Gabmap

Doing dialect analysis on the web

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What is Gabmap?
- Gabmap is a web application for dialectometrics and cartography
- allows you to make mappings and statistical analyses of your dialect data
- Gabmap can analyze phonetic transcriptions, numeric dialect data (e.g., formant frequencies), and categorical data (e.g., syntactic or morphological variables)
- overviews of the number of places, number of linguistic variables, number of different symbols used in the transcriptions etc.

geographic data
site coordinates and borders
format: .kml or .kmz

data overviews
string data
(transcriptions)
numeric data
categorical data
string alignments
item distances
aggregation
distance matrix

Example of Gabmap workflow with dialect data from Pennsylvania:

1) collect and upload data
START
by collecting dialect data

2) data inspection
index map
data overviews
distribution / value maps

3) measurement of linguistic distances
string data
(transcriptions)
numeric data
categorical data

4) linguistic differences
multi-dimensional scaling
difference maps
comparisons with geographic distances
reference point maps

5) statistical analyses and mappings
cluster validation
discrete clustering
fuzzy clustering

6) data mining
cluster determinants
distribution maps

Reference:

Visit www.gabmap.nl to:
- try a demo
- create a user account and start using Gabmap
- watch an introduction video
- follow a step-by-step tutorial with exercises
- read our FAQs
- find out about up-coming events

Use Google Earth to get the geographic data:

Reference: