

IIF – Kulturinstitutionen schaffen interoperable Schnittstellen für digitalisiertes Kulturgut

Leander Seige, 2017, Leipzig, 34C3

**34C3.
KÜWAT!**



Über mich

Leander Seige

- Bereichsleiter Digitale Dienste
Universitätsbibliothek Leipzig
- Eigene Projekte aus persönlicher Motivation



Bilder sind fundamentale Informationsträger des kulturellen Erbes

- Handschriften und Drucke
- Zeichnungen, Gemälde, Stiche
- Landkarten
- Objekte
- u.v.m.



Digitalisierung von Kulturgut

Verbesserung
der Zugänglichkeit

+

Schutz der Originale



Bisherige Auslieferung von Bilddigitalisaten ist in der Regel institutionell orientiert und siloartig.

- Isolierte Daten (nicht oder schwer verknüpfbar)
- Schwergängige Darstellung großer Bilddateien
- Langsam und schwierig zu realisieren

choose a passage:

Tobit Chapter 1 Verse 7

choose a page:

Quire: 37 Folio: 3 v

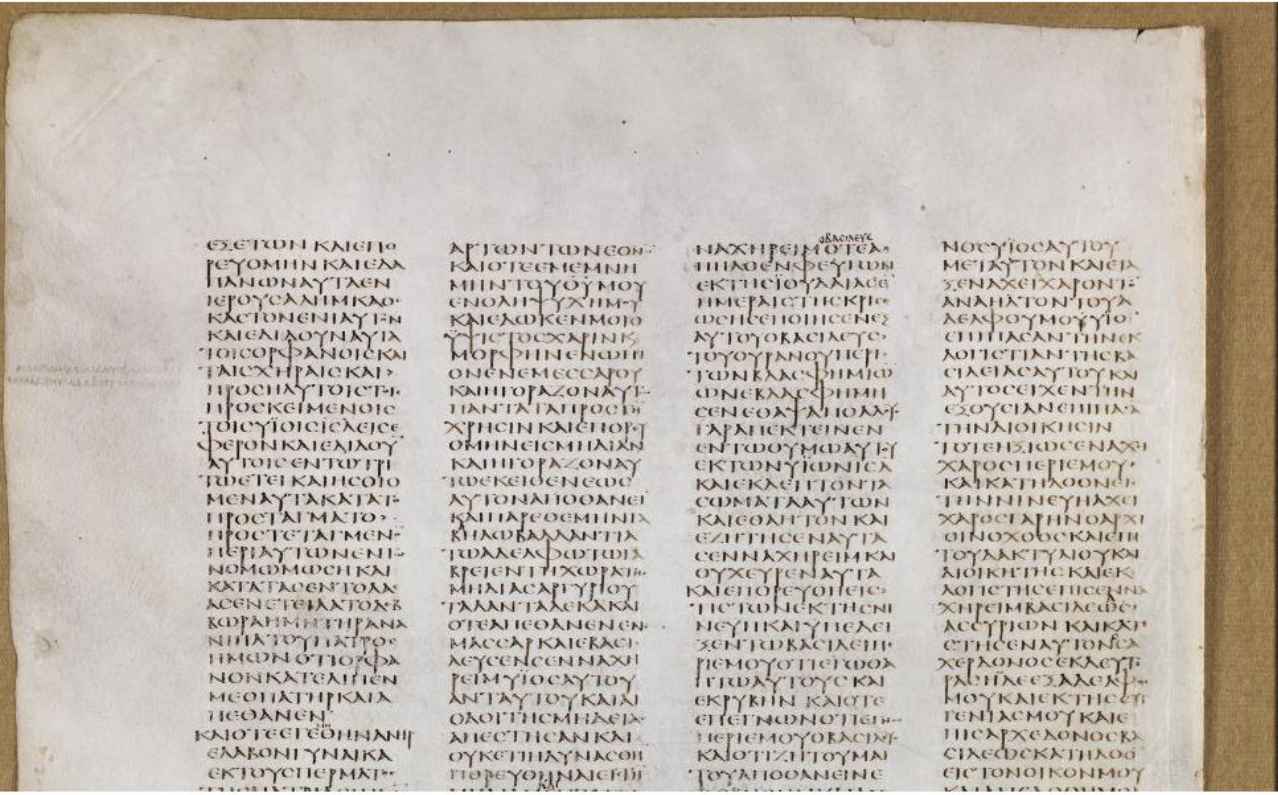
display options:

- Image Translation Transcription Physical Description

Tobit, 1:7 - 2:2 library: LUL folio: xix_v scribe: D

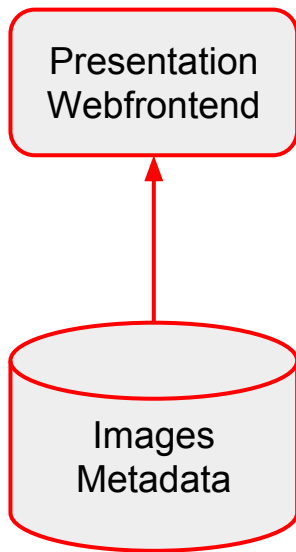
Image

Standard Light Raking Light

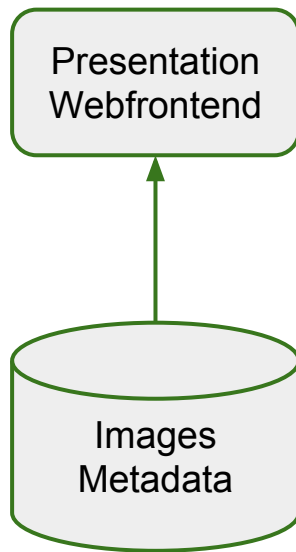


Datensilos

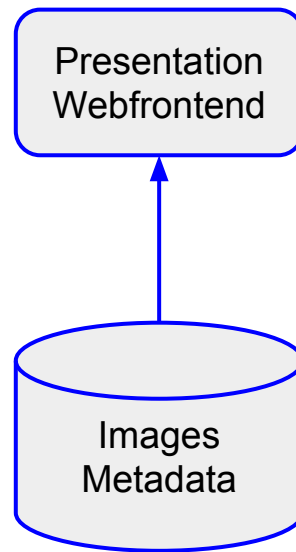
Library A



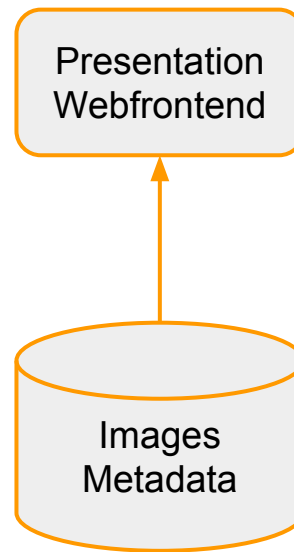
Museum B



Archive C



Gallery D



International Image Interoperability Framework



Die Idee von IIF: interoperable APIs für Digitalisate

Library A

Museum B

Archive C

Gallery D

Presentation Website

Presentation Website

Presentation Website

Presentation Website

Images Metadata

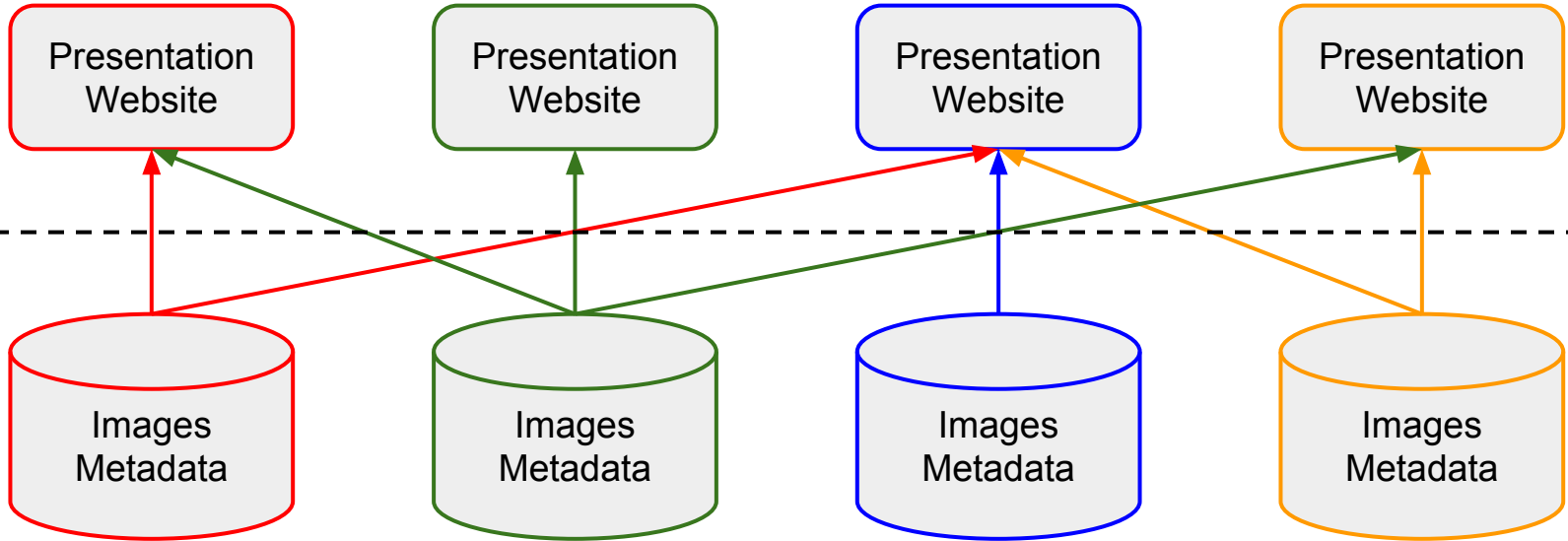
Images Metadata

Images Metadata

Images Metadata



APIs



IIF Community

Consortium

- Stanford University Libraries
- The British Library
- Bodleian Libraries at Oxford
- Bayerische Staatsbibliothek
- Bibliothèque nationale de France
- Vatikanische Bibliothek
- u.v.m.

Community

- Universitätsbibliotheken
- Nationalbibliotheken
- Museen, Archive
- Archive.org
- u.v.m.

