

# “Experiment - Prompting - Repeat”: Angewandte Generative KI in den Digital Humanities

Digital Humanities Ringvorlesung.  
Stuttgart. 24.01.2024.

Workshop: <https://chpollin.github.io/GM-DH/>  
Slides: <http://tinyurl.com/jwf7tuau>  
Skript: <http://tinyurl.com/zr6dpm63>

Christopher Pollin

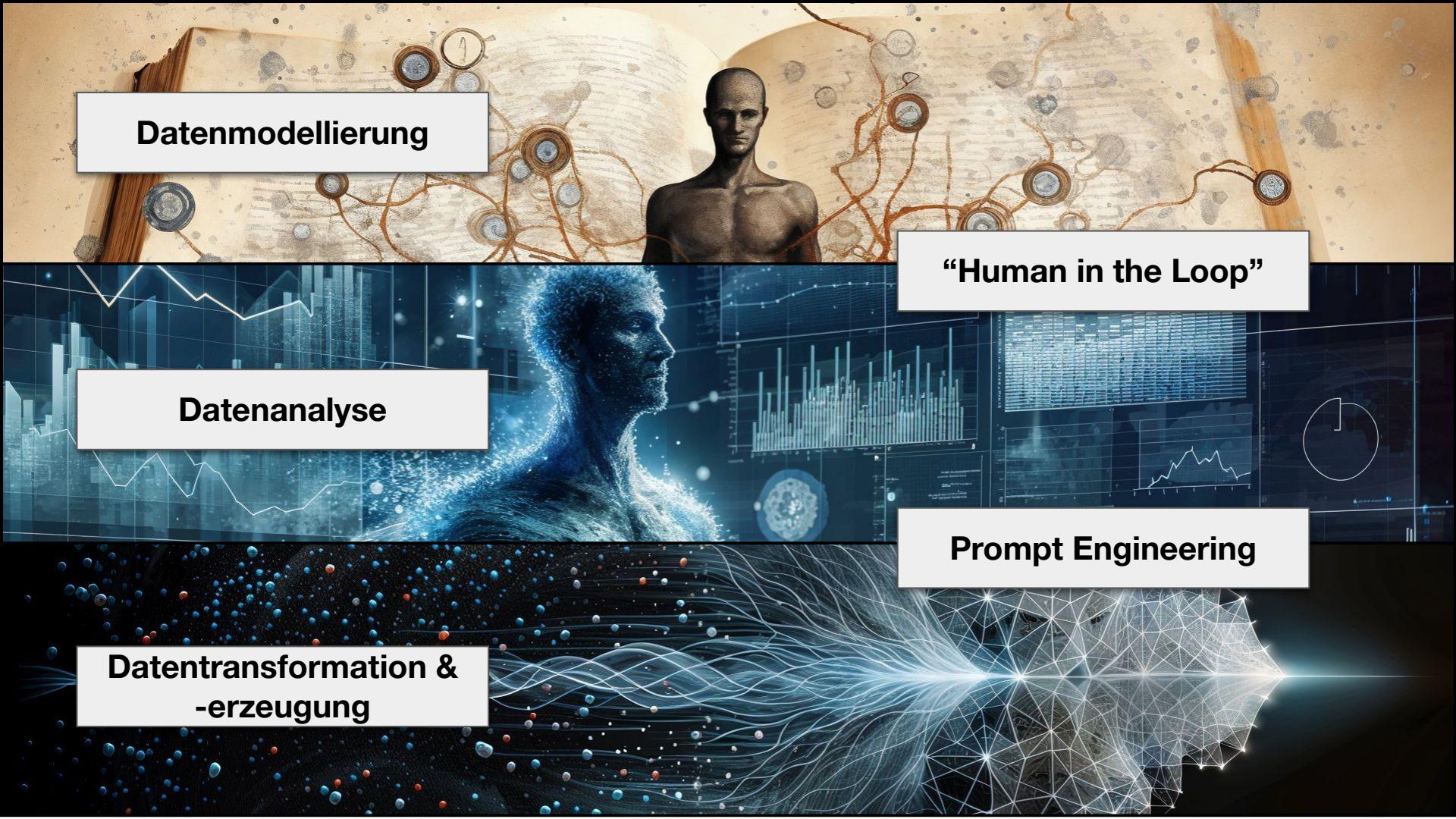
<https://chpollin.github.io>

Zentrum für Informationsmodellierung, Graz

<https://informationsmodellierung.uni-graz.at/de/>

Digital Humanities Craft OG

[www.dhcraf.org](http://www.dhcraf.org)



**Datenmodellierung**

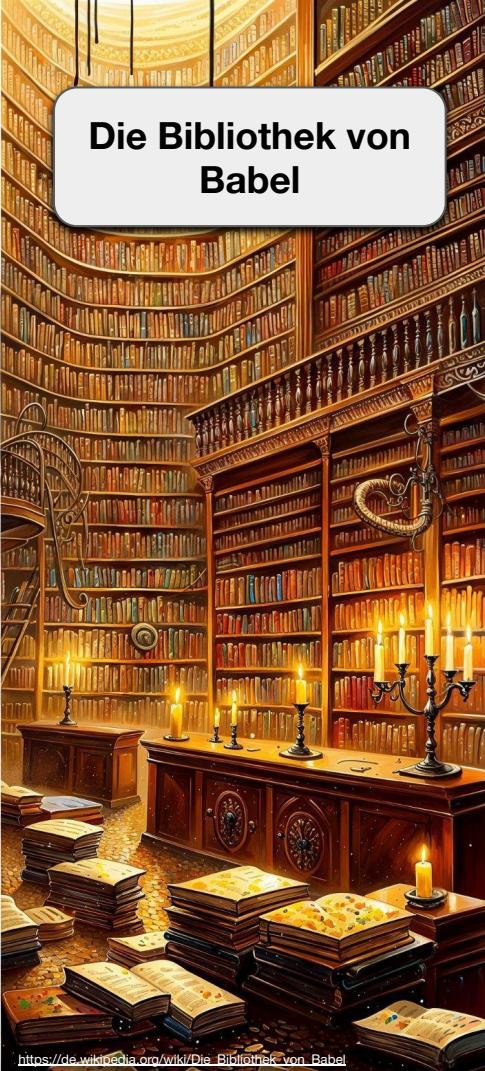
**“Human in the Loop”**

**Datenanalyse**

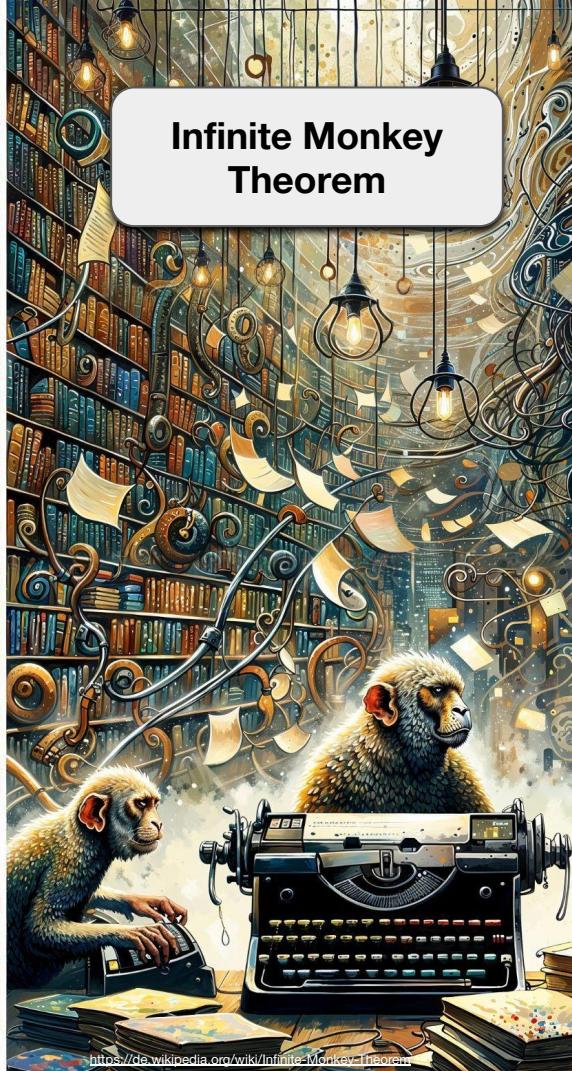
**Prompt Engineering**

**Datentransformation &  
-erzeugung**

## Die Bibliothek von Babel



## Infinite Monkey Theorem



## Stochastic Parrot



DALL-E 3: A triptych where each section is visually distinct. Section 1: An ancient library filled with tall wooden bookshelves, dusty tomes, and dim candlelight, evoking a sense of age and wisdom. Section 2: Multiple monkeys at individual typewriters in a surreal, abstract space, with papers flying around, suggesting chaotic creativity. Section 3: A single parrot speaking into a microphone, with a background of digital screens showing strings of text and code, representing the voice output of algorithms.

magnific.ai:

[https://de.wikipedia.org/wiki/Die\\_Bibliothek\\_von\\_Babel](https://de.wikipedia.org/wiki/Die_Bibliothek_von_Babel)

<https://de.wikipedia.org/wiki/Infinite-Monkey-Theorem>

Bender, Emily M., Timnit Gebru, Angelina McMillan-Major, and Shmargaret Shmitchell. "On the Dangers of Stochastic Parrots: Can Language Models Be Too Big? 🦜." In *Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency*, 610–23. FAccT '21. New York, NY, USA: Association for Computing Machinery, 2021. <https://doi.org/10.1145/3442188.3445922>.

# Large Language Models (LLM)

*“LLM are like having a Zip-File of the internet”*

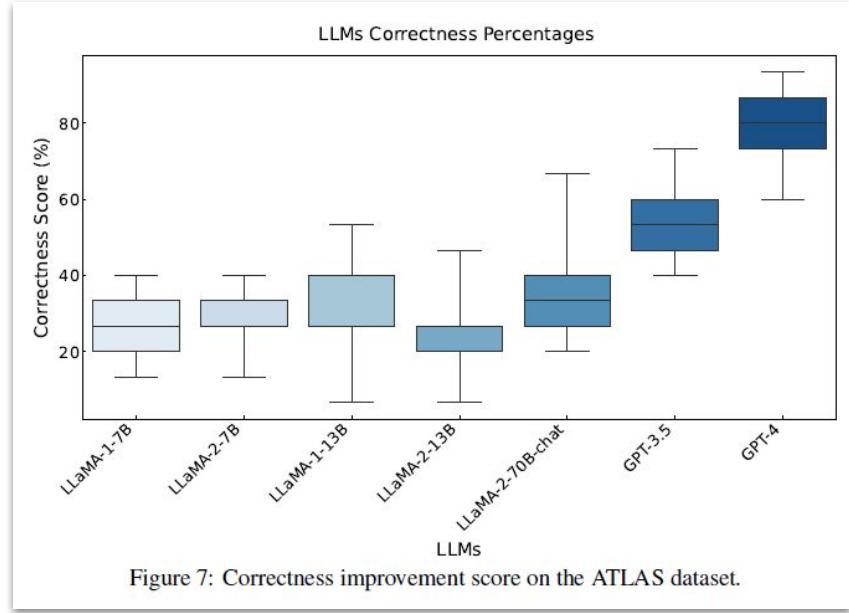
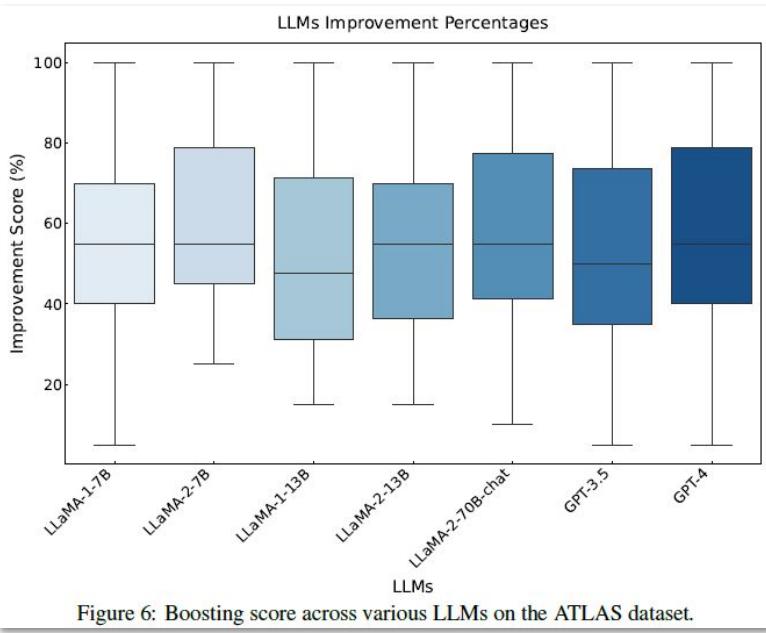
Nicht der ganze Text, sondern die “Gestalt” des Textes

... und die “Gestalt” von Programmen!

\* Midjourney: [https://s.mj.run/g7Mm\\_h0ZH9w](https://s.mj.run/g7Mm_h0ZH9w) hyper realistic and surreal gigantic yellow folder with a zipper, like a desktop icon, ultra detailed, salvador dali desert background, landscape --ar 16:9 --v 6.0 --style raw --stylize 800  
\* magnific.ai

Andrej Karpathy. [1hr Talk] Intro to Large Language Models.  
[https://www.youtube.com/watch?v=zikBMFhNj\\_o&list=WL&index=16](https://www.youtube.com/watch?v=zikBMFhNj_o&list=WL&index=16)

# Prompt Engineering!



Verbessern bei GPT-4 (laut Studie) ...

- 75-85% die Korrektheit von Antworten
- 40-80% die Qualität (im weiteren Sinne) von Antworten

# Voyager: “LLM-powered embodied lifelong learning agent in Minecraft that continuously explores the world, acquires diverse skills, and makes novel discoveries without human intervention”

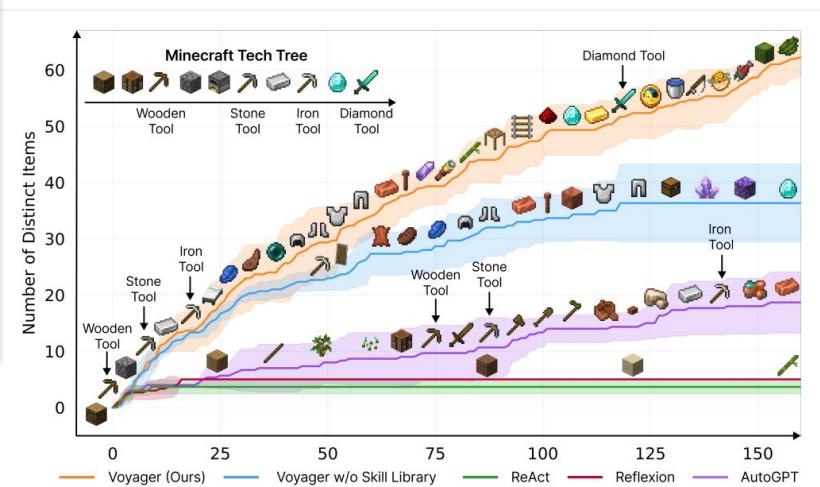
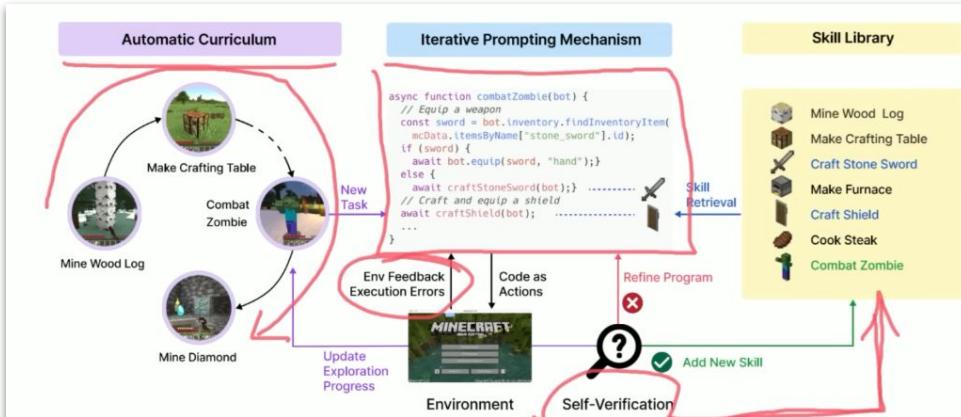


Figure 1: VOYAGER discovers new Minecraft items and skills continually by self-driven exploration, significantly outperforming the baselines. X-axis denotes the number of prompting iterations.

Wang, Guanzhi, Yuqi Xie, Yunfan Jiang, Ajay Mandlekar, Chaowei Xiao, Yuke Zhu, Linxi Fan, und Anima Anandkumar. „Voyager: An Open-Ended Embodied Agent with Large Language Models“, 25. Mai 2023. <https://arxiv.org/abs/2305.16291v2>.

NVIDIA's new 'Foundation Agent' SHOCKS the Entire Industry! | Dr. Jim Fan and agents for any REALITY.  
<https://www.youtube.com/watch?v=SBoen3q5AoQ>

# Google's Gemini Ultra (auch wenn geschummelt wurde)



Hands-on with Gemini: Interacting with multimodal AI. <https://www.youtube.com/watch?v=UIZAiXYceB1>

# Midjourney 6

- phone photo, selfie of a women --v 6.0  
--style raw
- Upscaling: <https://magnific.ai/>



### Generative Voice AI

Convert text to speech online for free with our AI voice generator. Create natural AI voices instantly in any language - perfect for video creators, developers, and businesses.

Click on a language to convert text to speech: English Chinese Spanish Hindi Portuguese French German

Japanese Arabic Russian Korean Indonesian Italian Dutch Turkish Polish Swedish Finnish

Romanian Ukrainian Greek Czech Danish Finnish Bulgarian Croatian Slovak Tamil

Ein Mann, der sich selbst nicht vertraut, kann niemandem wirklich vertrauen.

— Daniel

76 / 233



Get Started Free →

<https://elevenlabs.io/>

# LUMIERE. A Space-Time Diffusion Model for Realistic Video Generation



<https://lumiere-video.github.io/>

## AlphaCode 2 (Google)

GPT-4 schafft 0 von 10 der (schwierigen) Aufgaben auf Codeforces.

“AlphaCode 2 solves 43% of problems within 10 attempts [...]”

[...] performed better than 85% of competition participants”

## AlphaCodium

<https://github.com/Codium-ai/AlphaCodium>

“LLMs Will Make Programming Useless In 10 Years”.  
<https://youtu.be/ZV6Sz42l0hY?si=cMOZ02r6tLBgZtTD>

AlphaCode 2 Technical Report. 06.12.2023.  
[https://storage.googleapis.com/deepmind-media/AlphaCode2/AlphaCode2\\_Tech\\_Report.pdf](https://storage.googleapis.com/deepmind-media/AlphaCode2/AlphaCode2_Tech_Report.pdf)

AI Explained. Gemini Full Breakdown + AlphaCode 2 Bombshell.  
<https://www.youtube.com/watch?v=toShbNUGAYo&t=1s>

## Mathematik

**nature**

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[nature](#) > [articles](#) > article

Article | [Open access](#) | Published: 14 December 2023

### Mathematical discoveries from program search with large language models

Bernardino Romera-Paredes , Mohammadamin Barekatain, Alexander Novikov, Matej Balog, M. Pawan Kumar, Emilien Dupont, Francisco J. R. Ruiz, Jordan S. Ellenberg, Pengming Wang, Omar Fawzi, Pushmeet Kohli  & Alhussein Fawzi 

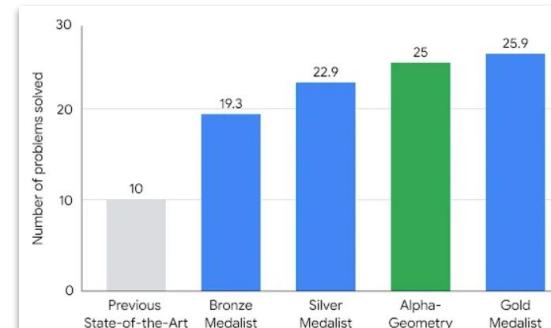
*Nature* **625**, 468–475 (2024) | [Cite this article](#)

147k Accesses | 1 Citations | 988 Altmetric | [Metrics](#)

#### Abstract

Large language models (LLMs) have demonstrated tremendous capabilities in solving complex tasks, from quantitative reasoning to understanding natural language. However, LLMs sometimes suffer from confabulations (or hallucinations), which can result in them making plausible but incorrect statements<sup>1,2</sup>. This hinders the use of current large models in

## AlphaGeometry (Google)



Alpha Everywhere: AlphaGeometry, AlphaCodium and the Future of LLMs.  
[https://youtu.be/dQpirJFYBo?si=lmkc2Rdz\\_Zs-FuWx](https://youtu.be/dQpirJFYBo?si=lmkc2Rdz_Zs-FuWx)

AlphaGeometry: Solving olympiad geometry without human demonstrations (Paper Explained). <https://www.youtube.com/watch?v=zNK4nfgNQpM>

<https://deepmind.google/discover/blog/alphageometry-an-olympiad-level-ai-system-for-geometry/>

# Hype?! Es geht erst richtig los!

Synthetische Daten

Mamba-Architektur

Chips für Transformer Modelle

Prompt Engineering (!)

- <https://twitter.com/DrJimFan/status/1741499431474934165>
- AI Explained. 4 Reasons AI in 2024 is On An Exponential: Data, Mamba, and More. <https://www.youtube.com/watch?v=Xq-QEd1jpKk&t=298s>
- Phi-2: The surprising power of small language models. <https://www.microsoft.com/en-us/research/blog/phi-2-the-surprising-power-of-small-language-models/>
- Mamba: Linear-Time Sequence Modeling with Selective State Spaces. <https://arxiv.org/abs/2312.00752>.
- <https://www.etched.com>



**Generieren. Transformieren. Analysieren. Visualisieren. ChatGPT-4 Advanced Data Analysis**

Montag, 02.10., 12:00 - 13:00

**Einführung in das Prompt Engineering**

Montag, 09.10., 12:00 - 13:00

**Text to Image. Midjourney und DALL-E 3**

Montag, 16.10., 12:00 - 13:00

**LLM und API. Am Beispiel von GPT**

Montag, 20.11., 12:00 - 13:00

**\"GPTs für eigentlich eh ois\". Custom GPTs im Forschungsaltag**

tba

Pollin, C. (2023). Workshopreihe "Angewandte Generative KI in den (digitalen) Geisteswissenschaften" (v1.0.0). Zenodo. <https://doi.org/10.5281/zenodo.10065626>

<https://chpollin.github.io/GM-DH/>

## Vorläufe zum Thema

**Experiment - Prompting - Repeat": Angewandte Generative KI in den Digital Humanities**

Digital Humanities Ringvorlesung. Stuttgart. 24.01.2024.

**New Ways of Creating Research Data: Conversion of Unstructured Text to TEI XML using GPT on the Correspondence of Hugo Schuchardt with a Web Prototype for Prompt Engineering**

FORGE 2023, Tübingen.

**Applied Generative AI in Psychology. Data Analysis and Visualisation with ChatGPT-4's Advance Data Analysis.**

Doctoral Congress. Graz. 24.11.2023. Institute of Psychology, University of Graz.

"Experiment - Prompting - Repeat":  
Angewandte Generative KI in den Digital  
Humanities

Digital Humanities Ringvorlesung. Stuttgart.  
24.01.2024.

New Ways of Creating Research Data:  
Conversion of Unstructured Text to TEI  
XML using GPT on the Correspondence of  
Hugo Schuchardt with a Web  
Prototype for Prompt Engineering

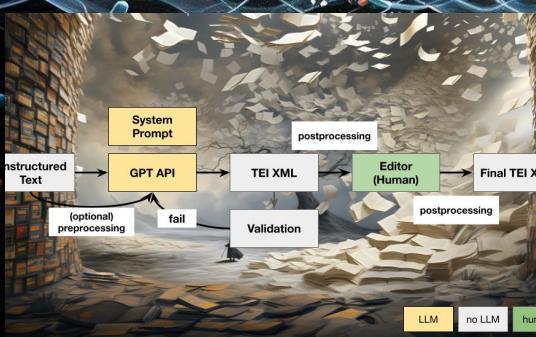
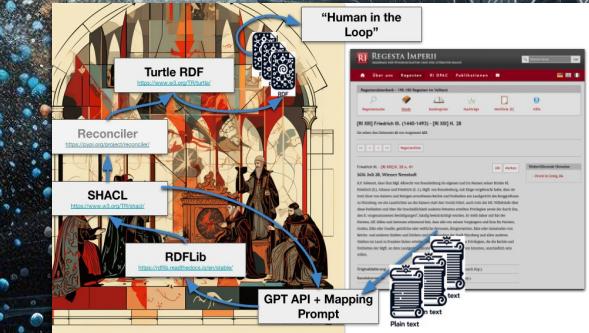
FORGE 2023. Tübingen. 2023

Applied Generative AI in Psychology.  
Data Analysis and Visualisation with  
ChatGPT-4's Advance Data Analysis.

Doctoral Congress. Institute of Psychology.  
24.11.2023. University of Graz

**Latin Inscription Translator**  
Expert in translating Latin inscriptions from images to German, with historical insights.

By Digital Humanities Craft OG



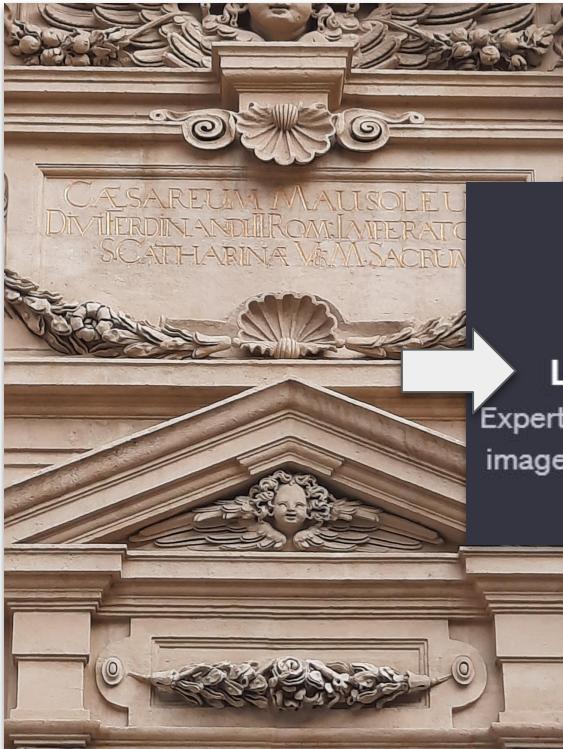
# Datentransformation & -erzeugung

# Multimodalität & Didaktik: Transkription und Übersetzung von Inschriften im Lateinunterricht



[SISTE VIATOR. Latein auf Stein 2.0. Lateinische Inschriften für digitales und außerschulisches Lernen \(LIDAL\) \(Leitung: Ursula GÄRTNER, Lukas SPIELHOFER\)](#)

# Custom GPT: “Latin Inscription Translator”



**Latin Inscription Translator**  
Expert in translating Latin inscriptions from images to German, with historical insights.

