

# Digital Images and Metadata

Digital Culture Heritage

Rossitza Atanassova, Digital  
Curator

# What is metadata?

A set of data that describes and gives information about other data.

*Oxford English Dictionary*

Structured information that describes, explains, locates, or otherwise makes it easier to retrieve, use, or manage an information resource.

NISO *Understanding Metadata*

# Why do we create and use metadata?

- Finding, identifying and understanding a resource
- Creating, managing and preserving a resource
- Organising and relating resources
- Using and reusing
- Engaging (crowdsourcing, Machine Learning)

# What image metadata is available?

## Some examples

- <https://artuk.org/discover/artworks/sir-william-ramsay-18521916-192696#> (Art Fund UK)
- <https://wellcomecollection.org/works/fwfdpnry#licenseInformation> (Wellcome Trust)
- [https://en.wikisource.org/wiki/Page:Popular\\_Science\\_Monthly\\_Volume\\_67.djvu/98](https://en.wikisource.org/wiki/Page:Popular_Science_Monthly_Volume_67.djvu/98) (Wikipedia)



[Send information to Art Detective](#)



University College London

London

## How you can use this image

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### Medium

oil on canvas

### Measurements

H 59 x W 44 cm

### Accession number

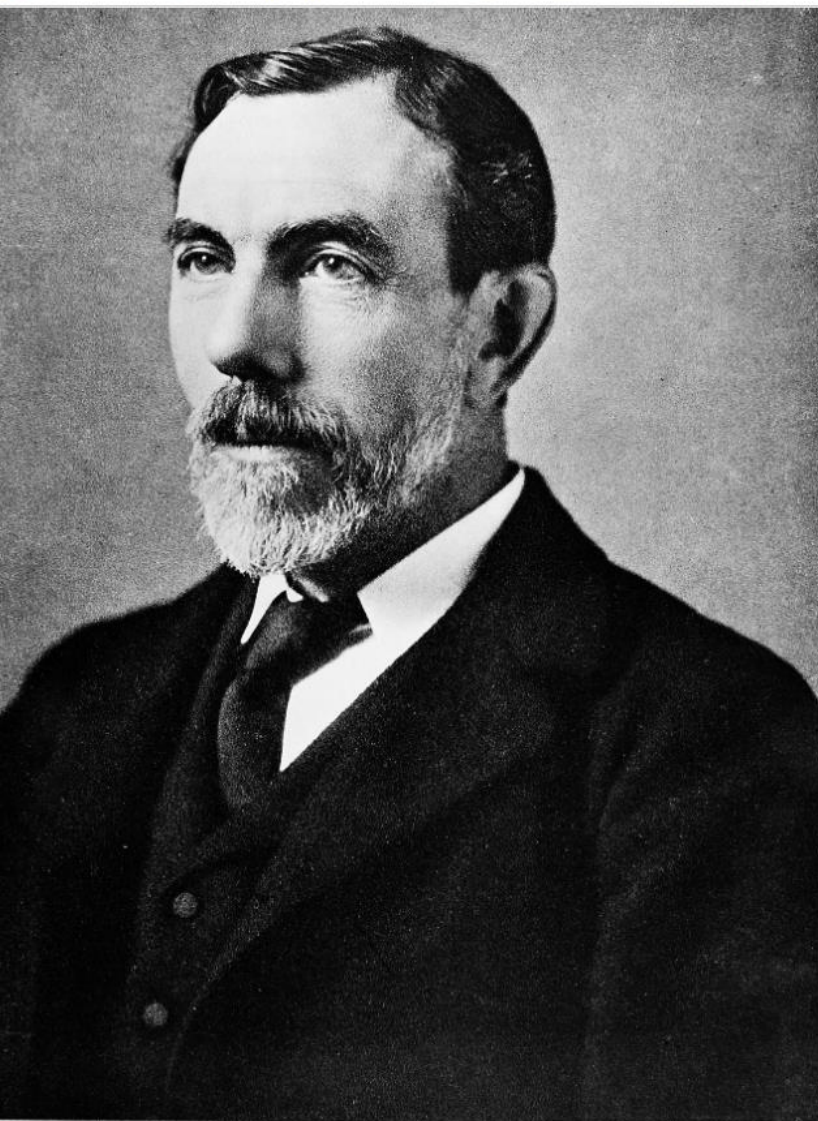
E0051

### Acquisition method

unknown acquisition method

### Work type

Painting



*William Ramsay.*

Elements
Console
Sources
Network

```

<html>
  <head>...</head>
  <body style="margin: 0px; background: #0e0e0e;">
...
     == $0
    </body>
  </html>

```

html
body
img

Styles
Event Listeners
DOM Breakpoints
Properties
Accessibility

Filter
:hov .cls +

```

element.style {
  -webkit-user-select: none;
  margin: ► auto;
  cursor: zoom-in;
}

img[Attributes Style] {
  width: 488px;
  height: 762px;
}

```

Inherited from html

```

html {
  color: -internal-root-color;
}

```

Filter

```

► color
  ■ rgb(0, 0,
► cursor

```

Console
What's New ×

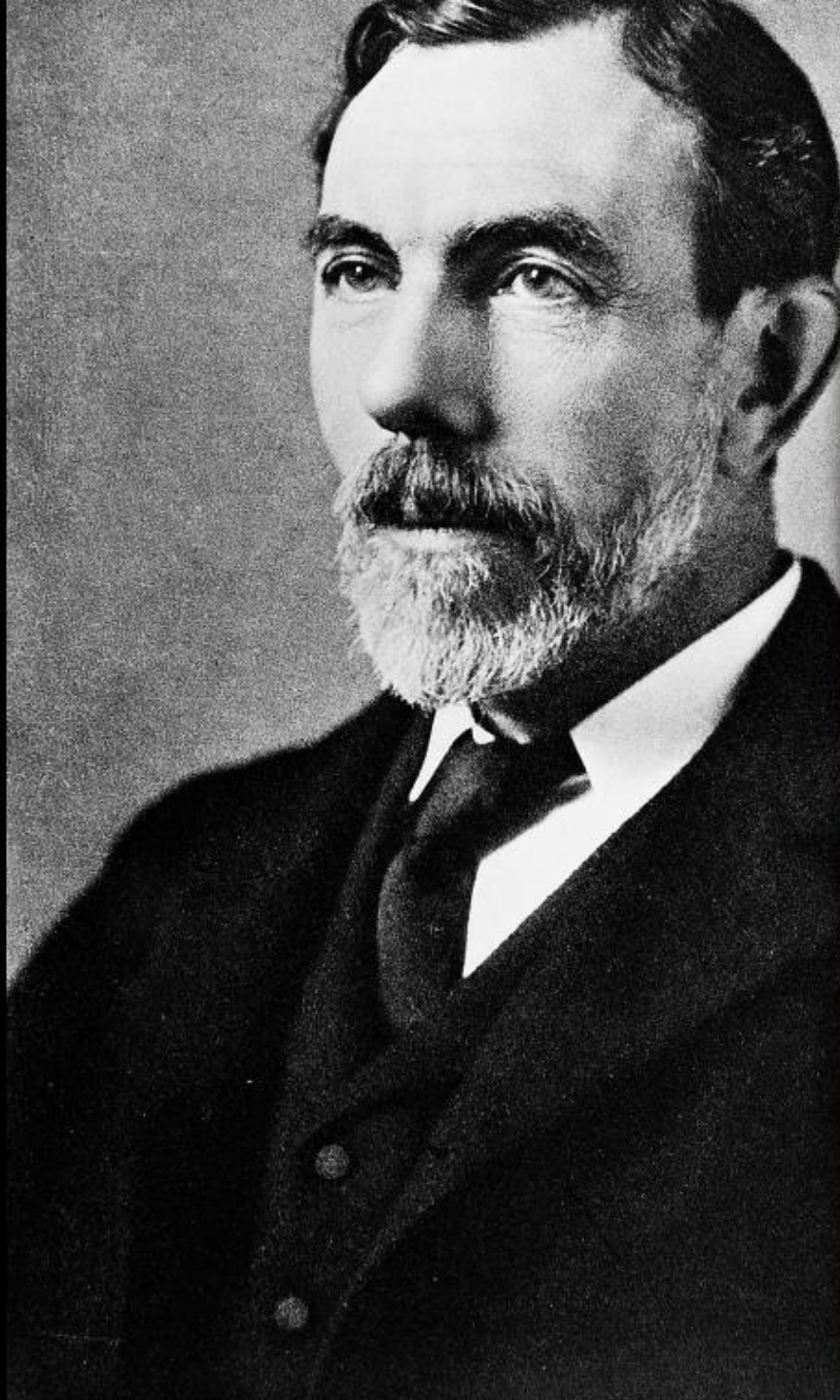
Highlights from the Chrome 77 update

Notification and push message logs

Go to Application > Background Services > Notifications or Messages and click Record to log events for 3 days.

Learn more
Close





## IrfanView - Image properties

File name:	William Ramsay.jpg
Directory:	C:\Users\ratanass\Desktop\
Full path:	C:\Users\ratanass\Desktop\William Ramsay.jpg
Compression:	JPEG, quality: 90, subsampling ON (2x2)
Resolution:	<input type="text"/> x <input type="text"/> DPI <input type="button" value="Change"/>
Original size:	2706 x 4224 Pixels (11.43 MPixels) (0.64)
Current size:	2706 x 4224 Pixels (11.43 MPixels) (0.64)
Print size (from DPI):	95.5 x 149.0 cm; 37.58 x 58.67 inches
Original colors:	16,7 Million (24 BitsPerPixel)
Current colors:	16,7 Million (24 BitsPerPixel)
Number of unique colors:	<input type="text" value="256"/> <input checked="" type="checkbox"/> Auto count
Disk size:	3.70 MB (3,884,219 Bytes)
Current memory size:	32.71 MB (34,298,920 Bytes)
Current directory index:	22 / 22
File date/time:	02/10/2019 / 15:51:13
Loaded in:	219 milliseconds

IrfanView - IPTC information

DescriptionKeywords/CategoriesCredits/OriginOptions

File name:C:\Users\ratanass\Desktop\William Ramsay.jpg  
(File: 1 / 1)

Document title:William Ramsay

Author (byline):Unknown?

