Lexonomy

Michal Boleslav Měchura, Lexical Computing CZ sro Iztok Kosem, Jozef Stefan Institute



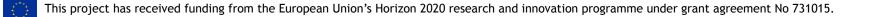
What do lexicographers want from a dictionary writing system?

DELIVERABLE 1.1 LEXICOGRAPHIC PRACTICES IN EUROPE: A SURVEY OF USER NEEDS

- free, online, fast, open-source, browser independent, intuitive, easy to maintain
- interoperability with other resources, operating systems and tools
- API and script support
- real-time collaborative input
- customizability, both in terms of functionalities and interface
- (automatic) data collection, inclusion of media files
- publishing (e.g. print and export functions)



1. Lexonomy demo





1. Lexonomy demo **1.1. Getting started**

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731015.

Welcome to **Lexonomy**, a cloud-based, open-source platform for writing and publishing dictionaries.

Gentle introduction to Lexonomy

A short and sweet guided tour of Lexonomy for beginners.

Introducing Lexonomy: an open-source dictionary writing and publishing system PDF

A conference paper offering a detailed review of Lexonomy's features.

Reference

Měchura, M. B. (2017) 'Introducing Lexonomy: an open-source dictionary writing and publishing system' in *Electronic Lexicography in the 21st Century: Lexicography from Scratch. Proceedings of the eLex 2017 conference, 19-21 September 2017, Leiden, The Netherlands.*

If you are referring to Lexonomy from an academic publication, it is recommended that you cite this paper.



Registered user login Get an account | Forgot your password?

E-mail address

Password

Log in

Other ways to log in

Sign up or log in with



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valselob@gmail.com

Your dictionaries

Czechtionary

Veliki slovensko-madžarski slovar

Wordnet Dictionary of English

두 Create a dictionary

One-Click Dictionary settings

🔅 API key

Sketch Engine login

Your Lexonomy account is linked to your Sketch Engine account mbm.

Link to a different Sketch Engine account »

Welcome to **Lexonomy**, a cloud-based, open-source platform for writing and publishing dictionaries.

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Wordpot Dictionary of English

두 Create a dictionary

One-Click Dictionary settings

🔅 API key

Sketch Engine login

Your Lexonomy account is linked to your Sketch Engine account mbm.

Link to a different Sketch Engine account »

Title

Enter a human-readable title such as "My Esperanto Dictionary". You will be able to change this later.

URL

https://www.lexonomy.eu/zf8d3vgkh

This will be your dictionary's address on the web. You will be able to change this later.

Template

(none)

You can choose a template here to start you off. Each template comes with a few sample entries. You will be able to change or delete those and to customize the template.

 \sim

Create

Title

My Test Dictionary

Enter a human-readable title such as "My Esperanto Dictionary". You will be able to change this later.

URL

https://www.lexonomy.eu/**mytest**

This will be your dictionary's address on the web. You will be able to change this later.

Template

Simple Bilingual Dictionary		~
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Simple Bilingual Dictionary		
	Create	

Your dictionary is ready.

https://www.lexonomy.eu/mytest/

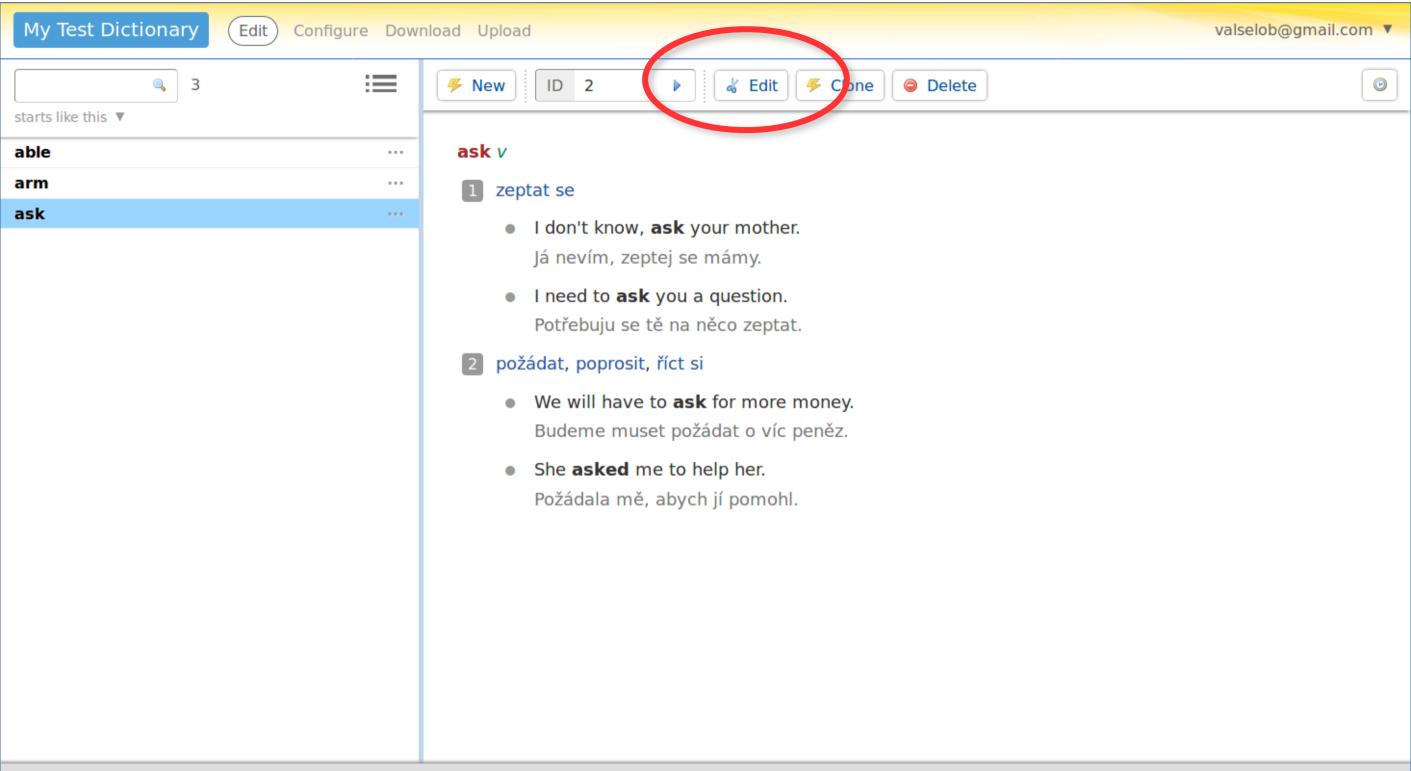


1. Lexonomy demo **1.2. Editing**

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731015.

