

Baroque AI: Publication Prototype

Class participants

3/17/23

Table of contents

1	Part of the series: Baroque TOC	1
2	Colophon	3
3	Catalogue Experiment: Baroque AI	5
3.1	Part of the series: Baroque TOC	5
3.2	Add your name:	5
3.3	Text editing	5
4	Activity: Paintings catalogue in Jupyter Notebook	7
5	Activity: Embedded video in Jupyter Notebook	29
5.1	3D model embedding	29
6	Custom Collection - SW	31

Chapter 1

Part of the series: Baroque TOC

Programme instructions

2023-03-17 v1.0

Venus und Cupido, Heinrich Bollandt, between circa 1620 and circa 1630. https://commons.wikimedia.org/wiki/File:Heinrich_Bollandt__Venus_und_Cupido.jpg This work is in the public domain.

Example publications:

- Exhibition Catalogue (Work in progress) - <https://nfdi4culture.github.io/catalogue-003/> (content from the current repo)
- Exhibition catalogue demo: toc Baroque /toc from Experimental Books – Re-imagining Scholarly Publishing, COPIM. Workshop URL: <https://experimentalbooks.pubpub.org/programme-overview>
- Publishers catalogue demo: ScholarLed A catalogue of ScholarLed presses built on a Quarto / Jupyter Notebook model for computational publishing. The publication is automatically updated daily to reflect any new books added by the publishers.
- Proof of concept #1 - Computational Publication: Computational Publishing for Collections - ADA CP Prototype #1 - Nov 22
- Proof of concept #2 - To be confirmed, completion for end of April 2023. This contains all parts fully rendered: Cover, colophon, essay, collection, graph, TIB AV Portal, Semantic Kompakkt
- semanticClimate: To be confirmed - customised research papers readers made for regional climate change action plans based on IPCC reports and

sourcing content from open research repositories.

- FSCI Summer School - publishing from collections class: To be confirmed, July 2023

This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

Chapter 2

Colophon

PUBLISHING FROM COLLECTIONS USES OF COMPUTATIONAL PUBLISHING AND LINKEDOPEN DATA

Open Science Lab - TIB Hannover

First published 2023-03-30

Copyright © The Authors 2023 Licensed as <https://creativecommons.org/licenses/by-sa/4.0/>

DOI: <https://doi.org/10.5281/zenodo.7701161>

Chapter 3

Catalogue Experiment: Baroque AI

Nextcloud Markdown document link: <https://tib.eu/cloud/s/qBx8SbqiPBBedye>

3.1 Part of the series: Baroque TOC

- Class instructions and all links: <https://nfdi4culture.github.io/class-ADA-CP-pipeline/>
 - Demo publication: <https://nfdi4culture.github.io/catalogue-003/>
 - Repo link: <https://github.com/NFDI4Culture/catalogue-003>
-

3.2 Add your name:

- Simon Worthington

3.3 Text editing

Paste in a section of text based on variation of Baroque painting collections in the state of Bavaria.

<https://openai.com/blog/chatgpt>

<https://www.perplexity.ai/>

Chapter 4

Activity: Paintings catalogue in Jupyter Notebook

Objective: Make a selection of nine paintings for the exhibition catalogue to be selected from Wikidata and rendered multi-format in Quarto.

The below Python code uses SPARQLWrapper to retrieve data from Wikidata based on a SPARQL query.

Wikidata link: <http://www.wikidata.org/entity/Q29474642>

Title: The Birth of Benjamin

Year: 1650

Creator: Francesco Furini

Copyright: public domain

8CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q29474649>

Title: A Cynical Philosopher

Year: 1650

Creator: Luca Giordano

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q29474651>

Title: Solomon and the Queen of Sheba

Year: 1697

Creator: Luca Giordano

Copyright: public domain

10CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q29477235>

Title: Q29477235

Year: 1674

Creator: Antonio Triva

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q29477863>

Title: Q29477863

Year: 1633

Creator: Guido Reni

Copyright: public domain

12CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q29477898>

Title: Still-Life with Books

Year: 1628

Creator: Jan Lievens

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q29480557>

Title: Feast of Herod

Year: 1630

Creator: <http://www.wikidata.org/.well-known/genid/3f945710e81609ba4bae458b2820460a>

Copyright: public domain

14CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q29480565>

Title: Venus and Cupid

Year: 1625

Creator: Heinrich Bollandt

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q29480594>

16CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK

Title: Big banquet

Year: 1620

Creator: Georg Flegel

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q29480596>

Title: Meal with a Mouse and a Parrot

Year: 1650

Creator: Georg Flegel

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q29480634>

Title: Portrait of Prince Ladislaus Sigismund Vasa

Year: 1610

Creator: <http://www.wikidata.org/.well-known/genid/f77a14295b43d06ea1a0e9e3ec892c49>

