





Mapping, synthesis and visualization of Czech dialects

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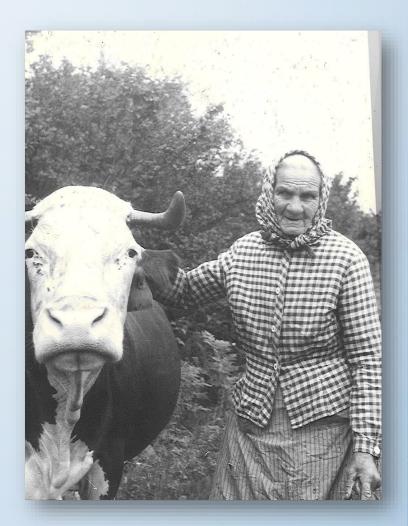
Czech Republic



Disappearing traditional territorial dialects

Some researchers even believed that dialects would disappear during the 19th century

Dialectology has long utilized mapping techniques



Aim

... to present the results from the systematic visualization of the spatial synthesis of the dialects of the Czech language





dialectologists





cartographers



Mapping of Czech dialects

1864 A. V. Šembera: The Foundations of the Czechoslovak Dialectology

1894, V. J. Dušek: Dialectical Map of Bohemia

1947 Czech Language Institute– systematic geolinguisticresearch of Czech dialects

2018 J. Balhar et al. Czech Linguistic Atlas



Geolinguistic methods

- methods of linguistic data collection
 - o sound recording of spontaneous speech
 - sending questionnaires to non-dialectological explorers
- cartographic geolinguistic methods (displaying linguistic phenomena on maps)
 - by text inscriptions (traditional method)
 - by special point (geometric) map symbols
 - by areal map symbols using hatches or isoglosses
- interpretive geolinguistic methods

Cartography in linguistics

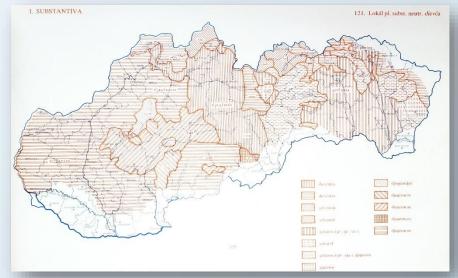
- linguistic maps and linguistic atlases
- dialect maps and dialect atlases

- Sprachatlas von Bayerisch-Schwabe
- o dtv-Atlas Deutsche Sprache

Lee Pederson (2018) – seven steps in the process of a linguistic atlas compilation:

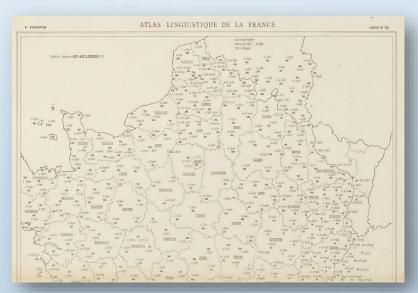
- > intention to create a linguistic atlas
- > establishing a square network over the study area
- creation of a list of communities or settlements within the network
- managing the questionnaire regarding the research topic
- > selection of informants for each community
- > fieldwork based on interviewing informants
- recording the answers of informants and further processing.



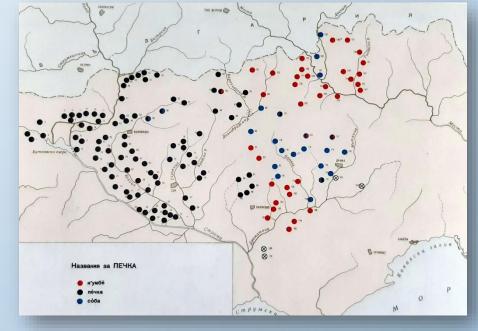


Atlas of the Slovak Language II (1981)

dtv-Atlas Deutsche Sprache (2019)