Author title:

CopyrightWellcome Collection CC BY

Caption:  
(description)Portrait of Sir Wiliam Ramsay from the Wellcome Collection

Caption writer:

Headline:

Special instructions:

Note for batch mode: Same IPTC can be added to all files (see Options-Tab)

Hint: allowed placeholders: \$D, \$d, \$F, \$N, \$O, \$T, \$U, \$S, \$C, \$Ex  
= EXIF, \$x = IPTC, |

Help

WriteCancel

A black and white portrait of William Ramsay, a man with a beard and mustache, wearing a suit and tie.

IrfanView - Image proper

File name:William Ramsay.jpg

Directory:C:\Users\ratanass\Desktop

Full path:C:\Users\ratanass\Desktop\William Ramsay.jpg

Compression:JPEG

Resolution:72 x 72

Original size:2706 x 1678

Current size:2706 x 1678

Print size (from DPI):95.5 x 60.1

Original colors:16,777,216

Current colors:16,777,216

Number of unique colors:256

Disk size:3.70 MB

Current memory size:32.7 MB

Current directory index:22 / 22

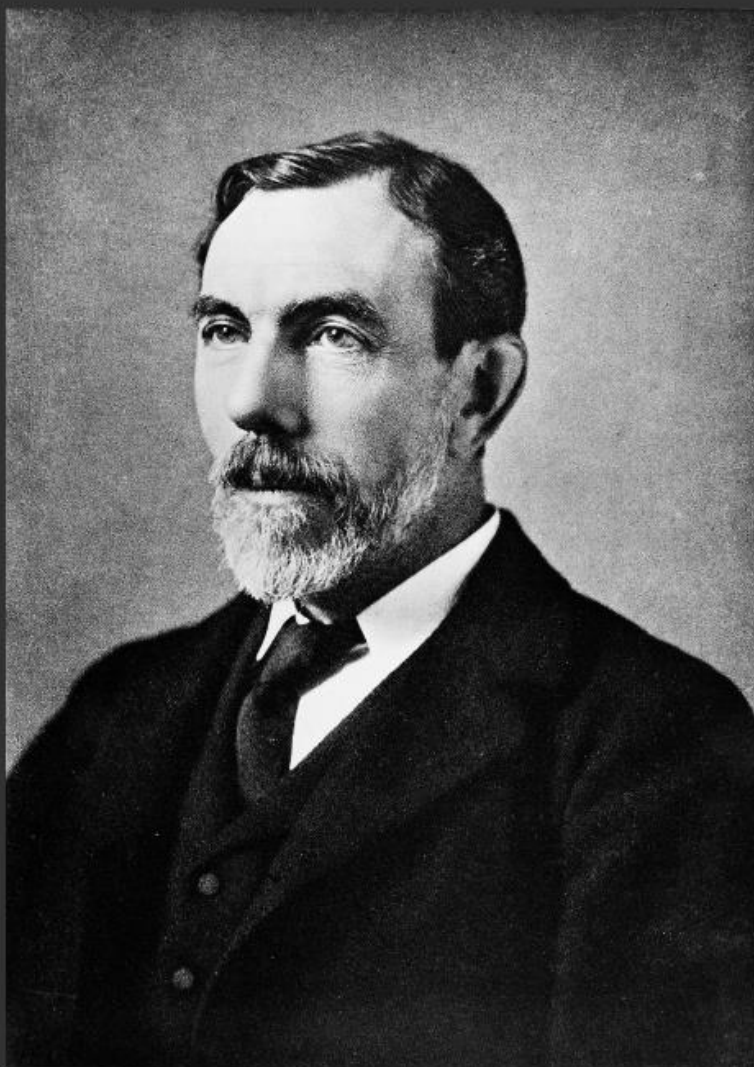
File date/time:02/10/2014 14:10:10

Loaded in:219 ms

IPTC info



[↓](#) Download



*William Ramsay*

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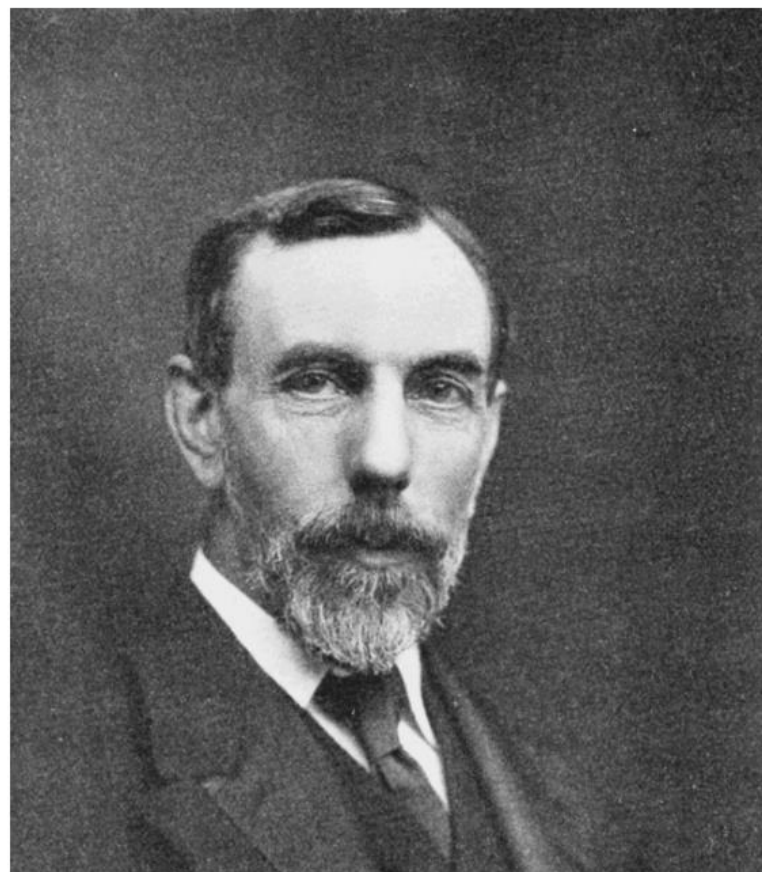
<https://creativecommons.org/licenses/by/4.0>

### Credit

Portrait of Sir William Ramsay. Credit:  
[Wellcome Collection. CC BY](#)

# File:PSM V67 D098 William Ramsay.png

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Attribution:

Popular Science Monthly Volume 67 [Public domain]

☐ HTML

Attribution not legally required

HTML/BBCode:

☒ HTML ☐ BBCode 256px wide

```
<a title="Popular Science Monthly Volume 67 [Public domain], via Wikimedia Commons"
href="https://commons.wikimedia.org/wiki/File:PSM_V67_D098_William_Ramsay.png"></a>
```

Size of this preview: 407 × 600 pixels. Other resolutions: 163 × 240 pixels | 326 × 480 pixels | 521 × 768 pixels | 600 × 900 pixels | 1,041 × 1,561 pixels | 1,388 × 2,082 pixels.

**Original file** (1,515 × 2,232 pixels, file size: 1.08 MB, MIME type: image/png)

Main page  
Welcome  
Community portal  
Village pump  
Help center

Language select

English ▼

Participate

Upload file  
Recent changes  
Latest files  
Random file  
Contact us

Print/export

Download as PDF


Tools

What links here  
Related changes  
Special pages  
Permanent link  
Page information  
Cite this page


Advanced search

Description	English: William Ramsay
Date	1905
Source	Popular Science Monthly Volume 67 <a href="#">↗</a>
Author	Unknown

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Click on a date/time to view the file as it appeared at that time.

	Date/Time	Thumbnail	Dimensions	User	Comment
current	<b>08:09, 11 October 2011</b>		1,515 × 2,232 (1.08 MB)	<a href="#">Ineuw</a> ( <a href="#">talk</a>   <a href="#">contribs</a> )	

You cannot overwrite this file.



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330 billion [web pages](#)  
20 million [books and texts](#)  
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180,000 [live concerts](#))  
4 million [videos](#) (including 1.6  
million [Television News programs](#))  
3 million [images](#)  
200,000 [software programs](#)

# THE POPULAR SCIENCE MONTHLY



EDITED BY  
J. MCKEEN CATTELL

Copyright, 1905  
THE SCIENCE PRESS

VOL. LXVII  
MAY TO ~~OCTOBER~~, 1905 DEC.

NEW YORK  
THE SCIENCE PRESS  
1905





# The Popular science monthly



Publication date 1905  
Topics Science, Technology  
Publisher [New York, Popular Science Pub. Co., etc.]  
Collection biodiversity; MBLWHOI; blc; americana  
Digitizing sponsor MBLWHOI Library  
Contributor MBLWHOI Library  
Language English  
Volume 67

Biography index

Reader's guide to periodical literature

No number was issued for Nov. 1919

Supplement. no. 1-20 [May] 1877-Dec. 1878, new issue, no. 1, Feb. 1879

Vols. 1-40, 1872-92. 1 v. (Includes index to supplement, no. 1-20)

Call number 01762662  
Camera Canon 5D  
External-identifier urn:oclc:record:297259323  
Foldoutcount 0  
Identifier popularsciencemo67newy  
Identifier-ark ark:/13960/t6542nv06  
Lcamid  
Missingpages  
Pages 784  
Ppi 400  
Rcamid  
Scandate 20071218202819

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This book is available with additional data at Biodiversity Heritage Library.

