Games for Learning Old and Special Alphabets – The Case Study of Gamifying *Mrežnik*

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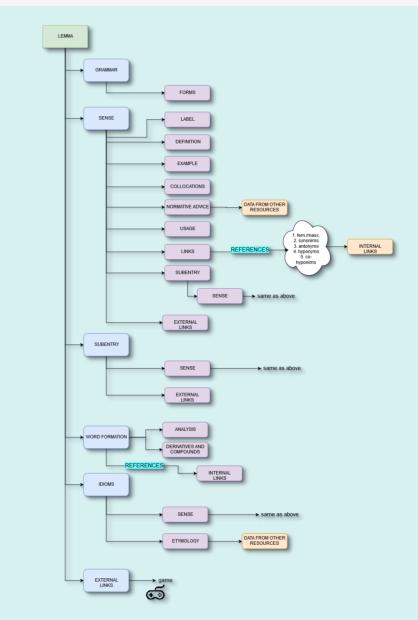






The Croatian Web Dictionary – Mrežnik

- Mrežnik is a project of the Institute of Croatian Language and Linguistics that aims at creating a free, monolingual, easily searchable hypertext online dictionary of the Croatian standard language with 10,000 entries
- dictionary is corpuse-based
- dictionary is compiled using TshwaneLex program
- in addition to basic definitions, the dictionary also includes definitions for children (3000) and definitions for non-native speakers of Croatian(1000)
- for all three modules, the author is developing lexicographic games
 some of these games include learning old and special alphabets



Lema structure in Mrežnik (bit.ly/2PuPx13)

Games for learning the Glagolitic script

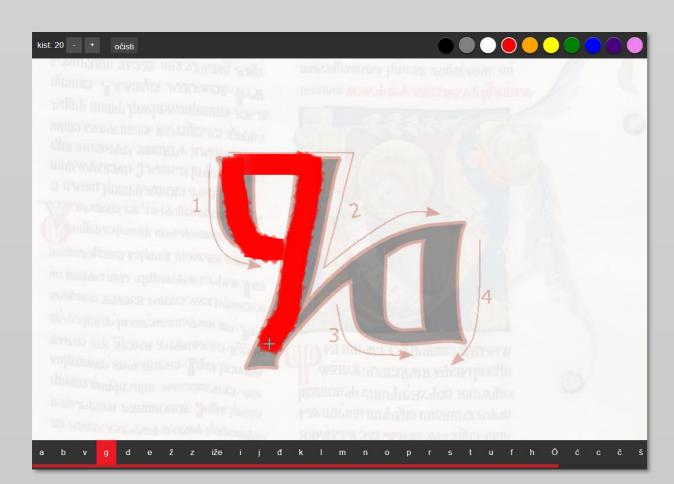
• The Glagolitic script (Croatian *glagoljica*) is the oldest known Slavic alphabet created in the 9th century by Saint Cyril.



Glagolitic memory (bit.ly/349Cea8)



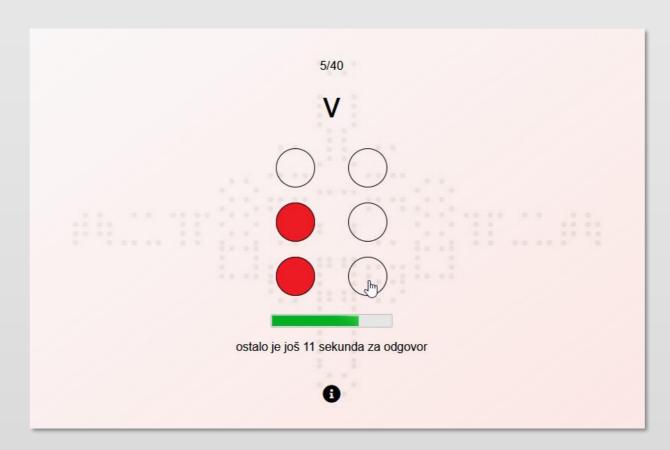
Quiz for learning Glagolitc letters (bit.ly/2BXer1o)



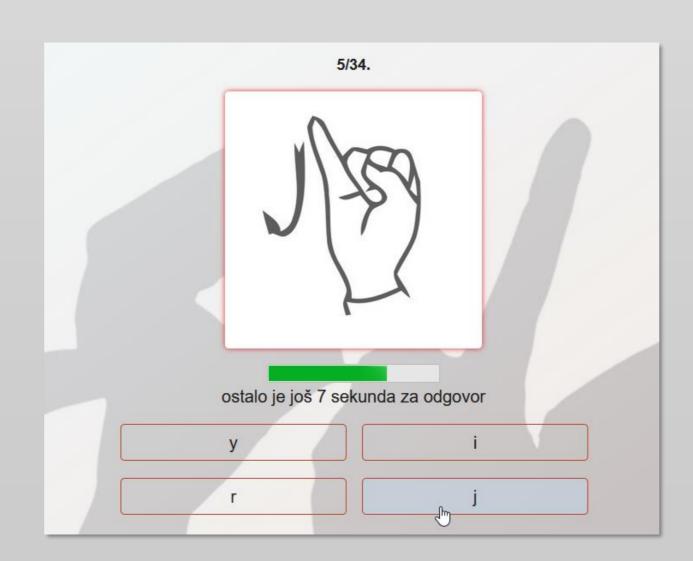
Interactive site for learning how to write Glagolitic letters in the right way (bit.ly/2NnRidN)

Games for learning Braille alphabet and sign language

 Braille and sign language letters and symbols are important part of human culture and knowledge.



Game for learning Braille (bit.ly/2Wo1ib1)



Quizz for learning the alphabet of the sign language (bit.ly/36jghr6)

Technology and principles used for creating the games

- These games were created to be:
 - browser-based
 - easily playable with mouse or touchscreen
 - have scoring, leaderboards and difficulty adjustment for players
 - have instant feedback for the player's answers
 - web responisve



- game logic was programmed using jQuery language
 - questions were stored in JSON format
- initial development, testing, and publishing was done through GitLab system
- player's results are stored and read in the background through Google sheets

Games initial reception

- Glagolitic games have 1,962 submitted results (580 for the quiz and 1,382 for the memory games) and 559 likes on Facebook (187 on the original post, 372 on the shared post)
- sign language alphabet quiz currently has 368 submitted results and 313 likes on Facebook (95 on the original post, 218 on the shared post)
- game for learning Braille has 127 likes (79 on the original post, 48 on the shared post)