Atlas Linguistique de la France

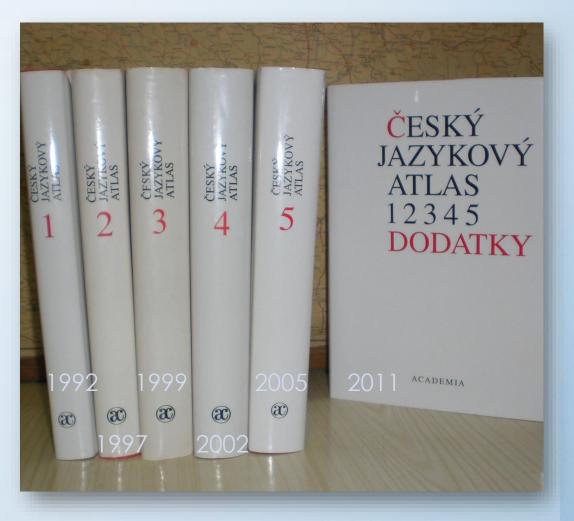


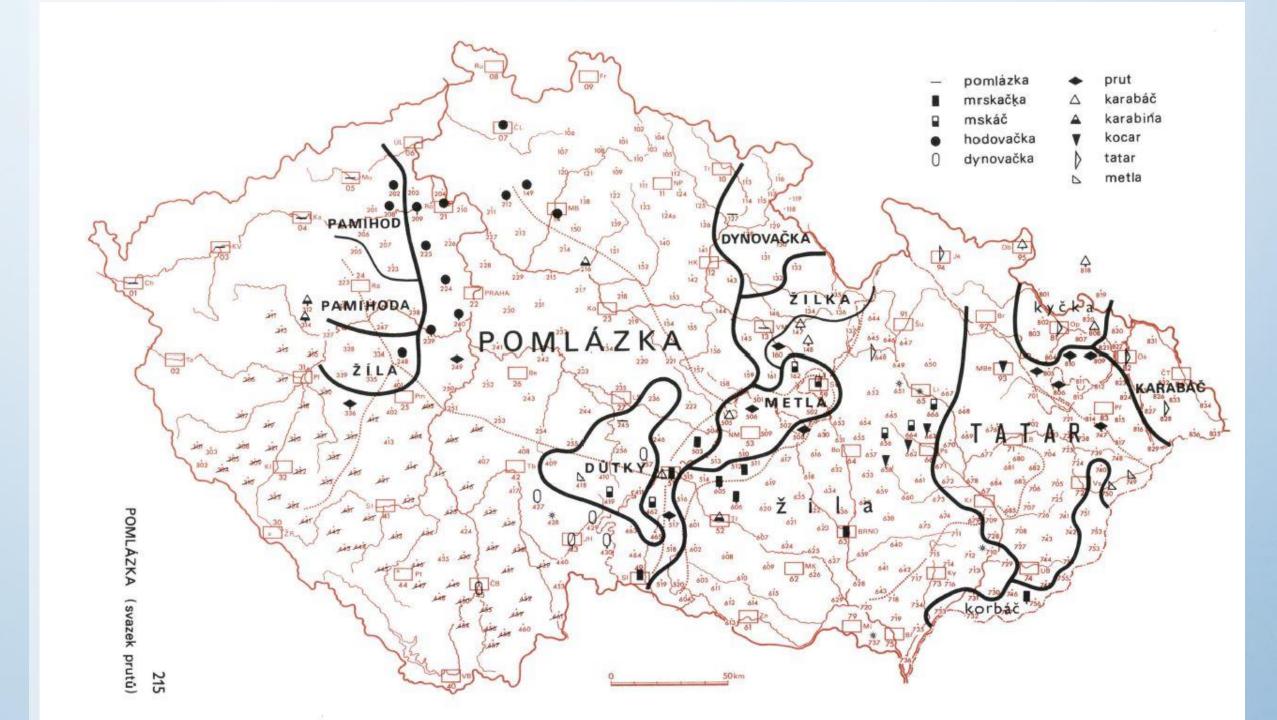
Atlas of Bulgarian Dialects (1988)

Czech Linguistic Atlas – 1,600 maps

- six volumes published 1992-2011
- based on the results of field research
- questionnaire with 2,649 items
- 420 rural localities
 - 1964-1972
 - 4,364 informants
- 57 cities
 - 1973-1976
 - 1,032 informants
- the age of the informants ranged from 65 to 75 years