See also

[WorldCat \(this item\)](#)

2,416 Views

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<a href="#">SCAN FACTORS</a>	1 file
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ABOUT

COLLECTION

191,002 RESULTS

Search this Collection

- ☒ Metadata
- ☐ Text contents

Media Type

- ☒ collections 17
- ☐ texts 190,985

Year

- ☐ 1971 1,153
- ☐ 1950 1,188
- ☐ 1934 1,958
- ☐ 1933 2,153
- ☐ 1932 2,138
- ☐ 1931 2,125

[More](#)

Topics & Subjects



- ☐ Plants, Ornamental Catalogs 14,049
- ☐ Flowers Seeds Catalogs 13,502
- ☐ Vegetables Seeds Catalogs 11,136
- ☐ Natural history 9,526
- ☐ Science 9,155
- ☐ Botany 8,114

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botanicus

8,595 ITEMS

Chinese Academy Science

1,043 ITEMS

Expanding Access to Biodiversity Literature

7,365 ITEMS

darwinslibrary

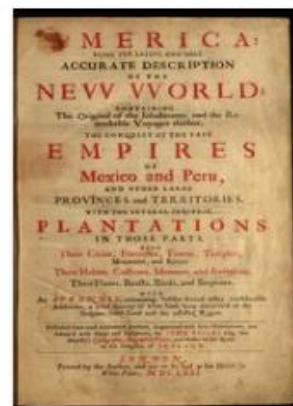
315 ITEMS

Biodiversity Heritage Library Seed & Nursery Catalogs

1,713 ITEMS

Smithsonian Field Books

3,126 ITEMS



America : being the latest, and most accurate  
by Ogilby, John, 1600-1676;  
Montanus, Arnoldus, 1625?-1683

BHL Field Notes Project

3,531 ITEMS

PLANT NAMES  
SCIENTIFIC AND POPULAR

by CORNELIUS BOHNEILL BERNHARDT  
IN ACCORDANCE WITH THE NATIONAL BIODIVERSITY  
INFORMATION CENTER (NBIC) GUIDELINES  
POPULAR SYNONYMS

Bergey's manual of determinative bacteriology  
by American Society for Microbiology; Bergey, D. H. (David)

177,090 26 1

Royal Botanic Gardens Kew, Library, Art & Archives

215 ITEMS



HATHI  
TRUST  
Digital Library



Full-text



Catalog



Full view only

[Advanced full-text search](#)[Advanced catalog search](#)[Search tips](#)

## Current Filters

Full-Text + All Fields: Pericles [Clear filters](#)

## Filter your search

☒ All Items 521,833☒ Full View 204,235Subject 

United States 6,743

English literature 4,146

France 4,105

Great Britain 3,774

1 to 20 of 204,235 Full-Text results

Items per page



Select all on page

Select Collection ▼



## Six of Plutarch's Greek lives. v.2

Published 1912

Author Plutarch.

[i Catalog Record](#)[Full View](#)

## Pericles, written by Elbert Hubbard ...

Published 1903

Add a search term



Explore 57,603,456 artworks, artefacts, books, films and music from European museums, libraries and archives

WHAT'S NEW

GIF IT UP

FREE TO USE IMAGES

PERSONAL STORIES

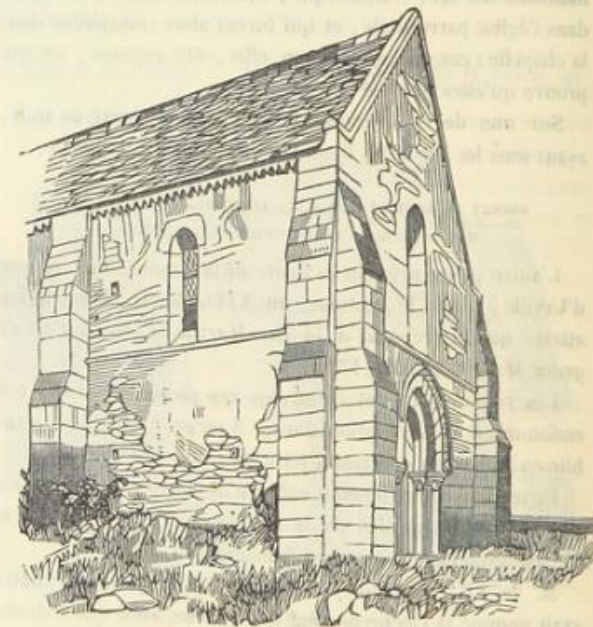




COCOA DRYING HOUSE, TRINIDAD.

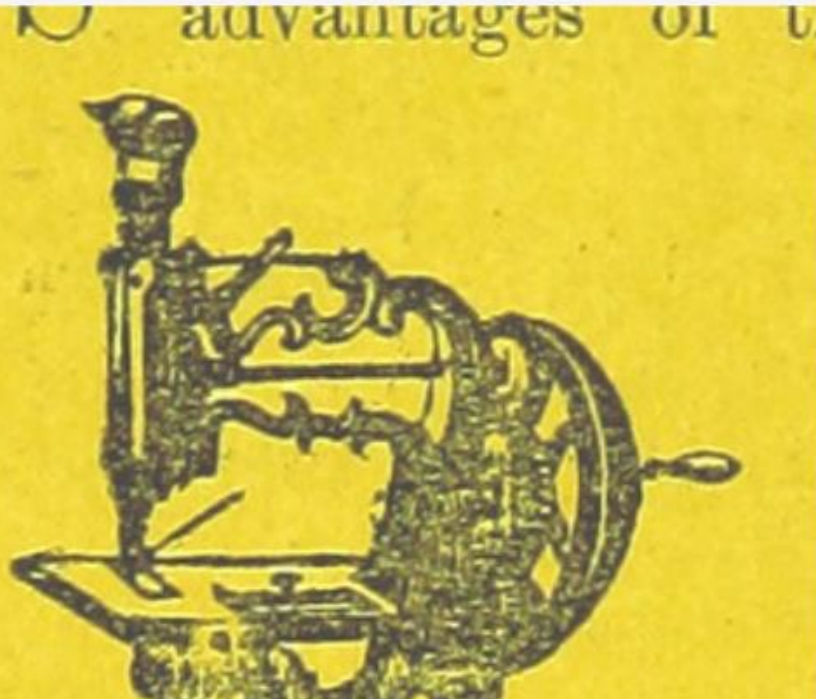


DANSEUSE GOULAD-NAÏL.