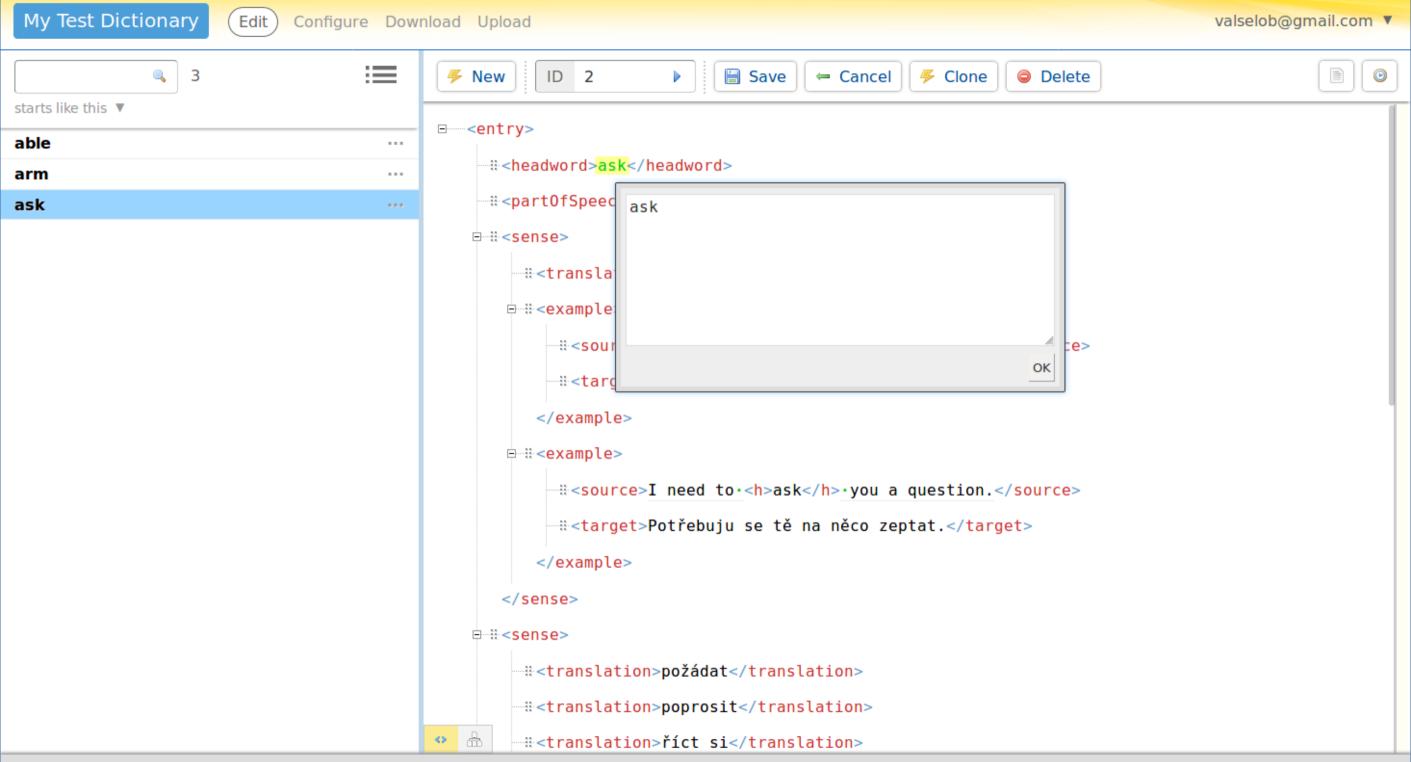
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 I need to ask you a question. Potřebuju se tě na něco zeptat.
2 požádat, poprosit, říct si
 We will have to ask for more money. Budeme muset požádat o víc peněz.
 She asked me to help her. Požádala mě, abych jí pomohl.



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My Test Dictionary
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My Test Dictionary

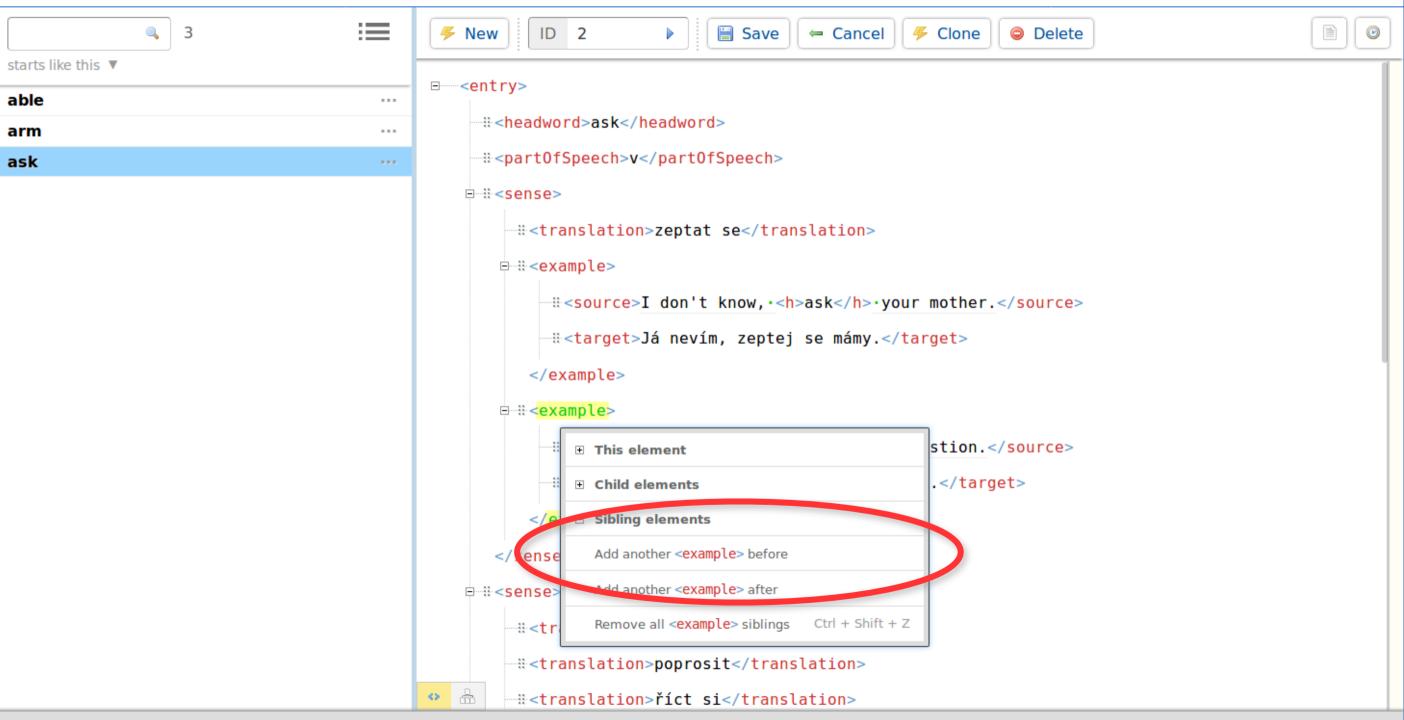
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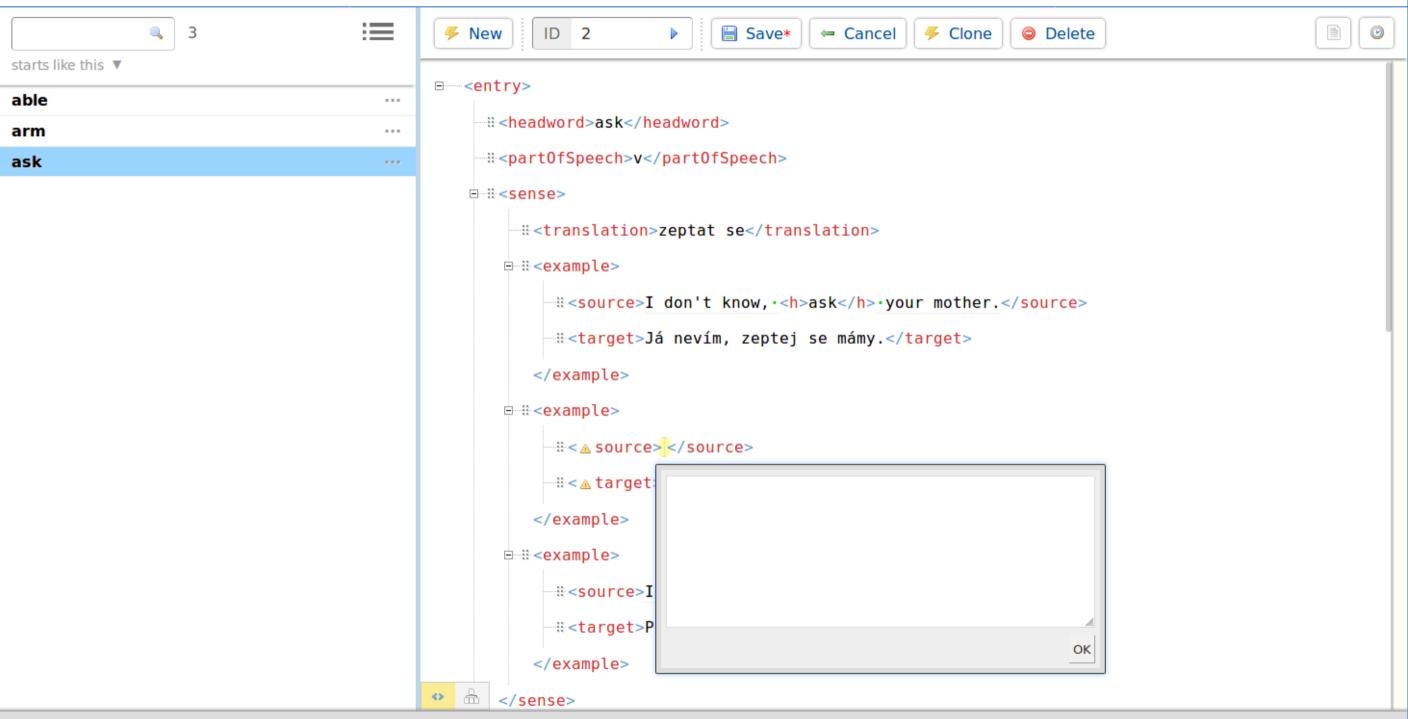
My Test Dictionary

