

国立国会図書館における所蔵資料の
デジタル化とインターネット資料の
収集

サブタイトルの書式設定
Digitization of collections and Web Archiving
Project at the National Diet Library (NDL)

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Why do we archive webs?

NDL Profile

Established	1948 by the National Diet Library Law inheriting the collections of former Imperial Library and libraries of the Houses of the Imperial Diet (parliament)
Number of staff	890 (including Librarian and Deputy Librarian) (as of April 2010)
Stacked volumes	Total 36,617,299 items (as of March 2010) -Books 9,496,680 volumes -Periodicals 9,307,722 items etc.
Annual budget	21.6 billion yen (Initial budget for FY2009) (approximately 233 million USD)
Stack capacity	Tokyo Main Library : 12 million volumes Kansai-kan : 6 million volumes ILCL * : 0.4 million volumes

* ILCL ~~1972/1974~~ International Library of Children's Literature

Functions of NDL

- Acquire all materials published in Japan, as Japan's only depository library
- Preserve materials as national cultural heritage for long term
- Compile catalogs of materials in a database or other formats
- Provide library services based on holdings for Diet Members, for the executive and judicial branches of the national government and for the general public



Tokyo Main Library



Kansai-kan



ILCL

Why do we digitize?

- Digital Library Services

- enables users to read the collections via the Internet from anywhere, taking advantage of the digital form

1998	Formulation of the National Diet Library Electronic Library Concept Launch of the Online Gallery showing digitized collections
2000	Launch of the Rare Books Image Database
2002	Launch of the Digital Library from the Meiji Era
2003	Launch of the Digital Library of Children's Literature
2004	Formulation of the National Diet Library Digital Library Medium Term Plan for 2004
2007	Release of the National Diet Library Digital Archive Portal (PORTA)

- Preservation of Materials

- Materials can be preserved in good condition by using the digital data instead of the originals



Digital Library Services at NDL

Digital Library from the Meiji Era

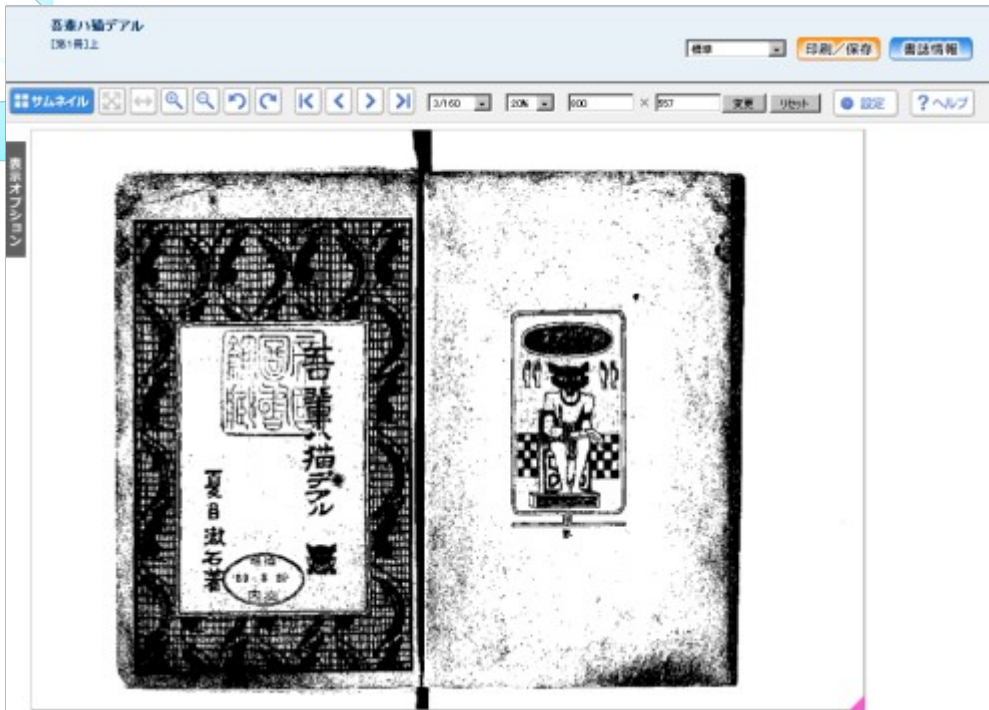
<http://kindai.ndl.go.jp/>



- Books published in the Meiji (1868-1912) and Taisho (1912-1926) eras from the NDL collections
- 170,000 volumes
120,000 titles
18 million images
- Searchable by bibliographic data (title, author, subject, etc.) and TOC
- Reachable by searching NDL-OPAC (National Diet Library Online Public Access Catalog)

