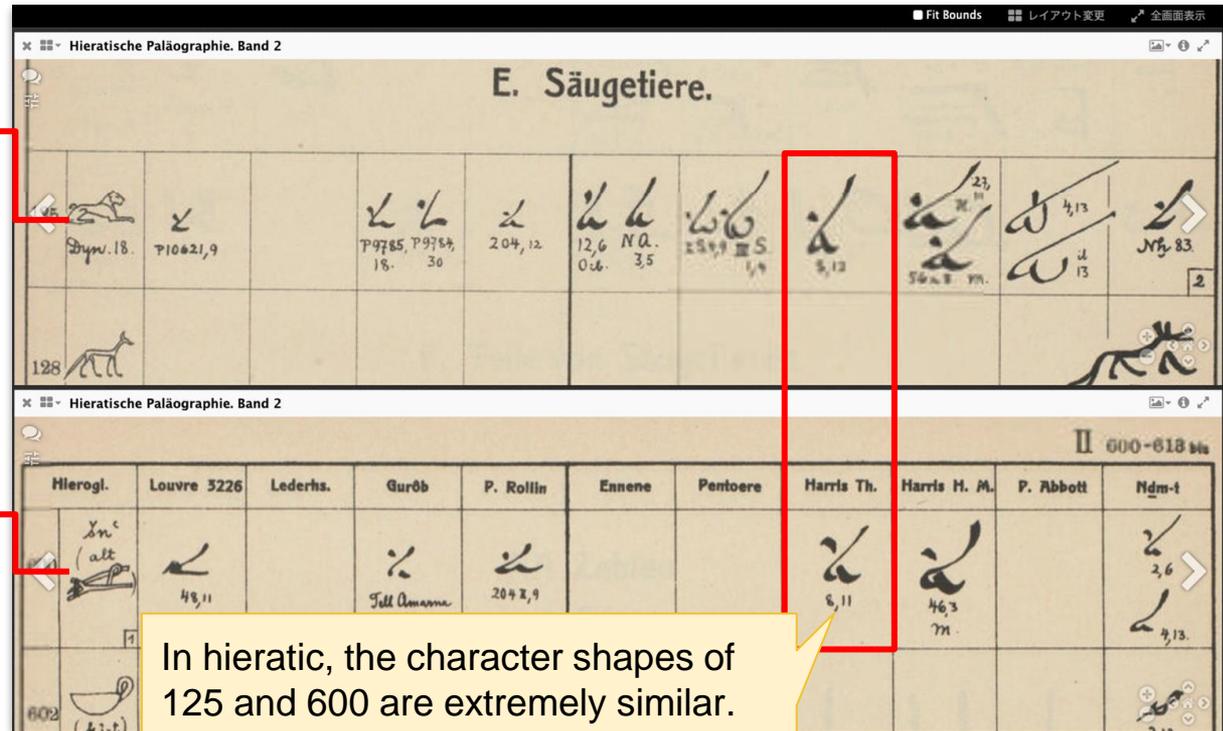
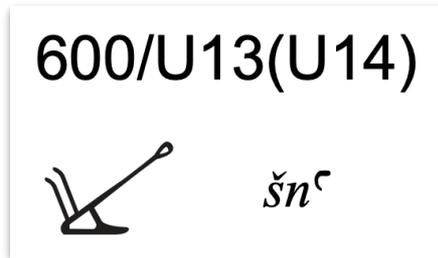
Recipe N14 - IIIF Curation Viewer - ★

