Entries in Croatian Web Dictionary – Mrežnik

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About me

- master of Croatian Language and Literature and Information and Communication Science (Faculty of Humanities and Social Sciences in Zagreb)
- PhD. at the Department of Croatian Language (Croatian philology in intercultural context): Semantic relations in web dictionaries
- currently working on a Mrežnik project at the Institute of Croatian Language and Linguistics

Croatian Web Dictionary – Mrežnik

- 1 March 2017 28 February 2021 Institute of Croatian Language and Linguistics
 - free, monolingual, hypertextual web dictionary of standard Croatian
 - 10,000 most frequent entries from hrWaC (Croatian web corpus)
 - adult native speakers of Croatian
 - goal: 10,000 entries
 - schoolchildren
 - goal: 3,000 entries
 - non-native speakers of Croatian
 - goal: 1,000 entries





Entries

- adult native speakers of Croatian; 10,000 entries (corpus)
 - accentuation of whole paradigm
 - definition
 - corpus-based examples
 - collocations, idioms, normative remark, references (synonyms, antonyms, etc.), possible subentries, links to other content
- schoolchildren; goal: 3,000 entries (extracted from classbooks)
 - place of accent & decomposition into syllables
 - simple definition & examples
 - usage advice
- non-native speakers of Croatian; goal: 1,000 entries
 - pronunciation of lemma
 - definition & simple examples
 - usage advice
 - references

[Barbara] [Domagoj] banana (ban <u>a</u> ne) imenica Rastavljanje na slogove: ba-na-na		
¹ Banana je tropska voćka slična palmi s ukusnim plodovima. Drvo banane voli toplinu i ne podnosi temperature niže od 11 Celzijevih stupnjeva.	-	schoolchildren
² Banana je duguljasti jestivi plod te voćke koji ima debelu žutu koru. sladoled od banane, torta od banane		
Sve:		
banána banana im. ž. (G banáně, DL banáni, A banánu, I banánōm; mn. NA banáne, G banánā, DLI banánama)	ר	
¹ bot. Banana je visoka zeljasta biljka tropskih krajeva nalik na palmu koja ima velike listove i cvjetove skupljene u cvat. Kako je krenula klima i temperature, možda postanu aktualni i nekadašnji planovi vlastodržaca iz pedesetih godina o uzgoju pamuka i kikirikija, a umjesto kukuruza možda se zasade banane. Prije nekoliko godina banane su počele davati plodove; ipak, nikada nisu uspjele sazreti pa Ivica ne ubire plodove. 		
² bot. Banana je duguljasti mesnati i hranjivi plod istoimene biljke obavijen debelom žutom		
korom. - Zato na kraju, za okrepu nakon ronjenja, preporučujem palačinke i limunadu, kolač i sok, vodu i bananu ili barem samo limunadu. - Banane su prepune kalij, koji aktivira izbacivanje vode iz tijela; dobre su i grožđice ili svježe grožđe tijekom ljeta, a i dinja, lubenica, grejp (a i ostali citrusi), brusnice i sve češći gost naših tanjura, slasni avokado. - Odvijte tijesto, premažite ga polovicom nadjeva i na oba duža ruba stavite banane. - Banane ne rastu na drveću, one rastu iz korijenaste strukture koju proizvodi jedna stabljika koja se nalazi iznad tla. Što se s bananom može? dodati je (u ostale sastojke), jesti je, kupiti je, oguliti je, staviti je (na biskvit, na vagu, u blender, u kolač, u mikser, u škrinju), uzeti je, voljeti je Koordinacija: ananas i banane, banana i čokolada, banane i jagode, grožđe i banane, jabuke i banane, kruške i banane, naranče i banane,		adult native speakers of Croatian
[Barbara] [Domagojj banana im. ž. (G banane, D banani, A bananu, L o banani, I s bananom; mn. N banane, G banana, D bananama, A banane, L o bananama, I s bananama) Banana je žuto tropsko voće u obliku bumeranga. - Zelena banana nije ukusna.		
- Banane u Hrvatsku stižu iz Afrike. - Koliko košta kilogram banana? biti u banani žarg. Biti u banani znači biti u problemima. ban <u>a</u> na imenica		non-native speakers of Croatian
Rastavljanje na slogove: ba-na-na		

Publishing and Gamifying Croatian Web Dictionary – Mrežnik











About me



- third year PhD. student at Department of Information and Communication Science
- currently working at Institute of Croatian Language and Linguistics on project Croatian Web Dictionary – Mrežnik
 - web design
 - creating web games and other interactive content for language learning or promoting language contents
 - web dictionary creation
- my PhD title: Conceptual Framework for Gamification of a Croatian Web Dictionary

Dictionary creation

- dictionary Mrežnik is created in TLex (aka TshwaneLex)
 - online demo version of dictionary is published as multiple .html pages that are interconnected (page for every dictionary entry and index page for searching entries)
- web reverse dictionary was also created as an addition
 - works as a single page



Odostražni riečnik Pronaden bros rueči: 1705. Bogorodica ljestvica ravnateliica Pedesetnica ravnica administratorica ravnodnevica admiralica ljubavnica razaračica adolescentica razbijačica advokatica ljubimica razbojnica agentica ljubiteljica razglednica razigravačica agitatorica logorašica razmetljivica razmirica aktivistica

Mrežnik

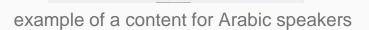
reverse dictionary

Game creation for dictionary

- dictionary will have three separate modules (general, for children, for foreigners) which allows creating many different games for different type of learners
- many different game types which use different gamification elements

(levels, leaderboards ect.)