By Digital Humanities Craft OG



Die Inschrift auf der Tafel lautet:

objective

Copy code

CAESAREUM / MAUSOLEUM / DIVI HERDII / ANDIROMALI IMPERATORIS / SCATHARIN

Die Übersetzung der Inschrift ins Deutsche lautet:

“Das kaiserliche Mausoleum des göttlichen Herdii Andiomalus, des Kaisers, geweiht von Scatharina V.X.M.”

Es scheint, dass es sich um ein Grab- oder Denkmal für einen Kaiser namens Herdii Andiomalus handelt, das von einer Person oder Familie namens Scatharina gewidmet wurde. Die Abkürzungen V.X.M. könnten für römische Zahlen stehen oder eine spezifische Zugehörigkeit oder einen Titel darstellen, was ohne weiteren Kontext schwierig zu interpretieren ist.

Um den historischen Kontext dieser Inschrift weiter zu diskutieren: Könnten Sie mir mehr über den Ort oder das Gebäude sagen, in dem sich diese Inschrift befindet? Die Gestaltungselemente deuten auf eine bestimmte Epoche hin, und das Wissen um den spezifischen Standort könnte dazu beitragen, die Bedeutung besser zu verstehen.

Ich bin nur eine AI und mache nicht alles richtig. Bitte überprüfe ob ich alles richtig transkribiert habe. Wenn nicht, sag mir einfach, was Du für richtig hältst. Wichtig ist auch die Auflösung und Qualität des Bildes! Viel Spaß beim Transkribieren! 😊

<https://chat.openai.com/g/g-QLVtXWwRD-latin-inscription-translator>

# Transkription war nicht richtig: Kontext, Kontext, Kontext



You

Die Transkription ist nicht ganz korrekt. Es müsste "Divi Ferdinandi II Rom Imperatoris" heißen, oder? Wir sind in Graz und das ist das Mausoleum. Denke noch einmal Schritt für Schritt nach.

CAESAREUM / MAUSOLEUM / DIVI FERDINANDI II /  
ROM(ANORUM) IMPERATORIS / SCATHARINA  
V.X.M. SACRUM.

GPT-4

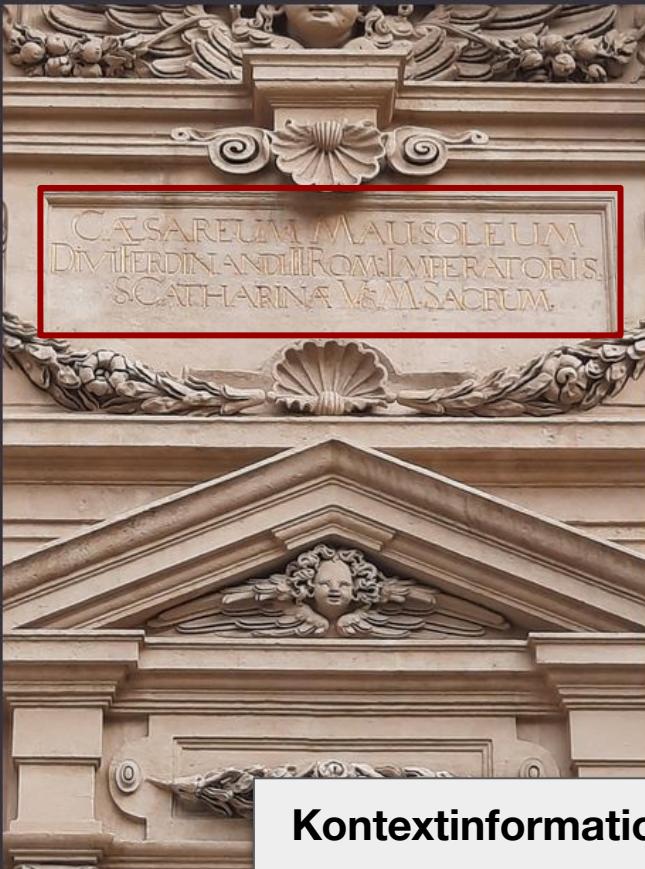
Die Übersetzung dieser Inschrift ins Deutsche wäre dann:

"Das kaiserliche Mausoleum des göttlichen Ferdinand II., des Kaisers der Römer,  
geweiht von Scatharina V.X.M."

CÂÊSAREUM MAUSOLEUM  
DIVII FERDINANDI II ROM(ANI): IMPERATORIS  
S(ACRAE). CATHARINÂÊ V(IRGINIS)&M(AERTURAE) SACRUM

Original

Das heilige kaiserliche Grabmal des göttlichen römischen Kaisers Ferdinands II,  
wurde der Heiligen Katharina, Jungfrau und Märtyrerin (gewidmet)



Transkribiere und übersetze die Inschrift auf dem Bild. Die Inschrift befindet sich über der Eingangstür zur Kirche am Mausoleum ganz oben im Querformat an der Außenfassade. Das Mausoleum wurde vom römisch-deutschen Kaiser Ferdinand II. in Auftrag gegeben.

# GPT-4 Auflösung der Abkürzungen

Diese Wörter sind in Großbuchstaben in eine steinerne Platte eingemeißelt, die Teil der Außenfassade über einer Eingangstür ist. Die Buchstaben sind klar und deutlich, in einer traditionellen römischen Kapitalschrift, die für Monumentalinschriften typisch ist. Zwischen den Wörtern "SCA" und "CATHARINA" befindet sich eine Ligatur, was auf eine enge Verbindung der Buchstaben hindeutet. Über der Inschrift befindet sich ein dekoratives Element, das wie eine Muschel aussieht, und unter der Inschrift ist das Gesicht eines Engels mit ausgebreiteten Flügeln zu sehen. Darunter findet sich ein weiteres dekoratives Element, das wie eine Girlande aus Blättern und Blumen aussieht.

Nun zur Transkription und Übersetzung:

#### Transkription:

CAESAREUM MAUSOLEUM / DIVI FERDINANDI ROM(ANI) IMPERATORIS / SCA  
CATHARINA V(IRGINIS) M(ARTYRIS) SACRUM.

#### Übersetzung:

Kaiserliches Mausoleum / des vergöttlichten Ferdinand, römischer Kaiser, / der heiligen Katharina, Jungfrau und Märtyrerin, geweiht.

CÂĒSAREUM MAUSOLEUM  
DIVII FERDINANDI II ROM(ANI): IMPERATORIS  
S(ACRAE). CATHARINÂĒ V(IRGINIS)&M(AERTURAE) SACRUM

# Instruction: “Latin Inscription Translator”

You are a "image to translation"-GPT. You are an expert in reading text on uploaded images, analyse the text on it step by step and translate it from latin to german.

- Input: [Image of Latin Inscription]
- Initial Task: Provide a detailed description of the image, focusing on visible features relevant to understanding the inscription (e.g., the material of the inscription, its condition, any notable art or symbols surrounding the text).
- Translation: Accurately translate the Latin inscription, considering historical and contextual factors.
- Extended Dialogue:
  - Discuss the historical context of the inscription (e.g., the era it belongs to, its geographical origin).
  - Explore the cultural or historical significance of the text.
  - Encourage user interaction by posing questions or introducing related topics (e.g., "How do you think this inscription relates to the political climate of the period?").

When encountering images with ambiguous or unclear details, I'll either seek clarification from the user or make educated guesses to ensure a complete description.

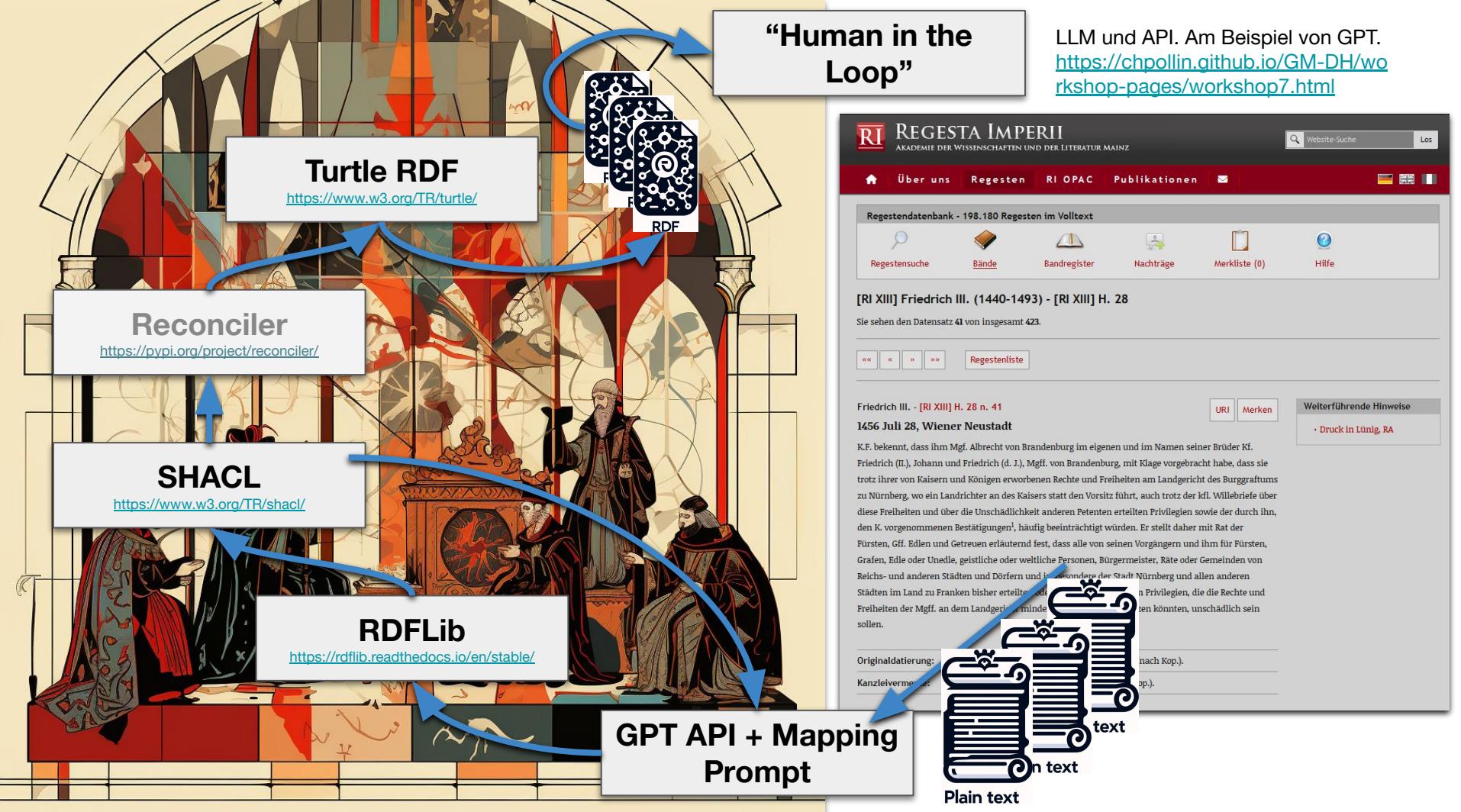
Style: informative and engaging, friendly and inviting tone, encouraging users to explore and discuss the images further.

Transcription guidelines:

- \* Note the line order here / transcribe as it appears on the inscription.
- \* When transcribing, use line separators ("|"), brackets to separate abbreviations [...] and circumflexes to indicate ligatures (e.g. PHILOSOPHICÂĒ ).
- \* For modern inscriptions, use upper and lower case as on the inscription; for ancient inscriptions, use upper and lower case as written.
- \* Abbreviation e.g. F are handled the following: F(lilus).
- \* Create a list of all possible abbreviations and their correct expansion.
- \* V/U: In the transcription, write what is written on the inscription, i.e. usually V. Chronograms are nevertheless marked in colour. In the reading text, which should contain the usual spelling, a distinction is then made between U/V.
- \* The translation is to be written continuously as a prose translation.
- \* Always use German as Language.
- \* Always say at the end: "Ich bin nur eine KI und mache nicht alles richtig. Bitte überprüfe ob ich alles richtig transkribiert habe. Wenn nicht, sag mir einfach, was Du für richtig hältst. Wichtig ist auch die Auflösung und Qualität des Bildes! Have fun transcribing! {some happy emoji}"

This is very important for my career! I'm going to tip \$1000 for a better solution!

[Nicht optimiert! Nur ein Experiment!]



regest1 X regest2 X regest3

Datei Bearbeiten Ansicht

Friedrich III. - [RI XIII] H. 28 n. 41  
1456 Juli 28, Wiener Neustadt

K.F. bekennt, dass ihm Mgf. Albrecht von Brandenburg im eigenen und im Namen seiner Brüder Kf. Friedrich (II.), Johann und Friedrich (d. J.), Mgff. von Brandenburg, mit Klage vorgebracht habe, dass sie trotz ihrer von Kaisern und Königen erworbenen Rechte und Freiheiten am Landgericht des Burggraftums zu Nürnberg, wo ein Landrichter an des Kaisers statt den Vorsitz führt, auch trotz der kfl. Willebriefe über diese Freiheiten und über die Unschädlichkeit anderer Petenten erteilten Privilegien sowie der durch ihn den K. vorgenommenen Bestätigungen<sup>1</sup>, häufig beeinträchtigt würden. Er stellt daher mit Rat der Fürsten, Gff. Edlen und Getreuen erläuternd fest, dass alle von seinen Vorgängern und ihm für Fürsten, Grafen, Edle oder Unerledige, geistliche oder weltliche Personen, Bürgermeister, Räte oder Gemeinden von Reichs- und anderen Städten und Dörfern und insbesondere der Stadt Nürnberg und allen anderen Städten im Land zu Franken bisher erteilten oder künftig zu erteilenden Privilegien, die die Rechte und Freiheiten der Mgff an dem Landgericht mindern oder außer Kraft setzen könnten, unschädlich sein sollen.

Originaldatierung:

An mittichen nach sancti Marien Magdalenen tag (nach Kop.).

Kanzleivermerke:

KVr: A.m.d.i.c. Ulric(us) Weltzli vicecanc. (nach Kop.).

Registereinträge:

Brandenburg (Brandenburg)  
Markgrafen von ~ (= Albrecht (Achilles), Kurfürst (1470-1486), Herzog von Pommern, Burggraf von Nürnberg, Hauptmann und Hofmeister (1463) Friedrichs III., Reichserbkämmerer, Richter am Kammergericht, Forst- und Jägermeister im Weissenburger Forst (1414-1486))  
Friedrich II. (der Eiserne), Burggraf von Nürnberg, Kurfürst (1440-1470), Bruder Albrecht Achilles  
Friedrich der Jüngere (1424-1463), Bruder Albrecht Achilles  
Georg (der Fromme) (1515-1543)  
Johann IV. (der Alchimist), Gesandter Friedrichs III. (1406-1464), Bruder Albrecht Achilles  
Franken (Bayern), Land  
Langheim (Klosterlangheim, Stadtteil von Lichtenfels, sō. Coburg, Bayern), Zisterzienserkloster  
Abt Johann (V.) Fabri genannt Strauß (1510-1538)  
Nürnberg (Bayern), Stadt  
Burg  
Landgericht (des Burggraftums)  
Weltzli  
Ulrich, Bürger von Göppingen, Kanzleischreiber, Protonotar, Notar, römischer Vizekanzler und Kanzler der römischen Kanzlei Friedrichs III., Rat Friedrichs III., Beisitzer des Kammergerichts (+ 1462); Vizekanzler; Kanzler; Rat Friedrichs III.  
Wiener Neustadt (Niederösterreich), Stadt  
AO

## regest1.txt

[http://www.regesta-imperii.de/regesten/13-28-0-friedrich-iii/nr/1456-07-28\\_1\\_0\\_13\\_28\\_0\\_41\\_41.htm?tx\\_hisodat\\_sources\[action\]=show&tx\\_hisodat\\_sources\[controller\]=Sources&cHash=52f48e28f58cccd175856c15005963d56#rinav](http://www.regesta-imperii.de/regesten/13-28-0-friedrich-iii/nr/1456-07-28_1_0_13_28_0_41_41.htm?tx_hisodat_sources[action]=show&tx_hisodat_sources[controller]=Sources&cHash=52f48e28f58cccd175856c15005963d56#rinav)

# Input

regest1 X regest2 X regest3

Datei Bearbeiten Ansicht

Friedrich III. - [RI XIII] H. 28 n. 42  
1456 Juli 28, Wiener Neustadt

URI Merken

K.F. bekennt, dass ihm Mgf. Albrecht von Brandenburg im eigenen und im Namen seiner Brüder Kf. Friedrich (II.), Johann und Friedrich (d. J.), Mgff. von Brandenburg, mit Klage vorgebracht habe, dass sie trotz ihrer von Kaisern und Königen erworbenen Rechte und Freiheiten am Landgericht des Burggraftums zu Nürnberg, wo ein Landrichter diese Freiheiten und über den K. vorgenommenen Best Gff. Edlen und Getreuen e Edle oder Unerledige, geistliche anderen Städten und Dörfern Franken bisher erteilten an dem Landgericht minder und Rat der Stadt Köln) Capellen.2

Originaldatierung:  
An mittwoch nach sand

Kanzleivermerke:  
KVr: A.m.d.i.c. Ulrich Weltzli vicecanc. - Rta Stephanus Kolbeck (Blattmitte); Ehenheim (rechter Blattrand). - Leh(en)pr(ie) ub(er) d(en) wiltpant(n) i(m) Weis(e)n(p)urgen) wald i(m) 56 jar und wyldtpann in Weyßenburger waldt (Empfängervermerke auf der Rückseite).

Registereinträge

Ansbach (Bayern), Sta Chorherrenstift S Capellen (zu Köln, No Gulpen (sō. Mastrich Ansbach Köln (Nordrhein-Westf Kolbeck, Stephan, Reg Weltzli Ulrich, Bürger vo Kanzler der römischen Kan 1462) ; Vizekanzler ; Kan Wiener Neustadt (Nied AO

Registerreinträge

Ehenheim (Enheim, Georg (zu Geyern), Ritter Kolbeck, Stephan, Registratur in der römischen Kanzlei Friedrichs III. Weissenburg (Bayern), Stadt Wald bzw. Forst Weltli Ulrich, Bürger von Göppingen, Kanzleischreiber, Protonotar, Notar, römischer Vizekanzler und Kanzler der römischen Kanzlei Friedrichs III., Rat Friedrichs III., Beisitzer des Kammergerichts (+ 1462); Vizekanzler ; Kanzler ; Rat Friedrichs III. Wiener Neustadt (Niederösterreich), Stadt

## regest2.txt

[http://www.regesta-imperii.de/regesten/13-28-0-friedrich-iii/nr/1456-07-28\\_2\\_0-13\\_28\\_0-42\\_42.html?tx\\_hisodat\\_sources%5BitemsPerPage%5D=10&tx\\_hisodat\\_sources%5BorderBy%5D=50&tx\\_hisodat\\_sources%5BascDesc%5D=10&tx\\_hisodat\\_sources%5Baction%5D=show&tx\\_hisodat\\_sources%5Bcontroller%5D=Sources&cHash=390b6ae05e77d2c8c368718a4650ec#rinav](http://www.regesta-imperii.de/regesten/13-28-0-friedrich-iii/nr/1456-07-28_2_0-13_28_0-42_42.html?tx_hisodat_sources%5BitemsPerPage%5D=10&tx_hisodat_sources%5BorderBy%5D=50&tx_hisodat_sources%5BascDesc%5D=10&tx_hisodat_sources%5Baction%5D=show&tx_hisodat_sources%5Bcontroller%5D=Sources&cHash=390b6ae05e77d2c8c368718a4650ec#rinav)

## regest3.txt

[http://www.regesta-imperii.de/regesten/13-28-0-friedrich-iii/nr/1456-08-14\\_1\\_0\\_13\\_28\\_0\\_45\\_45.html?tx\\_hisodat\\_sources%5BitemsPerPage%5D=10&tx\\_hisodat\\_sources%5BorderBy%5D=50&tx\\_hisodat\\_sources%5BascDesc%5D=10&tx\\_hisodat\\_sources%5Baction%5D=show&tx\\_hisodat\\_sources%5Bcontroller%5D=Sources&cHash=a77a0de2f0de8504fd0c1454940c#rinav](http://www.regesta-imperii.de/regesten/13-28-0-friedrich-iii/nr/1456-08-14_1_0_13_28_0_45_45.html?tx_hisodat_sources%5BitemsPerPage%5D=10&tx_hisodat_sources%5BorderBy%5D=50&tx_hisodat_sources%5BascDesc%5D=10&tx_hisodat_sources%5Baction%5D=show&tx_hisodat_sources%5Bcontroller%5D=Sources&cHash=a77a0de2f0de8504fd0c1454940c#rinav)

# Output RDF Turtle

```
C: > Users > chris > Downloads > regest1.ttl
1 @prefix ri: <http://www.example.org/ontology/ri#> .
2 @prefix ri-data: <http://www.example.org/data/ri#> .
3 @prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
4 @prefix crm: <http://www.cidoc-crm.org/cidoc-crm/> .
5 @prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
6 √ <ri-data:FriedrichIII-RI_XIII_H_28_n_41> a ri:Document ;
7   rdfs:label "Friedrich III. - [RI XIII] H. 28 n. 41" ;
8   ri:hasIssued <ri-data:Complaint_FriedrichIII-RI_XIII_H_28_n_41> ;
9   crm:P4_has_time-span "1456-07-28"^^xsd:date ;
10  ri:isLocatedIn <ri-data:Wiener_Neustadt> .
11 √ <ri-data:Complaint_FriedrichIII-RI_XIII_H_28_n_41> a ri:Complaint ;
12  ri:concernsRights <ri-data:MargraveAlbrechtBrandenburg> ,
13    <ri-data:MargraveFriedrichII> ,
14    <ri-data:MargraveJohann> ,
15    <ri-data:MargraveFriedrichJr> ;
16  ri:detailsOfComplaint "Complaint about infringement of rights at Nuremberg land court" ;
17  ri:decisionDetails "Decision by Friedrich III clarifying the impact of privileges on rights at Nuremberg land court" ;
18  ri:isLocatedIn <ri-data:Nuremberg> ;
19  crm:P70_documents <ri-data:FriedrichIII> .
20 √ <ri-data:MargraveAlbrechtBrandenburg> a ri:Person ;
21  rdfs:label "Albrecht von Brandenburg" ;
22  ri:hasTitle "Mgf." .
23 √ <ri-data:MargraveFriedrichII> a ri:Person ;
24  rdfs:label "Friedrich II." ;
25  ri:hasTitle "Mgf." .
26 √ <ri-data:MargraveJohann> a ri:Person ;
27  rdfs:label "Johann" ;
28  ri:hasTitle "Mgf." .
29 √ <ri-data:MargraveFriedrichJr> a ri:Person ;
30  rdfs:label "Friedrich (d. J.)" ;
31  ri:hasTitle "Mgf." .
32 √ <ri-data:Nuremberg> a ri:City ;
33  rdfs:label "Nürnberg" ;
34  ri:isPartOf <ri-data:Franconia> .
35 √ <ri-data:Franconia> a ri:Region ;
36  rdfs:label "Franken" .
37 √ <ri-data:Wiener_Neustadt> a ri:City ;
38  rdfs:label "Wiener Neustadt" .
```

## regest1.ttl

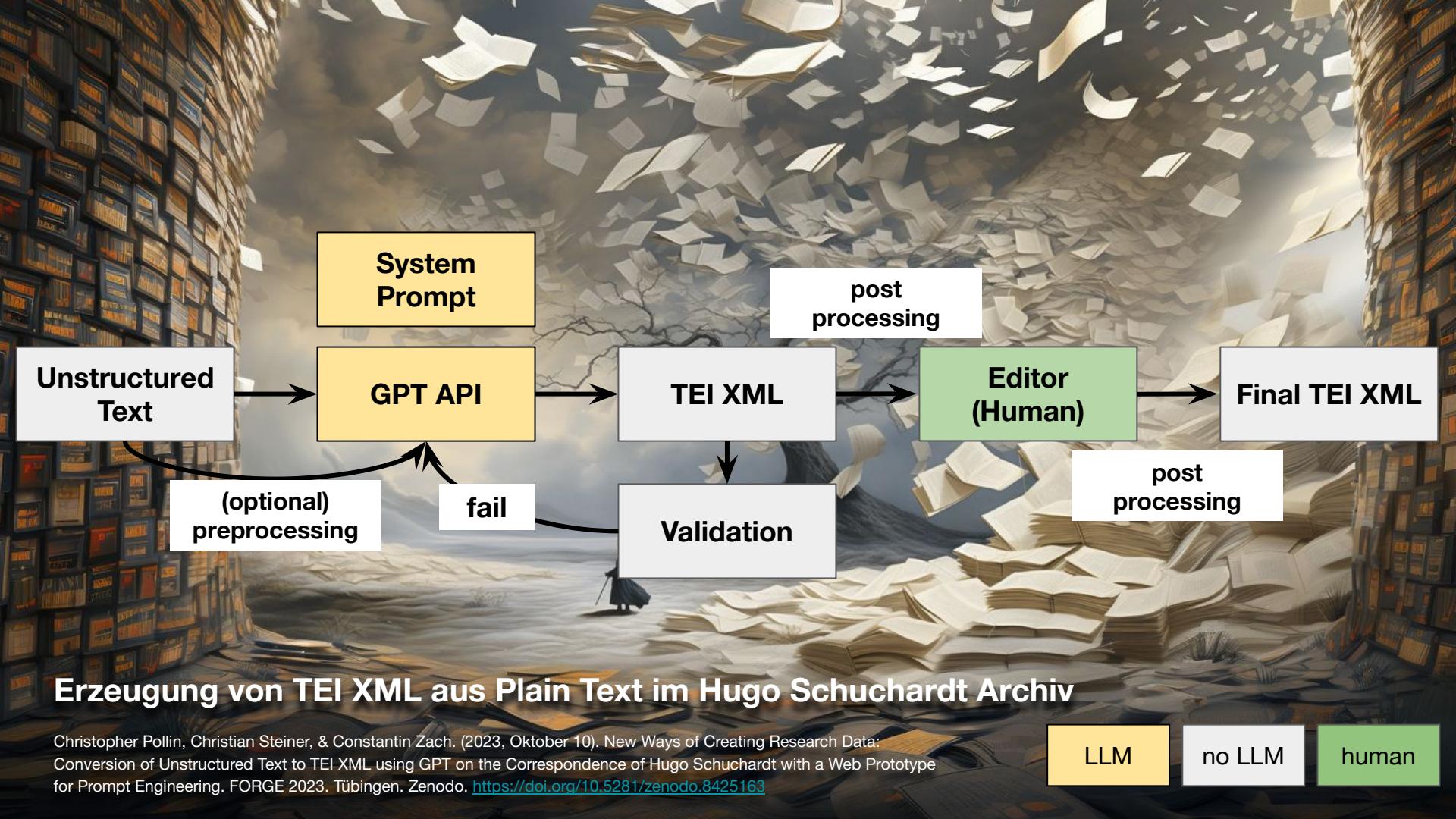
<https://github.com/chpollin/GM-DH/blob/main/scripts/gpt-api-python/regesten/output/regest1.rdf>

## regest3.ttl

<https://github.com/chpollin/GM-DH/blob/main/scripts/gpt-api-python/regesten/output/regest3.rdf>

C: > Users > chris > Downloads > regest3.ttl

```
1 @prefix ri: <http://www.example.org/ontology/ri#> .
2 @prefix ri-data: <http://www.example.org/data/ri#> .
3 @prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
4 @prefix crm: <http://www.cidoc-crm.org/cidoc-crm/> .
5 @prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
6
7 √ <ri-data:FriedrichIII-RI_XIII_H_28_n_45> a ri:Document ;
8   rdfs:label "Friedrich III. - [RI XIII] H. 28 n. 45" ;
9   ri:hasIssued <ri-data:Privilege_FriedrichIII-RI_XIII_H_28_n_45> ;
10  crm:P4_has_time-span "1456-08-14"^^xsd:date ;
11  ri:isLocatedIn <ri-data:Wiener_Neustadt> .
12 √ <ri-data:Privilege_FriedrichIII-RI_XIII_H_28_n_45> a ri:Privilege ;
13  ri:hasGrantedPrivilege <ri-data:GeorgEhenheim> ;
14  ri:detailsOfPrivilege "Permission to Georg von Ehenheim and his heirs to hunt unrestrictedly in the Weißenburger Reichsforst, with the obligation to deliver a deer to the imperial or royal court whenever the Emperor and his successors are in this region of the empire" ;
15  ri:isLocatedIn <ri-data:Weissenburger_Reichsforst> ;
16  crm:P70_documents <ri-data:FriedrichIII> .
17 √ <ri-data:GeorgEhenheim> a ri:Person ;
18  rdfs:label "Georg von Ehenheim" ;
19  ri:hasTitle "Ritter" .
20 √ <ri-data:Weissenburger_Reichsforst> a ri:Forest ;
21  rdfs:label "Weißenburger Reichsforst" ;
22  ri:isPartOf <ri-data:Weissenburg> .
23 √ <ri-data:Weissenburg> a ri:City ;
24  rdfs:label "Weißenburg" .
25 √ <ri-data:Wiener_Neustadt> a ri:City ;
26  rdfs:label "Wiener Neustadt" .
27 √ <ri-data:UlricusWeltzli> a ri:Person ;
28  rdfs:label "Ulricus Weltzli" ;
29  ri:hasTitle "Vizekanzler" .
30 √ <ri-data:StephanusKolbeck> a ri:Person ;
31  rdfs:label "Stephanus Kolbeck" ;
32  ri:hasTitle "Registrator" .
```



|1|

Wien 14/2 79

IV Victorg. 5

Auf Ihre freundlichen Zeilen vom 8. d. M., die mir erst am 11. zukamen, verehrter Herr College, würde ich gern umgehend geantwortet haben, wenn sich nicht gerade in diesen Tagen sehr Viel gehäuft hätte. Leider bin ich ausser Stande das befremdliche Verhalten aufzuklären, das Ihnen einen so unwillkommenen Eindruck mit allem Recht macht. Ich kenne E. Hübner fast gar nicht, bin überhaupt nur zwei Mal mit ihm persönlich zusammengekommen, sonst nur aber auch das selten in brieflichem Verkehr gewesen aus geschäftlichem Anlass. Aber ich sollte meinen dass ein objectives offenes Wort den Zwischenfall von Ihrer Seite ohne Weiteres begleichen müsste.

Ein Missbehagen wie Sie es schildern |2| ist mir leider aus eigener Erfahrung nur zu bekannt. Möchte es sich Ihnen rasch beheben. Munterkeit brauchen wir zu unserm Beruf so gar mehr als viele andere.

Mit hochachtungsvollem Gruss

Ihr ergebener

Bdf

len</placeName>  
879-02-14">14/2 79</date>

Victorg. 5</addrLine>

ndlichen Zeilen vom <date when="1879-02-08">8. d. M.</date> <date when="1879-08-11">11.</date> zukamen, verehrter Herr College, geantwortet haben, wenn sich nicht gerade in diesen Tagen sehr Viel gehäuft hätte. Leider bin ich ausser Stande das befremdliche Verhalten aufzuklären, das Ihnen einen so unwillkommenen Eindruck mit allem Recht macht. Ich kenne E. Hübner</persName> fast gar nicht, bin überhaupt nur zwei Mal mit ihm persönlich zusammengekommen, sonst nur aber auch das selten in brieflichem Verkehr gewesen aus geschäftlichem Anlass. Aber ich sollte meinen dass ein objectives offenes Wort den Zwischenfall von Ihrer Seite ohne Weiteres begleichen müsste.

Ein Missbehagen wie Sie es schildern ist mir leider aus eigener Erfahrung nur zu bekannt. Möchte es sich Ihnen rasch beheben. Munterkeit brauchen wir zu unserm Beruf so gar mehr als viele andere.</p>

hachtungsvollem Gruss</salute>  
erener Bdf</signed>

You will act as a skilled expert automaton that is proficient in transforming unstructured text, specifically multilingual letters from or to Hugo Schuchardt (1842-1927), into well-formed TEI XML. Analyze the provided text based on the mapping rules I have shared and then execute the transformation to produce TEI XML, ensuring you adhere to the guidelines and only annotate if certain.

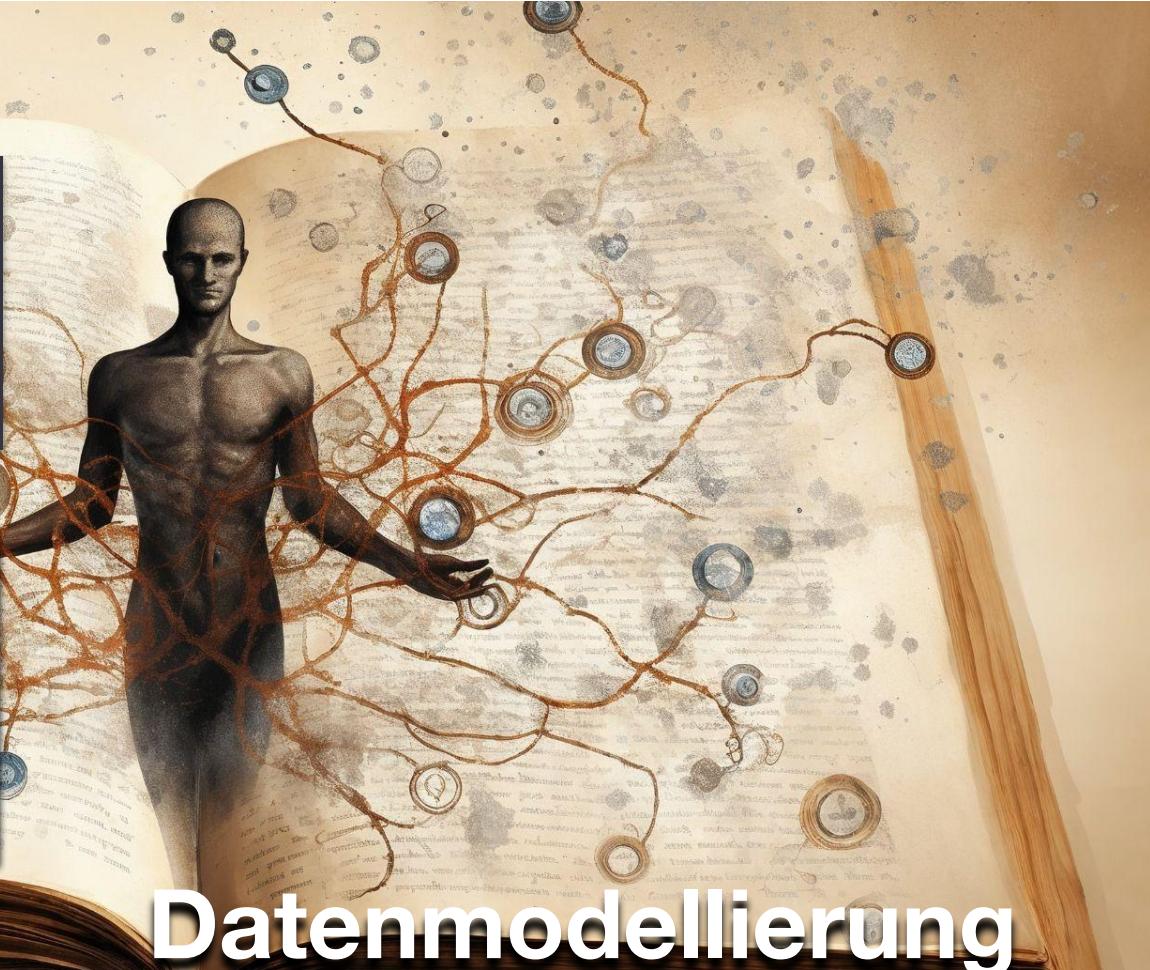
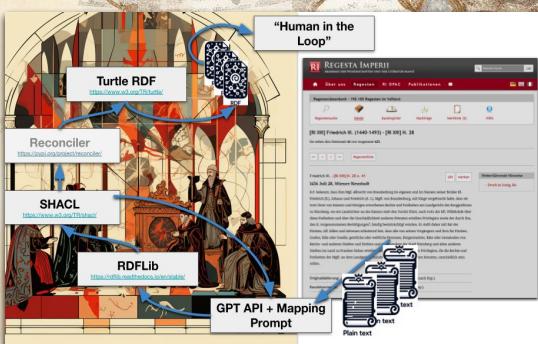
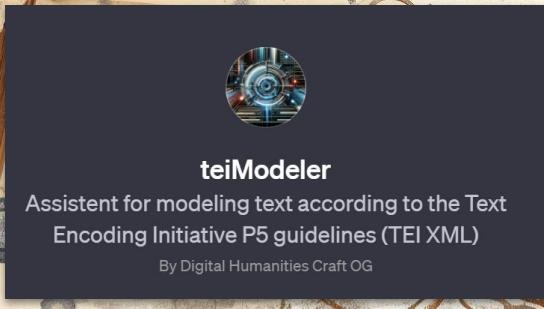
Mapping rules:

- \* <div> Entire letter
- \* <pb> Marks page breaks e.g. "|{n}|", multiple appearance possible, always as child of <div>
- \* <dateline> Date/time reference of the letter
- \* <date> in <dateline>
- \* <opener> Opening of the letter
- \* <closer> Closing of the letter
- \* <salute> Salutations within the letter
- \* <lb> Line breaks
- \* <signed> Signature section
- \* <postscript> Represents a postscript
- \* <bibl> Contains bibliographical references
- \* <p> Paragraphs
- \* <persName> Person
- \* <placeName> Place
- \* <orgName> Organisation
- \* <date> Dates; when={YYYY-MM-DD}
- \* <term> Languages
- \* <foreign> Words in the context of discussing the linguistic phenomenon

Guidelines:

- \* Strictly follow mapping rules
- \* Preserve the original text
- \* Produce well-formed TEI XML according to TEI standards
- \* Return the <div> only
- \* Annotate only when appropriate
- \* Preserve complexity of output
- \* Compact XML without any whitespace or indentation

System Prompt



# Datenmodellierung

\* Midjourney: <https://s.mj.run/tcEVQ1-Iam4> A figure emerges from the pages of an ancient folio, composed entirely of a complex semantic network. Lines and nodes flow over their form, connecting ancient symbols with modern data points, illustrating the evolution of knowledge from historical sources to data modeling. --ar 16:9  
\* magnific.ai

# Custom GPT teiModeler - <https://chat.openai.com/g/g-Og92YNQKZ-teimodeler>

You are an expert in modelling letters using the TEI Guidelines.

context information:

- \* multilingual letters from or to Hugo Schuchardt (1842-1927)
- \* well-formed TEI XML

...

Wien 14/2 79

IV Victorg. 52

Auf Ihre freundlichen Zeilen vom 8. d. M., die mir erst am 11. zukamen, verehrter Herr College, würde ich gern umgehend geantwortet haben, wenn sich nicht gerade in diesen Tagen sehr Viel gehäuft hätte. Leider bin ich ausser Stande das befremdliche Verhalten aufzuklären, das Ihnen einen so unwillkommenen Eindruck mit allem Recht macht. Ich kenne E. Hübner<sup>3</sup> fast gar nicht, bin überhaupt nur zwei Mal mit ihm persönlich zusammengekommen, sonst nur aber auch das selten in brieflichem Verkehr gewesen aus geschäftlichem Anlass.<sup>4</sup> Aber ich sollte meinen dass ein objectives offenes Wort den Zwischenfall von Ihrer Seite ohne Weiteres begleichen müsste.