ページ 1

順序 1

アイテム番号 1

Comparison of images cropped using Mirador



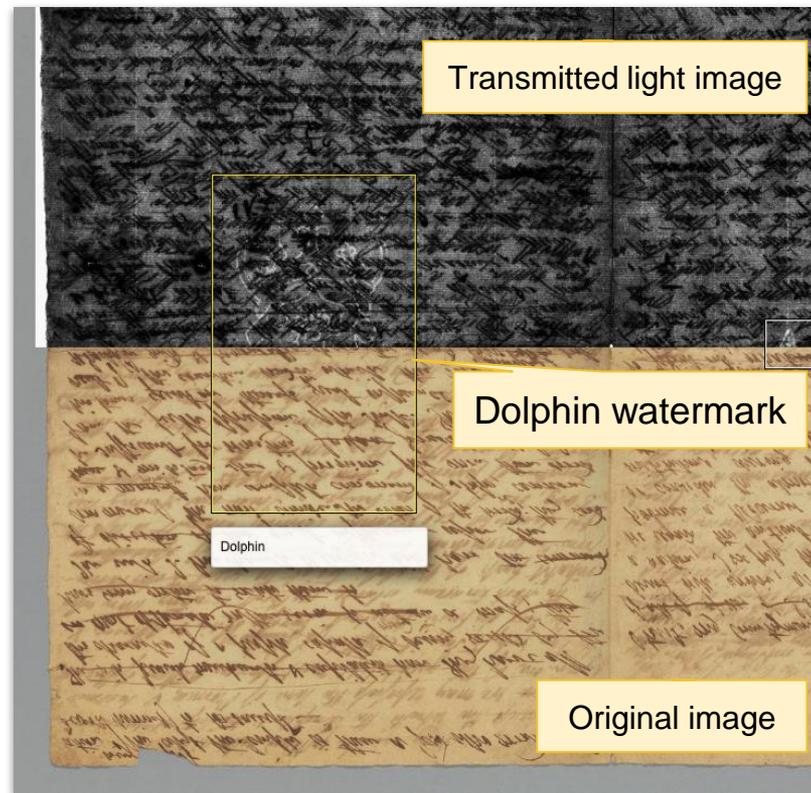
In hieratic, the character shapes of 125 and 600 are extremely similar. There is a possibility that scribes did not distinguish the two characters.

The University of Tokyo

Shelley's Letter

Shelley's letter

- Handwritten manuscript of Percy Bysshe Shelley (1792-1822) collected as a rare document at the University of Tokyo's General Library
- Transmitted light images
 - "The fact that the paper of this manuscript has a watermark has also been pointed out by Professor Tatsuo Tokoo, a leading expert in Shelley research. Therefore, after imaging the "Fragment of an Address to the Jews," transmitted light photography was carried out to reveal the watermark pattern again, and an image was produced with processing to make the watermark more visible."
 - <https://iiif.dl.itc.u-tokyo.ac.jp/repo/s/shelly/page/about>



IIF applications using transmitted light images

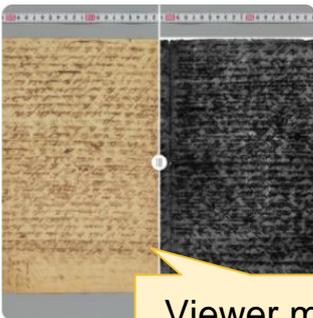
[Example](#)

東京大学総合図書館所蔵 シェリー書簡

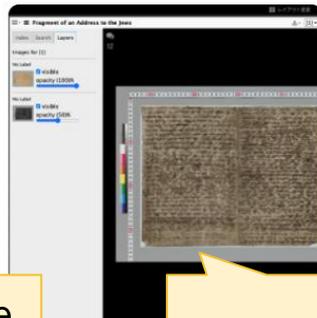
公開元サイト

GITHUB

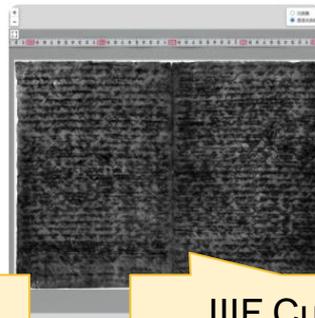
透過光画像を使ったIIFアプリケーション



Viewer made
by Digirati



Mirador



IIF Curation
Viewer Embedded

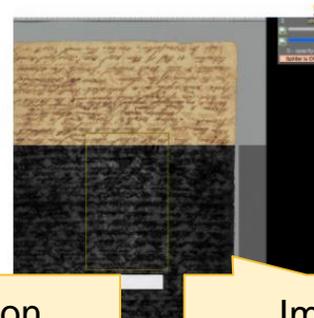


Image
Annotator

Cultural Japan

Self Museum

Usage of Japan Search RDF Model in the
Development of Cultural Japan
Satoru NAKAMURA
Journal of the Japan Society for Digital
Archive, 4(4) 348–351, October 2020
https://doi.org/10.24506/jsda.4.4_348