<http://iif.io/community>

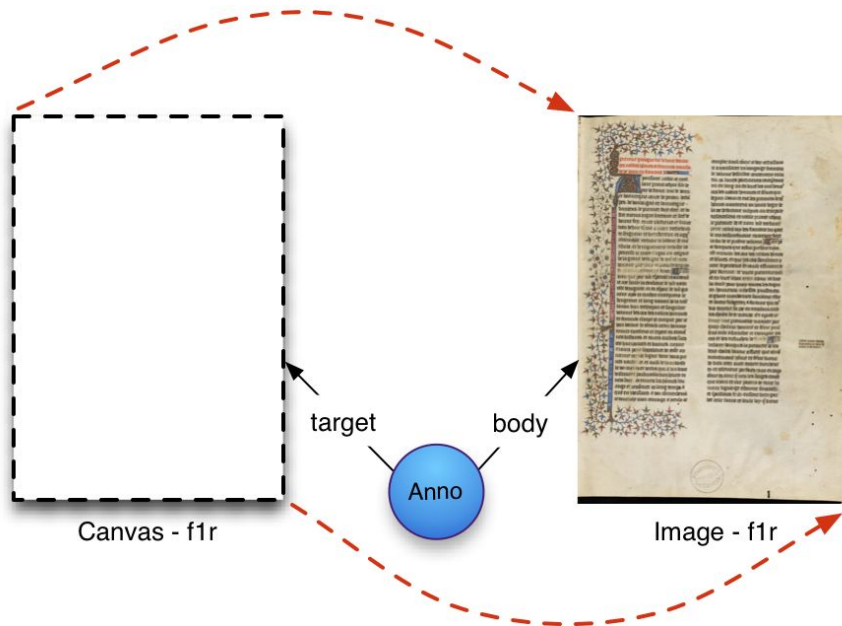
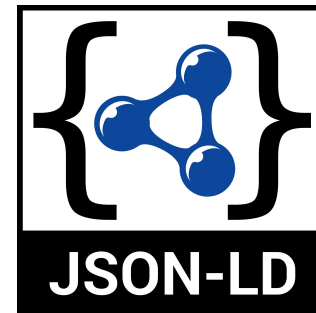
APIs

- **Pixel: IIF Image API 2.1 (Core API)**
- **Struktur- und Metadaten: IIF Presentation API 2.1 (Core API)**
- Suchen in Annotationen: IIF Search API 1.0
- Authentifizierung: IIF Authentication API 1.0

CC-BY, <http://iiif.io/technical-details/>

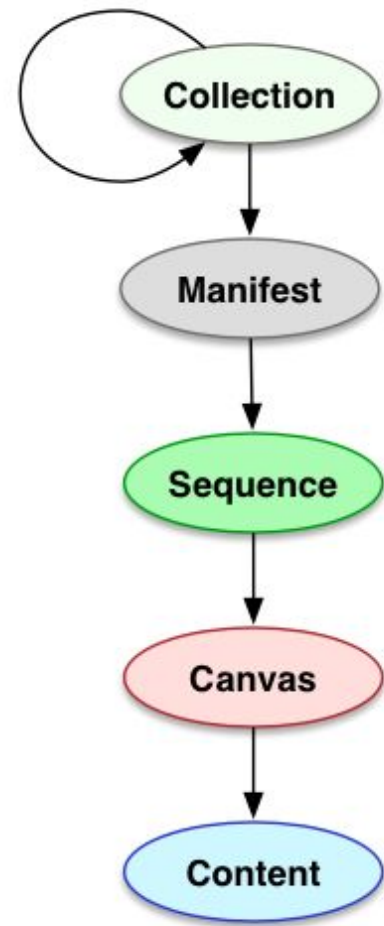
Shared Canvas Data Model

- Linked Data based approach (JSON-LD)
- globally unique identifiers: HTTP URIs



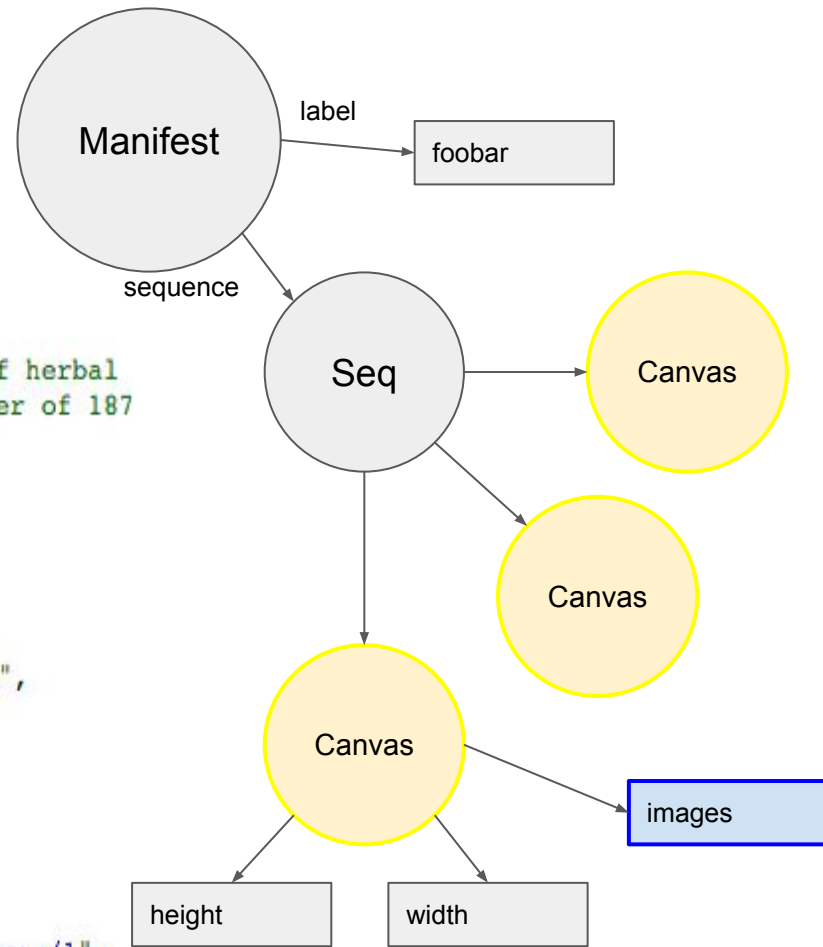
Presentation API

- Structure
 - Collection, Item, Sequence, Parts
- Properties
 - Labels, description, license, attribution, links



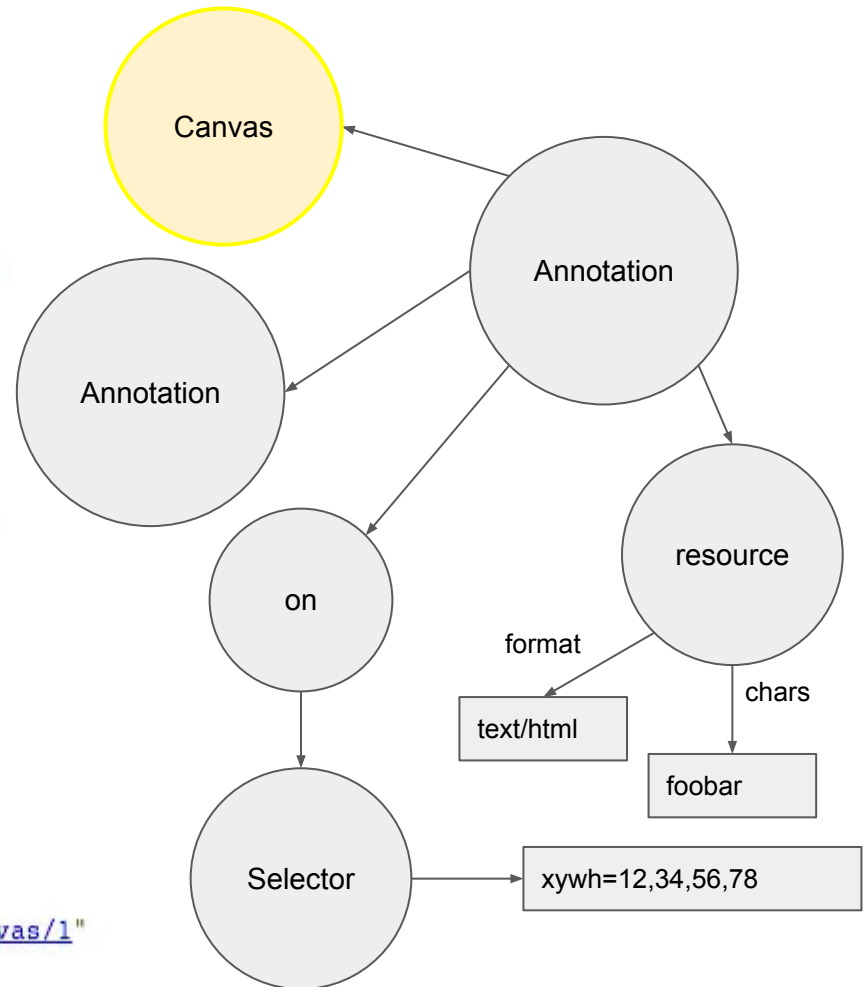
IIF-Manifeste

```
{
  @id: "http://iiif.ub.uni-leipzig.de/0000000001/manifest.json",
  @type: "sc:Manifest",
  description: "The Papyrus Ebers is an Egyptian medical papyrus of herbal
of ancient Egypt, it was purchased at Luxor (Thebes) in the winter of 187
Leipzig, in Germany. (source: Wikipedia)",
  logo: "http://iiif.ub.uni-leipzig.de/ubl-logo.png",
  label: "Papyrus Ebers",
  attribution: "Leipzig University Library",
  - sequences: [
    - {
      @id: "http://iiif.ub.uni-leipzig.de/0000000001/sequence/1",
      @type: "sc:Sequence",
      - canvases: [
        - {
          label: "Papyrus Ebers",
          @type: "sc:Canvas",
          width: "158530",
          @id: "http://iiif.ub.uni-leipzig.de/0000000001/canvas/1",
          height: "2827",
          - images: [
```

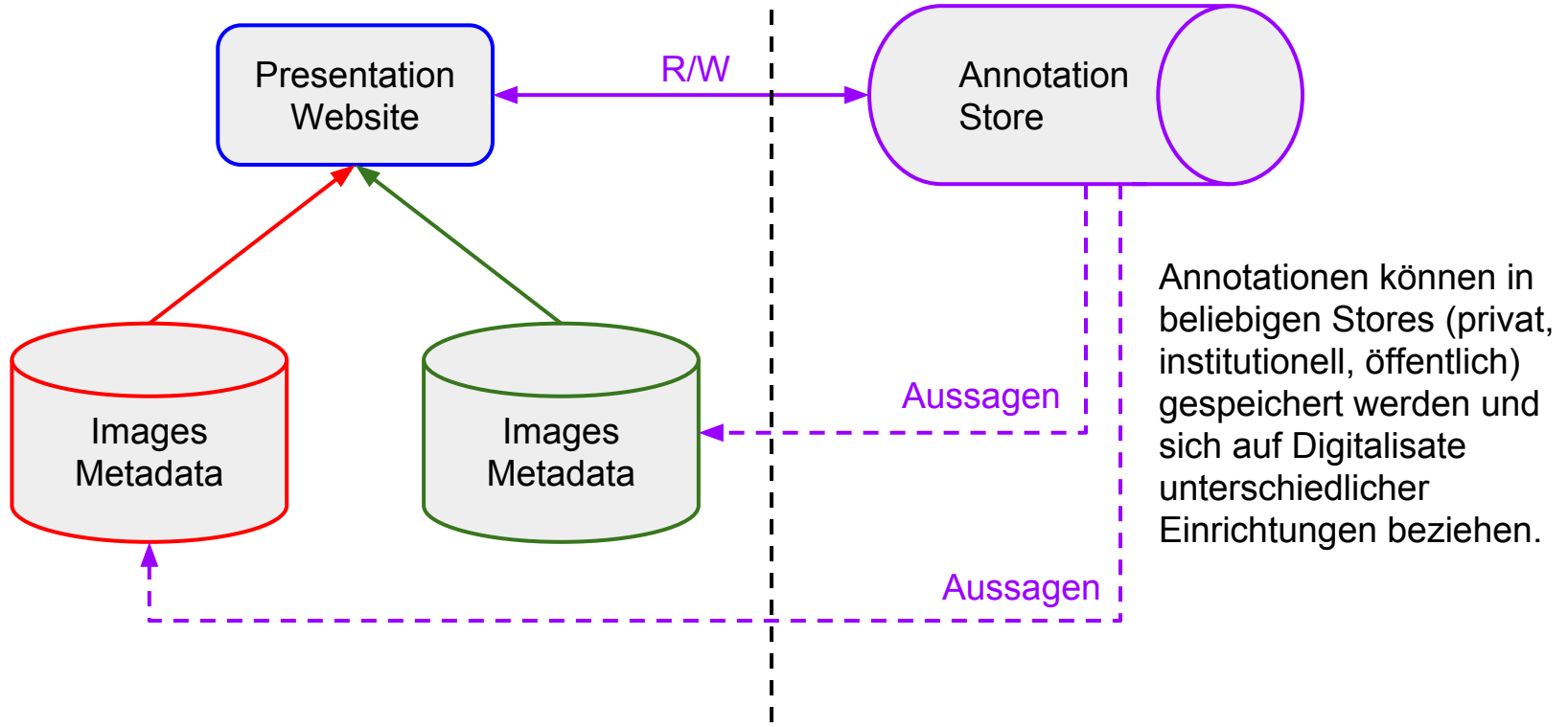


Annotationen als Triple

```
[
- {
  @id: "http://dev.llgc.org.uk/annotation/1458904227863",
  @type: "oa:Annotation",
- resource: [
  - {
    @id: "_:b2",
    @type: "dctypes:Text",
    format: "text/html",
    chars: "<p>test annotation, to be deleted.</p>"
  }
],
- on: {
  @id: "_:b0",
  @type: "oa:SpecificResource",
  - selector: {
    @id: "_:b1",
    @type: "oa:FragmentSelector",
    value: "xywh=155543,375,1694,1022"
  },
  full: "http://iiif.ub.uni-leipzig.de/0000000001/canvas/1"
},
- motivation: [
  "oa:commenting"
]
```