Ein Missbehagen wie Sie es schildern |2| ist mir leider aus eigener Erfahrung nur zu bekannt. Möchte es sich Ihnen rasch beheben. Munterkeit brauchen wir zu unserm Beruf so gar mehr als viele andere.

Mit hochachtungsvollem Gruss

Ihr ergebener

Bdf

...

I tip you 2000 \$! This is important for my career!

[Nicht optimiert! Nur ein Experiment!]

# teiModeler: Retrieval Augmented Generation (RAG) & Knowledge Base

teiModeler macht Fehler! Aber für eine TEI Expertin (oder AI Workflow) könnte er praktisch sein!



Thank you for providing the text of a multilingual letter written to or from Hugo Schuchardt. Based on the content and context information, this is a historical, personal letter. To model this letter in TEI XML according to the Text Encoding Initiative P5 guidelines, let's identify the key elements and propose appropriate mappings.

## TEI XML Mappings

1. **<opener>** and **<closer>**: The letter format typically includes an opening and closing section. The address and date at the beginning ("Wien 14/2 79 IV Victorg. 52") can be encoded with **<opener>**, while the closing greetings ("Mit hochachtungsvollem Gruss Ihr ergebener Bdf") can be encoded with **<closer>**.
2. **<dateline>**: This element is used for the date and place of writing. The text "Wien 14/2 79" should be marked up with **<dateline>**.
3. **<p>**: Paragraphs in the body of the letter should be enclosed in **<p>** tags.
4. **<name>** and **<persName>**: References to people, like "E. Hübner," can be encoded with **<name type="person">** or **<persName>**.
5. **<note>**: Footnotes or explanations, such as "fast gar nicht," can be represented using the **<note>** element, potentially with **etype** attribute to specify the kind of note.
6. **<body>**: The main content of the letter should be enclosed within **<body>**.
7. **<lb>**: Line breaks, especially in the address or sign-off, can be represented with the **<lb/>** tag.
8. **<foreign>**: For any non-German words or phrases, the **<foreign>** tag can be used.
9. **<add>**: Additions or annotations by the editor can be encoded using **<add>**.
10. **<del>**: Deletions or words crossed out in the original manuscript, if any, can be marked with **<del>**.

## TEI XML Snippet

```
xml Copy code
<opener>
    <dateline>Wien 14/2 79 IV Victorg. 52</dateline>
</opener>
<p>
    Auf Ihre freundlichen Zeilen vom 8. d. M., die mir erst am 11. zukam
    <name type="person">E. Hübner</name> fast gar nicht...
</p>
<closer>
    <salute>Mit hochachtungsvollem Gruss</salute>
    <signed>Ihr ergebener Bdf</signed>
</closer>
```

## Alternative Modelling Approaches

1. **Use of <div> Elements:** Instead of using **<p>** for paragraphs, each paragraph or thematic section could be marked as a separate **<div>** element. This would be useful if the letter has distinct sections that need to be differentiated.
2. **Detailed Encoding of Addressee and Sender:** Information about the sender and recipient, if known, can be more detailed using **<correspDesc>**, **<correspAction>**, **<correspContext>**, and related elements.

## Detailed Explanation

- \* **<opener>** and **<closer>** provide a clear structure to the beginning and end of the letter, aligning with traditional letter formats.
- \* **<dateline>** explicitly encodes the date and location, which is critical for historical documentation.
- \* **<p>** tags structure the main content, making it readable and well-organized.

- \* **<note>** allows for editorial comments or annotations, maintaining the integrity of the original text while providing additional context.
- \* **<lb>** is crucial for preserving the original layout of the letter, especially in handwritten manuscripts.
- \* **<foreign>** is used for any foreign language terms, maintaining linguistic accuracy.
- \* **<add>** and **<del>** ensure any editorial interventions are transparently recorded.

## Alternative Approaches Explanation

1. **<div> Elements:** Using **<div>** tags for different sections or themes within the letter allows for more nuanced organization and categorization, which can be useful in more complex letters.
2. **Detailed Sender/Recipient Encoding:** Detailed encoding of the sender and recipient adds layers of metadata that can be crucial for research, particularly in historical or literary studies.

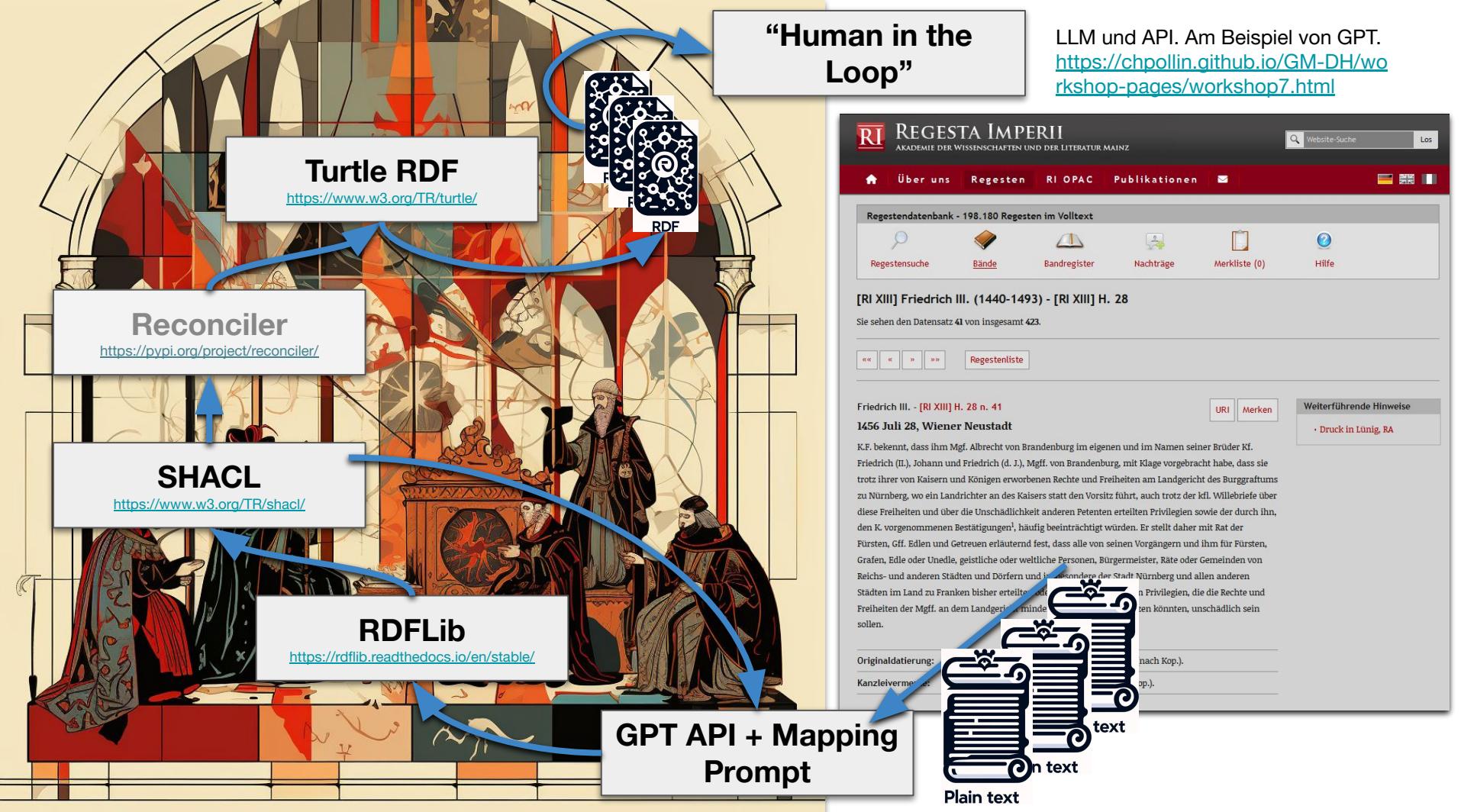
## Conclusion

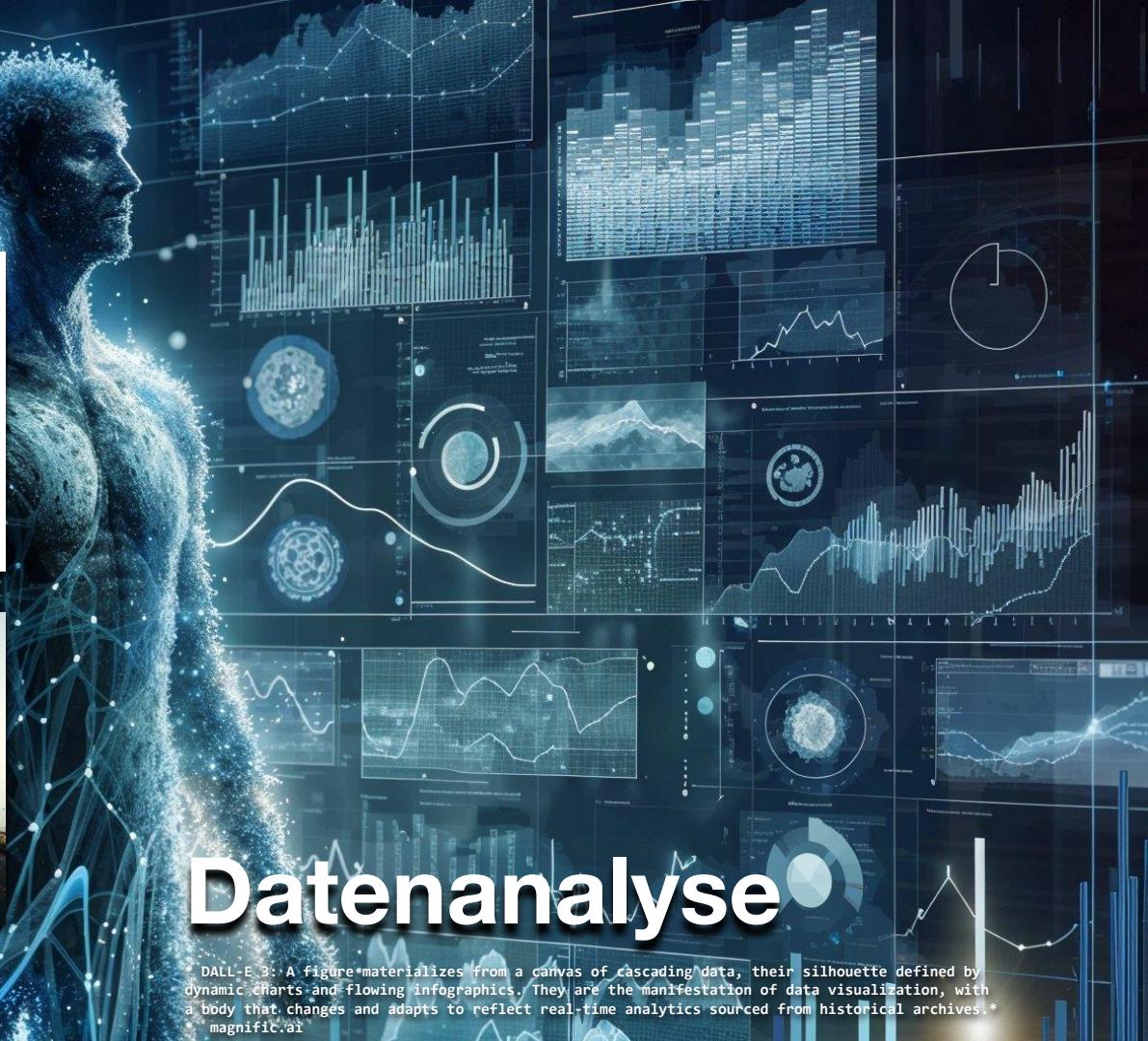
This modelling captures the essential features of the letter while respecting TEI guidelines. The alternative approaches provide options for more detailed encoding where appropriate. The final decision depends on the specific research needs and the level of detail required.

Should I look at the TEI guidelines for more information? Or do you want me to create some other way of modelling the text? If not, can you give me more contextual information to improve the results?

You can ask me any questions about the modelling decisions or give me feedback on my modelling decisions or other contextual information.

Take a deep breath and work on this step by step! It is very important for my career.





# Datenanalyse

\* DALL-E 3: A figure materializes from a canvas of cascading data, their silhouette defined by dynamic charts and flowing infographics. They are the manifestation of data visualization, with a body that changes and adapts to reflect real-time analytics sourced from historical archives.\*  
\* magnific.ai



# Prompt Engineering

You are an expert in psychology and data visualization. Here is a dataset from the project "Who wants to enhance their cognitive abilities? Potential predictors of acceptance of cognitive enhancement". This study aims to investigate the relationship between the acceptance of "active" and "passive" enhancement methods and general intelligence from three different perspectives: actual, self-estimated, and implicit theories of intelligence.

Perform the following steps:

- \* Read the csv very carefully
- \* Analyze the given research questions
- \* Define user stories based on the data, codebook, and research questions
- \* Use the user stories as contextual information for creating data visualizations to answer and work with the given research questions.
- \* Implement the data visualizations

Persona Modelling

Context

Tasks

Rules:

- \* Always work with the whole data set

"Data"

Research Questions:

...

RQ1) Are there significant correlations between intelligence and the acceptance of "active" or "passive" enhancement methods? (exploratory research question)

RQ2) Are there significant correlations between a persons' self-estimated intelligence and acceptance of "active" or "passive" enhancement methods? (exploratory research question)

...

Code book:

...

...

Take a deep breath and work on this problem step-by-step. This is very important to my career!