Czech Dialect Atlas

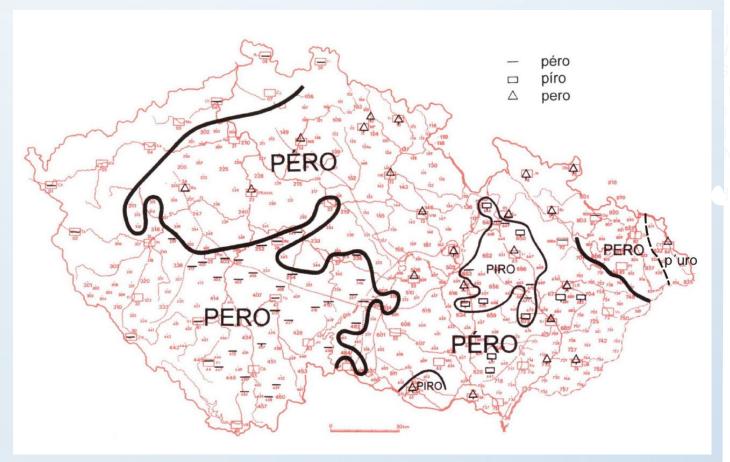
Objectives and purpose

- o digitizing maps from Czech Linguistic Atlas
- o no changes and updates in map contents
- o redesigning of the Atlas layout
- o new map symbology
- to provide more comprehensible maps to a wider range of users (researcher, teachers, ethnographers, historicians, etc.)
- Volume I Vowel Shortening





Czech Dialect Atlas new symbology

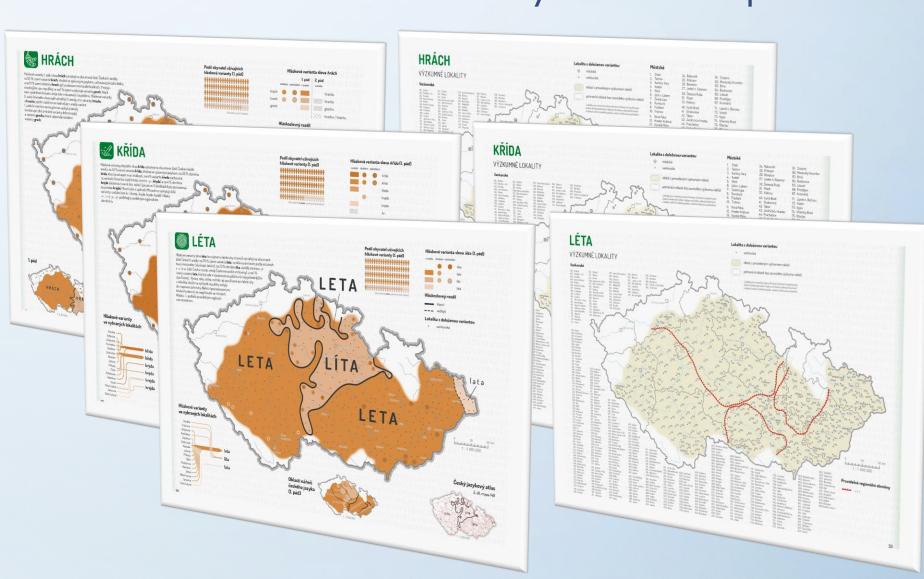






Czech Dialect Atlas – analytical maps

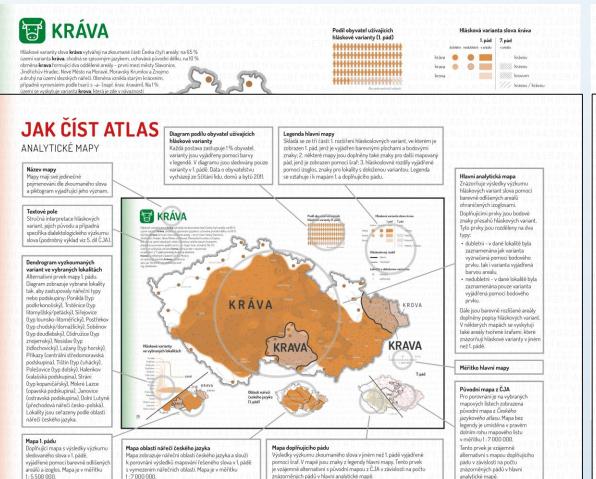
- HRÁCH
- PLÁČ
- SÁNĚ
- KLÁDA
- SKÁLA
- KRÁVA
- SNÍH
- VÍTR
- KŘÍDA
- LÉTO
- LÉTA
- JMÉNO
- PÉRO
- SÍLA
- HROUDA
- NÉST

