



GEO
INFORMATION

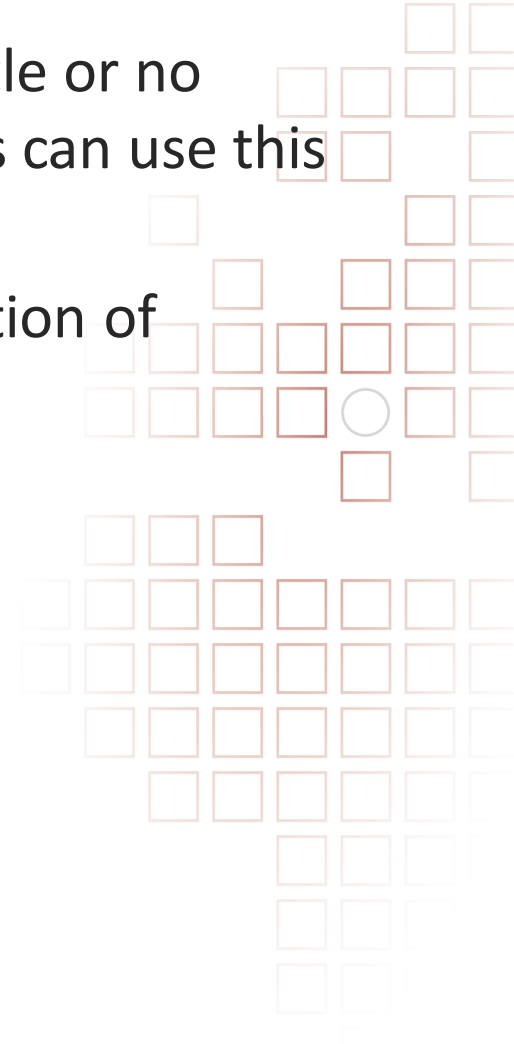
Master Thesis: **"Development of a User Interface for an Existing Spatial Linked Data Approach for Dialect Data"**

Georg Weinberger

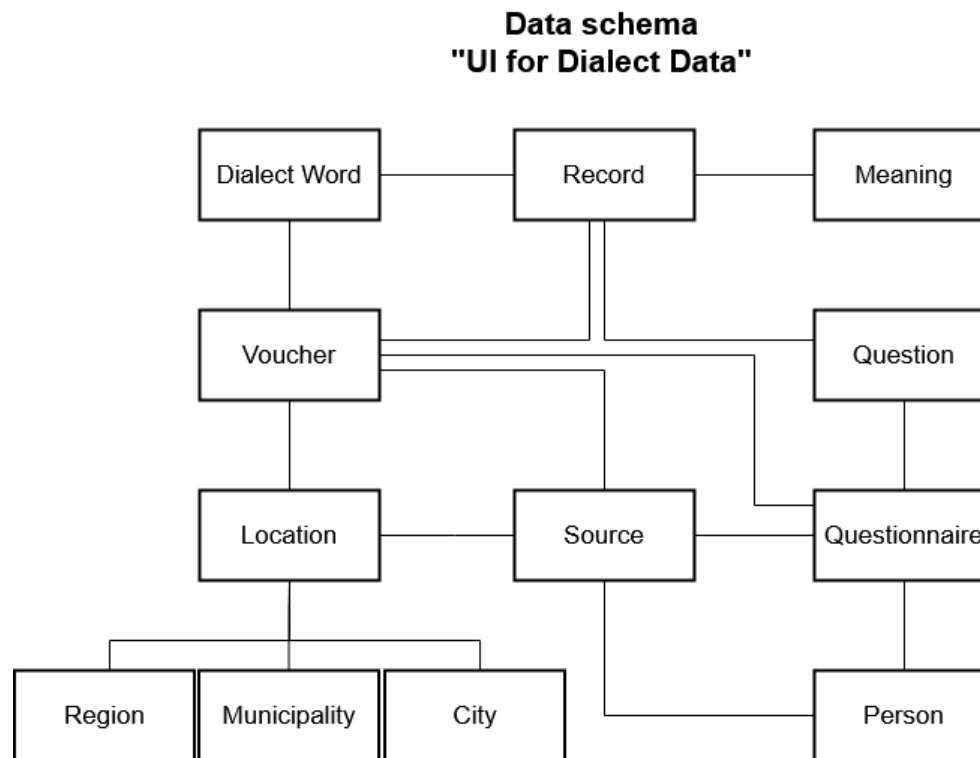
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- Part of the dialect data from the "Database of Bavarian Dialects in Austria" (dboe@ema) are stored as linked data in a database and can be queried from there
- Problem: Querying linked data can be complicated (query language *SPARQL*, unknown ontology, ...)
- Therefore, a user interface for this database will be created in this project
- This means that users no longer have to write queries by themselves, but can still query and visualize data from the database using the user interface