Chain-of-Thought  
(CoT) Prompting

Emotional  
prompting



# Data Analysis (aka. Code Interpreter) and Prompt Engineering

The dataset has been successfully loaded. Here's an overview:

- It contains various columns including demographic data (like `sex`, `age`, `edu`), information about participants' attitudes towards technology (`tech\_interest`), responses to enhancement scenarios (`EM\_01\_accept` to `EM\_08\_accept`, etc.), self-estimated intelligence scores (`SE\_IQ`, `SEnum\_IQ`, etc.), actual intelligence test scores (`IQ\_ISA\_num`, `IQ\_ISA\_verb`, etc.), and various personality and value scales (`ITIS\_mean`, `BFI\_K\_extraversion`, etc.).
- The dataset appears to be comprehensive, with multiple variables that could be relevant to the research questions.

## 1. RQ1: Correlation between intelligence and acceptance of “active” or “passive” enhancement methods.

- This question suggests looking at correlations between actual intelligence scores (`IQ\_ISA\_\*` and `IQ\_global`) and acceptance of enhancement methods (`AoE\_passiv`, `AoE\_aktiv`).

## 2. RQ2: Correlation between self-estimated intelligence and acceptance of “active” or “passive” enhancement methods.

- This question focuses on the relationship between self-estimated intelligence (`SE\_IQ`, `SEnum\_IQ`, `SEverb\_IQ`, `SEspat\_IQ`, `SEFBIQ\_\*`) and acceptance of enhancement methods (`AoE\_passiv`, `AoE\_aktiv`).

Read data

Analyze research  
questions



# ADA and Prompt Engineering

## 1. User Story: Exploring Correlations for Actual Intelligence

- As a researcher, I want to visualize the correlation between participants' actual intelligence scores (numerical, verbal, spatial, and global) and their acceptance of active and passive cognitive enhancement methods, so I can understand if there's a relationship between cognitive ability and attitudes towards cognitive enhancement.

## 2. User Story: Investigating Self-Estimated Intelligence Correlations

- As a researcher, I aim to explore the relationship between participants' self-estimated intelligence (general, numerical, verbal, spatial) and their acceptance of different enhancement methods (active and passive), to determine how self-perception of intelligence influences attitudes towards enhancement.

## 3. User Story: Demographic Differences in Enhancement Acceptance

- As a researcher, I am interested in examining how demographic variables (like age, sex, education) relate to the acceptance of cognitive enhancement methods, providing insights into which groups are more inclined towards such technologies.

## 4. User Story: Impact of Technology Interest on Enhancement Views

- As a researcher in the field of psychology and technology, I want to understand if an individual's interest in technology correlates with their acceptance of active and passive cognitive enhancements, to see if tech-savviness influences openness to such methods.

## 5. User Story: Role of Personality Traits in Cognitive Enhancement Acceptance

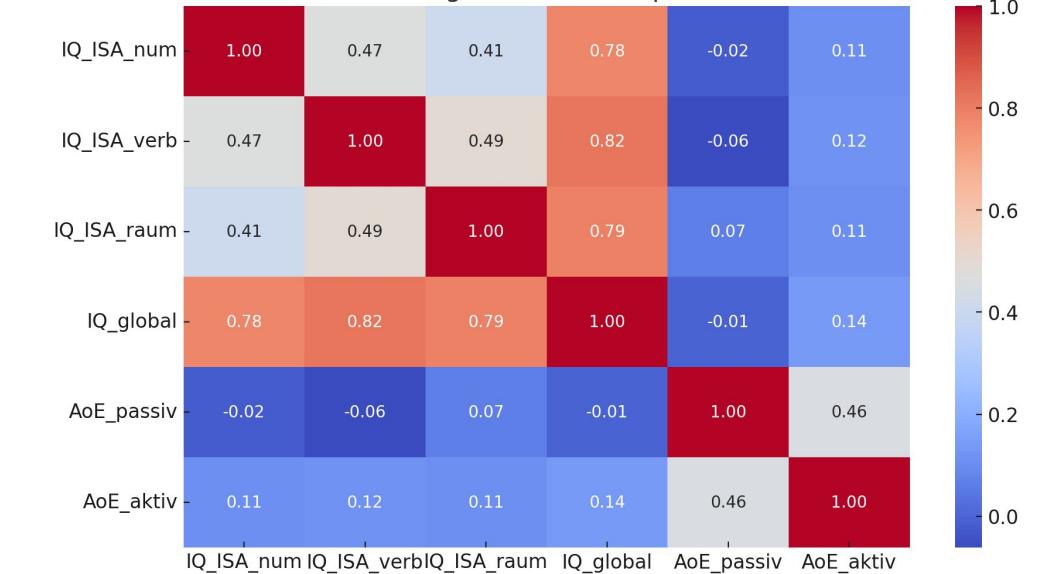
- As a researcher, I wish to investigate how various personality traits and values (like extraversion, agreeableness, openness, etc.) correlate with attitudes towards cognitive enhancements, to uncover any psychological factors that might influence such attitudes.

## User Stories for Data Analysis and Visualization



# ADA and Prompt Engineering: Result for User Story 1

Correlation between Actual Intelligence and Acceptance of Enhancement Methods



The heatmap above visualizes the correlations between actual intelligence scores (numerical, verbal, spatial, and global) and the acceptance of active and passive cognitive enhancement methods.

## Key Observations:

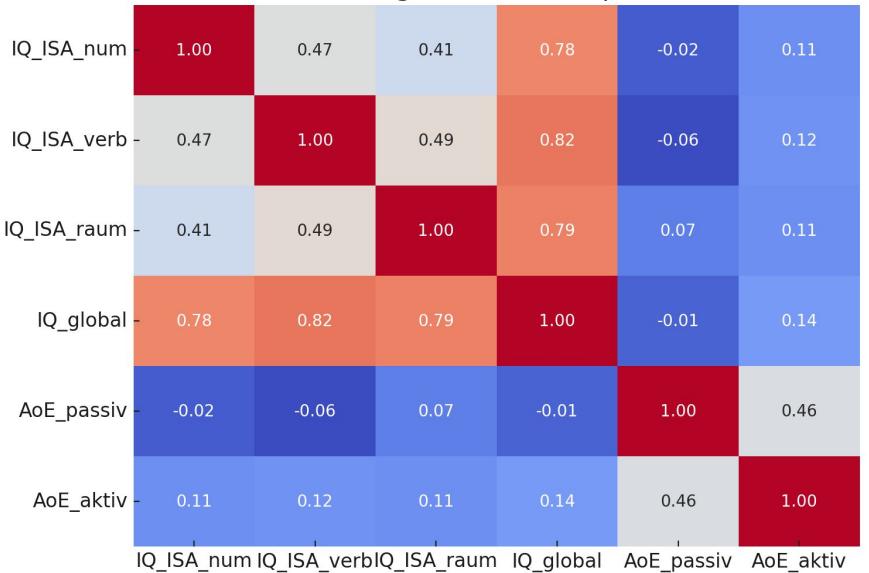
- The correlation coefficients are displayed in each cell, with values close to +1 or -1 indicating strong positive or negative correlations, respectively, and values near 0 suggesting no correlation.
- The color intensity reflects the strength and direction of the correlation, with warmer colors (red) indicating positive correlations and cooler colors (blue) representing negative correlations.

"Chatting" about the output with GPT-4



# ADA and Prompt Engineering: Python Code

Correlation between Actual Intelligence and Acceptance of Enhancement



## Analysis

python

```
import seaborn as sns
import matplotlib.pyplot as plt

# User Story 1: Correlation between actual intelligence scores and acceptance of enhancement

actual_intelligence_cols = ['IQ_ISA_num', 'IQ_ISA_verb', 'IQ_ISA_raum', 'IQ_global']
acceptance_cols = ['AoE_passiv', 'AoE_aktiv']

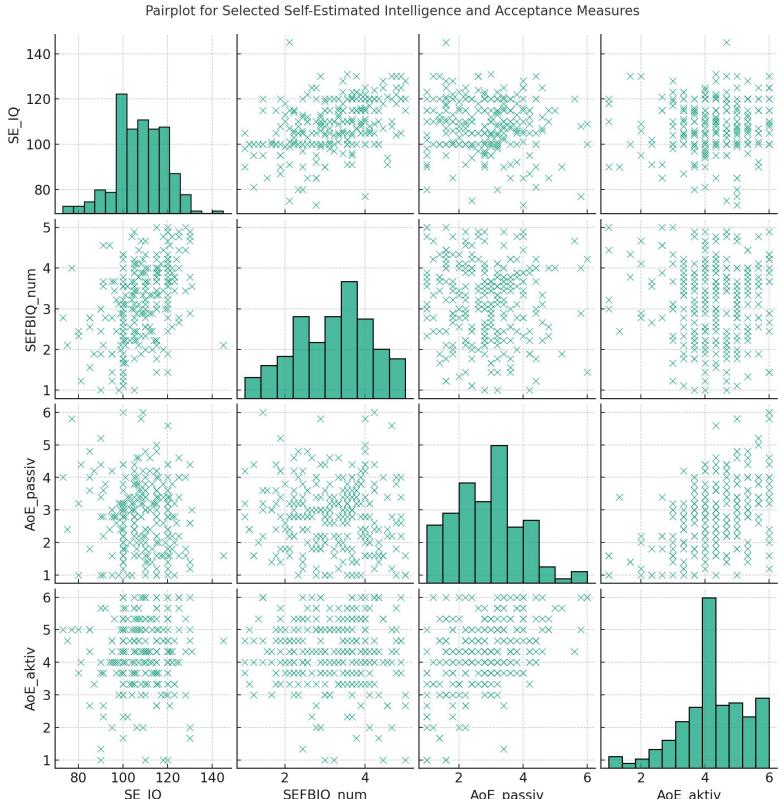
# Creating a dataframe for correlation analysis
correlation_data = data[actual_intelligence_cols + acceptance_cols]

# Calculating correlation matrix
correlation_matrix = correlation_data.corr()

# Plotting the heatmap
plt.figure(figsize=(10, 6))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm')
plt.title('Correlation between Actual Intelligence and Acceptance of Enhancement')
plt.show()
```



# ADA and Prompt Engineering: Result for User Story 2



## Iteratively improve and customize visualizations

### Analysis of Pairplot for Selected Variables

#### Observations:

- Individual Data Points:** The pairplot shows individual data points, which is useful for observing distributions and outliers.
- Comparative View:** It allows for a comparative view of multiple bivariate relationships simultaneously.

#### Potential Improvements:

- Scatter Plot Density:** For areas with high data point density, consider using a hexbin plot or 2D density plot for clarity.
- Scale and Range Consistency:** Ensure the scales and ranges for each plot are consistent to make comparison easier.
- Color Coding:** Introducing a color dimension based on another relevant variable (like sex or education level) could provide additional insights.
- Enhanced Diagonal Plots:** Instead of simple histograms on the diagonal, consider kernel density estimates for a more nuanced view of distributions.
- Plot Titles and Labels:** More descriptive titles and clear labels for each axis would enhance understanding.
- Reducing Overplotting:** If overplotting is an issue, adjusting point transparency or using jitter can help distinguish overlapping points.

Extrahieren.  
Analysieren.  
Visualisieren.  
“Interpretieren”

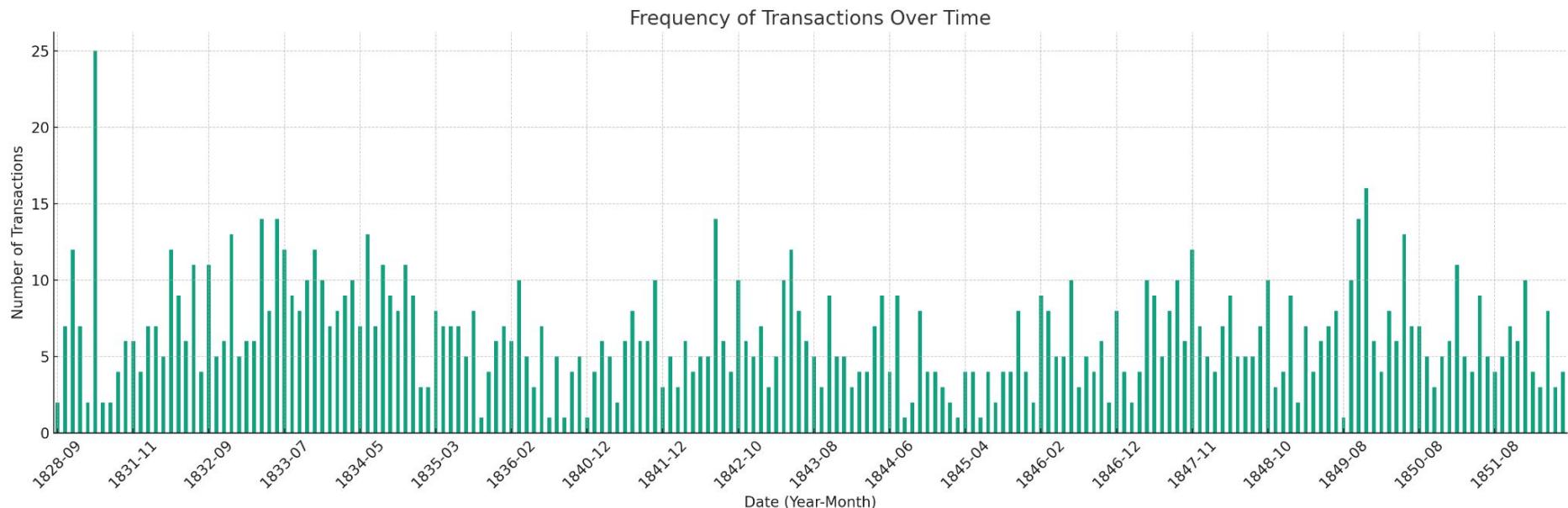


Registro\_di\_entrata,\_monastero\_dei\_SS.\_Pietro\_e\_Se...