Digital Library from the Meiji Era

<http://kindai.ndl.go.jp/>



“Wagahai wa neko de aru” by Natsume Soseki

- Digitized from microfilms
- Binary images (Meiji era):
400 ppi for A4 sizes
- Grayscale images (Taisho era): Resolution 350 ppi for A4 sizes
- JPEG 2000, JPEG or PDF for delivery
- pageturner , zoom, image rotation
- Free to download and print

Rare Books Image Database

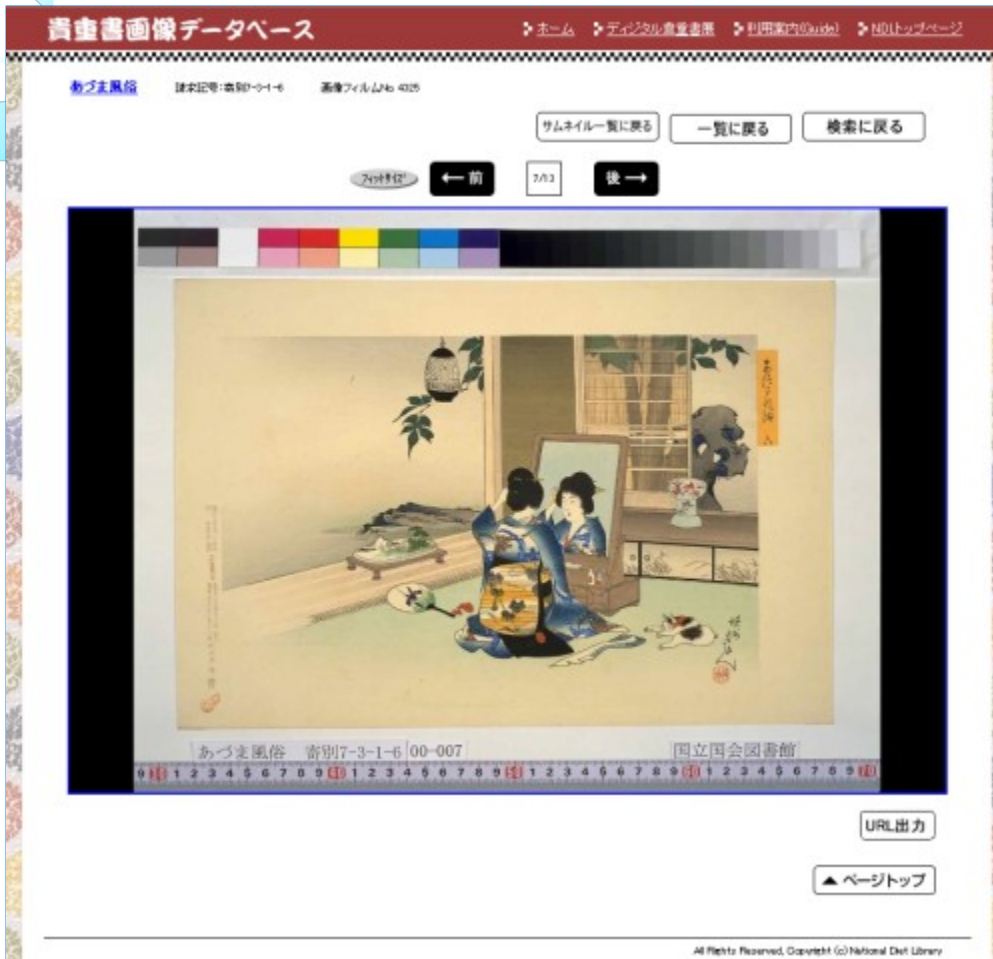
<http://rarebook.ndl.go.jp/>



- NDL's rare and old books including important cultural properties and colored materials
- 949 titles
49,063 images
- Searchable by keywords and categories (“Chinese and Japanese old materials”, “old maps”, “color prints” and “important cultural properties”)

Rare Books Image Database

<http://rarebook.ndl.go.jp/>



- Digitized from color films (4×5, Brownie)
- Color images
- 4×5 films:
Resolution 1,500 ppi
- Brownie film:
Resolution 2,000 ppi
- JPEG for delivery
JPEG 2000 for preservation