Annotationen



Software für Presentation API

Es existieren inzwischen einige Image-Viewer

<http://iiif.io/apps-demos/#image-viewing-clients>

Beispiel Mirador

<http://projectmirador.org/>

- Multi-Dokumentenfähig
- Nutzt OpenSeadragon
- Image Manipulation
- Unterstützt die flexible Nutzung von Annotation
- Apache Lizenz

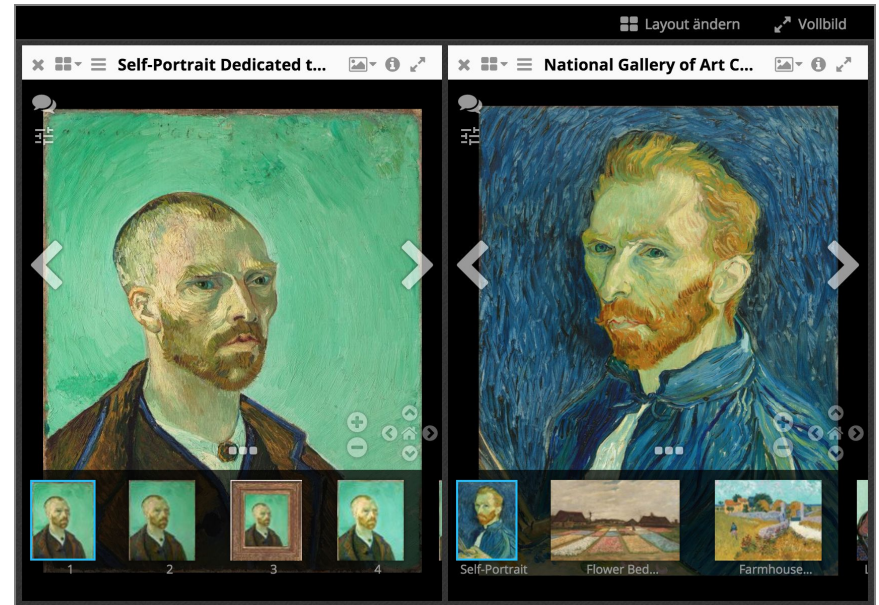
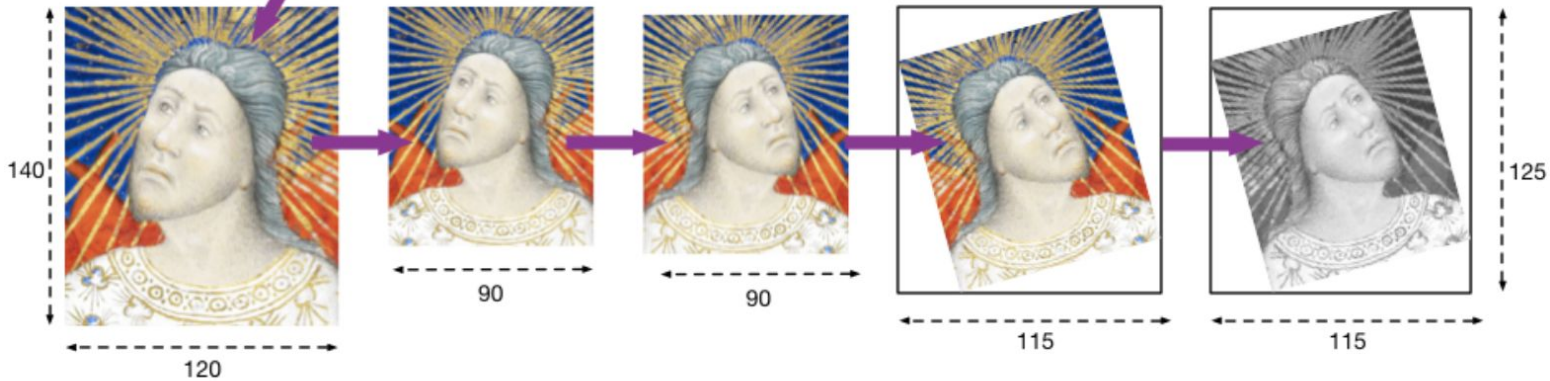
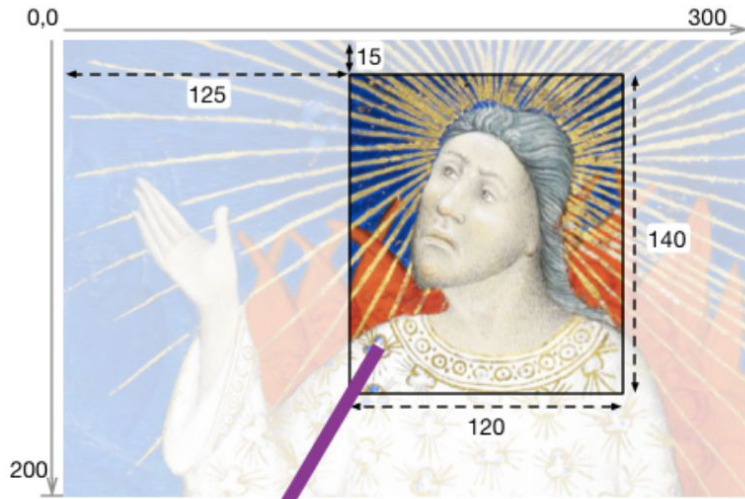


Image API (Pixel Delivery)

<http://iiif.io/api/image/2.1/>



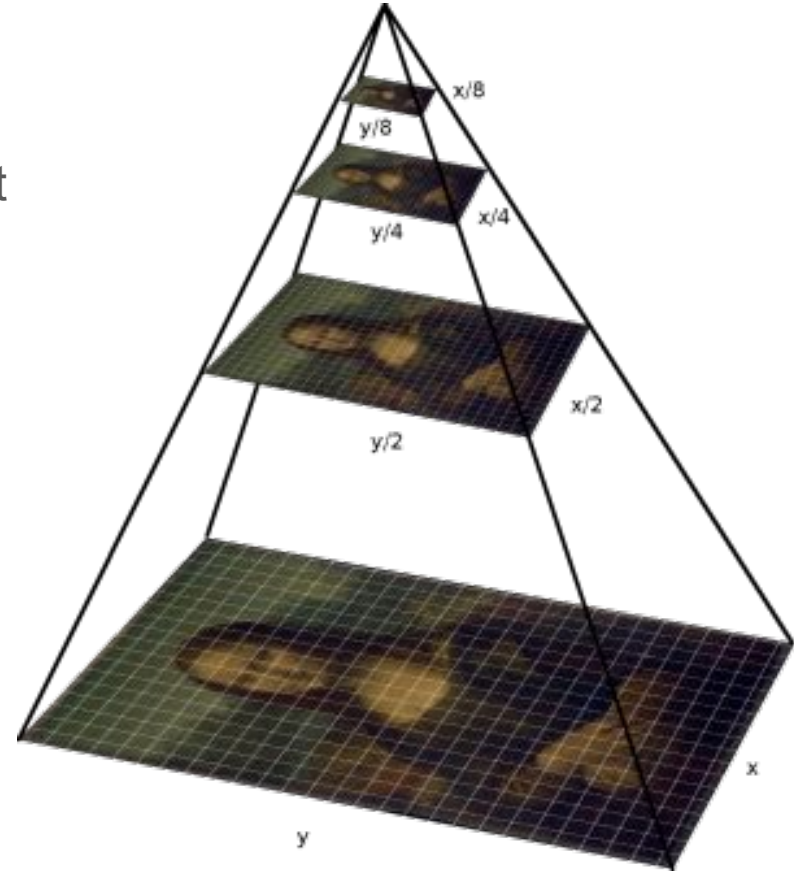
region=125,15,120,140 size=90, rotation=!345 quality=gray
.../125,15,120,140/90, /!345/gray.jpg

Software für die Image API

Wird von zahlreichen Image-Servern unterstützt

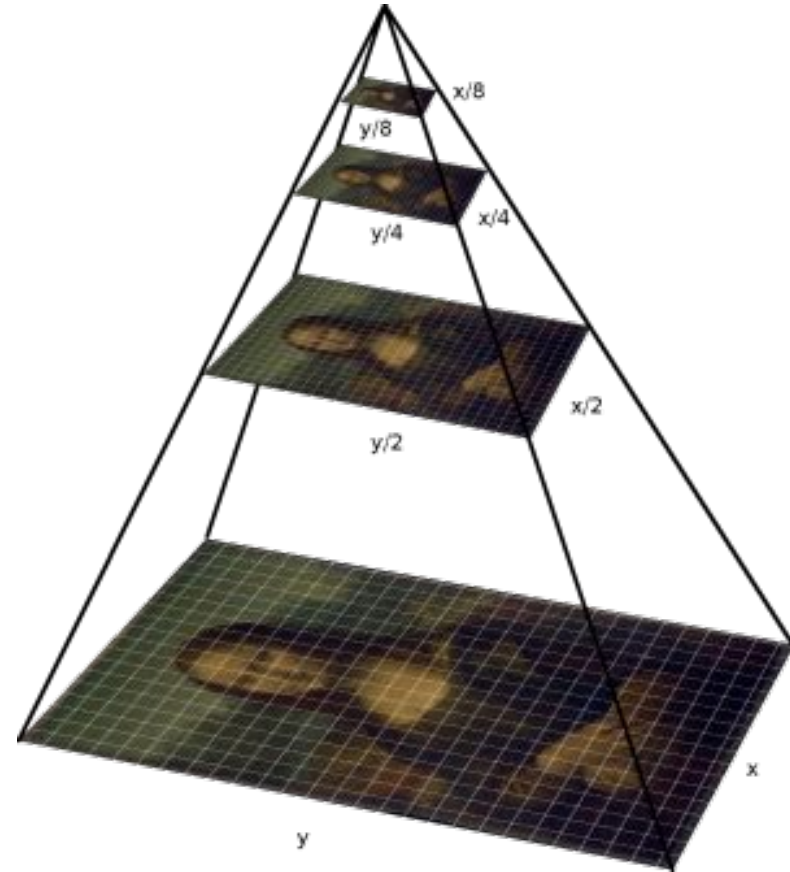
<http://iiif.io/apps-demos/#image-servers>

Beispiel IIPImage Server
(FastCGI-Modul für Apache, GPLv3)