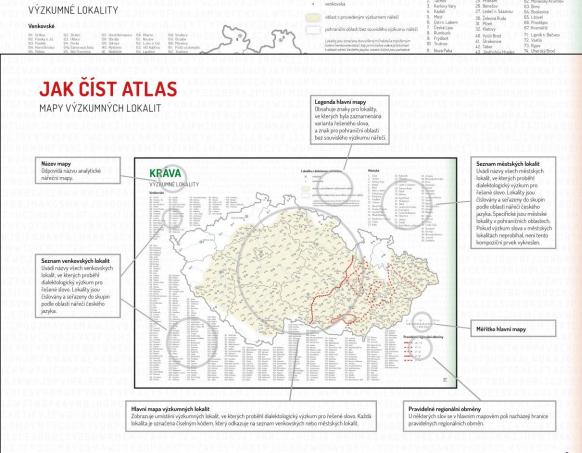




Czech Dialect Atlas – map layout

KRÁVA





Lokalita s doloženou variantou

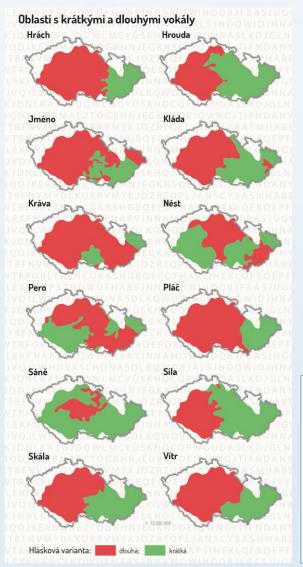
Czech Dialect Atlas – spatial synthesis

tvo PŘEVÁŽNĚ KRÁTKÝCH VOKÁLŮ - v 70 % až 89 % vybraných

typ POUZE KRÁTKÝCH VOKÁLŮ - minimálně v 90 % vybraných

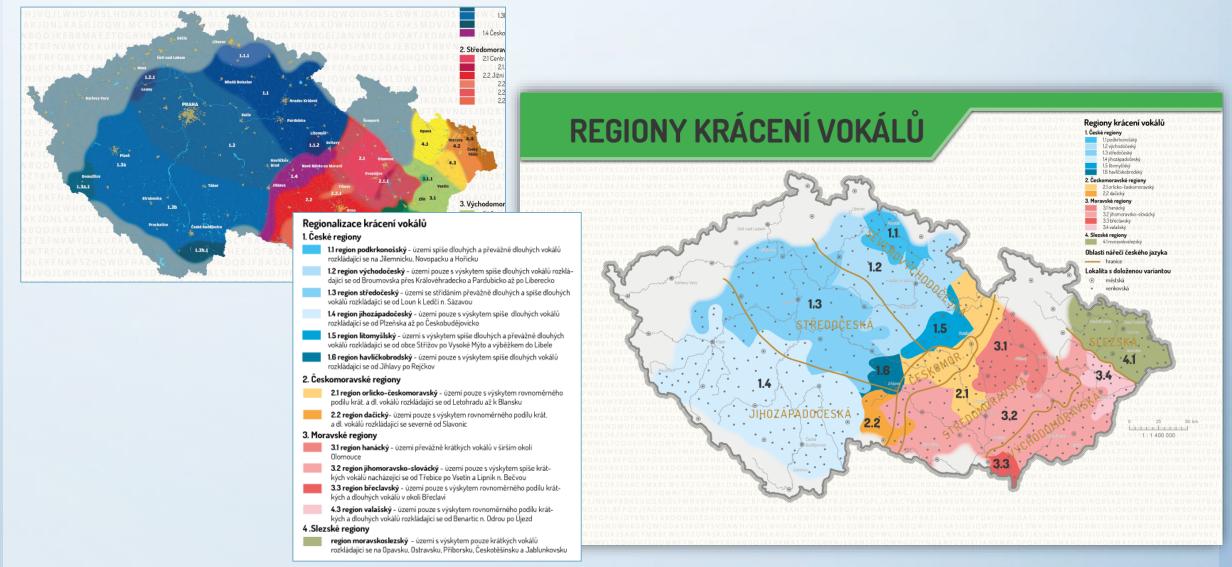
slov se vyskytl krátký vokál

sĺov se vyskytl krátký vokál





Czech Dialect Atlas – spatial synthesis



Next steps

- IT development in dialectology
 - ❖ ProPONAR
 - DiaMA
 - ❖ InteGra
 - ❖ DiDa
 - ProMAP





Czech Dialect Atlas

- □ Volume II Plural Instrument
- Volume III Genitive Singular Masculine

This paper is supported by the project No. DG20P02OVV029 "Czech dialects in an interactive view. Documentation and ways to the accessibility of the disappearing linguistic heritage as an integral part of regional identities"; support provider: Ministry of Culture of the Czech Republic, NAKI II Program.

THANK YOU FOR YOUR ATTENTION

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