Edit



My Test Dictionary

Edit



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My Test Dictionary
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	⊡-# <example></example>
	<pre>-#<source/>I don't know, <h>ask</h>·your mother.</pre>
	—∺ <target>Já nevím, zeptej se mámy.</target>
	⊡ # <example></example>
	<pre>-#<source/>if you don't know, ask</pre>
	⊡# <example></example>
	<pre>source>I need to.<h>ask</h>.you a question.</pre>
	<pre>#<target>Potřebuju se tě na něco zeptat.</target></pre>
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My Test Dictionary

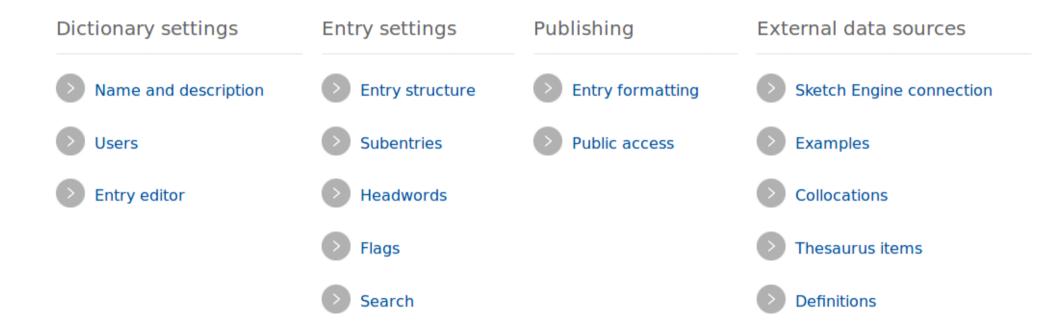
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	⊡-# <sense></sense>		
	<pre>::<translation>zeptat se</translation></pre>		
	⊡-# <example></example>		
	<pre>-#<source/>I don't know, <h>ask</h>·your mother.</pre>		
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	⊡: <example></example>		
	<pre>source>I need to.<h>ask</h>.you a question.</pre>		
	<pre>:-::<target>Potřebuju se tě na něco zeptat.</target></pre>		

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My Test Dictionary
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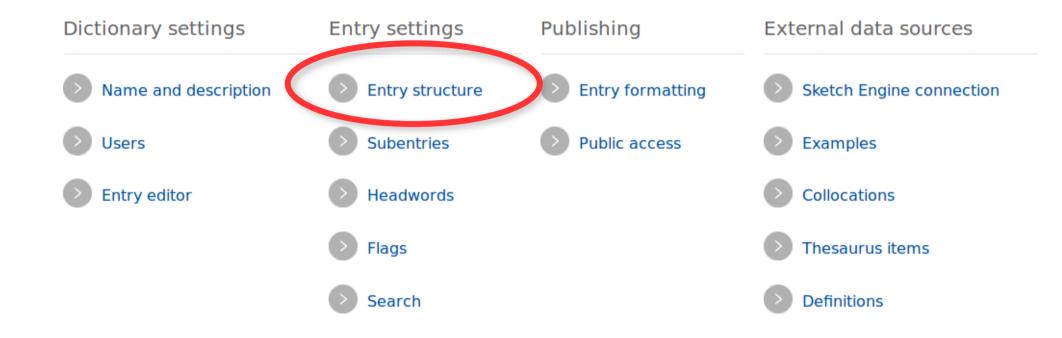
Image: Starts like this ▼	New ID 2 Fave* Cancel Clone Delete
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ask	<pre>art0fSpeech>v</pre>
	⊡
	<pre>#<translation>zeptat se</translation></pre>
	⊡-:‼ <example></example>
	<pre>Source>I don't know, <h>ask</h>·your mother.</pre>
	∺ <target>Já nevím, zeptej se mámy.</target>
	⊡ ·· H < example>
	<pre>#<source/>if you don't know, ask</pre>
	element should have some text.
	E
	<pre>Source>I need to.<h>ask</h>.you a question.</pre>
	<pre>-#<target>Potřebuju se tě na něco zeptat.</target></pre>
	Sense>