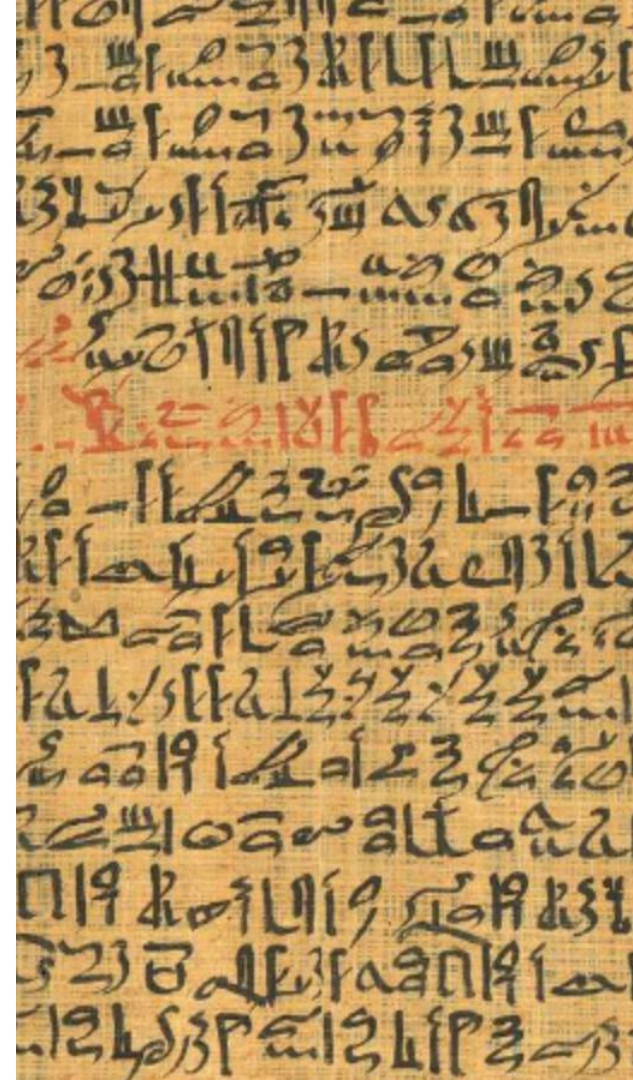
Präprozessierte Dateien

- Tiled Multi-Resolution (or Tiled Pyramidal)
- üblich: TIFF oder JPEG2000
- Geringe Auswahl an geeigneter Software
 - TIFF: ImageMagick (Open Source)
 - JPEG 2000: Kakadu (Commercial)
 - JPEG 2000: OpenJPEG?



Beispiel Papyrus Ebers

- Papyrus scroll from Egypt
- Age: > 3,500 years (from 16th century BC)
- Description of 879 medical treatments



Beispiel Papyrus Ebers

Special requirements:

- Unusual format (scroll): 18,63 m (20,37 yards) x 0,30 m (11,81 inches)
- Integrate Mirador with Wordpress for static content
- Translations for the whole text and in different languages
- Search in annotations (**linking not implemented yet**)
- Individual modifications of the layout

Demo: <http://papyrusebers.de>

Übersetzung an/aus

Übersicht



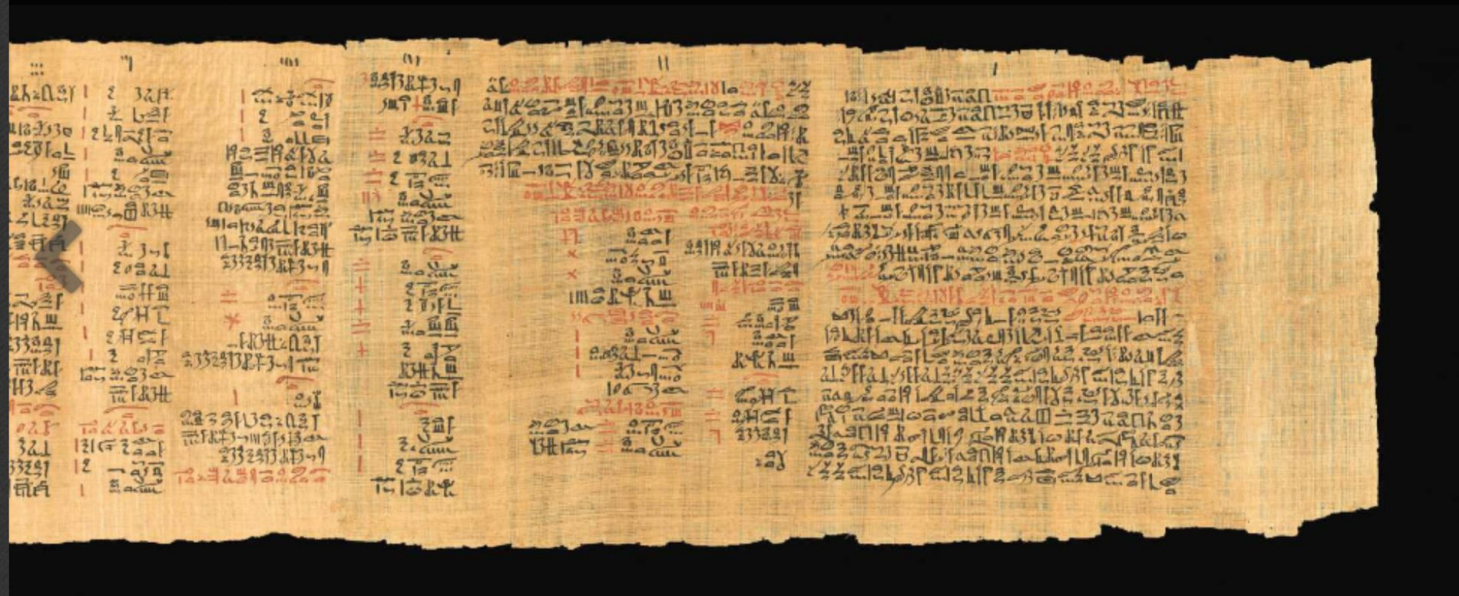
Rückseite li...



Vorderseite



Rückseite r...



Übersetzung an/aus

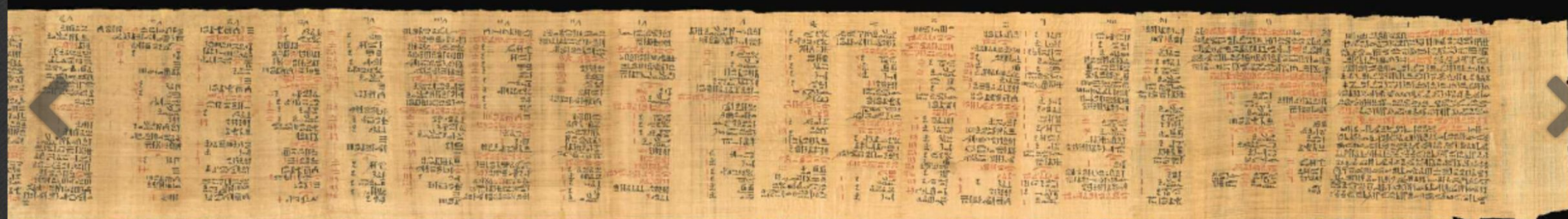
Übersicht



Rückseite li...

Vorderseite

Rückseite r...



Übersetzung an/aus

Übersicht



Rückseite li...



Vorderseite



Rückseite r...



145.819 x 2.827 Pixel

Übersetzung an/aus

Übersicht



Rückseite l...



Vorderseite

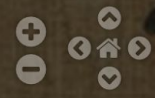


Rückseite r...



Übersetzung an/aus

Übersicht



Rückseite li...



Vorderseite



Rückseite r...

Handwritten text in Hieroglyphs and Demotic script on a papyrus scroll. The text is arranged in horizontal lines, with some characters in red ink. The script is dense and characteristic of ancient Egyptian writing.

Translation on/off

Overview



Back to the...



Front of th...



Back to the...

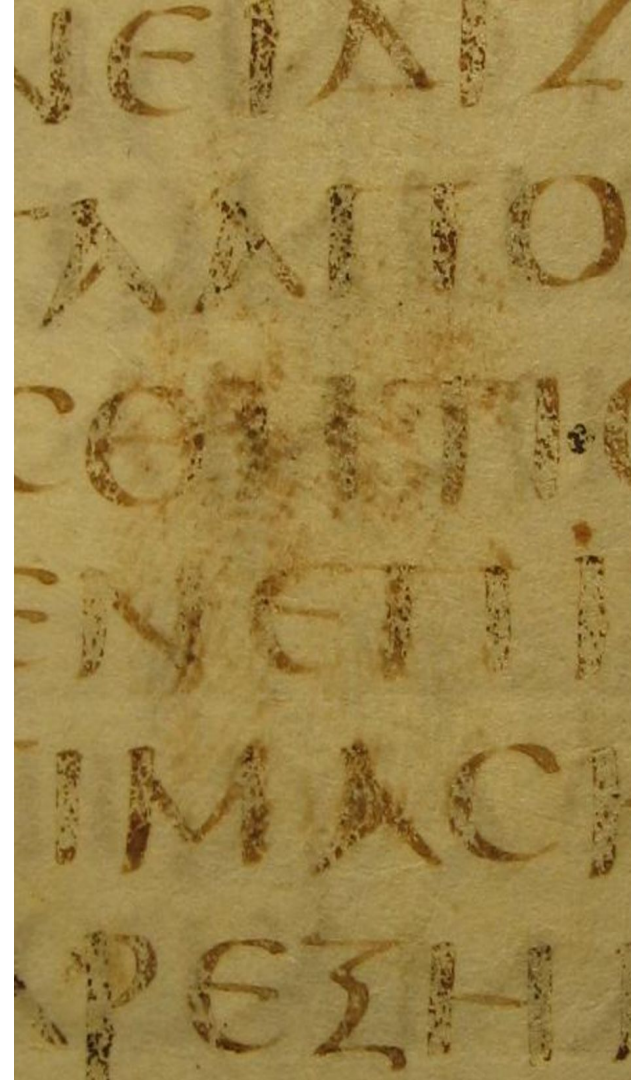


Eb 465 (66, 9 – 66, 12)

Another to make the hair of a bald-headed person grow: fat of lion 1, fat of hippopotamus 1, fat of crocodile 1, fat of cat 1, fat of serpent 1, fat of ibex 1, are mixed together, and the head of a bald person is anointed therewith.

Beispiel Codex Sinaiticus

- Manuscript of the Christian Bible
- Written in the middle of the 4th century
- Earliest complete copy of the New Testament
- Distributed between four institutions
 - The British Library (347 leaves)
 - Leipzig University Library (43 leaves)
 - National Library of Russia
 - St. Catherine's Monastery, Mt. Sinai, Egypt