“Azuma fuzoku 6” by Yoshu Chika-nobu

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Background of Preservation of Materials

- NDL changed the method to preserve originals – from microfilming to

digitization. Although NDL had already converted deteriorated materials to microforms and had provided microfilms or microfiches in place of the originals, the digital data will be provided in future in view of the ease of use and technological progress

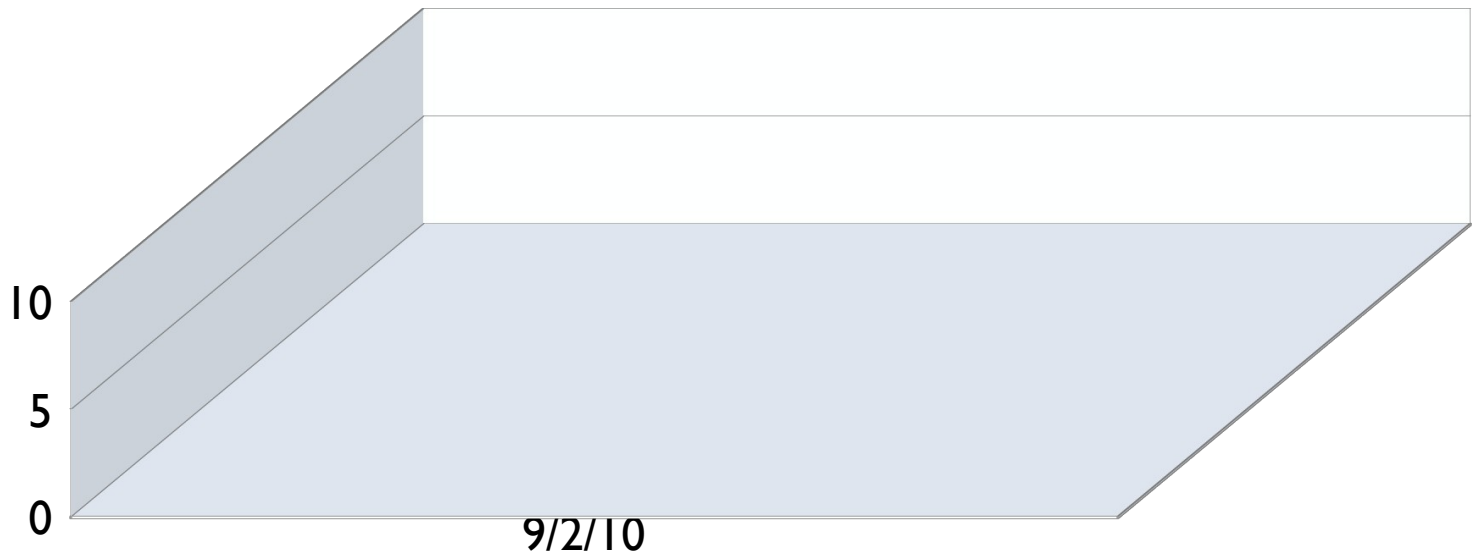


Microfiche

- Copyright law amended in 2009
 - NDL can digitize its collections without permission to avoid damaging them
 - images shown within NDL buildings
- (The amendment ^{9/2/10} came into force in January 2010)

How much is the budget for digitization?

- NDL's annual budget for digitization
 - from 100 million to 200 million yen per year(FY2000-2009)
 - 12.7 billion yen (approximately 137 million USD) allocated in FY2009(supplementary budget)





What do we digitize? - Large-scale digitization

(Supplementary budget for FY2009)

- Approx. 900,000 items, 130 million images

From FY2009 to 2010

- Object of digitization
 - Pre-War books (-1945)
 - Post-War books (1945-1968)
 - Domestic Periodicals(-2000)
 - Rare books and old materials
 - Official gazettes 9/2/10

How do we digitize?