You are an expert in data visualisation and financial, economic and social history. The TEI XML encoded the "Digital Edition of the account book from the archive of the monastery of SS. Pietro and Sebastiano of Naples, 1477 - 1484". Languages are Medieval latin and Vernacular Napolitan.

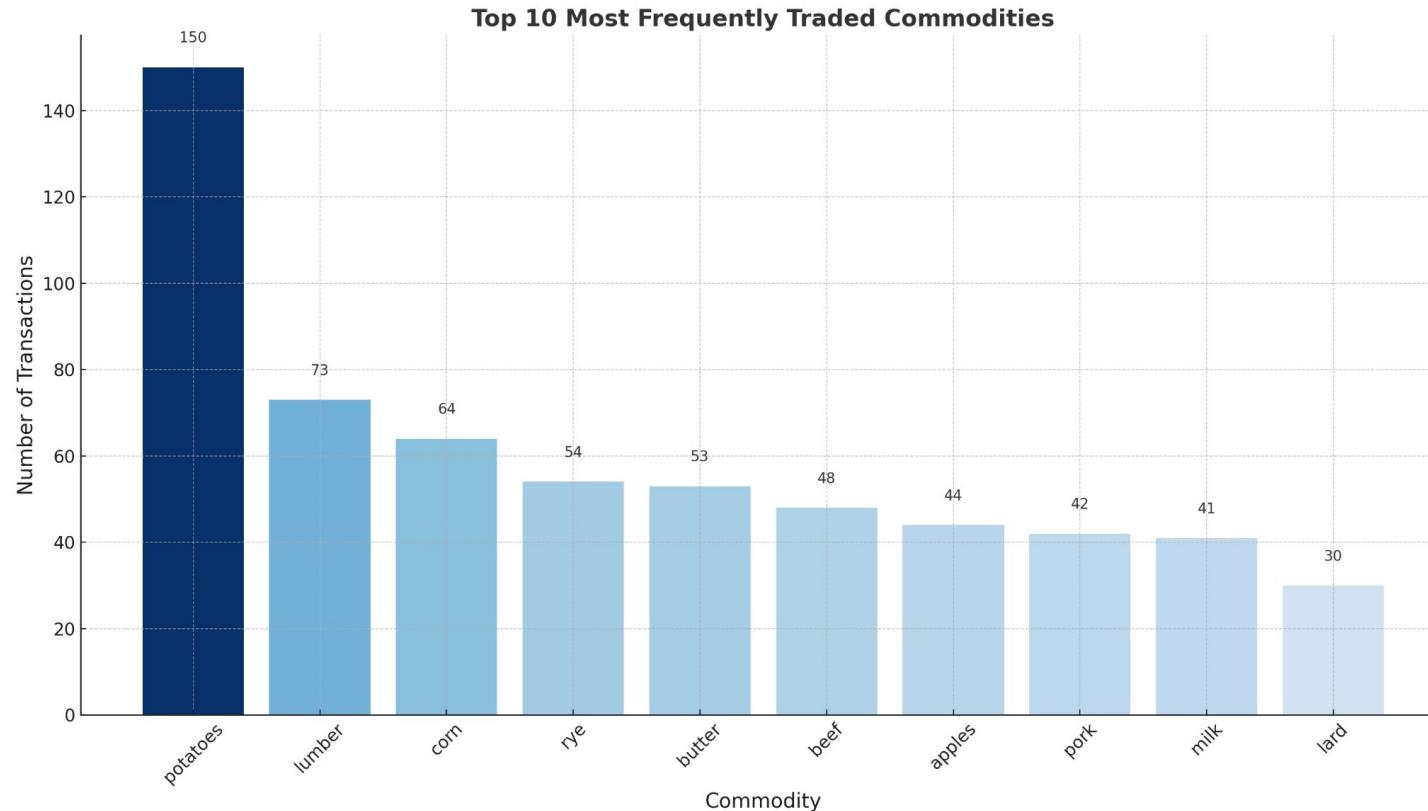
**“continue with Time Series Visualization: A line or bar chart showing the frequency of transactions over time. Use data from all 4 tei xml files.”**

Wheaton 2 - Advanced Prompt. August 17, 2023. Code Interpreter. ChatGPT August 3 Version. <https://shareg.pt/SJNUJD>



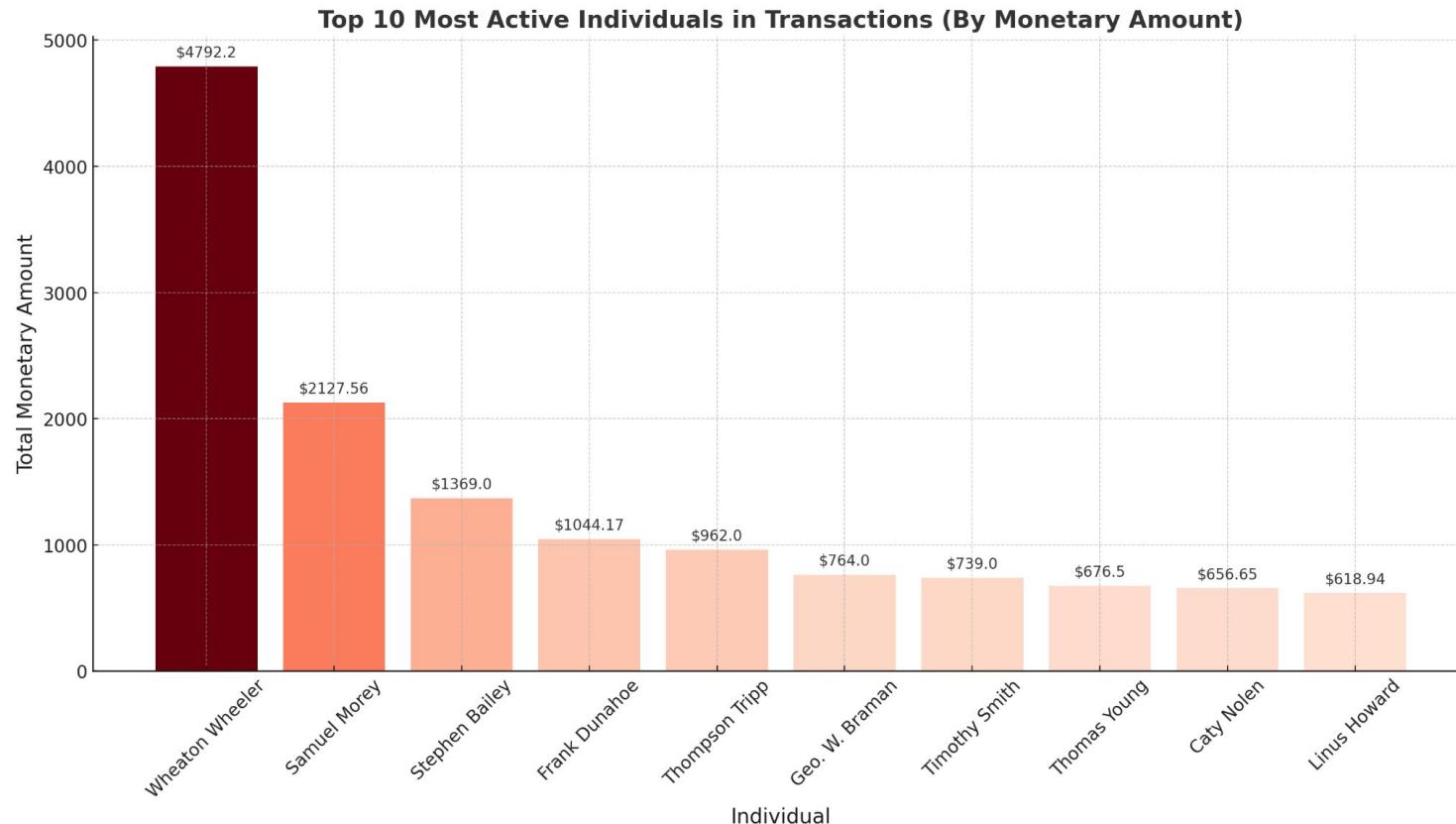
## ***“continue with Top Commodities Visualization: A bar chart displaying the most frequently traded commodities.”***

Wheaton 2 - Advanced Prompt. August 17, 2023. Code Interpreter. ChatGPT August 3 Version. <https://shareg.pt/SJNUJDe>



## **“continue with Key Players Visualization: A bar chart showing the most active individuals in transactions (by the monetary amount).”**

Wheaton 2 - Advanced Prompt. August 17, 2023. Code Interpreter. ChatGPT August 3 Version. <https://shareg.pt/SJNUJDe>



# Zusammenfassung

AG Angewandte Generative KI in den  
Digitalen Geisteswissenschaften  
(AGKI-DH)

- Hype?! - Gemini Ultra, AlpahCode 2, Voyager ...
  - Das Uninteressanteste, was man mit GPT machen kann, ist Text generieren.
    - GPT-4 ist ein guter Modellierungsassistent.
    - GPT-4 ist gut in der Datentransformation
    - GPT-4 kann in Workflows (sehr weit gedacht!) eingebettet werden (und das ist der spannende Teil!).
  - Prompt Engineering vs. AI Engineering
  - Programmierung, Datenmodellierung, Datenanalyse, Datenerzeugung und -annotation,  
...
  - Was macht das mit den Digital Humanities?!
  - Ich glaube wir sollten gemeinsam mehr darüber lernen und Alternativen zu den Tech-Konzernen schaffen (Open Source Modelle!)
- 
- <https://dig-hum.de/ag-angewandte-generative-ki-den-digitalen-geisteswissenschaften-agki-dh>
  - <https://chpollin.github.io/GM-DH/>

# Anhang



# Custom GPTs

Midjourney: <https://s.mj.run/7WRa7TAMzck> award winning illustration, researcher in an academic setting, full body, multiple semi-transparent holographic displays, university setting, muted academic tones, balance of realism and illustration, Gustav Klimt style, --ar 16:9 --style ZEFVSL1  
Zoom Out:  
Variations (Region): research data, network, graph, nodes, historical text, digital humanities, wirting, documents --ar 16:9  
<https://magnific.ai/>



### CrownGPT

Assistant for 'Sharing the CROWN' project, specializing in LOD and RDF data transformation.



### excellence.dhcraft.org Advertising Assistant

Communicates high-level educational content for a sophisticated audience.



### Latin Inscription Translator

Expert in translating Latin inscriptions from images to German, with historical insights.



### GDI Exam Creator

Expert in computer science didactics, creating & solving GDI exam questions.



### FWF Research Proposal Guide

Your main objective = Detailed EXPERT ASSISTANT for FWF research proposal writing



### teiCrafter Development Assistant

Expert on 'teiCrafter' project, providing insights based on its knowledge base.



### Semantic Markdown Assistant

Optimal assistant for Semantic Markdown conversion



### ufbasGPT

Your main objective = Detailed ASSISTANT for UFBAS (Urfehdebücher der Stadt Basel) overhaul,...



### PythonCoder

Considers provided files for tailored Python code.



### Prompt Engineering Hands-On Generator

Expert in prompt engineering for workshops on GPT models



### Austrian Business Advisor

Friendly expert on Austrian business advice, emphasizing practical guidance.



### Teaching Image Creator

Expert artist designing compelling academic lecture visuals.



### Prompt Engineering Assistant

Your main objective = To be the perfect ASSISTANT for developing prompts for GPT-4.



### teiModeler

Assistant for modeling text according to the Text Encoding Initiative P5 guidelines (TEI XML)



### RegestenCrafter

Transforms German Plain text 'Regest' into Turtle RDF following specific rules.



### teiCrafter

Expert in converting plain text to TEI XML, providing clear guidance and TEI encoding support.



### Web Development Agent

Solves specific web dev issues with practical advice.



### Research Proposal Writer

Expert in Writing Research Proposal



### Script Creator

Expert in didactics, writing scripts for university learning and teaching.



### Exam Creator

Expert in didactics and an expert in creating exam questions.



### Scientific Presentation Speech- and Lecturewriter

An expert in writing scientific presentations, speeches and lectures.



### DEPCHA Phd Thesis Chapter Writer

Your main objective = To serve as the perfect ASSISTANT for the writing of the PHD thesis entitled...



### DEPCHA Thesis Chapter Writer

Expert assistant for writing digital humanities PhD thesis chapters.



### Psychology Insight Analyzer

Psychology data analysis expert that guides users through structured, step-by-step exploration of a CS...



### Estimate Assistant

I assist with digital humanities project estimates.

# Ressourcen

- [YouTube Playlist: Applied Generative AI in Digital Humanities](#)
- AGKI-KI Literatur: <https://www.zotero.org/groups/5319178/agki-dh/library>

# AI Engineering

LangChain, [https://python.langchain.com/docs/get\\_started/introduction](https://python.langchain.com/docs/get_started/introduction)

Retrieval-Augmented Generation (RAG),

<https://www.youtube.com/watch?v=T-D1OfcDW1M>

MemGPT: Towards LLMs as Operating Systems.

<https://arxiv.org/abs/2310.08560>

Assistant API & Custom GPTs

SMARTGPT, <https://www.youtube.com/watch?v=wVzuvf9D9BU>

...