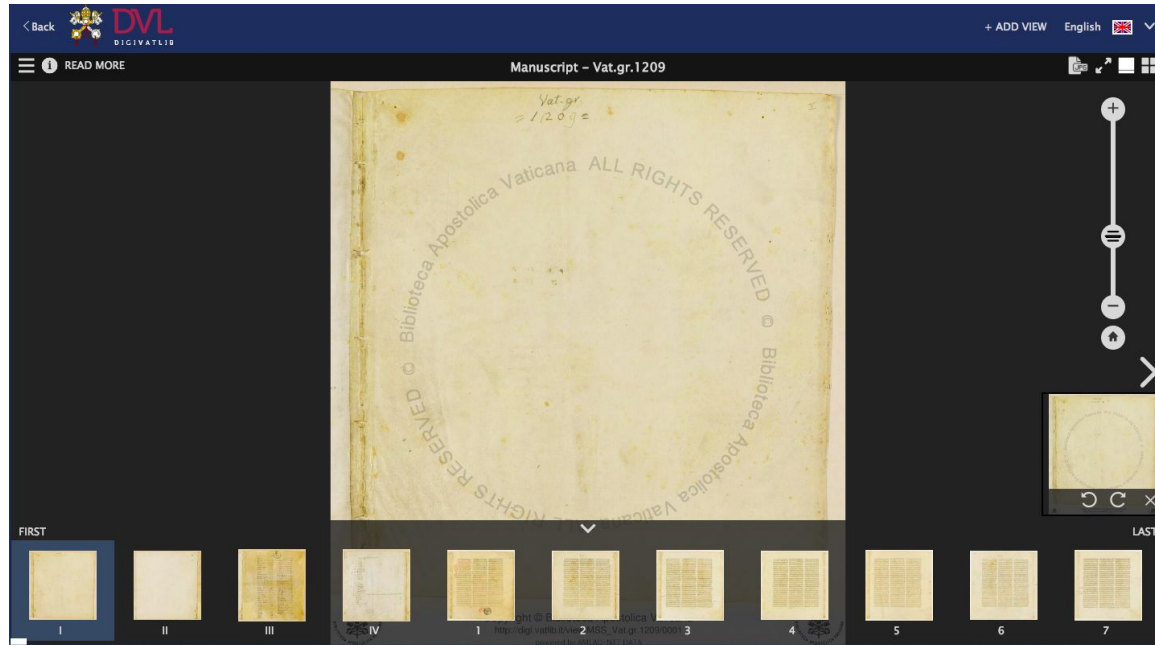
Codex Vaticanus Graecus 1209



New Testament manuscript
papyri · uncials · minuscules · lectionaries



Page from *Codex Vaticanus*; ending of 2 Thes and beginning of Heb



Screenshot Vatikanische Bibliotheken

Name	Vaticanus
Sign	B
Text	Old and New Testament
Date	c. 300–325
Script	Greek
Now at	Vatican Library
Cite	C. Vercellonis, J. Cozza, <i>Bibliorum Sacrorum Graecus Codex Vaticanus</i> , Roma 1868.
Size	27 × 27 cm (10.6 × 10.6 in)
Type	Alexandrian text-type
Category	I
Note	very close to B^{66} , B^{75} , 0162

Demo Codex Vaticanus und Codex Sinaiticus

Mirador: <https://digital.ub.uni-leipzig.de>

Codex Sinaiticus (testing, Leipzig leaves only!)

<https://iiif.ub.uni-leipzig.de/0000000002/manifest.json>

<https://digital.ub.uni-leipzig.de/object/viewid/0000000002>

Codex Vaticanus

https://digi.vatlib.it/iiif/MSS_Vat.gr.1209/manifest.json

https://digi.vatlib.it/view/MSS_Vat.gr.1209/0001

✕ Close

Filter objects: Add new object from URL:

Load

abl

Festschrift zum fünfhundertjährigen Geburtstage von
Johann Gutenberg

Leipzig University Library

566 items



...

abl

Die Krankheiten der Leber

Leipzig University Library

858 items



...

abl

Nasen-, Rachen- und Kehlkopfkrankheiten

Leipzig University Library

448 items



...

abl

Die Termiten oder weißen Ameisen

Leipzig University Library

226 items



...

abl

Die Gicht

Leipzig University Library

310 items



...

..

Die Nervenkrankheiten nach Unfällen































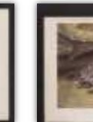



















- <https://iiif.ub.uni-leipzig.de/0000000002/manifest.json>
- https://digi.vatlib.it/iiif/MSS_Vat.gr.1209/manifest.json

Filter objects:

Add new object from URL:

Load

<i>abl</i>	Festschrift zum fünfhundertjährigen Geburtstage von Johann Gutenberg Leipzig University Library 566 items	       	...
<i>abl</i>	Die Krankheiten der Leber Leipzig University Library 858 items	       	...
<i>abl</i>	Nasen-, Rachen- und Kehlkopfkrankheiten Leipzig University Library 448 items	       	...
<i>abl</i>	Die Termiten oder weißen Ameisen Leipzig University Library 226 items	       	...
<i>abl</i>	Die Gicht Leipzig University Library 310 items	       	...
<i>..</i>	Die Nervenkrankheiten nach Unfällen	       	...

✕ Close

Filter objects: Add new object from URL: Load

abl

Codex Sinaiticus

86 items



...

DVL
DIGIVATLIB

Vat.gr.1209

1555 items



...

abl

Festschrift zum fünfhundertjährigen Geburtstage von
Johann Gutenberg

Leipzig University Library

566 items



...

abl

Die Krankheiten der Leber

Leipzig University Library

858 items



...

abl

Die Gicht

Leipzig University Library

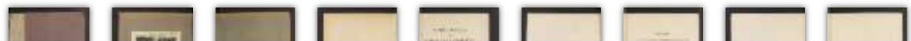
310 items



...

||

Nasen-, Rachen- und Kehlkopfkrankheiten

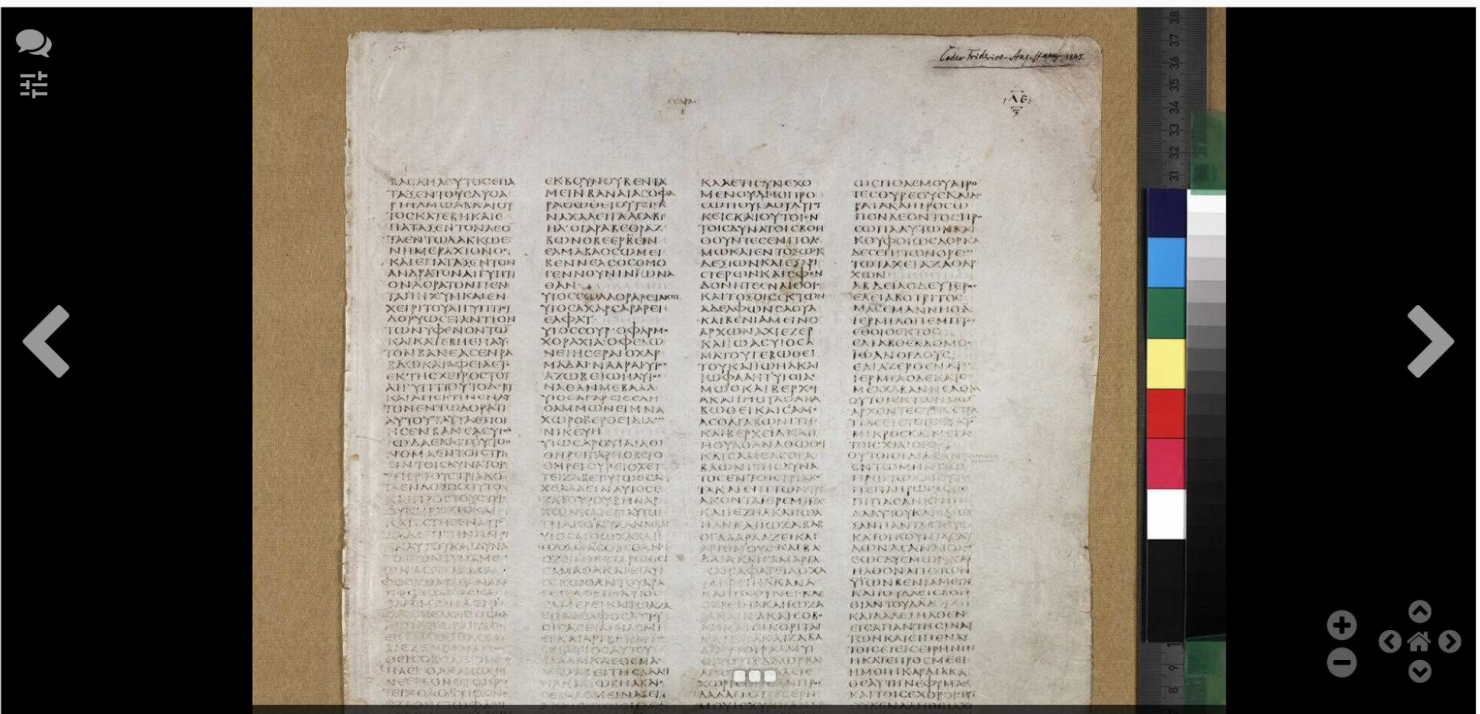


Codex Sinaiticus



- Replace Object
- Add Slot Right**
- Add Slot Left
- Add Slot Above
- Add Slot Below

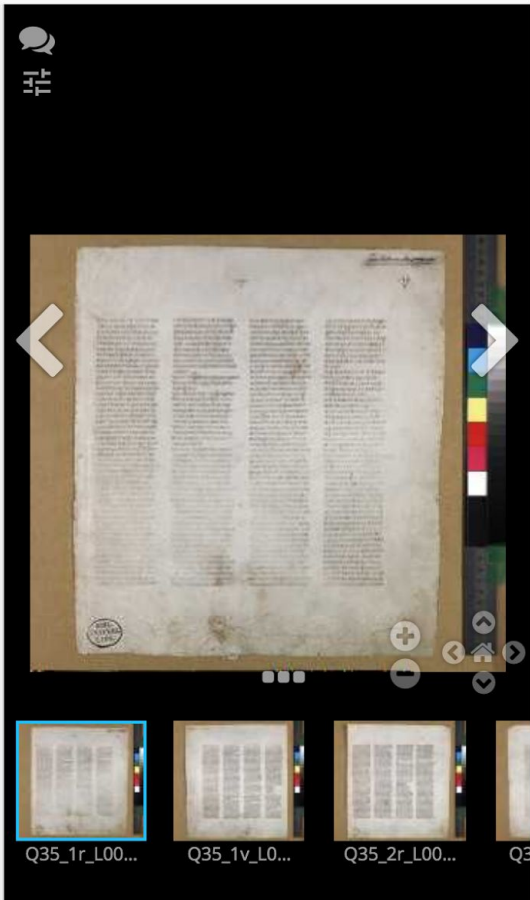
Buch Klagenlieder



Q35_1r_L00... Q35_1v_L00... Q35_2r_L00... Q35_2v_L00... Q35_3r_L00... Q35_3v_L00... Q35_4r_L00... Q35_4v_L00... Q35_5r_L00...

Codex Sinaiticus

- Buch Chronik
- Buch Esra
- Buch Ester
- Buch Tobit
- Buch Jeremia
- Buch Klagenlieder



Close



Add Item

Codex Sinaiticus

Buch Chronik

Buch Esra

Buch Ester

Buch Tobit

Buch Jeremia

Buch Klagenlieder



Vat.gr.1209

p. III Codicis index

p. IV Veteris Testamenti librorum
divisio secundum s. Hieronymum

p. 1-46 Genesis

p. 47-99 Exodus

p. 99-137 Leviticus

p. 138-191 Numeri

p. 191-238 Deuteronomium

p. 238-270 Iosue

p. 271-304 Iudicum

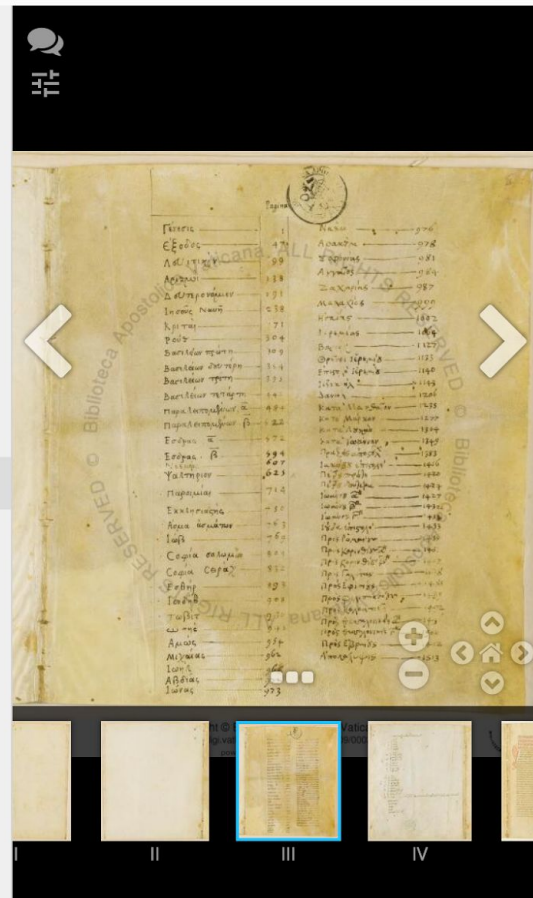
p. 304-309 Ruth

p. 309-394 Samuelis I-II

p. 395-484 Regum I-II

p. 484-572 Paralipomenon I-II

p. 572-594 Esdrae III



Codex Sinaiticus

Buch Chronik

Buch Esra

Buch Ester

Buch Tobit

Buch Jeremia

Buch Klagenlieder



Vat.gr.1209

p. 484-572 Paralipomenon I-II

p. 572-594 Esdrae III

p. 594-624 Esdrae II. Septuaginta

p. 625-713 Psalmi

p. 714-749 Proverbia

p. 750-762 Ecclesiastes

p. 763-769 Canticum canticorum

p. 769-809 Iob

p. 809-832 Sapientia

p. 832-893 Ecclesiasticus, praemisso prologo.

