

# Baroque AI: Publication Prototype

Class participants

3/17/23



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# Chapter 1

## Part of the series: Baroque TOC

Programme instructions

2023-03-17 v1.0

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

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## **Chapter 2**

# **Colophon**

PUBLISHING FROM COLLECTIONS USES OF COMPUTATIONAL PUBLISHING AND LINKEDOPEN DATA

Open Science Lab - TIB Hannover

First published 2023-03-30

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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/Q27016143>

Title: The Last Supper

Year: 1450

Creator: Giotto

Copyright: public domain

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Wikidata link: <http://www.wikidata.org/entity/Q27518439>

Title: The Arrest of Christ with kiss of Judas and ear of Malchus

Year: 1485

Creator: Master of the Munich Arrest of Christ

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q27518766>

Title: John the Evangelist

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Year: 1485

Creator: Dieric Bouts

Copyright: public domain



Wikidata link: <http://www.wikidata.org/entity/Q27518766>

Title: John the Evangelist

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Year: 1485

Creator: <http://www.wikidata.org/.well-known/genid/2a5889f38f3842046293f0a74ef42761>

Copyright: public domain



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# 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>
```

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## **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 under the Fir Tree



Saint Eustace



Judith with two female companions



Maria Hilf



Cupid Complaining to Venus



The Three Graces

The Crucifixion with the Converted Centurion

c:\Users\simon\AppData\Local\Programs\Python\Python39\lib\site-packages\PIL\Image.py:3074: DecompileWarning: warnings.warn(





Madonna with Child with Young John the Baptist



Female Portrait



Melancholy



Melancholy

Cardinal Albrecht of Brandenburg in front of the Crucified Christ





A Faun and His Family with a Slain Lion



Rest on the Flight to Egypt



The Crucifixion



Adam and Eve



Christ blessing the children.



Portrait of a girl with forget-me-nots



Herkules and Omphale



Madonna and Child



Virgin and Child with Saint Catherine of Alexandria

The Mystic Marriage of Saint Catherine of Alexandria with Saints Dorothy, Mar-



garet and Barbara