NEF DE L'ÉGLISE DE GRAINVILLE.

La tour, entre chœur et nef, est en charpente et en forme



136



Norge  
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# Category:Collections of the British Library

from Wikimedia Commons, the free media repository



This is a **main category** requiring frequent **diffusion and maybe maintenance**. As many pictures and media files as possible should be moved into appropriate subcategories.

## Subcategories

[https://commons.wikimedia.org/wiki/Category:Collections\\_of\\_the\\_British\\_Library](https://commons.wikimedia.org/wiki/Category:Collections_of_the_British_Library)




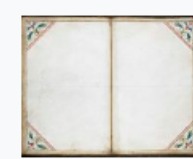





This category has the following 24 subcategories, out of 24 total.

- ▶ [Art in the British Library](#) (3 C, 9 F)
- ▶ [Books from the British Library](#) (17 C, 363 F)
- ▶ [British Library - Off the Map Alice Collection](#) (4 C, 86 F)
- ▶ [British Library - Off the Map Gothic Collection](#) (1 C, 26 F)
- ▶ [British Library Asian and African Collections](#) (2 C, 238 F)
- ▶ [British Library Bookbindings](#) (7455 F)
- ▶ [British Library Maps Collections](#) (15 C, 2223 F)
- ▶ [British Library Sound Archive - audio files](#) (1 C, 1 F)
- ▶ [British Library Evanion collection](#) (7 F)
- F**
  - ▶ [Files from the British Library Endangered Archives Programme](#) (1 P, 27 F)
- I**
  - ▶ [Illuminations in the British Library](#) (7 F)
  - ▶ [Images from the British Library](#) (3 C, 86268 F)
  - ▶ [Images from the Canadian Copyright Collection at the British Library](#) (1 P, 6178 F)
  - ▶ [Images released by British Library Images Online](#) (2 C, 39169 F)
  - ▶ [British Library India Office collections](#) (7 C, 1 F)
  - ▶ [Images from the International Dunhuang Project](#) (113 F)
- M**
  - ▶ [British Library manuscripts](#) (4 C, 21 F)
  - ▶ [Manuscripts and illustrations of the Middle Ages](#) (1 C, 1 F)
  - ▶ [Images from the British Library Manuscript Collection](#) (1 F)
  - P**
    - ▶ [Papyri in the British Library](#) (15 C, 1 F)
    - ▶ [British Library Philatelic Collection](#) (1 C, 1 F)
    - ▶ [Photographs from the British Library](#) (1 C, 1 F)
  - S**
    - ▶ [Set of Maps](#) (22622 F)
  - ~
    - ▶ [British Library collection templates](#)

## Media in category "Collections of the British Library"

The following 200 files are in this category, out of 2,058 total.

[\(previous page\)](#) [\(next page\)](#)

								
Index Map. Abyssinia. 27. Aug. 1907.' (WOMAT-ADD-80).jpg 6,304 × 5,461; 26.15 MB	'Nyasaland Protectorate. Revised and drawn in the Lands Office, Blantyre. Revision of 1933 - Additions of 1935' (WOMAT-ADD-76).jpg 3,864 × 7,615; 22.31 MB	'Tracing referred to in Sir Clare Ford's No. 228 of 1896 illustrating the Treaty of Peace between Italy and Abyssinia'. (WOMAT-ADD-78).jpg 7,481 × 4,767; 34.35 MB	A blank sheet prepared for mapping and ornamented as the other charts.- Cornaro Atlas (Egerton MS 73, f.34r).jpeg 8,136 × 6,404; 34.92 MB	A guide to the city and suburbs of Canton 1904.pdf 1,254 × 2,187, 113 pages; 15.65 MB	Abyssinia - Frontier Region between Blue Nile and Lake Rudolf. War Office ledger. (WOOG-320-1).jpg 5,435 × 7,254; 30 MB	Abyssinia - Frontier Region between Blue Nile and Lake Rudolf. War Office ledger. (WOOG-320-2).jpg 7,072 × 5,412; 23.21 MB	Abyssinia - Frontier Region between Blue Nile and Lake Rudolf. War Office ledger. (WOOG-320-3).jpg 6,981 × 5,602; 29.79 MB	Abyssinia - Frontier Region between Blue Nile and Lake Rudolf. War Office ledger. (WOOG-320-4).jpg 6,981 × 5,602; 29.79 MB



# Digitised Books - Images identified as Plates. c. 1528 - c. 1900. JPG.



Plate: Cascade on Sneeuwberg. In 'A collection of plates illustrative of African scenery and animals' illustrated by Samuel Daniell, 1804

The dataset comprises c. 385,237 images identified as 'Plates' from the British Library's Flickr Commons collections, dating between c. 1528 - c. 1900. The images were algorithmically gathered from 49,455 digitised books, equating to 65,227 volumes (25+ million pages), published between c. 1510 - c. 1900; Plates have currently been identified within the date range c. 1528 - c. 1900. The books cover a wide range of subject areas including philosophy, history, poetry and literature. The images are in .JPEG format.