1. Lexonomy demo 1.3. Entry schema



Change the dictionary's URL X Delete the dictionary



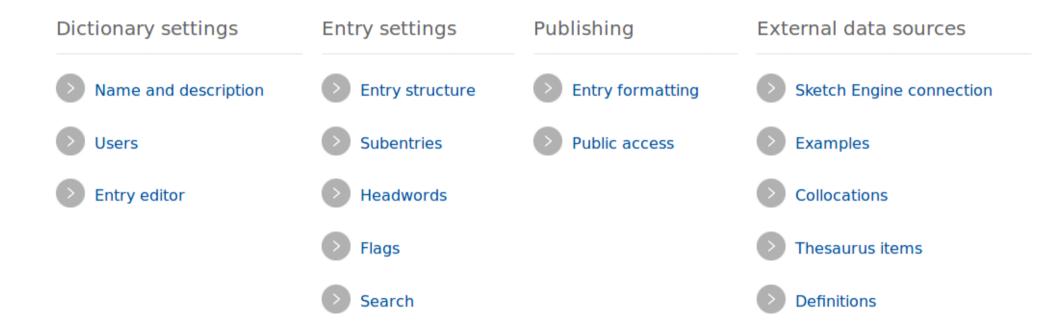
Change the dictionary's URL X Delete the dictionary

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Ready		

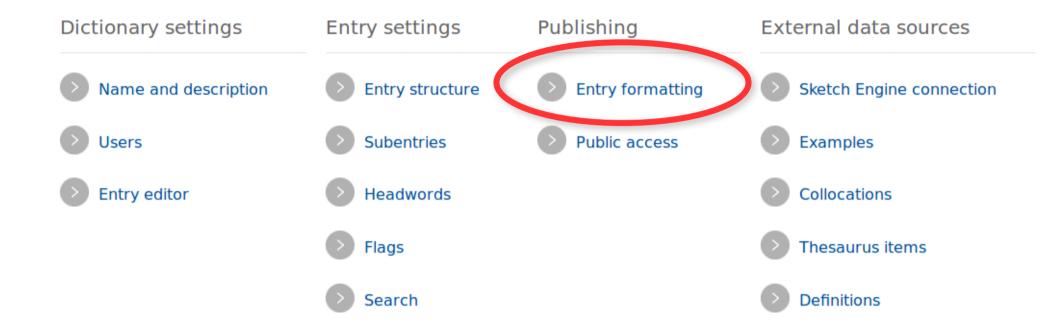
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1. Lexonomy demo **1.4. Entry formatting**



Change the dictionary's URL X Delete the dictionary



Change the dictionary's URL X Delete the dictionary

My Test Dictionary

Edit Configure Entry formatting Download Upload

valselob@gmail.com 🔻

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<pre>entry></pre>	Visibility Shown Hidden Appearance Box border (none) Background colour (none) Outer punctuation (none) Interactivity (none) Label	 Preview Seload random entry arm n paže, ruka You have very long arms . Máš velmi dlouhé ruce. My left arm hurts. Bolí mě pravá paže. 2 zbraň The arms dealer was arrested. Obchodník se zbraněmi byl zatčen.
Ready.		