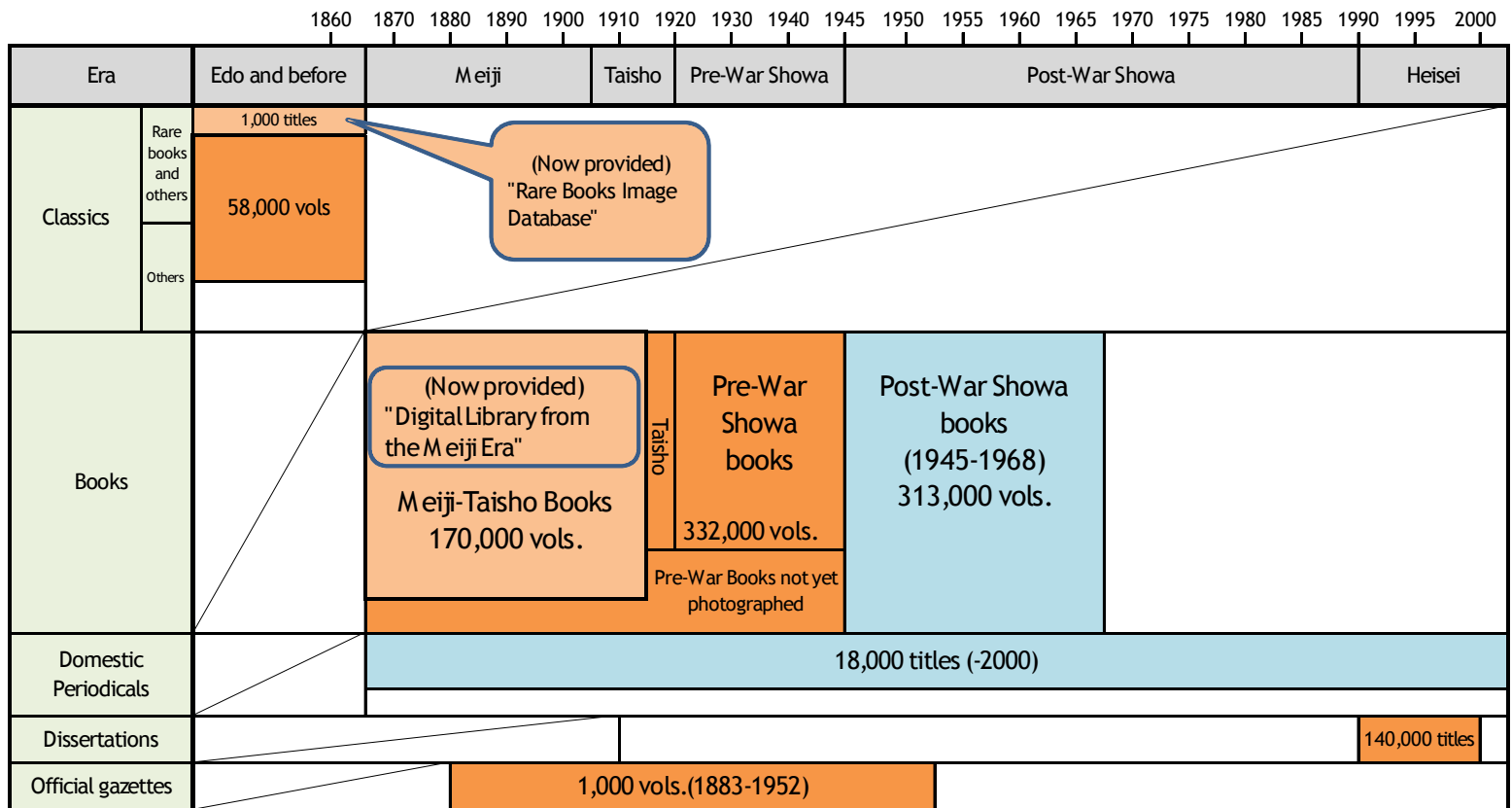
- Digitization Methods (Large-scale digitization)

- Scanning directly from original materials (Digitizing from microfilms when already microfilmed)
- Overhead scanner (incl. digital camera) without auto-page-flipping



- From original materials : Resolution 400 ppi, Full color
 - From microfilms : Resolution 400 ppi in A3 sizes, Grayscale
 - JPEG2000 for delivery and preservation
 - Thumbnail of title page (JPEG)
 - TOC
-
- Update “The Guidelines for Digitization of Materials (2005) ”

Access to digitized collections



- : On the web
- : Expected to be on the web (Pre-War books and dissertations are available after copyright clearance)
- : Only within the NDL buildings

Delivery System: 'Digital Library from the Meiji Era'
 'Digital Archive System' (under construction)



Why do we archive webs?