## Content Notes:

The 394 GB .ZIP file (created using 7-Zip) contains c.385, 237 .jpeg images in 202 folders.

Due to the extreme sizes of some of the zip archives (often well in excess of 4GB), we recommend using a dedicated zip archive application, such as 7-zip, to open and extract these datasets.

Full title: Digitised Books - Images identified as Plates. c.

data.bl.uk

◀ Digitised Books largely from the 19th Century

## OCR text derived from digitised books published c. 1510 - 1699 in ALTO XML.

Cite this dataset

Select Formatting Style:

apa

Select Language and Country:

en-US

Get Citation

Download

digit19

394.8GB

images in

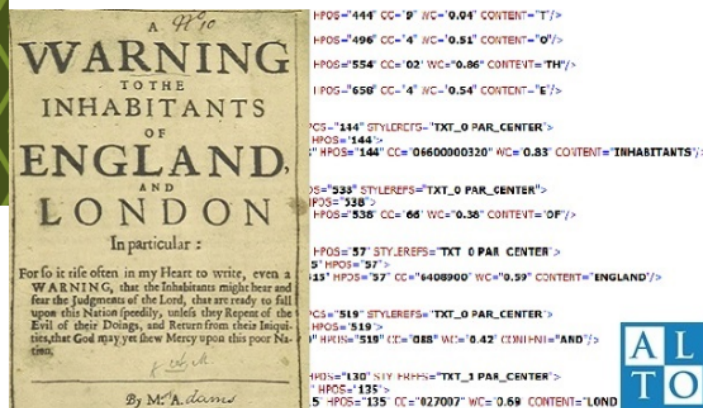
CC0 1.0

If you

dataset

please

digit19



ALTO XML from Page 9 of 'A Warning to the inhabitants of England, and London in particular ...'. By M. A. [i.e. Mary Adams.], 1676.

This set consists 693 volumes, published between c. 1510 - 1699.

The dataset comprises text from the collection of digitised books created using Optical Character Recognition (OCR) technology. The books cover a wide range of subject areas including philosophy, history, poetry and literature. The dataset is in Analysed Layout and Text Object (ALTO) Extensible Markup Language (XML) format.

## Content Notes:

This dataset contains a set of zipfiles, each containing the set of ALTO XML files for a single volume of a book (or a single book, if it consists of a single volume). Example ALTO XML file to give an idea of the sort of XML you will encounter in this dataset.

This dataset was zipped up using 7zip due to its large size, and we recommend you use the same to unzip it. Without using an application like 7zip, older versions of Windows may fail to open it, claiming that the zipfile is corrupt or damaged in some way.

A volume's filename will give you a lot of information about itself - what the system identifier

Full title: OCR text derived from digitised books published c. 1510 - 1699 in ALTO XML.

Dataset creator: British Library

Dataset publisher(s): British Library

Dataset date: 2014

Range of years covered: 1510 - 1699

DOI: <https://doi.org/10.21250/db1>

Cite this data:

Select Formatting Style:

apa

Select Language and Country:

en-US

Get Citation

## Download:

1510\_1699.zip

594.6MiB .ZIP file, comprising of ALTO XML per book volume.

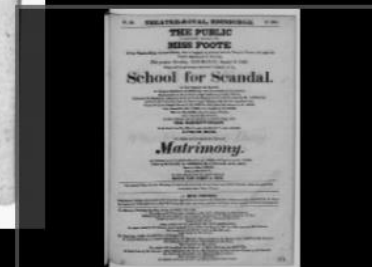
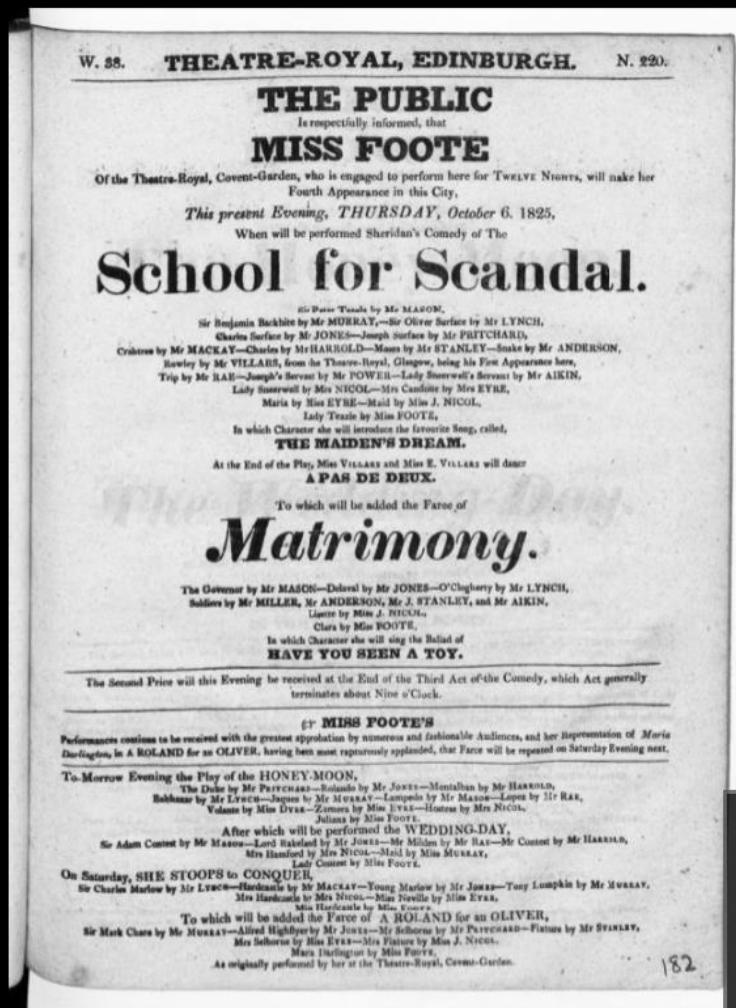
CC0 1.0 Public Domain