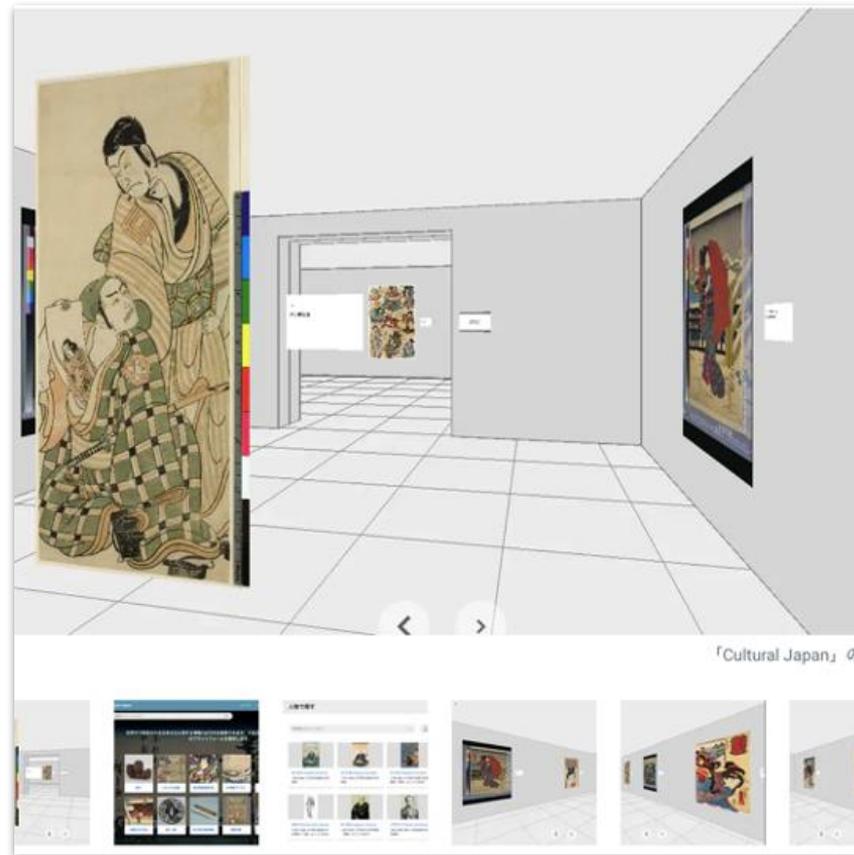
Cultural Japan

Opened to the public on August 1, 2020

A system for improving discovery potential by gathering 1 million data items relating to Japanese culture distributed by institutions all over the world

<https://bijutsutecho.com/magazine/news/headline/22458>

IIF collection and **IIF curation lists** are supported as input formats for the Self Museum



