An XML-based approach to dialectological data: The development of syllabic liquids in Bulgarian

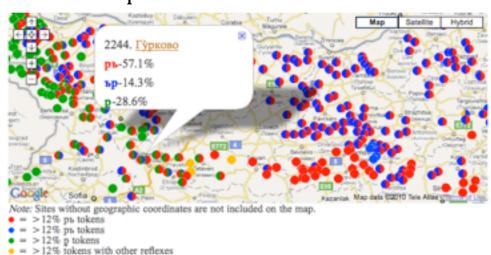
Quinn Dombrowski (quinnd@uchicago.edu), Andrew Dombrowski (adombrow@uchicago.edu) 17th Balkan and South Slavic Conference, 16 April 2010

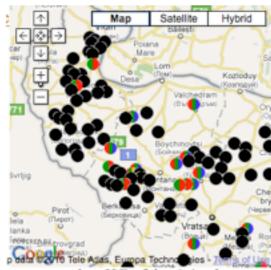
From printed text to XML

```
221; 3782 вж. 3778; 3786 гръп, дрът, кръс, кря
        прът, пръф. смрът, сръп; 3791, 3794, 3797, 3799,
 3800, 3802, 3804 вж. 3169; 3806 бряс, гряп, краф,
 пръс, прът. смрът: 3810 вж. 3835; 3811 вж.
3812 гръп, кръс, кръф, пръс, срък, но дърт; 3813 вж.
3169; 3817 вж. 3812; 3818 гръп, пръс, сръп и дърт,
пърч. сърн; 3821 връу, гръп, пръс, стрък и дърт, пърч;
      гръп, пръс, сръп, стрък и дърт, пърч; 3823
 прыт, смрыт, стрых, трым и дърт, пырч, сърп;
       връч, кръч, смрът, стрък, трън и пърч,
            връу, гръп, кръч, пръс и пърч, сърп
      кръф, пръс и дърт, сърп; 3827 иж.
      връу, гръп, кръф, трън и дърт, пърч,
брыц, врых, врых, грып, крыч, прыс, прып, смрыт,
и дърт, пърч, сърп; 3831 връу, пръс, смрът и
дърт, пърч, сърп; 3833 вж. 3829; 3834, 3835
     дрыш, кръф, крък, кръс, пръс и дърт, сърп;
1839 вж. 3835; 3843 врах, кръф. пръф. пръс и б
     Оърт. пърч. сърп; 3844 вж. 3835;
                        4227: 3866 гръп, кра
```

@Inum = a standard number created for the atlas to represent the lexeme

Flexible maps





 more than 50% of the site's tokens have the same reflex as the current token.

Tool features

Site-based

- List of all sites, with an overview of which reflexes are represented in each

For each site:

- Which lexemes appear with multiple reflexes
- List of all reflexes and tokens found there

Reflexes

- List of reflexes, sorted alphabetically and by amount of sites with that reflex

For each reflex:

- How many tokens (and unique tokens) have the reflex
- How many (and what percent of) sites have the reflex
- List of sites with the reflex
- What other reflexes co-occur with the reflex

Lexeme-based

- List of lexemes, sorted alphabetically, by percent of sites with the lexeme, and by number of reflexes that occur with the lexeme For each lexeme:
- How many (and what percent of) sites have the lexeme; list of sites can be toggled
- How many tokens (and what percent of all tokens) are from the lexeme; list of tokens can be toggled
- How many, and which, reflexes occur with the lexeme
- For which sites does this lexeme have a unique reflex?

Token-based

- List of tokens, sorted alphabetically and by number of occurrences

For each token:

- Number (and percent of) sites with the token
- Percent of lexeme instances represented by the token
- How many sites with the token have an additional form of the same lexeme
- For which sites does this token have a unique reflex?

33. Рупци

Located in Видинско (NW).

All	Mono	Poly
p-69.2%	p- 69.2%	р - 69.2%
ps-7.7%	pi- 7.7%	ръ - 23.1%

Lexeme duplicates

- кРв р крф
- кРв ръ кръф
- кРв ръ кръвно

Tokens

- p 69.2%
- крсти
- пршки
- крф
- прс

твРд

- 68 sites have твРд (5.4% of sites)
- 68 instances of твРд (.7% of all words)
- 4 reflexes occur with твРд (LVC .059)
- 1. p 31 tokens (1 unique)
- 2. ър 24 tokens (3 unique)
- 3. ръ 12 tokens (1 unique)
- 4. p 1 tokens (1 unique)

Sites where твРд carries a unique тРт value

2098. Душинци

- твърд unique source of ър
- Other:
 - ръ (2)
 - p (1)

For more information about the technology

XML

A gentle introduction to XML: http://www.tei-c.org/release/doc/tei-p4-doc/html/SG.html

XSLT

W3C recommendation for XSLT 2.0: http://www.w3.org/TR/xslt20/

Cocoon

????????????