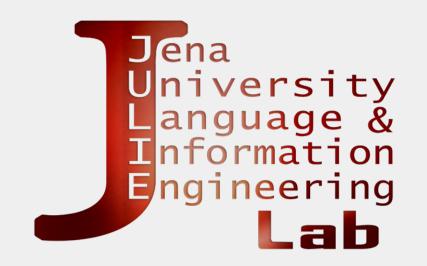


Compiling Digital Fragments of ALZ, a Major Textual Resource for German Romanticism Research, into a Single Comprehensive Text Corpus





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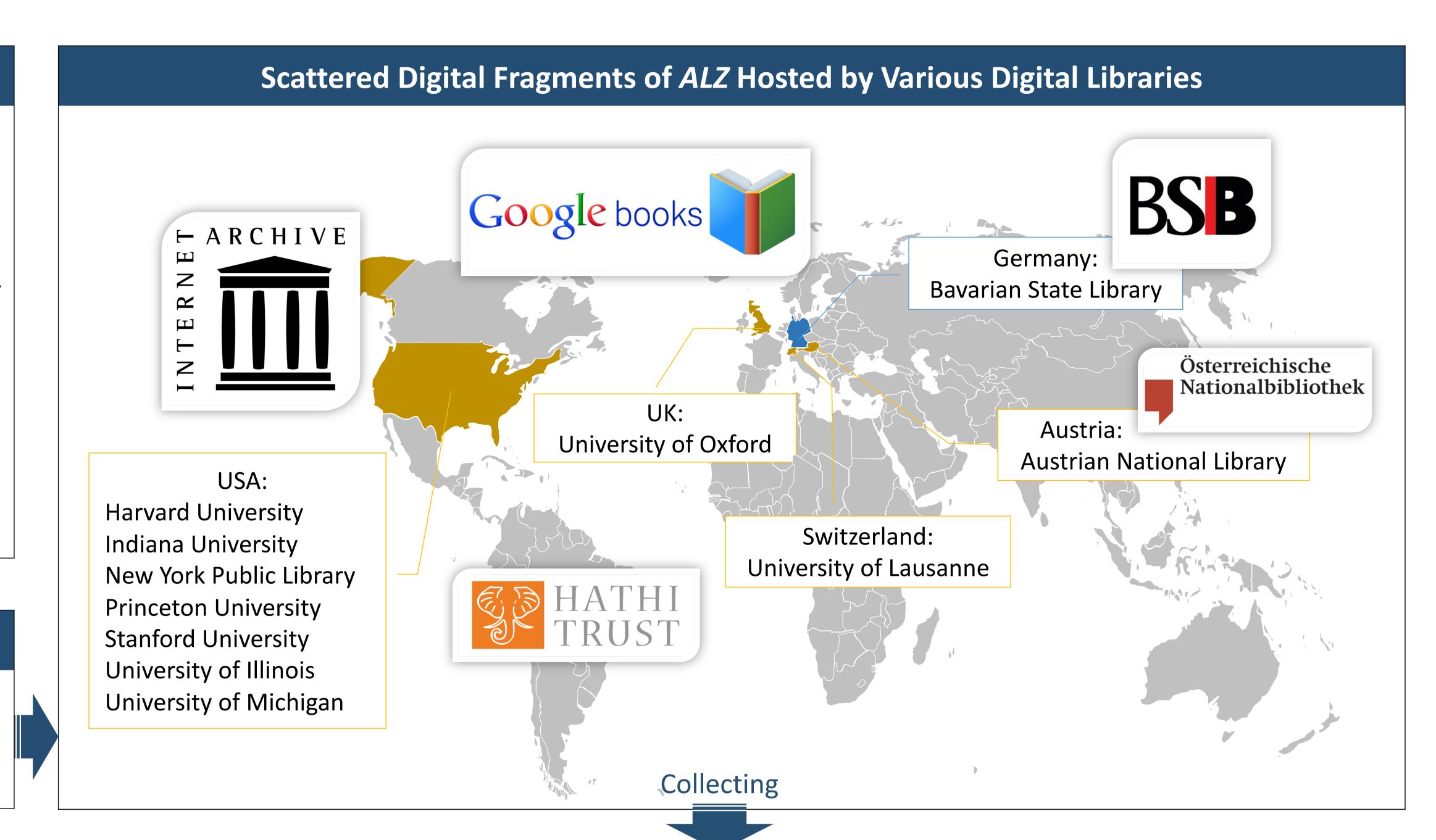
What is ALZ?

- Allgemeine Literatur-Zeitung (General Literature Gazette, ALZ)
- Published between 1785 and 1849 in Jena/Halle, Germany
- Consists of anonymous reviews of contemporary publications
- Most comprehensive review organ around 1800 in Germany
- Invaluable historical resource for literary research on German romanticism



Task

• Create a comprehensive full-text corpus of ALZ for research on German romanticism



Traditional Workflow deliver Library **Printed Book** OCR **Full-Text** Scanned Image **Cost and Time** Consuming! **Target Corpus**

Overview of All Available Full-Text Resources									
	Google Books			Internet Archive			Bavarian State Library		
Library	Volumes	Pages	Tokens	Volumes	Pages	Tokens	Volumes	Pages	Token
Bavarian State Library	1	285	289,269	-	-	-	152	78,675	76,568,50
University of Lausanne	4	2,008	1,969,395	-	_	-	_	-	
Harvard University	4	3,056	2,645,386	4	3,054	2,520,832	_	-	
Indiana University	67	33,721	32,255,992	49	24,923	25,146,053	_	-	
New York Public Library	103	48,949	47,909,730	94	42,636	42,970,913	_	-	
Princeton University	38	36,854	35,245,420	29	29,096	30,036,319	_	-	
Stanford University	2	887	869,272	3	1,102	1,216,273	_	-	
University of California	45	28,69	28,032,026	54	33,248	33,179,736	_	-	
University of Illinois	-	-	-	4	3,192	2,820,205	-	-	
University of Michigan	144	71,681	68,554,109	308	147,559	146,025,563	-	-	
University of Oxford	46	20,995	20,506,977	56	26,181	25,185,788	-	-	
Total	454	247,126	238,277,576	601	310,991	309,101,682	152	78,675	76,568,50

Deduplicating

JS		University of Lausanne	_	_	
		Harvard University	2	1,528	1,322,693
	_	Indiana University	3	2,641	2,547,872
ture Work		New York Public Library	4	2,08	2,043,980
tare vvork		Princeton University	15	8,038	7,267,803
ssing Volumes (≈18%)		Stanford University	_	-	
Correction ity Recognition		University of California	9	3,354	3,162,025
		University of Illinois	2	1,512	1,299,100

University of Michigan

University of Oxford

Total (≈ 82% of all)

Bavarian State Library

Library

	Deduplications formel*
Encoding	$L \sim Library$ $E \sim OCR \ Engine$ $S \sim Sources \subseteq L \times E$ $F = Fulltexts$
Compling	$F \sim \{F_1, F_2, \dots, F_n\}$ $F_i \sim \text{Duplicates of text } i$ $R \subseteq F \times S \sim \text{Text exists in source}$ $f_{best}^i = \arg\max_{f \in F_i} \{\text{ocrQuality}(s): fRs\}$ Minimum Edit Distance Manually Generated Ground Truth

Fut

- Adding Miss
- OCR Error C
- Named Entity Recognition
- Social Network Analysis
- Topic Modeling



Compiled Corpus (TEI-Format)

Volumes

152

Pages

78,675

25,538

126,612

3,246

Tokens

76,568,508

23,276,002

2,881,022

120,369,005

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