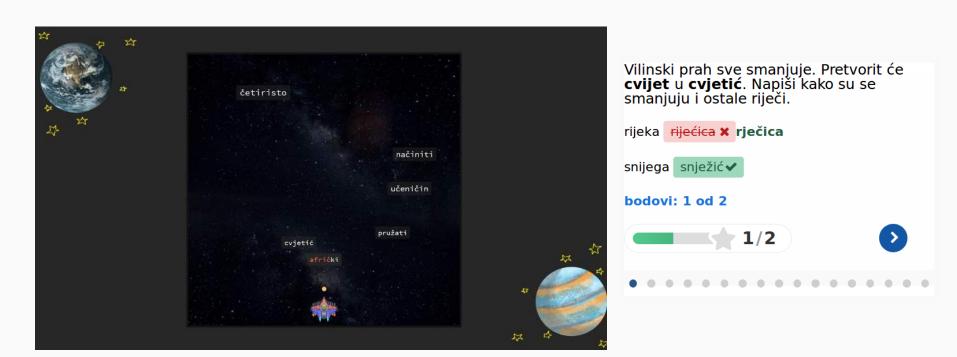
- quizzes
- memory
- crosswords
- tic-tac-toe
- scrabble
- o ect.



اضغط على الكلمة واتطقها مرتبن

- games are created for web browsers
 - most of theme can be played on mobile devices thanks to responsive design

Games for learning spelling



Type the word Fill in the blanks

Games for learning grammar

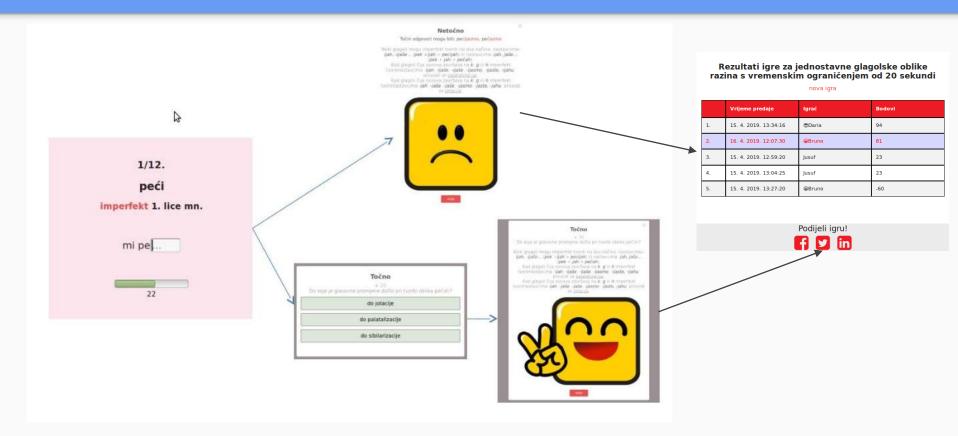




Classification of verbal forms

Quiz with common language mistake

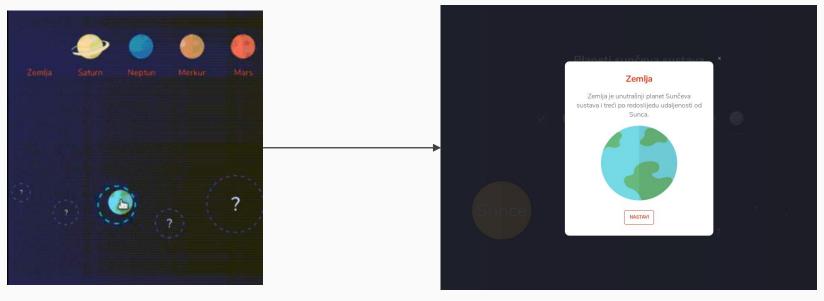
Games for learning grammar



Enter verb forms

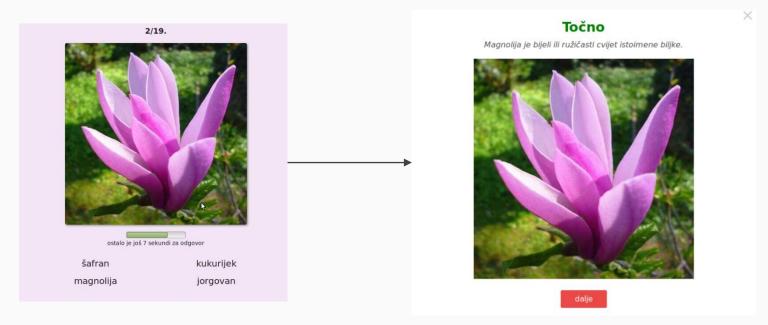
Games for learning word meanings

 drag and drop games for learning and categorizing animals, food, plants, trees etc.