My Test Dictionary

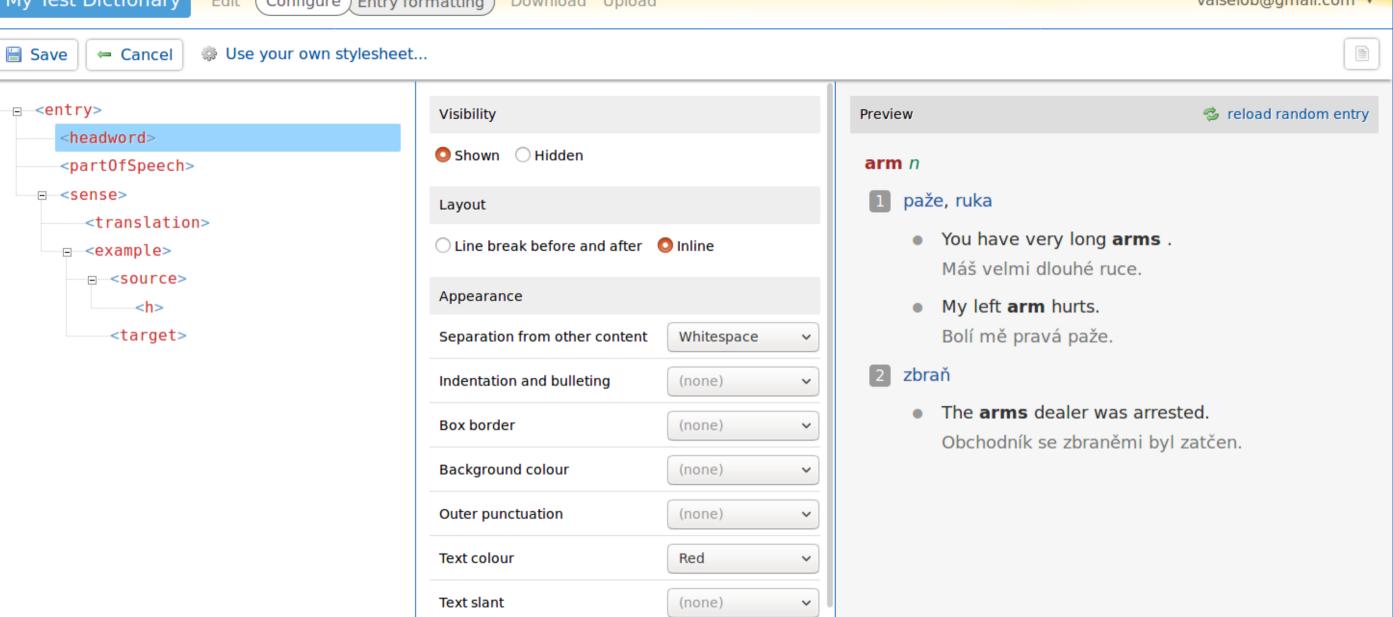
Edit Configure) Entry formatting

Download Upload

Text weight

Inner punctuation

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Bold

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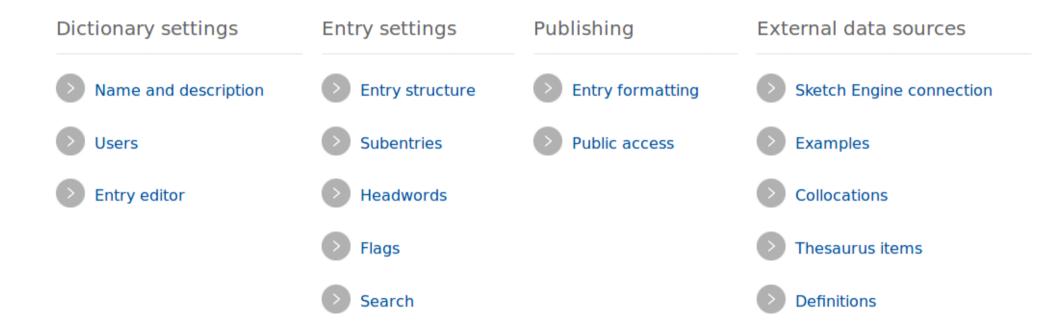
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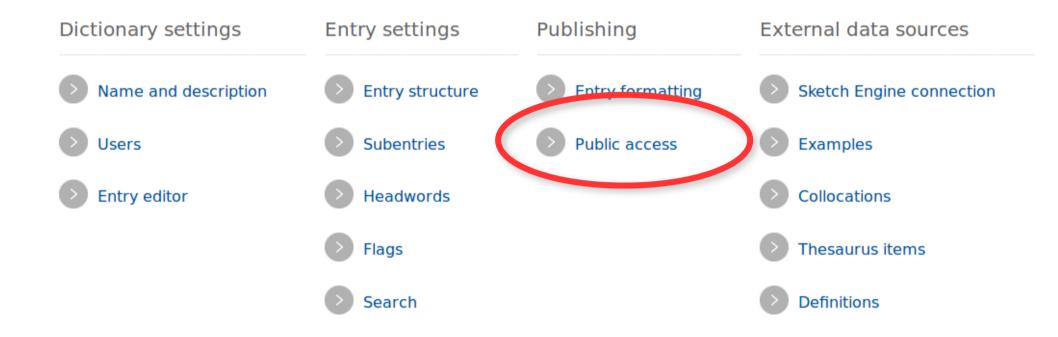


1. Lexonomy demo **1.5. Finishing up**

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731015.



Change the dictionary's URL X Delete the dictionary



My Test Dictionary Edit Configure Public access Download Upload	valselob@gmail.com 🔻
Save ← Cancel	
Access level	
Private O Public	

Private means that the dictionary is not publicly viewable.

v Test Dictionary Edit Configure Public access Download Upload valselob@	gmail.com 🔻
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Licence	
Creative Commons Attribution 4.0 International	

More information about this licence: https://creativecommons.org/licenses/by/4.0/

My Test Dictionary

Q

A sample dictionary produced in Lexonomy.

Ð

action approach back bad base book build business can car centre come company concern cost country cut date death door down draw even example fall family figure form full future general give half in interest large lie main major make might moment money much need number office out part plan point process result round say second sense so stand subject support then there think time turn two view wait war will win woman yes young

My Test Dictionary

My Test Dictionary

ask

Q

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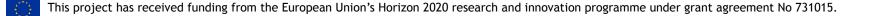
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2. Advanced use cases



2. Advanced use cases 2.1. Using your own schema



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<!ELEMENT Entry (DEnt|FuncWdEnt|AbbrEnt|CpdEnt)>
<!ATTLIST Entry time CDATA #IMPLIED>
<!ATTLIST Entry level CDATA #IMPLIED>
<!ATTLIST Entry proforma CDATA #IMPLIED>
<!ELEMENT DEnt (HwdGp, (SenseCont|XRefCont|MWEBlk), (SenBlk | MWEBlk | PhrVBlk | UsgNoteCont</pre>
XRefCont | SenseCont | RegVarNoteCont)*) >
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FuncWdNoteCont | SenseCont | RegVarNoteCont)*) >
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	Document Type Definitions are a popular formalism for defining the structure of XML documents.	

Your DTD

example

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Schema type

DTD (Document Type Definition)

Document Type Definitions are a popular formalism for defining the structure of XML documents.

Your DTD

<!-- DANTE DTD; version 5 Oct 2010, AK -->

<!ELEMENT Entry (DEnt|FuncWdEnt|AbbrEnt|CpdEnt)> <!ATTLIST Entry time CDATA #IMPLIED> <!ATTLIST Entry level CDATA #IMPLIED> <!ATTLIST Entry proforma CDATA #IMPLIED>

<!ELEMENT DEnt (HwdGp, (SenseCont|XRefCont|MWEBIk), (SenBIk | MWEBIk | PhrVBIk | UsgNoteCont | XRefCont | SenseCont | RegVarNoteCont)*) > <!ATTLIST DEnt encyc (yes) #IMPLIED>

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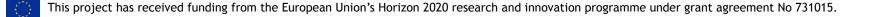
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example

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2. Advanced use cases 2.2. Using your own stylesheet



My Test Dictionary

Edit (Configure) Entry formatting)

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valselob@gmail.com

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Po	otřebuju se tě na něco zeptat.	
2 požádat, poprosit, říct si		

- We will have to **ask** for more money.
 Budeme muset požádat o víc peněz.
- She **asked** me to help her.
 Požádala mě, abych jí pomohl.

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	Box border (none) 🗸	 I don't know, ask your mother. Já nevím, zeptej se mámy. 	
	Background colour (none) Outer punctuation (none)	 I need to ask you a question. Potřebuju se tě na něco zeptat. 	
	Interactivity (none) ~	2 požádat, poprosit, říct si	
	Label	 We will have to ask for more money. Budeme muset požádat o víc peněz. 	

She **asked** me to help her.
 Požádala mě, abych jí pomohl.

My Test Dict	tionary Edit Configure Entry formatting Download Upload	valselob@gmail.com 🔻
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	XSL	example
	CSS	example

valselob@gmail.com 🔻

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XSL

example

<?xml version="1.0" encoding="UTF-8"?> <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"> <xsl:output method="html"/>

<xsl:template match="clanek"> <xsl:if test="not(preceding-sibling::clanek)"> <script type="text/javascript"> <![CDATA[function clanekShowHide(button){

CSS

example

.clanek label {text-decoration: none; background-color: #99ccff; border-radius: 4px; padding: 5px 15px 5px; color: #666666; text-shadow: 1px 1px 0px #ffffff; font-size: .85em; box-shadow: 0px 0px 2px #336699; cursor: pointer; margin-right: 1em; } .clanek label:hover {box-shadow: 0px 0px 4px #666666; } .clanek label:active {box-shadow: 0px 0px 2px #666666; } .clanek label:active {box-shadow: 0px 0px 2px #666666; }

.clanek .audio {display: inline-block; margin: 0 0.15em 0 0.5em; font-size: 0.75em; padding: 1px 6px 3px 6px; position: relative; top: -2px; lineheight: 1em; cursor: pointer; border: 1px solid #dddddd; border-radius: 2px;} clanek_zgled_audio {color: #6666666;}