- Internet resources are increasing
 - Change from print to online version
 - Published on Internet from the beginning

- Internet resources tend to vanish
 - Easily updated and deleted
 - reorganized or merged
 - past website deleted when reconstructing

WARP (2002-2010.3)

WARP

国立国会図書館 インターネット情報選択的蓄積事業
- National Diet Library, Japan Web Archiving Project

本事業の紹介 | 推薦のお願い | ヘルプ

お知らせ
2006年7月 本格事業化にともない、デザインを一新しました。

簡易検索 | 書誌・本文検索 | ディレクトリ検索

簡易検索
(書誌情報のタイトル、編者、出版者・公開者、起点URLと本文情報の本文、ページタイトル、URLが検索できます。)

検索 クリア

キーワード

コレクション種別
 国の機関 都道府県 合併前の市町村 法人・機構
 大学 イベント 電子雑誌 その他

NDL資源タイプ
 電子雑誌 サイト

収集日付範囲
年 月 - 年 月

検索 クリア

All Rights Reserved (C) National Diet Library, Japan 2002-2006

- Selective approach for archiving Internet resources
- 2002 Experimental project
- 2006 Full-fledged operation
- Collection of 4,600 titles (=about 22,000 entries), of websites and online periodicals of national government, local governments and various events, etc. based on the permission of site owners

WARP: **W**eb **AR**chiving **P**roject

- 15TB (as of the end of March 2010)



Web archiving Project based on legislation

- July 2009 : National Diet Library Law amended
- April 2010 : Started to collect official institutions' websites in Japan, based on the legislation
- “WARP” → “Web archiving Project”
- Target : about 2,400 sites

- Collection method^{9/2/10}

Current Status (April-June 2010)

	Target	Frequency	Title	Apr. - Jun. 2010	
				Item	Volume (GB)
on the amended Law	National government	12/ year	42	125	3,323
	Prefectures	4/ year	47	47	1,665
	Major cities	4/ year	19	19	448
	Municipalities	2/ year	1,725	10	8
	Independent administrative agencies	4/ year	116	116	1,460
	Universities (National or local government operated)	4/ year	172	172	3,198
	Online periodicals	A/ N	914	201	47
	Subtotal		3,035	690	10,149
on the permission	Agencies	1/ year	55	55	94
	Private universities	1/ year	335	333	955
	Events	A/ N	38	8	0
	Online periodicals	A/ N	408	85	9
	Subtotal		836	481	1,058
Total			3,871	1,171	11,207

*Frequency of municipalities : 2/year in 2010, 4/year from 2011

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Web Archiving Project (Website)

<http://warp.da.ndl.go.jp>



- Search by keyword, collection type, date of collection, webpage title, text, URL, classification, etc.

- Archived data

- URL start from “
<http://warp.da.ndl.go.jp/info:ndljp/pid/>”

- Notice (date of collection etc.)

Archived data (example)

Notice

注意: 本サイトの情報は、国立国会図書館に基づいて、あるいは著作権者の許諾を得て本サイトから収集した過去の情報です。オリジナルの情報の著作権が著作権者に保持されていますので、著作権法で認められた行為を除き、著作権者に無断で使用することはできません。(収集日: 2002-08-29)

Japanese

*As of July 19, 2001, Mr. Takao Kasayama was appointed the Librarian of the National Diet Library, succeeding Mr. Masao Tetsun.

*E-mail forms of this page has been having program failure and a part of mails have not been delivered so on. In case you used the form from July 5 to 10, please send your messages again.

*New images have been added in the [Blue Books Image Database](#).

*Attention: From July 2001, the contact address of the International Services has been changed. For details, please see [here](#).

*In October 2002, the Kanazawa of the National Diet Library (Kyoto) will open to the public. While materials are in transit between Tokyo and Kyoto, periodicals in western languages, Asian materials, science and technology materials are temporarily unavailable. For details, please see [here](#).

*Business, Science and Technology Room and Economics Room has opened June 20.

*NDL NEWSLETTER No.128, August 2001 UPDATE

*CINSAONNEWSLETTER No.45, March 2001 UPDATE

Search

You can make a search for the contents of this website.