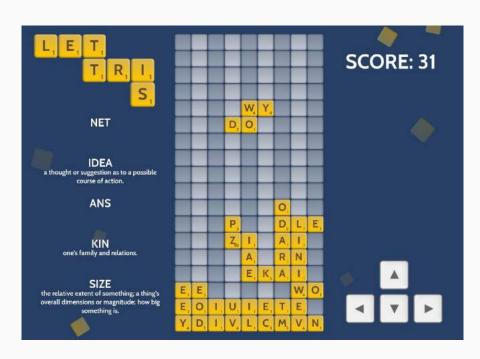


Games for learning word meanings

- quizzes
- in some quizzes players can guess the correct word and then get its definition



Games for finding words



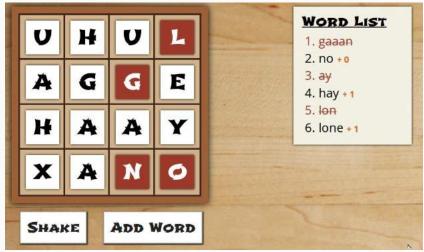
Tetris where you match words



find words in falling blocks

Games for finding words

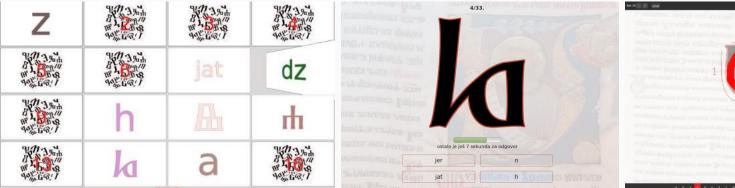




Scrabble Boogle

Games for learning ancient and special alphabet

- games for learning the Glagolitic script
- the oldest known Slavic alphabet (created in 9th century by Saint Cyri)
- it was actively used in Croatia until the middle of the 19th century

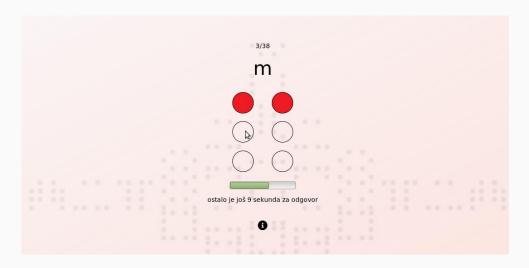




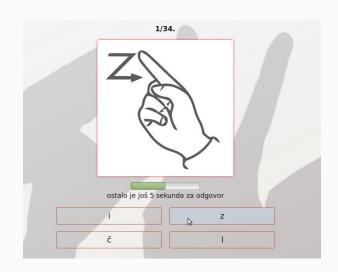
quiz

Games for learning ancient and special alphabet

games for learning Braille and sign language







quiz for sign language

Literature

- Deterding, Sebastian et al. 2011. From Game Design Elements to Gamefulness: Defining Gamification. Proceedings of the 15th International Academic MindTrek Conference: Envisioning Future Media Environments. Ur. Lugmayr, Artur. Association for Computing Machinery. New York.
- Pelling, Nick. The (short) prehistory of "gamification"...Funding Startups (&,other impossibilities).
 https://nanodome.wordpress.com/2011/08/09/the-short-prehistory-of-gamification/ (Retrieved 5 May 2019)
- Strmečki, Daniel; Bernik, Andrija, Radošević, Danijel. 2015. Gamification in E-Learning: Introducing Gamified Design Elements into E-Learning System. *Journal of Computer Sciences*, 11/2. 1108–1109.
- Stjepan Damjanović. 2003. Staroslavenski jezik. Hrvatska sveučilišna naklada. Zagreb.
- Gadžija, Sofija et al. 2014. Hrvatski crkvenoslavenski jezik. Hrvatska sveučilišna naklada, Staroslavenski institut. Zagreb.
- Hudeček, Lana; Mihaljević, Milica. 2017. The Croatian Web Dictionary Project Mrežnik. Electronic lexicography in the 21st century:
 Proceedings of eLex 2017 conference. Lexical Computing CZ s.r.o. Brno.
- Wiazowski, Jaroslaw. 2014. Can Braille Be Revived? A Possible Impact of High-End Braille and Mainstream Technology on the Revival of Tactile Literacy Medium. *Assistive Technology*, 26/4, 227.
- Lewis, M. Paul; Simons, Gary F.; D. Fennig, Charles. 2013. Ethnologue: Languages of the World. SIL International, Dallas
- Ashaari, N. S. et al.. 2016. Gamification Elements for Learning Applications. *International Journal on Advanced Science, Engineering and Information Technology*. 6/6, 868 873.

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Josip Mihaljević, Institute of Croatian Language and Linguistics Introductory School on TEI Graz, 11 May 2019