<https://cultural.jp/>

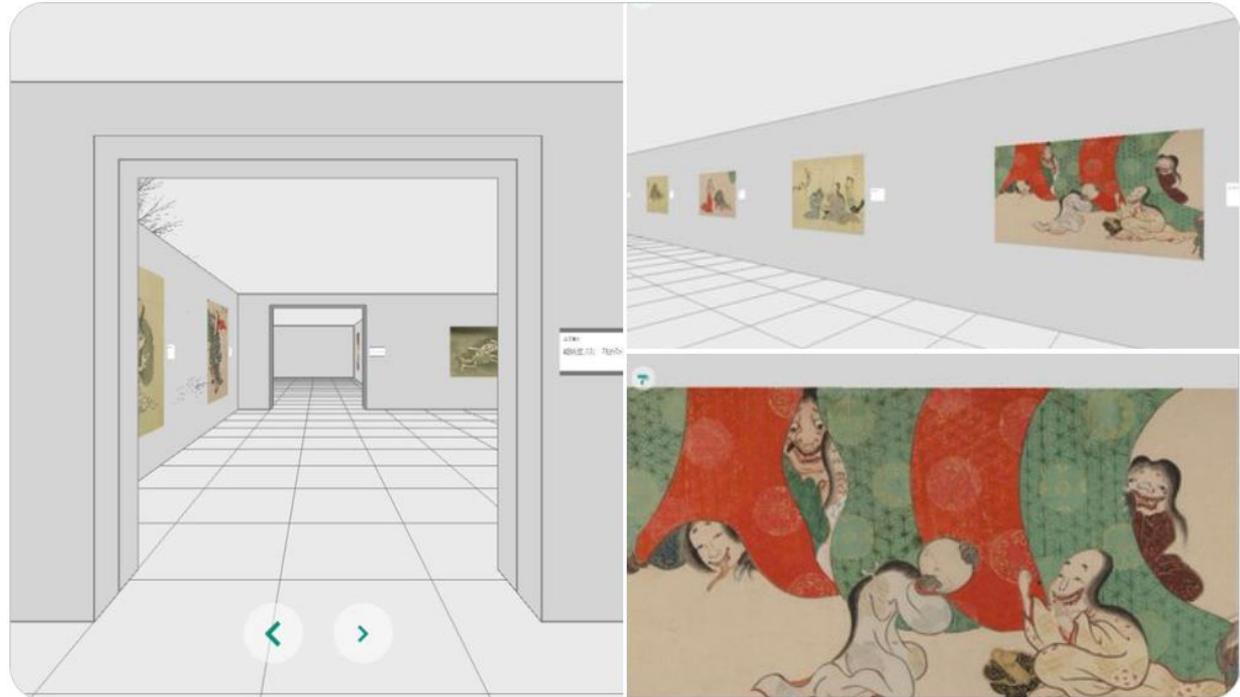
University of Tokyo, General Library Virtual Museum

[Example](#)

[Content at the Self Museum]

- Pictures of the University of Tokyo from the Meiji era – From the photo album "Tokyo Imperial University" –
- A comparative look at picture scrolls – From the *Hyakki Yagyo* ("Night Parade of One Hundred Demons") –
- A la carte items from the General Library

<https://www.lib.u-tokyo.ac.jp/ja/library/general/event/20201120>



Other

- Use as a viewer for IIIF compatible items

Cultural Japan

場所を探す 時代で探す 人物で探す カテゴリで探す RDFストア 日本語

検索語を入力してください

フィルタ

Kiritsubo

原タイトル: 桐壺

東大図書館画像データ等利用条件

マイリストに登録

IIIFマニフェスト & ビューア

IIIF Curation Viewer

Kuzushiji Character Recognition Viewer

RDFデータ表示 収録DBで開く 高精細画像を開く

基本情報 詳細情報 共有

人物・組織 紫式部著

所蔵機関 東京大学総合図書館

タイトルが似ているアイテム (上位20件) もっと見る

Recipe N19 -
IIIF Curation Viewer - ★

Recipe N20 -
Kuzushiji Character
Recognition Viewer - ★

Toyo Bunko

"Daimin-chiri-no-zu"

Usage of Digitized "Daimin-chiri-no-zu"

Satoru NAKAMURA

Old Maps in Asia: Basic Information and
Perspective for New Research, The Seventh
International Symposium of Inter-Asia
Research Networks, December 8, 2018

<http://id.nii.ac.jp/1629/00007055/>

IIF Curation Map Search

Application: Display and searching of a large number of annotations for a single large image (e.g. a map)

Content: Provides simple search for IIF curation lists

Source code:

<https://github.com/nakamura196/i3#iif-curation-map-search>

If you click on a place name, that area is displayed enlarged

The screenshot shows the IIF Curation Viewer interface for the '大明地理之図' (Great Ming Geographical Map). The interface is in Japanese and includes a list of place names, a search bar, and a table of annotations.

