1) collect and upload data

START
by collecting dialect data

dialect data
transcriptions / numeric data / categorical data

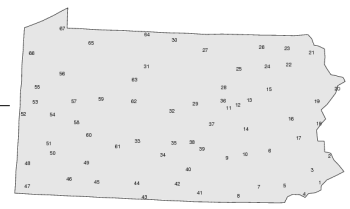
format: tab-separated table

geographic data
site coordinates and borders

format: .kml or .kmz

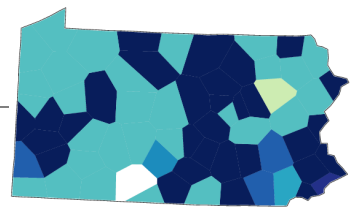
2) data inspection

index map



data overviews

distribution / value maps



3) measurement of linguistic distances

string data (=transcriptions)

numeric data categorical data

string alignments

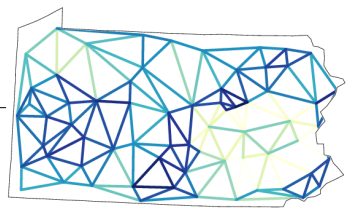
item distances

aggregation

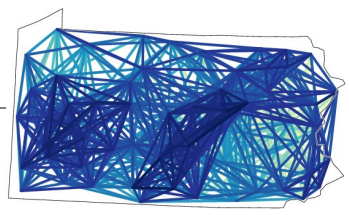
distance matrix

4) linguistic differences

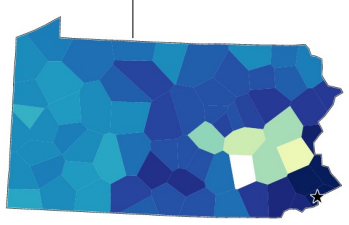
difference maps

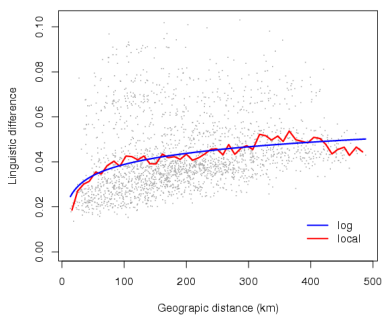


comparisons with geographic distances

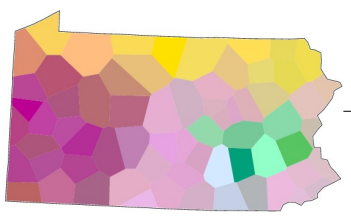


reference point maps

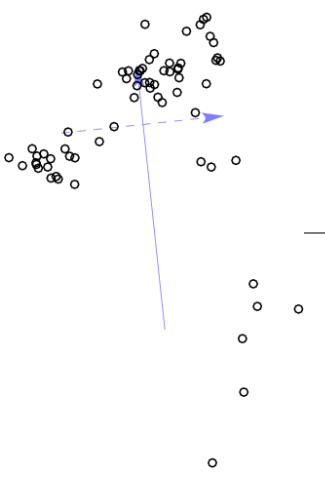




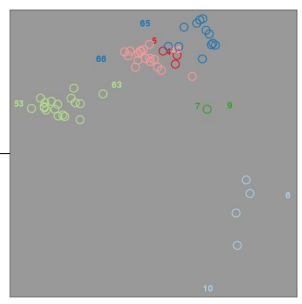
5) statistical analyses and mappings

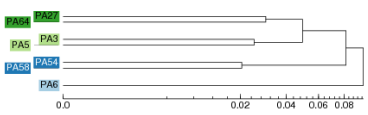


multi-dimensional scaling

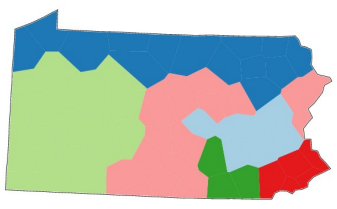


cluster validation

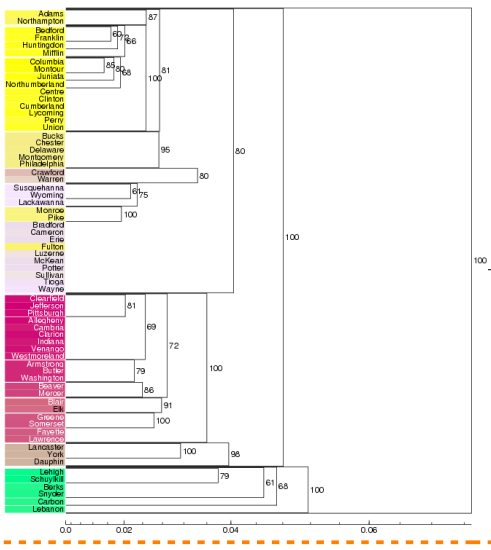


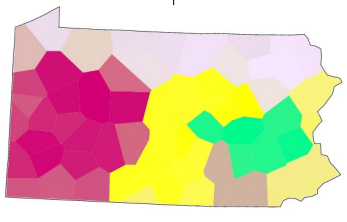


discrete clustering



fuzzy clustering





6) data mining

cluster determinants

- 0.746 - 0.801 - 0.692 - fɪlədɛlfjə (11)
  - fɪlədɛlfjə (3)
  - fɪlɟdɛlfjə (3)
  - fɪlədɛʃfjə (2)
  - fɪlədɛʃfjə (3)
- 0.577 - 1.000 - 0.154 - fɪlədɛlfɪə (2)
  - fɪlədɛlfɪ-ˆə (1)
  - fɪˀlədɛlfɪ-ˆə (1)

distribution maps