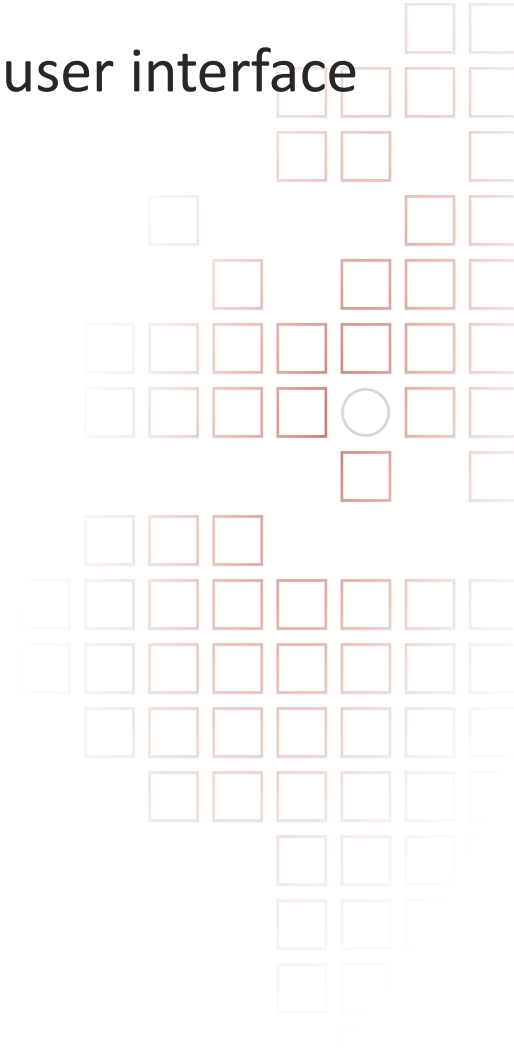
- The advantage is that even users who have little or no experience with databases or query languages can use this software
- The focus should be on the spatial representation of dialectologically relevant data



- The following figure shows the simplified data schema for the database



- The following two examples show how such a user interface could look like
 - Linguistic Atlas of Baden-Württemberg
 - German Linguistic Atlas