Place Names:

- 四川道 貴州道 始安嶺 衡山 嵩山 岱山
- 雲間寺 (灵徳寺) 浄慧寺 廣利寺 天童寺 恒山 華山
- 臨賀嶺 都龐嶺 騎田嶺 大庚嶺

Search Function:

対象画像 (カンバス) 大明地理之図 p.1 (16) 選択中

キーワード検索

検索語を入力してください

検索

Annotations Table:

アノテーション	
総アノテーション数	16
検索条件に合致したアノテーション数	16
検索条件に合致した画像 (カンバス) 数	1
当該画像 (カンバス) に含まれるアノテーション数	16

Search function

Arrangement of data from Ottoman-Turkish documents

Development of system to support historical study with on-offline combined tools based on TEI and IIIF – A case of Ottoman and Turkish documents

Satoru NAKAMURA, Natsuko SAJI, Kiyonori NAGASAKI

Proceedings of Jinmoncon 2019, 293–300

December 2019

<http://id.nii.ac.jp/1001/00201015/>

Background and purpose

- **Applicable historical materials**

- Collection of Kreševo Monastery in Bosnia-Herzegovina
- **1,089** historical items, primarily Ottoman-Turkish Documents

- **Kreševo Monastery and applicable historical materials**

- Built at the end of the 13th century, Catholic Franciscan order
- Under control of the Ottoman Empire 1463-1878
- Documents exchanged between the monastery and Ottoman authorities relating to routine administrative procedures and monastery operation for believers in the jurisdictional area
- In 1765, the monastery was struck by fire, and many historical materials in the collection were burned
- Primarily documents from the 18-19th century

- **Characteristics**

- Newly uncovered historical materials that have not been fully organized and interpreted
- Valuable historical materials for clarifying the lives of Catholic believers and the role of the Franciscan order under the Ottoman Empire
- An initiative to organize and interpret the materials, starting from zero, using image data as a basis



Advantages of TEI



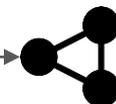
1. Retain text structure

2. Use of various kinds of data (applications)

- Table format
- BI tools



Network analysis

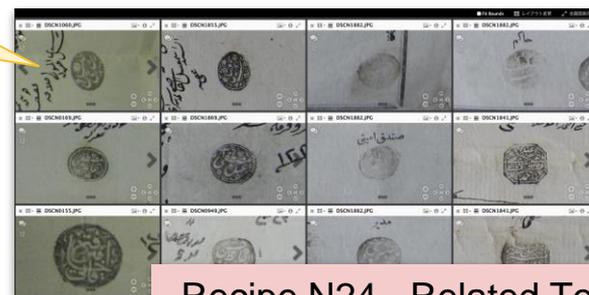
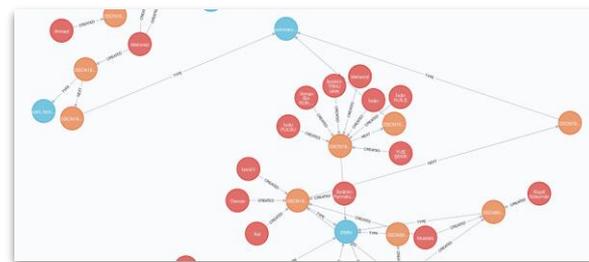
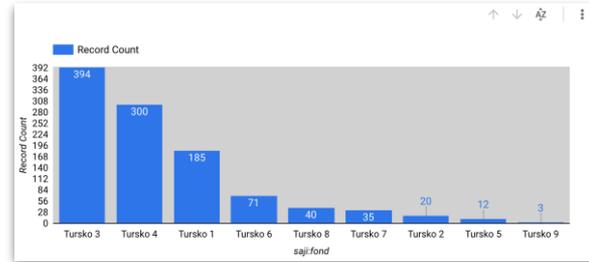


Output as an IIF curation list



Association with images (IIIF)

Other



Dataset for machine learning (AI)

Distribution of results with database

ICP-Related Tools

IIIF Converter

Application: Tool for conversion between IIIF manifests and curation lists

Source code:

<https://github.com/nakamura196/i3#iiif-converter>

The screenshot shows the IIIF Converter web application interface. The title bar at the top is blue and contains the text "IIIFコンバータ" on the left and a language selector "日本語" on the right. The main content area is divided into two panels. The left panel is titled "IIIFマニフェスト (コレクション) を IIIFキュレーションリストに変換する" and features a text input field for "IIIFマニフェストURI" and a blue "実行" button. Below this is an "例" (Example) section with two entries: "東京帝国大学本部場内及農学部建物鳥瞰圖 (東京大学農学生命科学研究科・農学部)" with a blue link, and "絵本徒然草 (https://doi.org/10.20730/200002193)". The right panel is titled "IIIFキュレーションリストをIIIFマニフェスト (コレクション) に変換する" and features a text input field for "IIIFキュレーションリストURI" and a blue "実行" button. Below this is an "例" section with two entries: "百鬼夜行図 (中村覚編集)" with a blue link, and "『顔貌データ：イギリスの肖像』 (CODH編集)". At the bottom center of the interface is a circular refresh icon.

Example

Curation => Manifest Example

Conversion of a single IIIF manifest to an IIIF collection composed of multiple IIIF manifests

IIIFコンバータ

IIIFキュレーションリストをIIIFマニフェスト (コレクション) に変換する

IIIFキュレーションリストURI
<https://mp.ex.nii.ac.jp/api/curation/json/388b085f-772e-472d-8866-9951747c6719>

実行

Conversion to multiple IIIF manifests

IIIFマニフェスト

IIIFコレクション

- 百鬼夜行図 東京大学総合図書館 General Library in the University of Tokyo, JAPAN
- 百鬼夜行図 国文学研究資料館
- 百鬼夜行絵巻 国立国会図書館 National Diet Library, JAPAN

Miradorで閲覧する

Image Annotatorで閲覧する

Universal Viewerで閲覧する

IIIF Multi Viewerで閲覧する

Javalaで閲覧する

セルフミュージアムで閲覧する

Manifest => Curation Example

A IIIF manifest with annotations is converted to an IIIF curation list, and displayed at the Self Museum

Automatic curation by IIIF Converter

展示室1

Curation [1]

- 施設: 農学部 第二号館 部局: 農学部
- 施設: 農学部 第一号館 部局: 農学部
- 施設: 農学部 第三号館 部局: 農学部
- 施設: 野球場 種類: スポーツ施設
- 施設: 農学部温室 部局: 農学部

Curation [7]

- 施設: 船舶試験水槽上室 部局: 工学部
- 施設: 電気実験室 部局: 工学部
- 施設: 工学部 第一号館 部局: 工学部
- 施設: 工学部 第四号館 部局: 工学部
- 施設: 工学部 第二号館 部局: 工学部
- 施設: 電気工学実験室 部局: 工学部
- 施設: 工学部 第三号館 部局: 工学部

最初から見る

Parallel display of TEI text and IIF image

Source code:

<https://github.com/TEI-EAJ/letter>

The screenshot shows a web interface titled "Letter to Leslie Gunston". On the left, the TEI text is displayed with green highlights for specific words and phrases. On the right, an IIF image of the original handwritten letter is shown with a zoom and crop interface. The text in the image matches the TEI text on the left.

Letter to Leslie Gunston

[Page @#p1]

Craiglockhart.
July 1917.
Wednesday

Dear L.

Thanks for yours of this morning. I hope you **have** had my card of-posted last Monday. On Mond. next I lecture the "Field Club" - a Nat. Hist. Association, in the lines of our old Society - Geological, (you + me) + Botanical (New) Do you remember: **my+your** old Black Molt? Well, the days have come when I am **one of the** founders of a real learned society. My subject is-has the rather journalese Title of "Do Plants Think? - a study of the Response to Stimuli **shown+** Devices for Fertilisation, etc. I have no books yet, but I remember a number of useful points from your **bia** Cassels' (I think it was

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IIF Curation Viewer Embedded

TEI text



IIIF Multi Viewer

Application: A tool for easy content checking and search of IIIF curation lists

Functions: Provides functions such as facet search and image comparison taking an IIIF Collection and IIIF Curation List as parameters

Source code:

<https://github.com/nakamura196/icc2>

The screenshot displays the IIIF Multi Viewer interface. At the top, there is a search bar with the text '検索語を入力してください' (Please enter search terms) and a search icon. The page title is '百鬼夜行図' (Hyakki Yakyō Zu). Below the search bar, the search results are displayed as '検索結果: 18件見つかりました。' (Search results: 18 items found). The interface includes a left sidebar for '絞り込み条件' (Refinement Conditions) with several filter panels: 'label (6件)', 'manifest (5件)', 'すがた (1件)' (with a sub-panel for '道具・器物' (Tools/Objects) showing 10 items), and '主題 (4件)' (with sub-panels for 'ウツボ' (5 items), 'ゴトク' (4 items), 'ミツメ' (4 items), and 'ワニグチ' (1 item)). The main display area shows a grid of 8 image thumbnails, each with a small IIIF icon below it. The interface also includes a pagination control showing '1' and a layout selector set to 'グリッド' (Grid).