If you have any queries about this dataset or about this website, please email [digitalresearch@bl.uk](mailto:digitalresearch@bl.uk).

# A collection of playbills from Theatre Royal, Edinburgh and Theatre Royal, Perth 1825

+ - ↺

ails



» ABOUT

Identifier

Digital Store

Held by

The British Library

Title

A collection of

Royal, Edinburgh

Perth 1825

Creator

Theatre Royal

Place

[Edinburgh]

Publisher

s.n.]

Date

1825

Language

English

Catalogue

View the collection

Download Feedback Share Embed

```
"@context": "http://iiif.io/api/presentation/2/context.json",
"@id": "https://api.bl.uk/metadata/iiif/ark:/81055/vdc_00000001CDBE/manifest.json",
"@type": "sc:Manifest",
"label": "History of Scandinavia from the early times of the Northmen and Vikings to the present day ... Fifth edition",
"description": "Item supplied by the British Library",
"seeAlso": [
],
"metadata": [
{
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"value": "Digital Store 9425.df.1."
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"label": "Held by",
"value": "<span><a href=\"https://www.bl.uk\">The British Library</a></span>"
},
{
"label": "Title",
"value": "History of Scandinavia from the early times of the Northmen and Vikings to the present day ... F
```

THUMBNAILS
Index
Thumbnails

History of Scandinavia from the early times of the Northmen and Vikings to the present day ... Fifth edition
+ - ↺

ABOUT THIS ITEM
Identifier
Digital Store 9425.df.1.
Held by
The British Library
Title
History of Scandinavia from the early times of the Northmen and Vikings to the present day ... Fifth edition
Creator
SINDING, Paul C
Place
Pittsburgh
Publisher
W. S. Haven
Date
1862
Language
English
Catalogue record
View the catalogue record
Digitised from
History of Scandinavia from the early times of the Northmen and Vikings to the present day ... Fifth edition.
Citation
SINDING, Paul C, History of Scandinavia from the early times of the Northmen and Vikings to the present day ... Fifth edition. more
Digitised by
The British Library

# In summary

Types of metadata	Type of standards	Ways of storing
administrative metadata (for collection management, including technical, rights and preservation metadata)	Cataloguing guidelines (RDA, ISAD(G))	Embedded within the digital resource (TIFF tags, EXIF data, IPTC, GPS, PLUS)
descriptive metadata (for discovery, identification and access)	Unique identifiers (ARK, ISBN, DOI)	Held separately in a CSV or databases
structural metadata (for defining the logical and physical elements of a digital object)	Schemas (METS, TEI, ALTO, Dublin Core, MARC)	Encoded as XML (derived text ALTO, metadata transmission METS)
Presentation and other image interoperability metadata	Controlled vocabularies (Library of Congress Named Authorities and Subject Headings, VIAF, ISNI, Getty Thesaurus of Geo Names)	JSON (used for IIIF manifests)



# Useful links

- Culture Heritage Metadata Standards  
<https://damdirectory.libguides.com/metadatastandards>
- <http://photometadata.org/META-101-metadata-Q-and-A>
- International Image Interoperability Framework <https://iiif.io/>
- Metadata Encoding and Transmission Schema (METS)  
<http://www.loc.gov/standards/mets/>
- Technical Metadata for Layout and Text Object (ALTO) Schema <https://www.loc.gov/standards/alto/>



# Useful links

- Transfer via <https://fromsmash.com/> (no file size limit)
- Digital resources finding aid <https://kvk.bibliothek.kit.edu/>
- British Library images <http://explore.bl.uk/>  
<https://www.bl.uk/manuscripts/> ; <https://www.qdl.qa/en> ;  
<https://data.bl.uk/>
- CC licensed images <https://search.creativecommons.org/>
- Full-text transcriptions <http://historicaltexts.jisc.ac.uk>
- Ground Truth for images <https://www.digitisation.eu/tools-resources/image-and-ground-truth-resources/>