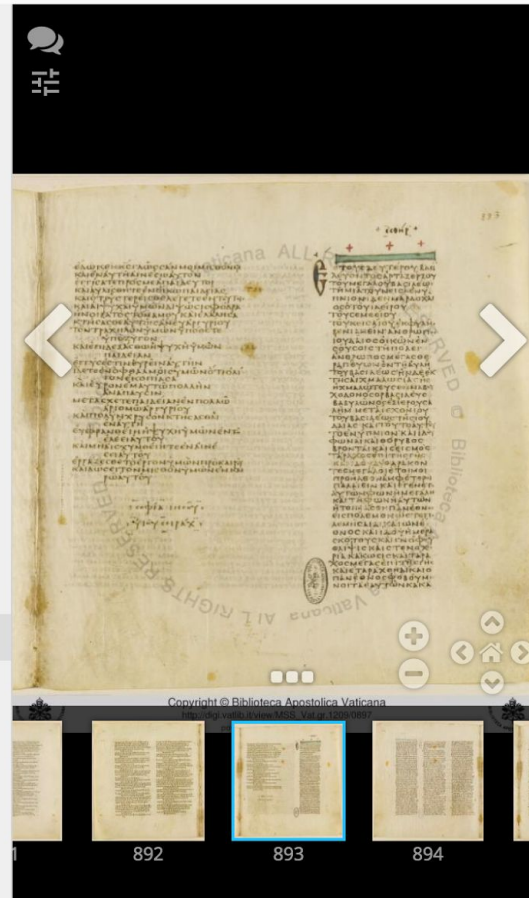
p. 832-833 Ecclesiastici prologus

p. 833-893 Ecclesiasticus

p. 893-907 Esther

p. 908-930 Iudith

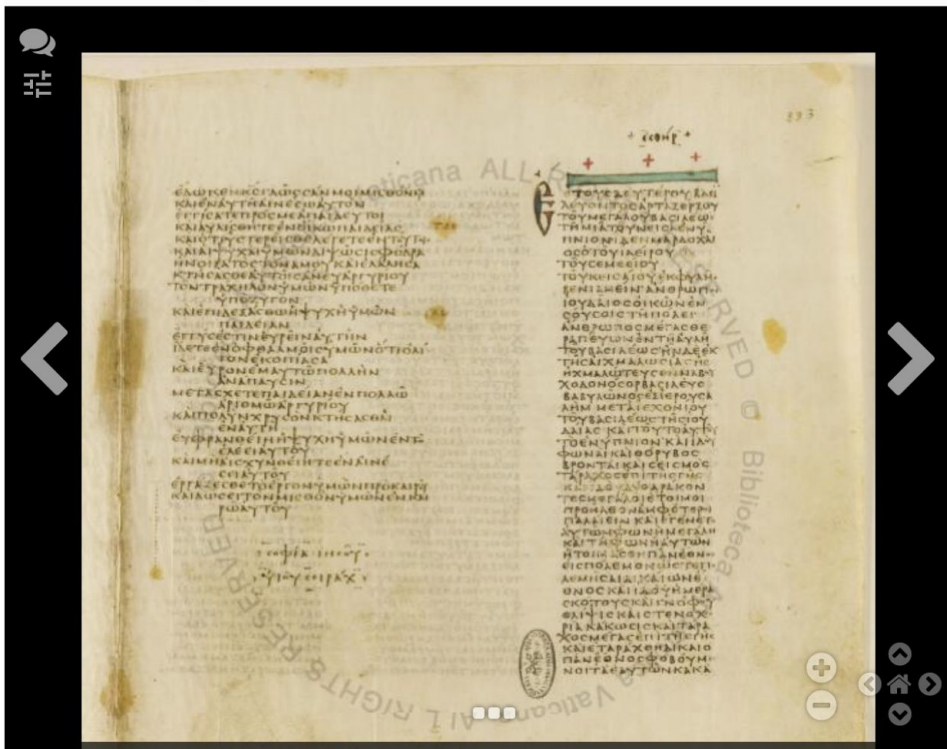
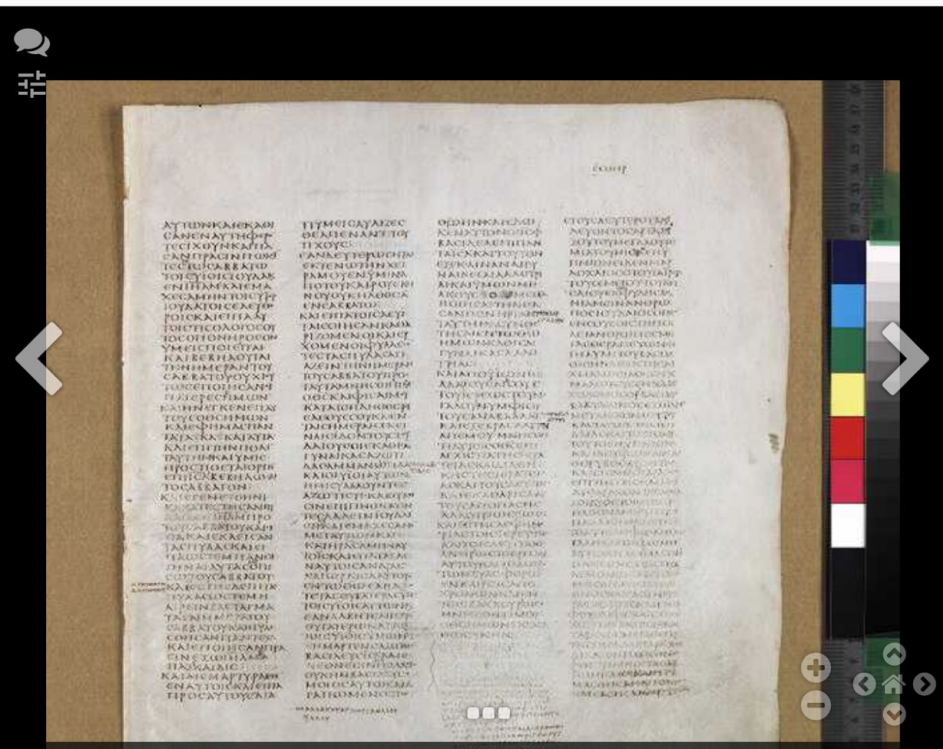
p. 930-944 Tobias



Codex Sinaiticus



Vat.gr.1209



Q36_4v_L01...

Q36_5r_L01...

Q36_5v_L01...

Q36_6r_L01...

Q36_6v_L01...

Q36_7r_L01...

892

893

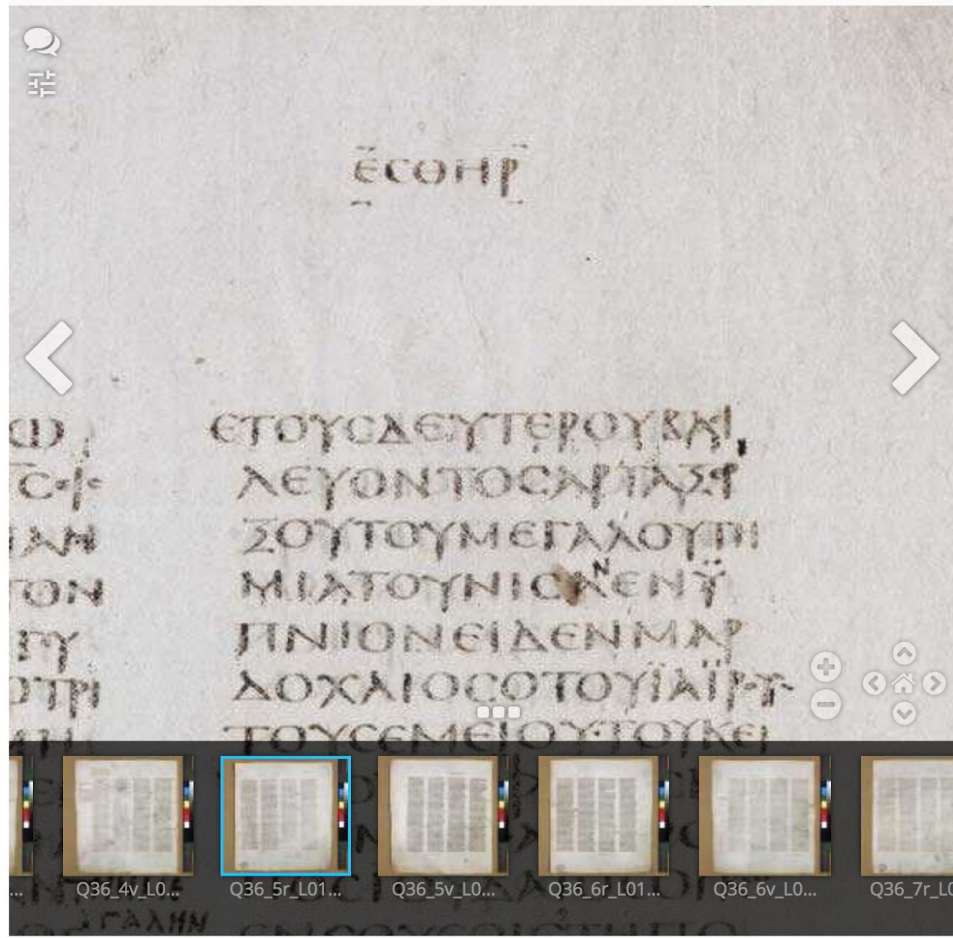
894

895

896

897

Codex Sinaiticus



Vat.gr.1209



Q36_4v_L01...

Q36_5r_L01...

Q36_5v_L01...

Q36_6r_L01...

Q36_6v_L01...

Q36_7r_L01...