0

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Abesinija …	bičati ► glagol * * * * *
abstraktno …	🗌 več kolokacij több kollokáció 📃 več zgledov több példamondat
absurd	1 (udarjati z bičem) korbácsol 🕨
absurdnost	bičati se po hrbtu korbácsolja a hátát
adaptacija …	 Razgaljeni in bosi verniki se med procesijo do krvi bičajo po hrbtu, s čimer naj bi se pokorili za svoje grehe.
adolescenca	🕁 A félmeztelen és mezítlábas hívők a körmenet során véresre korbácsolják saját hátukat, így vezekelve
aerodinamičen	bűneikért. 🕨
aerodinamika …	bičati s pasom 🕨 szíjjal korbácsol 🕨
agonija	 Ljudi, ki so bili obsojeni zaradi političnih ali verskih prestopkov, so bičali z usnjenim pasom. Az elítélt politikai vagy vallási szabályszegőket bőrszíjjal korbácsolták.
agraren	
akreditiran	2 (o naravnih pojavih) sújt ▶, lecsap ▶, korbácsol ▶
akuten …	vihar biča 🕨 vihar dühöng 🕨
alergičen …	 Peščeni viharji že milijone let bičajo Zemljo in spreminjajo obličja starih celin. A szélviharok már évmilliók óta sújtják a Földet, és alakítják az öreg kontinensek felületét.
alergija …	bičati obraz 🕨 csapkodja az arcát 🕨
alkohol …	Veje so mi bičale obraz.
alkoholen ····	\leftrightarrow Az ágak az arcomat csapdosták. 🕨
alkoholometer ····	3 (ostro kritizirati) korbácsolja 🕨
alkotest	Umrli pisatelj je neusmiljeno bičal ameriško in tudi britansko politiko.
aluzija …	\leftrightarrow Az elhunyt író kíméletlenül ostorozta az amerikai és a brit politikát. 🕨
ambicija …	
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aerodinamičen		bűneikért. 🕨
aerodinamika		bičati s pasom 🕨 szíjj
agonija		Ljudi, ki so bili obsoj
agraren		↔ Az elítélt politika
akreditiran		bičati se z bičem 🕨 os bičati se z vrvmi 🕨 kö
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aluzija		vihar biča 🕨 vihar dü
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	bičati se po hrbtu 🕨 korbácsolja a hátát 🕨	
	 Razgaljeni in bosi verniki se med procesijo do krvi bičajo po hrbtu, s čimer naj bi se pokorili za svoje grehe. A félmeztelen és mezítlábas hívők a körmenet során véresre korbácsolják saját hátukat, így vezekelve bűneikért. 	
	bičati s pasom 🕨 szíjjal korbácsol 🕨	
	 Ljudi, ki so bili obsojeni zaradi političnih ali verskih prestopkov, so bičali z usnjenim pasom. Az elítélt politikai vagy vallási szabályszegőket bőrszíjjal korbácsolták. 	
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	bičati se z vrvmi 🕨 kötéllel korbácsol 🕨	
	bičati do krvi 🕨 véresre korbácsol 🕨	
	bičati do smrti ▶ halálra korbácsol 🕨	
	bičati se do smrti 🕨 halálra korbácsolja magát 🕨	
2	(o naravnih pojavih) sújt 🕨, lecsap 🕨, korbácsol 🕨	
	orkan biča ▶ lesújt az orkán ▶	
	burja biča 🕨 lesújt a bóra 🕨	
	veter biča 🕨 lecsap a szél 🕨	
	vihar biča 🕨 vihar dühöng 🕨	
	Peščeni viharji že milijone let bičajo Zemljo in spreminjajo obličja starih celin.	
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Veliki slovensko-madžarski slovar

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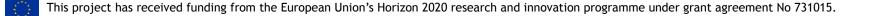
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2. Advanced use cases 2.3. Using your own entry editor



```
My Test Dictionary
```

3	Vew ID 2 F Cancel Concel Concel
able	⊡ <entry></entry>
arm	<pre>::<headword>ask</headword></pre>
ask	<pre></pre>
	⊡
	<pre>#<translation>zeptat se</translation></pre>
	⊡-:: <example></example>
	<pre>Source>I don't know, <h>ask</h>·your mother.</pre>
	∺ <target>Já nevím, zeptej se mámy.</target>
	⊟ # <example></example>
	<pre>source>I need to.<h>ask</h>.you a question.</pre>
	<pre>#<target>Potřebuju se tě na něco zeptat.</target></pre>
	⊡
	<pre>::<translation>požádat</translation></pre>

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	<pre>source I don't know, ⋅ h ask h ⋅your mother.</pre>
	Image:
	■ # example
	source I need to h ask h you a question.
	targetPotřebuju se tě na něco zeptat.
	sense
	# translation požádat
	# translation poprosit
	# translation říct si

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dolfa	
dorn	
Dornfelder	
druhák	
dužina	
fazar	
fazoch	
glivajn	

ID 4

%<nadpis>brázda</nadpis>

#<sek sek="ces">[<hsl>brázda</hsl>.'mez oddělující vinohrady ležící v jedné trati'</sek>
#<sek sek="slk">[<hsl>brázda</hsl>.'mez oddělující vinohrady' (<lit>[<litref>SSN</litref>.1,
157</lit>) – od 18. stol. ("brázda v vinici", srov..<lit>[<litref>HSSJ</litref>.1,
153</lit>)</sek>

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#<sek sek="ost">ve významu 'brázda ve vinohradu' bylo nalezeno také·<zkr>bulh.</zkr> <slv>brazdá</slv>·a·<zkr>srb.</zkr>·a·<zkr>ch.</zkr>·slv>brázda</slv>·(<lit>]<litref>Rj. </litref>·1, 613</litref); v obecném významu 'brázda', příp. jiných specializovaných významech doloženo i v dalších·<zkr>sl.</zkr>·jazycích:·<zkr>pol.</zkr>· <slv>bruzda</slv>,·<zkr>stp.</zkr>·i·<slv>brózda</slv>·(<lit>]<litref>SStp</litref>·1, 167</litref), ·<zkr>hl.</zkr>·slv>brózda</slv>,·<zkr>dl.</zkr>·<slv>brozda</slv>,·<zkr>pom. </zkr>·<slv>brázda</slv>,·<zkr>plb.</zkr>·<slv>brázda</slv>,·<zkr>mk.</zkr>·< <slv>brazda</slv>,·<zkr>plb.</zkr>·<slv>brázda</slv>,·<zkr>mk.</zkr>·< <slv>brazda</slv>,·<zkr>sln.</zkr>·<slv>brázda</slv>,·<zkr>r.</zkr>·<slv>borozdá</slv>,·<zkr>korozdá</slv>,·<zkr>nk.</zkr>·< <slv>brazda</slv>,·<zkr>sln.</zkr>·<slv>brázda</slv>,·<zkr>r.</zkr>·<slv>borozdá</slv>,·</slv>/litref>·1, 40</lit>),·

%<sek sek="ety">původ·<zkr>psl.</zkr>·<hsl>*borzda</hsl>·není zcela jasný; někdy se odvozuje od·<zkr>ie.</zkr>·kořene·<slv>*bherH-</slv>·'ostrý, řezat', jindy se rekonstruuje výchozí forma·<slv>*bhṛs-d(h)-</slv>·a slovo se spojuje se·<<u>A</u>zkr>stind.</zkr>·

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cún	
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dolfa	
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Dornfelder	
druhák	

ČESKY

[[brázda]] 'mez oddělující vinohrady ležící v jedné t	[brázda]]	'mez	oddělující	vinohrady	ležící	v	jedné	trat
---	-----------	------	------------	-----------	--------	---	-------	------

SLOVENSKY

[[brázda]] 'mez oddělující vinohrady' ({SSN 1, 157}) – od 18. stol. ("brázda v vinici", srov. {HSSJ 1, 153})