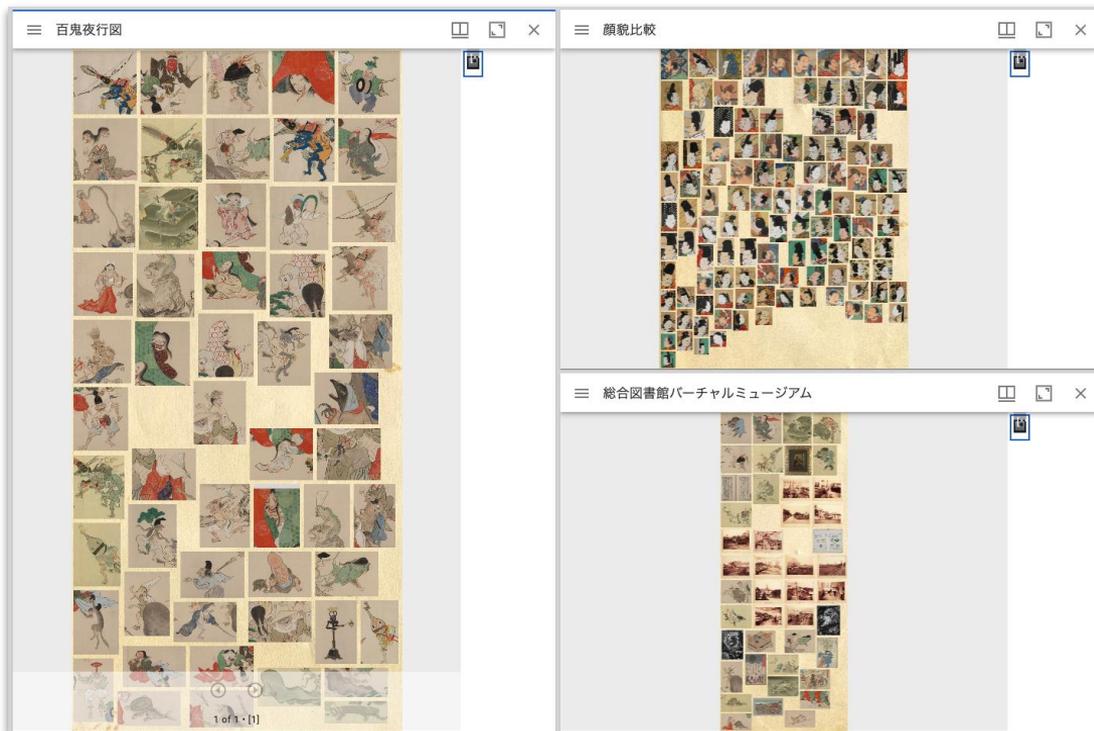
Rectangle Packing with IIF Curation

Application: Play

Functions: Program that converts an IIF curation list into a single image (packing individual items into a single image)

Source code:

<https://github.com/nakamura196/rp>



Example

Conclusion: Advantage of IIF Curation Platform

- Interoperability
 - Displaying the cropped image can be left to the IIF Curation Viewer, etc.
 - Various tools provided by the IIF Curation Platform (e.g. ICEditor)
 - This enables effort to be focused on developing applications in areas other than data creation (ex. search/comparison).
- Ease of management
 - One IIF curation list meets the requirement to manage image regions cropped from multiple materials (IIF manifests) together with their respective metadata.
 - Ease of data management also promotes long-term preservation of data.

Thanks to everyone who provided the images
and collaborated with this research.

Thank you for listening.