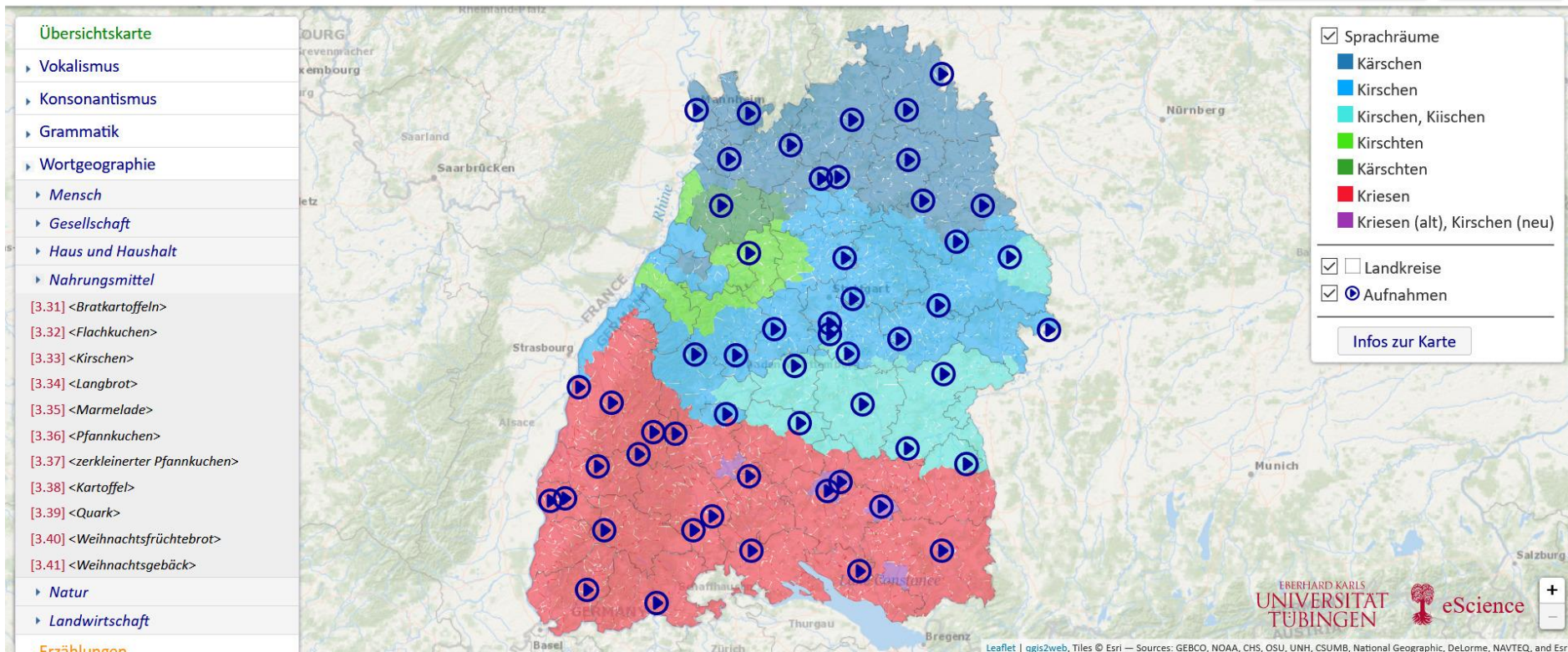
- Linguistic Atlas of Baden-Württemberg (<https://escience-center.uni-tuebingen.de/escience/sprachatlas/>)

Sprachatlas Baden-Württemberg

mit freundlicher Unterstützung des Ministeriums für Wissenschaft und Kunst (MWK)

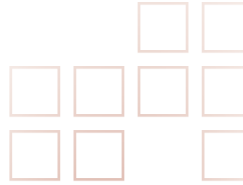
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	SSA	SNBW	Karte als Download
Karten-Nr.	-	-	Hochformat: PDF PNG
Fragebuch-Nr.	200.5	15.16	Querformat: PDF PNG



Examples

- German Linguistic Atlas
(<https://www.regionalsprache.de/SprachGIS/Map.aspx>)



Werkzeuge auswählen

Sprachaufnahmen suchen

Suchoptionen

Umkreis (km)

münchen **Suchen**

14 Ergebnisse

Seite 1 von 1

14 München (73556)

- REDE M_ALT1_WS_Dialekt
- REDE M_ALT1_Nordwind
- REDE M_ALT2_WS_Dialekt
- REDE M_ALT2_Nordwind
- REDE M_ALT2_WS_Standard
- REDE M_JUNG1_WS_Dialekt

Kartensuche

Kartenebenen verwalten

- Verwandschaft
- SOB: 6/1
- Leere Ebene

Sprachaufnahmen abspielen

es hört gleich auf zum schneien dann
wird das wetter wieder besser
REDE M_ALT1_WS_Dialekt

00:01 00:03

REDE im winter fliegen die trocknen blätter
WS1 (...) in der luft herum
REDE M_ALT1_WS_Dialekt

REDE es hört gleich auf zum schneien dann
WS2 wird das wetter wieder besser
REDE M_ALT1_WS_Dialekt

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- The linguistic atlas of Baden-Württemberg shows dialect words and their distribution in Baden-Württemberg in Germany. In addition, voice recordings of the respective expressions can be played
- Using the German Linguistic Atlas different language maps of German-speaking areas can be displayed. In addition, both voice recordings and literature can be searched

- The first step before developing the software is the requirements analysis
- This analysis determines which functions or properties the user interface should have
- By involving the users or stakeholders in this development process better results can be achieved

- “How can data from the field of linguistics or dialectology be visualized in a user interface?”
- My questions regarding this would be...
 - Which data are relevant for this question?
 - Which combinations of data make sense to be displayed?
 - What is done if the desired data is found?
 - What analyzes are made with the data?
 - Will the data be processed afterwards?
 - What other features should a UI for dialectology include?
 - How will the tool be used later on?