OSTATNÍ JAZYKY

ve významu 'brázda ve vinohradu' bylo nalezeno také <bulh.> [brazdá] a <srb.> a <ch.> [brázda] ({Rj. 1, 613}); v obecném významu 'brázda', příp. jiných specializovaných významech doloženo i v dalších <sl.> jazycích: <pol.> [bruzda], <stp.> i [brózda] ({SStp 1, 167}), <hl.> [brózda], <dl.> [brozda], <pom.> [brozda], <plb.> [borźă], <mk.> [brazda], <sln.> [brázda], <r.> [borozdá], <ukr.> řídké [bórozdá] ({Žel. 1, 40}), <stsl.> [brazda], vše 'brázda', jsl. dial. také 'zavlažovací kanál'

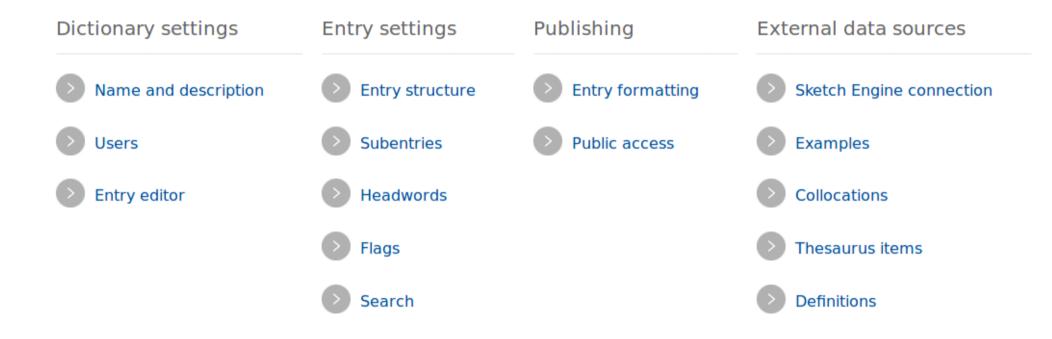
ETYMOLOGIE

původ <psl.> [[*borzda]] není zcela jasný; někdy se odvozuje od <ie.> kořene [*bherH-] 'ostrý, řezat', jindy se rekonstruuje výchozí forma [*bhrs-d(h)-] a slovo se spojuje se <stind.> [bhrští-] 'hrot, ostří', případně se vychází z <ie.> [*bhreg-] 'lámat'; {Machek 1968, 65} považuje za příbuzné <lit.> [biržis] a <lot.> [birze] 'brázda', 'hranice osetého pole' (srov. také {SM 2, 220}, {ESJS 2, 78}, {Derksen 2008, 59}, {Rejzek 2015, 96}, {Králik 2015, 80} aj.)

SÉMANTICKÝ VÝVOJ

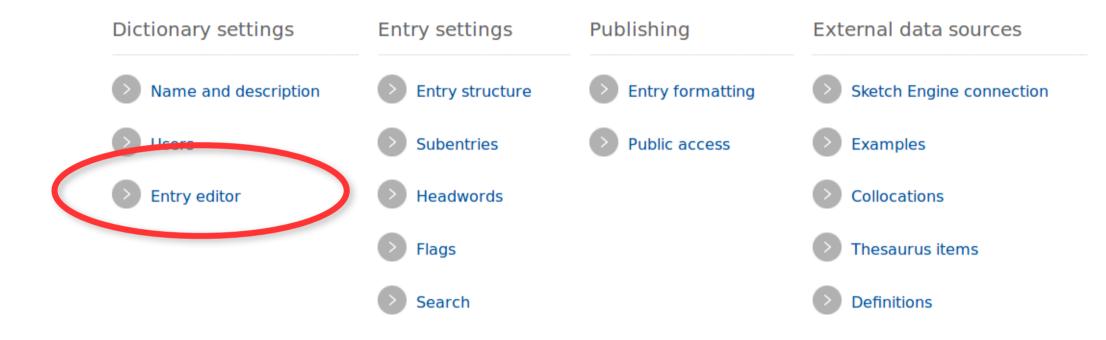
význam 'brázda ve vinohradu' je výsledkem sémantické specializace významu 'brázda, rýha'

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Entry editor

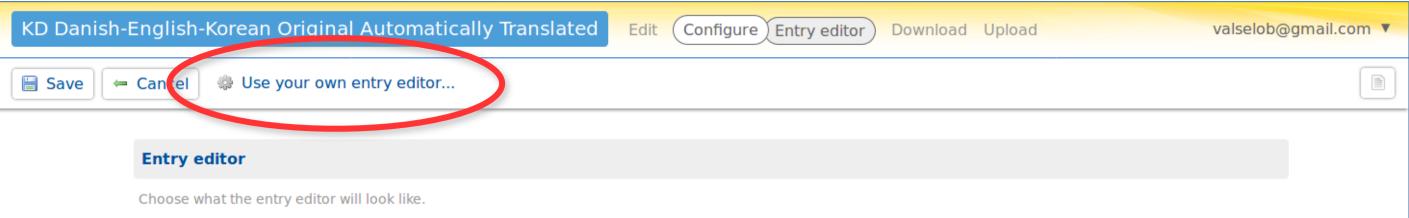
Choose what the entry editor will look like.

Nerd mode O Laic mode

When editing an entry in **nerd mode** the user sees the XML source code, angle brackets and all.



Individual users can overide this setting by clicking an icon in the bottom-left corner of their screen.



Nerd mode O Laic mode

When editing an entry in **nerd mode** the user sees the XML source code, angle brackets and all.



Individual users can overide this setting by clicking an icon in the bottom-left corner of their screen.

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CSS	i			example

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🗎 Save 📔 🖛 Cancel 🛛 😆 Stop using your own entry editor...

JavaScript

example

editor: function(div, entry, uneditable){ //div = the div into which you should render the editor //entry.id = the entry ID (a number, eg. 123), or zero if new entry //entry.content = the entry's XML source code, eg. "<entry></headword>hello</headword></entry>" //uneditable = true if we want the entry to be uneditable (read-only) this.uneditable=uneditable; var \$into=\$("<div class='myEditor'></div>").appendTo(div); var doc=\$ parseXMI (entry content).

Edit

CSS

example

div.myEditor { font-family: sans-serif; font-size: 1rem; line-height: 2em; padding-top: 10px; }
div.myEditor span.elementNode { display: inline; }
div.myEditor span.attributeNode { display: none; }
div.myEditor span.textNode { display: inline; }

div.myEditor span.elementNode.status {display: block; margin-bottom: 1em; background-color: #eeeeee; padding: 5px;} div.myEditor span.elementNode.status label {cursor: pointer; margin-right: 1em;} div.myEditor span.elementNode.status input {cursor: pointer; position: relative; top: 2px;}



2. Advanced use cases 2.4. Keyboard navigation

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731015.