892

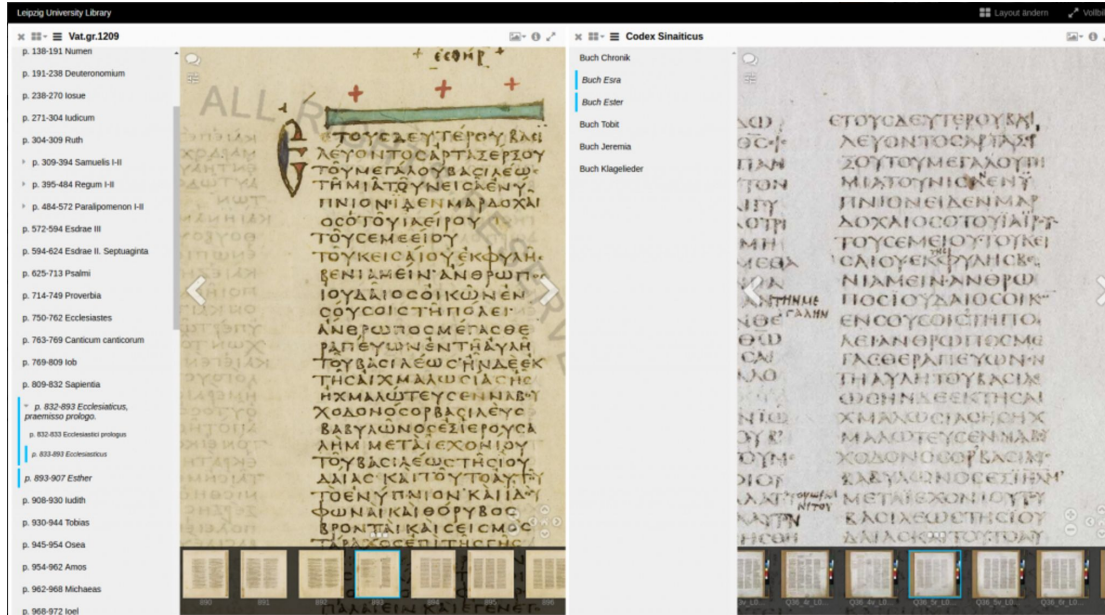
893

894

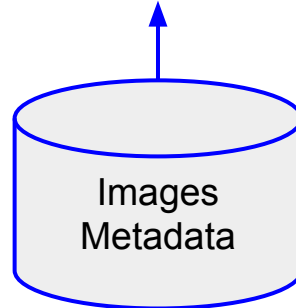
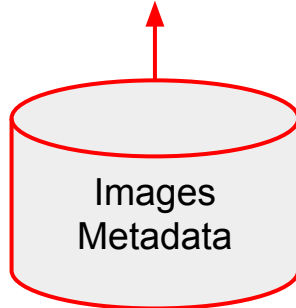
895

896

897



Vatikanische
Bibliothek



UNIVERSITÄTS
BIBLIOTHEK *ubl* LEIPZIG

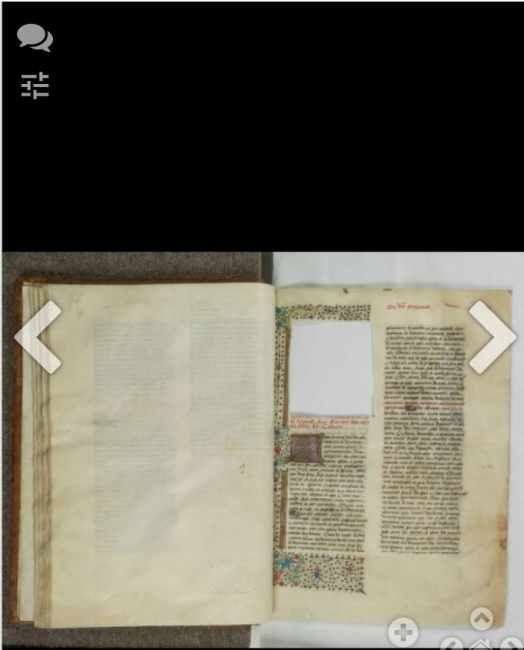
Demo Mirador / Biblissima

http://projectmirador.org/demo/advanced_features.html

Reconstructed manifest (partial): Grandes Ch...

Index Suche Ebenen

Kein Inhaltsverzeichnis verfügbar



f. 033v - 034



f. 034v - 035



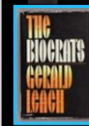
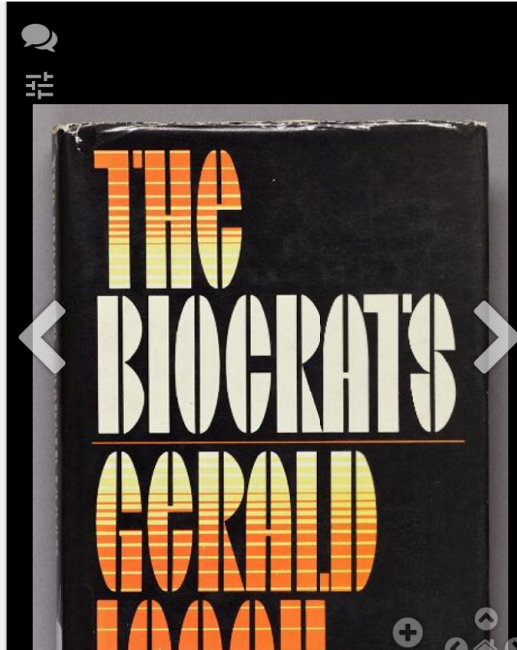
f. 045v

The biocrats

Index Suche Ebenen

Front Cover

- Title Page
- Table of Contents
- Back Cover



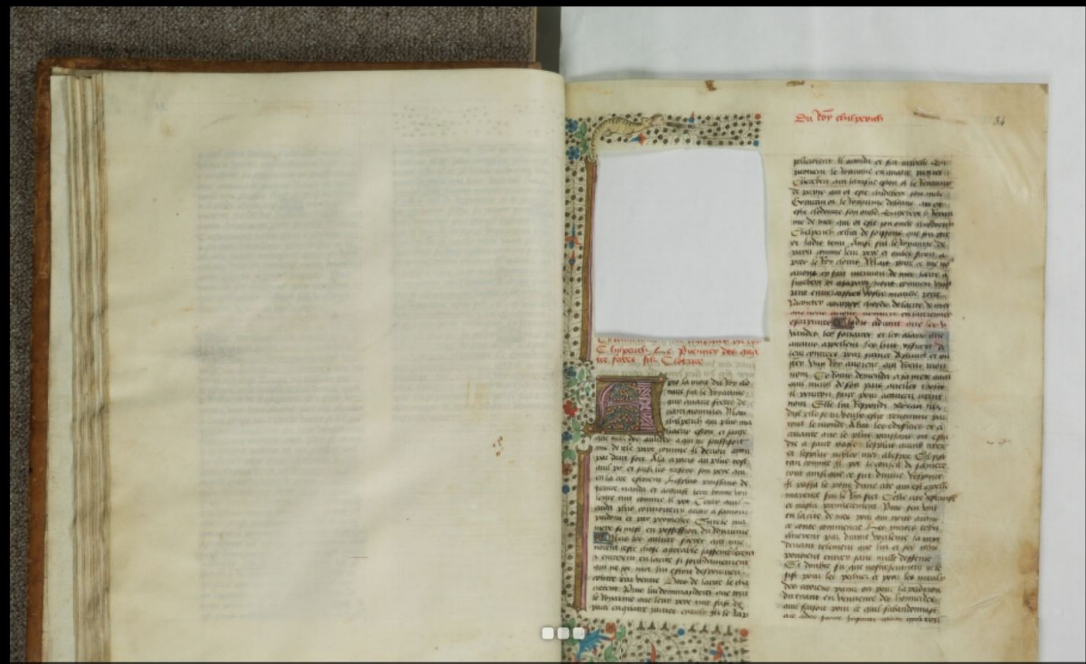
THE
BIOCRATS
GERALD
LEACH



Reconstructed manifest (partial): Grandes Chroniques de France (Châteauroux, BM, ms 5)

Index Suche Ebenen

Kein Inhaltsverzeichnis verfügbar



f. 033v - 034



f. 034v - 035



f. 045v - 046



f. 046v - 047



f. 053v - 054



f. 054v - 055



f. 067v - 068



Reconstructed manifest (partial): Grandes Chroniques de France (Châteauroux, BM, ms 5)



- Index
- Suche
- Ebenen**

Bilder für f. 033v - 034

Kein Label

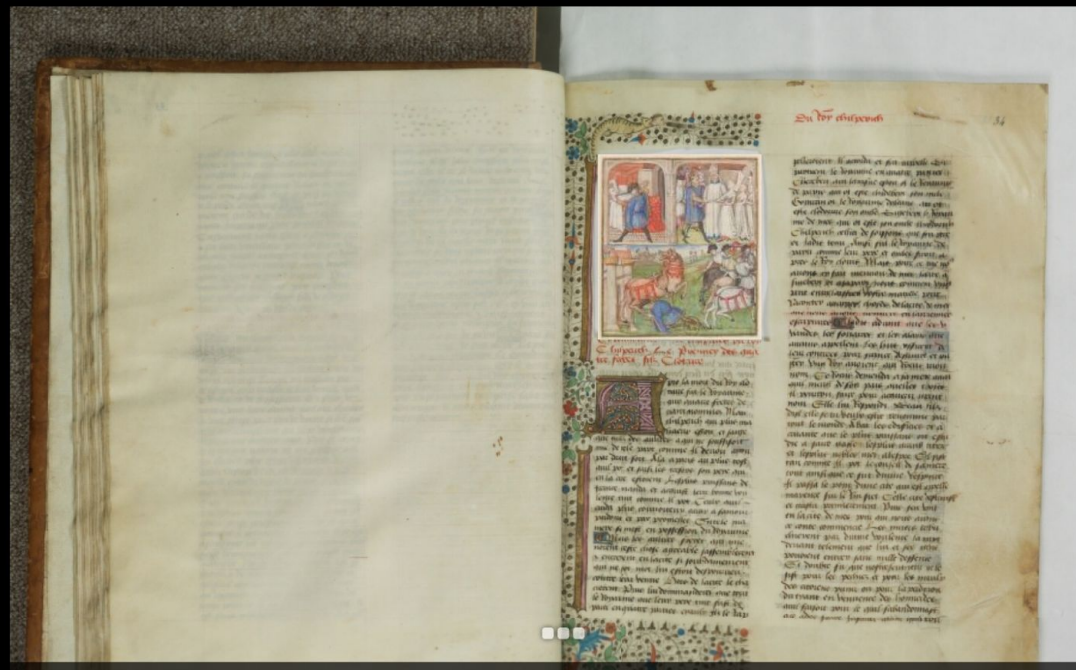
sichtbar

Deckkraft (100%)

Kein Label

sichtbar

Deckkraft (100%)



f. 033v - 034



f. 034v - 035



f. 045v - 046



f. 046v - 047



f. 053v - 054



f. 054v - 055



f. 067v - 068



Reconstructed manifest (partial): Grandes Chroniques de France (Châteauroux, BM, ms 5)