Notice

International Library of Children's Literature (in Japanese)

Web-OPAC

Electronic Library

Electronic Exhibition

Projects

User guide

Outlook of NDL

News

Information

Reference service is not available by e-mail.

webmaster@ndl.go.jp

NDL Agency Address: 1-1-1, Higashi-Azabu 1-chome, Minato-ku, Tokyo 106-8555, Japan

NDL Agency Tel: 03-3588-2111

NDL Agency Fax: 03-3588-2112

Sitemap Data Close What's new

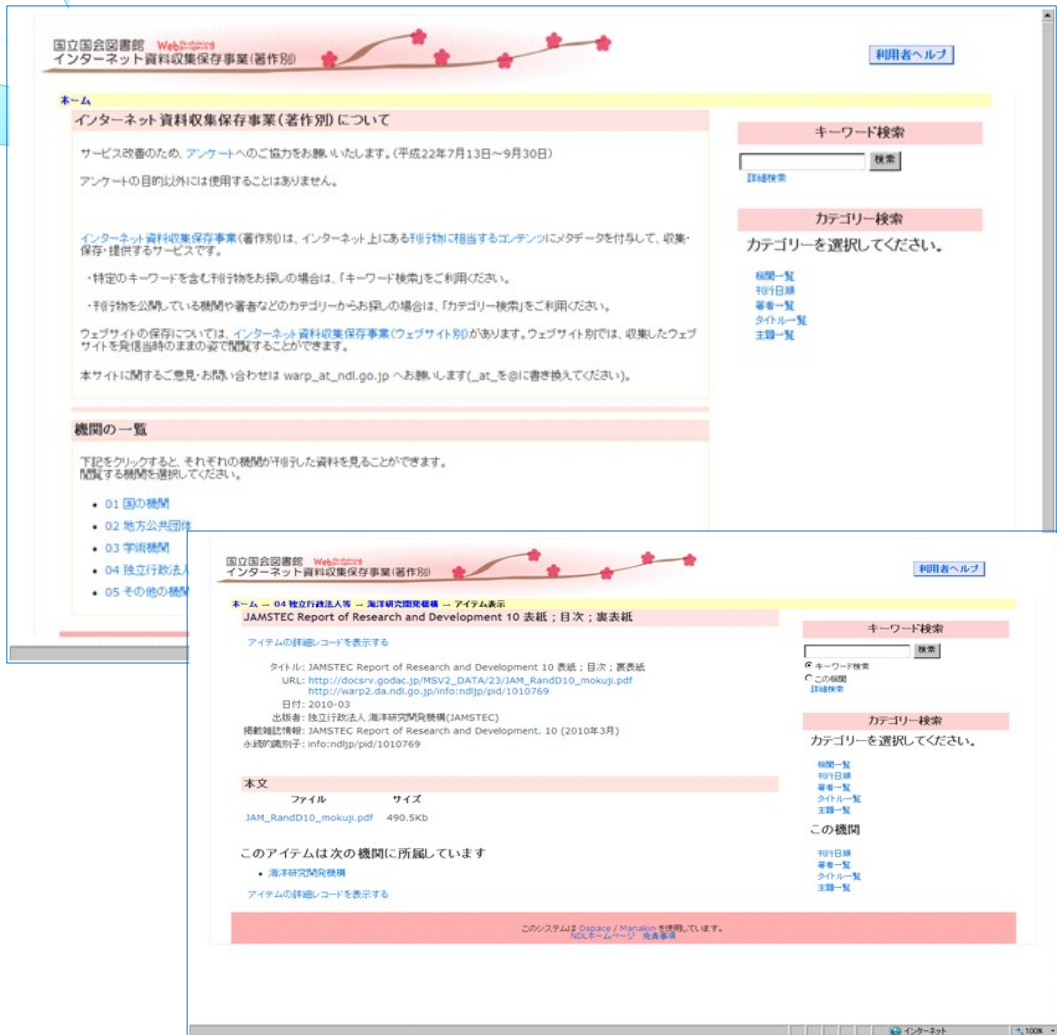
National Diet Library (date of collection : Aug. 29, 2002)

Consumer Affairs Agency, Government of Japan (date of collection : Apr. 1, 2010)

2002 FIFA World Cup (JAWOC) (date of collection : Oct. 28, 2002)

Web Archiving Project (Online Periodicals)

http://warp2.da.ndl.go.jp



- Online periodicals extracted from web archives manually and metadata added
- Started in May 2010
- Search by keyword, bibliographic data
- Search from category (institution list, order of publication date, author list, title list, subject list)



Information

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Thank you for your attention

NDL Website

<http://www.ndl.go.jp/>

List of Online Services

http://www.ndl.go.jp/en/service/online_service.html

General Contact Address(NDL)