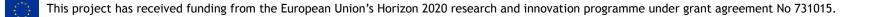
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ano	□-: * <translationcontainer></translationcontainer>
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2. Advanced use cases 2.5. Entry status

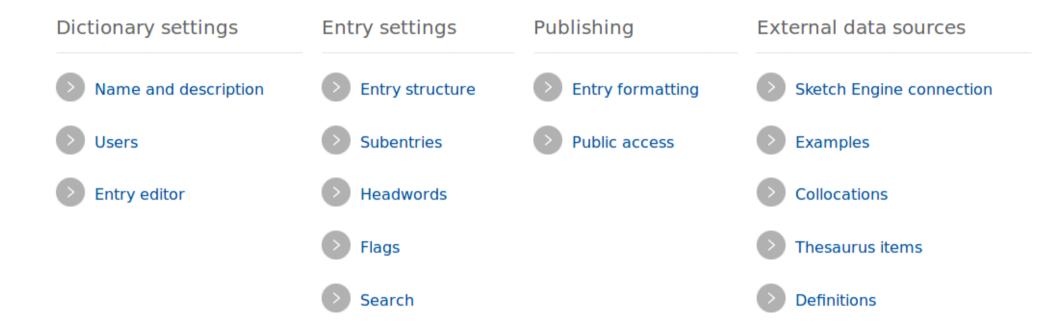


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babička …	□-# <translationgroup></translationgroup>
balík …	□-# <translationcontainer></translationcontainer>
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Ready.	<pre></pre>

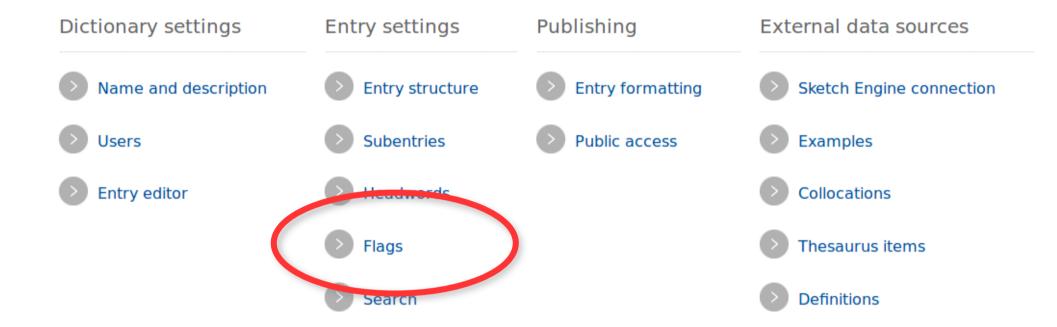
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😑 báseň 🤐	

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Change the dictionary's URL X Delete the dictionary

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Flag element

status

Select the element which the flags should be put into.

Flags

Add...

Keyboard shortcut	Value	Label	Color	
n	new	new	#ffffff	×
P	in-progress	in progress	#ff0000	×
F	finished	finished	#2fa16c	×

Specify flags to be used when a keyboard shortcut is pressed in the entry list. The respective value will be put into the entry flag element accordingly.



3. About Lexonomy

Welcome to **Lexonomy**, a cloud-based, open-source platform for writing and publishing dictionaries.

Gentle introduction to Lexonomy

A short and sweet guided tour of Lexonomy for beginners.

Introducing Lexonomy: an open-source dictionary writing and publishing system PDF

A conference paper offering a detailed review of Lexonomy's features.

Reference

Měchura, M. B. (2017) 'Introducing Lexonomy: an open-source dictionary writing and publishing system' in *Electronic Lexicography in the 21st Century: Lexicography from Scratch. Proceedings of the eLex 2017 conference, 19-21 September 2017, Leiden, The Netherlands.*

If you are referring to Lexonomy from an academic publication, it is recommended that you cite this paper.



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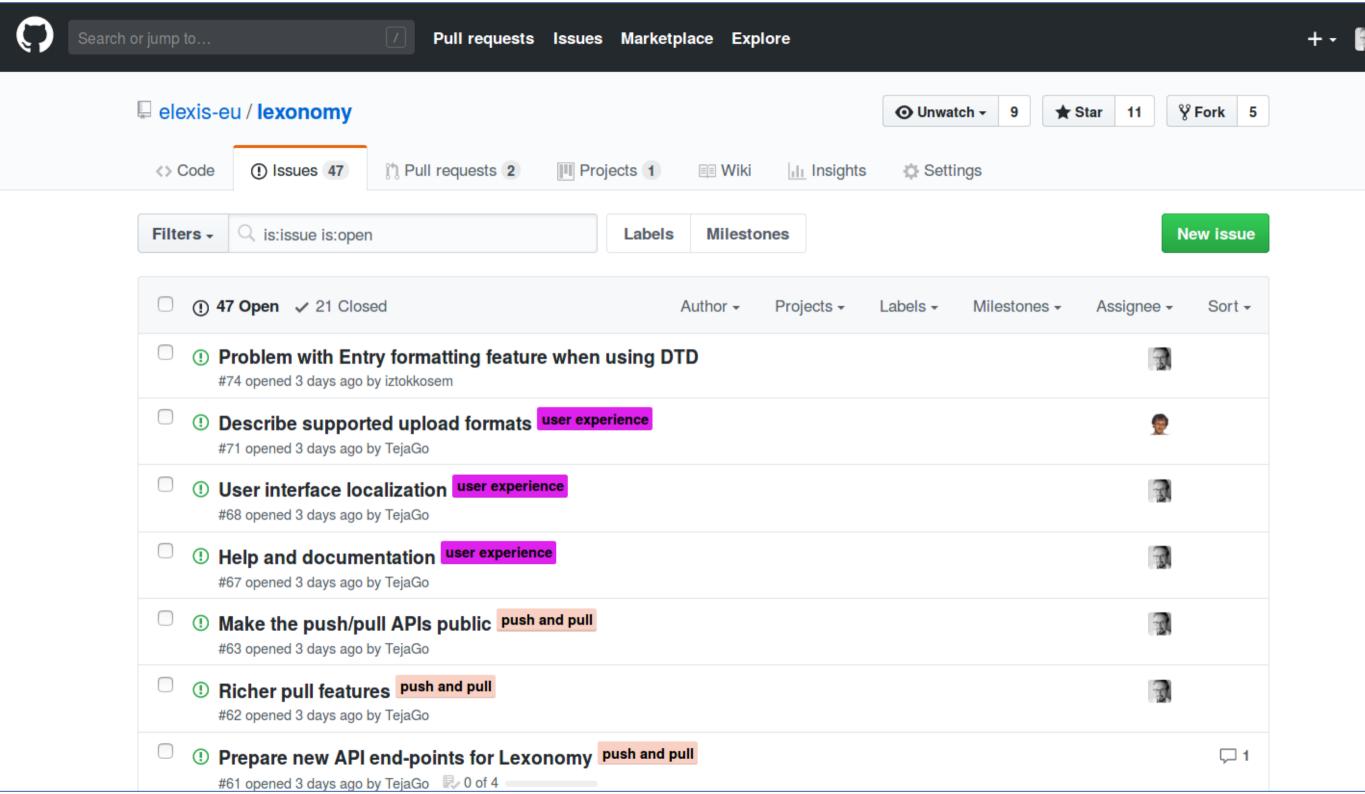
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The end.

Questions? Talk to us at the booth!

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