- Index
- Suche
- Ebenen**

Bilder für f. 034v - 035

Kein Label

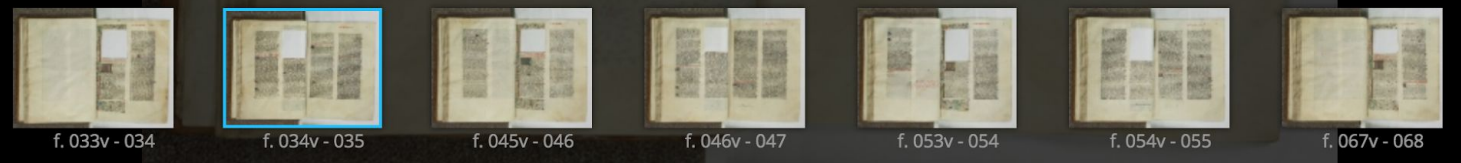
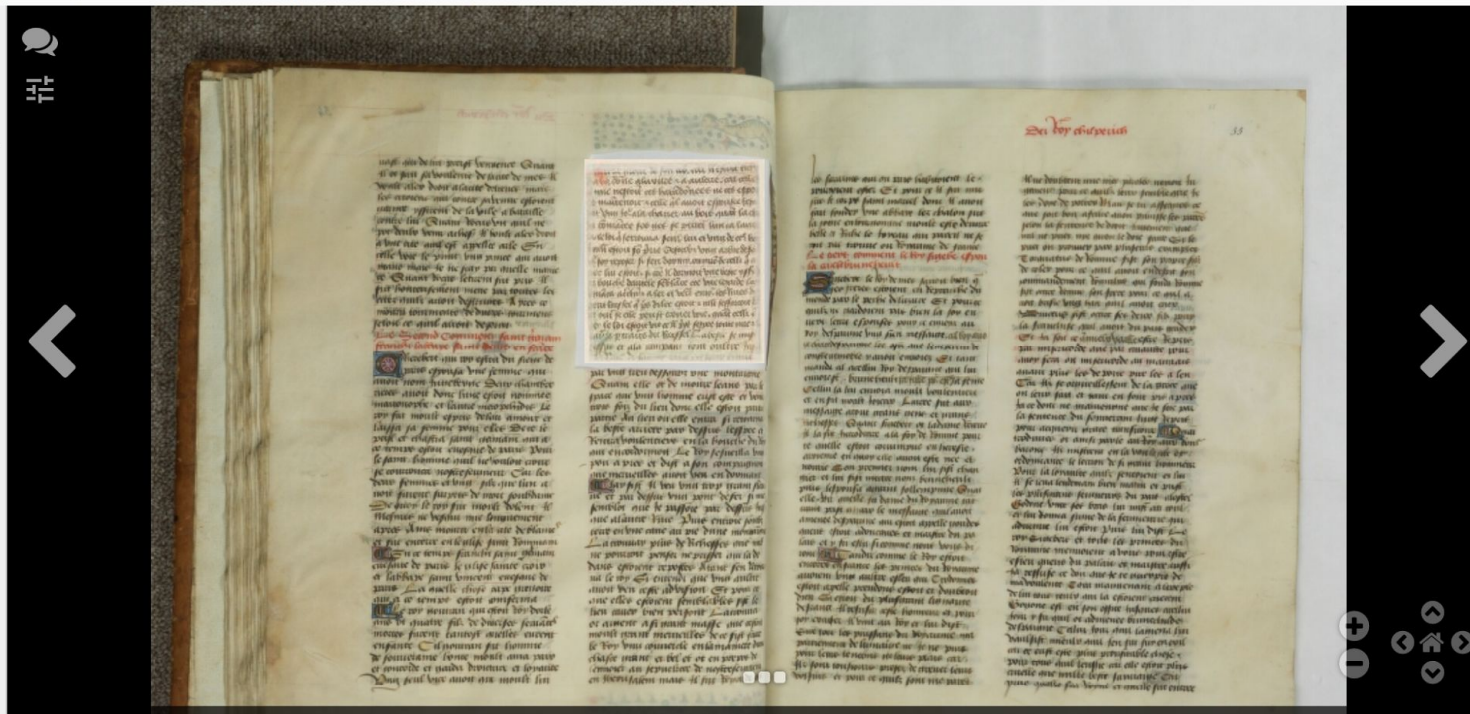
sichtbar

Deckkraft (100%)

Kein Label

sichtbar

Deckkraft (100%)



f. 033v - 034

f. 034v - 035

f. 045v - 046

f. 046v - 047

f. 053v - 054

f. 054v - 055

f. 067v - 068

Reconstructed manifest (partial): Grandes Chroniques de France (Châteauroux, BM, ms 5)



Index

Suche

Ebenen

Bilder für f. 034v - 035

Kein Label

 sichtbar

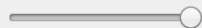
Deckkraft (100%)



Kein Label

 sichtbar

Deckkraft (100%)



Quer loie. quat celle
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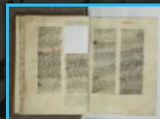
fousz vnc montaigne
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 uere leue esponsez pour ce emom au
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 manda al acellu roy despuine que lui
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 et en fut moult loieuz Laure fut auy
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 fl la fist hucodure ala fou de femme pour
 te quelle estoit corrupue en heresie.
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 nouue Son premier nom lui fist chan
 tier et lui fist mettre nom bny bny
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 Pour la lo
 fl se leu bny
 les plus suane



f. 033v - 034



f. 034v - 035



f. 045v - 046



f. 046v - 047



f. 053v - 054



f. 054v - 055



f. 067v - 068

Reconstructed manifest (partial): Grandes Chroniques de France, BM, ms 5



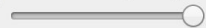
Index Suche Ebenen

Bilder für f. 034v - 035

Kein Label

 sichtbar

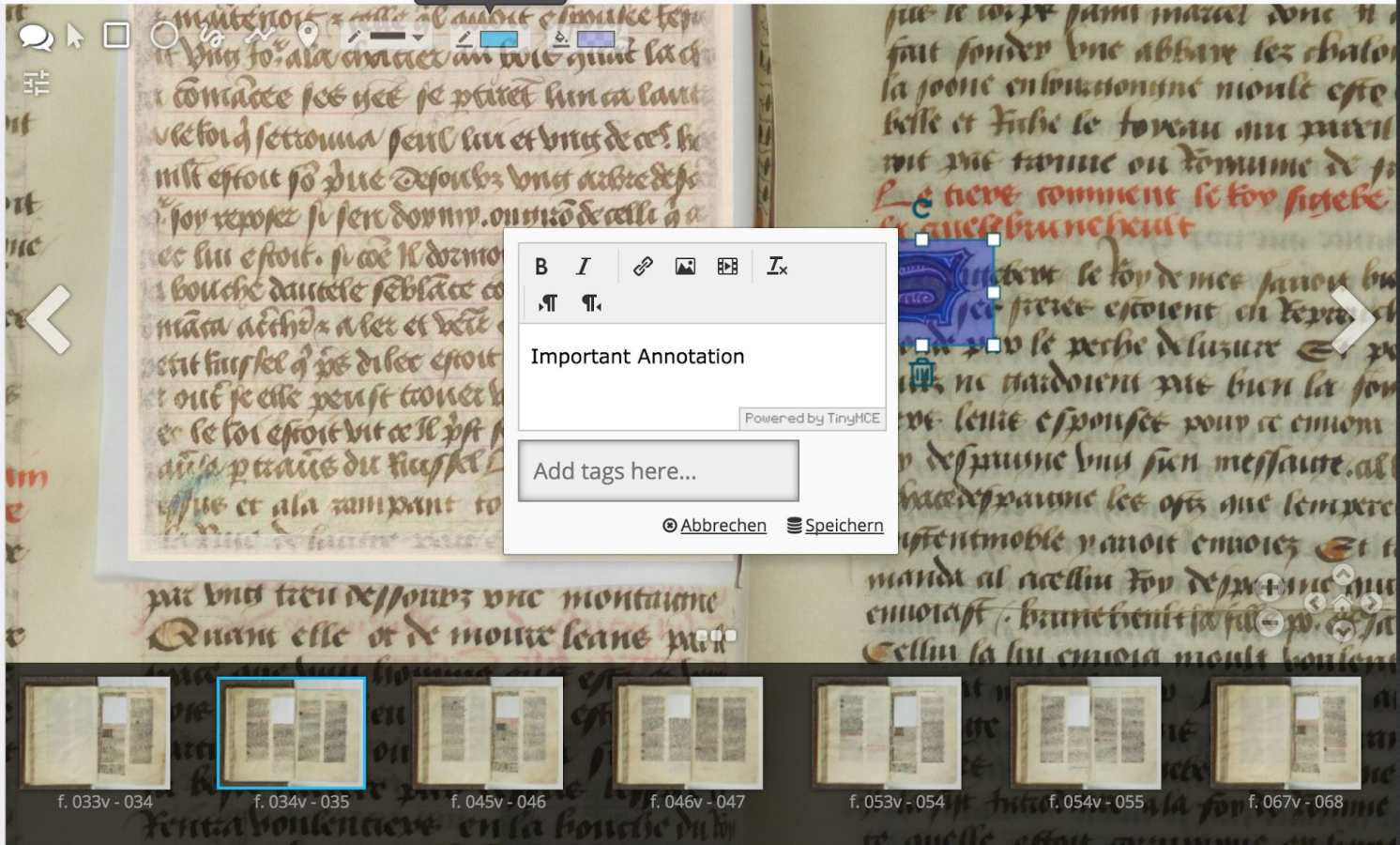
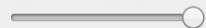
Deckkraft (100%)



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 sichtbar

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**B** *I* **Zx**

Important Annotation

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f. 033v - 034

f. 034v - 035

f. 045v - 046

f. 046v - 047

f. 053v - 054

f. 054v - 055

f. 067v - 068

Reconstructed manifest (partial): Grandes Chroniques de France (Châteauroux, BM, ms 5)



Index Suche Ebenen

Bilder für f. 034v - 035

Kein Label

sichtbar

Deckkraft (100%)

Kein Label

sichtbar

Deckkraft (100%)

maintenon & celle qe amoit espousee ten
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 pu vng tien de spourz vne montaigne
 Quant elle or de moure leane par

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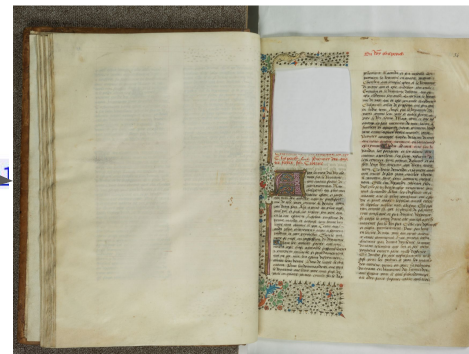
Important Annotation



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- resource: {
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}
]

```



offset

Handschriftenkurs der UB Leipzig 2017

- Virtuelle Arbeitsumgebung
- Bindet Handschriftendigitalisate unterschiedlicher Einrichtungen in eine Oberfläche ein
- ermöglicht Annotationen zur Dokumentation wissenschaftlicher Arbeit
- basierend auf der Software `mirador@sul` (Stanford University Libraries)
https://github.com/sul-dlss/mirador_sul

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Bearbeiten Löschen
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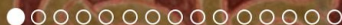
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Collections

Swiss Collections

Location, Library / Collection	Documents
All Libraries and Collections	1947
Aarau, Aargauer Kantonsbibliothek	18
Aarau, Staatsarchiv Aargau	7
Appenzell, Landesarchiv Appenzell Innerrhoden	5
Basel, Pharmazie-Historisches Museum der Universität Basel	9
	157

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Latest Manuscripts:

[12/14/2017](#)

Newsletters from the past:

- [Issue 31](#), December 2017
- [Issue 30](#), October 2017
- [Issue 29](#), June 2017
- [Issue 28](#), March 2017
- [Issue 27](#), December 2016
- [Issue 26](#), November 2016

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Endpoint: <http://www.e-codices.unifr.ch/metadata/iiif/>

Collections: <http://www.e-codices.unifr.ch/metadata/iiif/collection.json>

Manifeste: 1500

Images: 590,840

Wellcome Library

Website: <http://wellcomelibrary.org>

Endpoint: <https://wellcomelibrary.org/iiif>

Collections: <https://wellcomelibrary.org/service/collections/>

Manifests: 150,000


Images: 27,000,000



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Whether it's imparting knowledge in medieval herbals, stamping their authority on regulations and standards, or advertising their wares, apothecaries and pharmacists have always understood the value of graphic imagery.

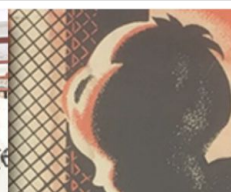
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Zukünftige Entwicklung der IIF APIs

- IIF AV und Presentation API 3.0
 - Wechsel von Open Annotation Data Model zum W3C Web Annotation Data Model
 - Unterstützung von Videoquellen

Institutionell gesehen

- Umsetzung der Open Digitization Policy
Verfügbarmachung aller dafür geeigneten Digitalisate
 - unter CC0 bzw. CC-PD-Mark
 - IIF-kompatible
- Werkstatt-Schaufenster: <https://digital.ub.uni-leipzig.de>

Der Kultur – Hackathon

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OST 2018

Auftakt
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APRIL**

Preisverleihung
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2018**

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