Copyright: public domain

18 CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q19930126>

Title: Battle Painting

Year: 1650

Creator: Johann Heinrich Schönfeld

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q19930364>

Title: Rocky Landscape with Antique Ruins

Year: 1657

Creator: Nicolaes Pieterszoon Berchem

Copyright: public domain

20CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q19960862>

Title: Supper at the House of Burgomaster Rockox

Year: 1632

Creator: Frans Francken the Younger

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q19960948>

Title: The Gallery of Archduke Leopold in Brussels (II)

Year: 1655

Creator: David Teniers the Younger

Copyright: public domain

22CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q19968958>

Title: Singers

Year: 1610

Creator: Jean LeClerc

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q19973874>

Title: Sacrifice of Abraham

Year: 1636

Creator: Rembrandt

Copyright: public domain

24CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q19973874>

Title: Sacrifice of Abraham

Year: 1636

Creator: <http://www.wikidata.org/.well-known/genid/90c4ff7a51d7f010f33e825766fada65>

Copyright: public domain

26CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Wikidata link: <http://www.wikidata.org/entity/Q20017804>

Title: Italian Evening Landscape

Year: 1670

Creator: Nicolaes Pieterszoon Berchem

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q20064545>

Title: A mother with two children and a maid with a pail by a fireplace

Year: 1675

Creator: Pieter de Hooch

Copyright: public domain

28CHAPTER 4. ACTIVITY: PAINTINGS CATALOGUE IN JUPYTER NOTEBOOK



Chapter 5

Activity: Embedded video in Jupyter Notebook

Objective: Running and editing Jupyter Notebooks in MyBinder and retrieving video and 3D models as embeds.

The below Python code experiments with retrieving video data via iframe embedding.

```
<IPython.core.display.HTML object>
```

5.1 3D model embedding

The below Python code experiments with retrieving 3D data via iframe embedding.

```
<IPython.core.display.HTML object>
<IPython.core.display.HTML object>
```

30CHAPTER 5. ACTIVITY: EMBEDDED VIDEO IN JUPYTER NOTEBOOK

Chapter 6

Custom Collection - SW

Custom Collection by Simon Worthington (April 23): Paintings by Lucas Cranach the Elder <https://www.wikidata.org/wiki/Q191748>.

The collection Notebook only contains the SPARQL query and needs additional Python adding to parse the metadata output.

Madonna and Child in a Landscape

```
/Library/Frameworks/Python.framework/Versions/3.10/lib/python3.10/site-packages/PIL/Image.py:3167
    warnings.warn(

```





Cavalry



Cavalry



Portrait of a Lady



Adam and Eve



Passion Cycle - Christ washing the feet of the apostles



Adam



Eve



Christ crowned with Thorns



Portrait of a man with red whiskers



Christ on the cross between the two thieves



Adam and Eva

Madonna and Child with the Infant John the Baptist and Angels





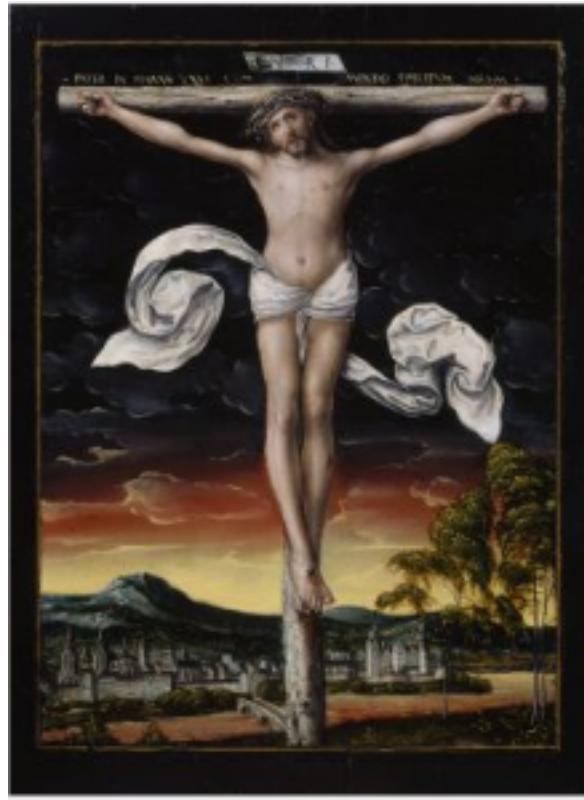
Caritas (Charity)



The Virgin and Child with Infant John the Baptist and Angels



Judith with the Head of Holofernes



Christ on the Cross



The Judgment of Paris



Judgment of Paris



Cardinal Albrecht of Brandenburg as Saint Jerome



The Adoration of the Magi



Beardless Young Man