DEB II – Dictionary Writing Systems Platform

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Outline

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Introduction

- platform for dictionary writing systems development
  - basically any XML data
- strict client-server architecture
- server
  - server side functionality
  - database backend
- client
  - only simple functionality
  - graphical interfaces
  - web interfaces

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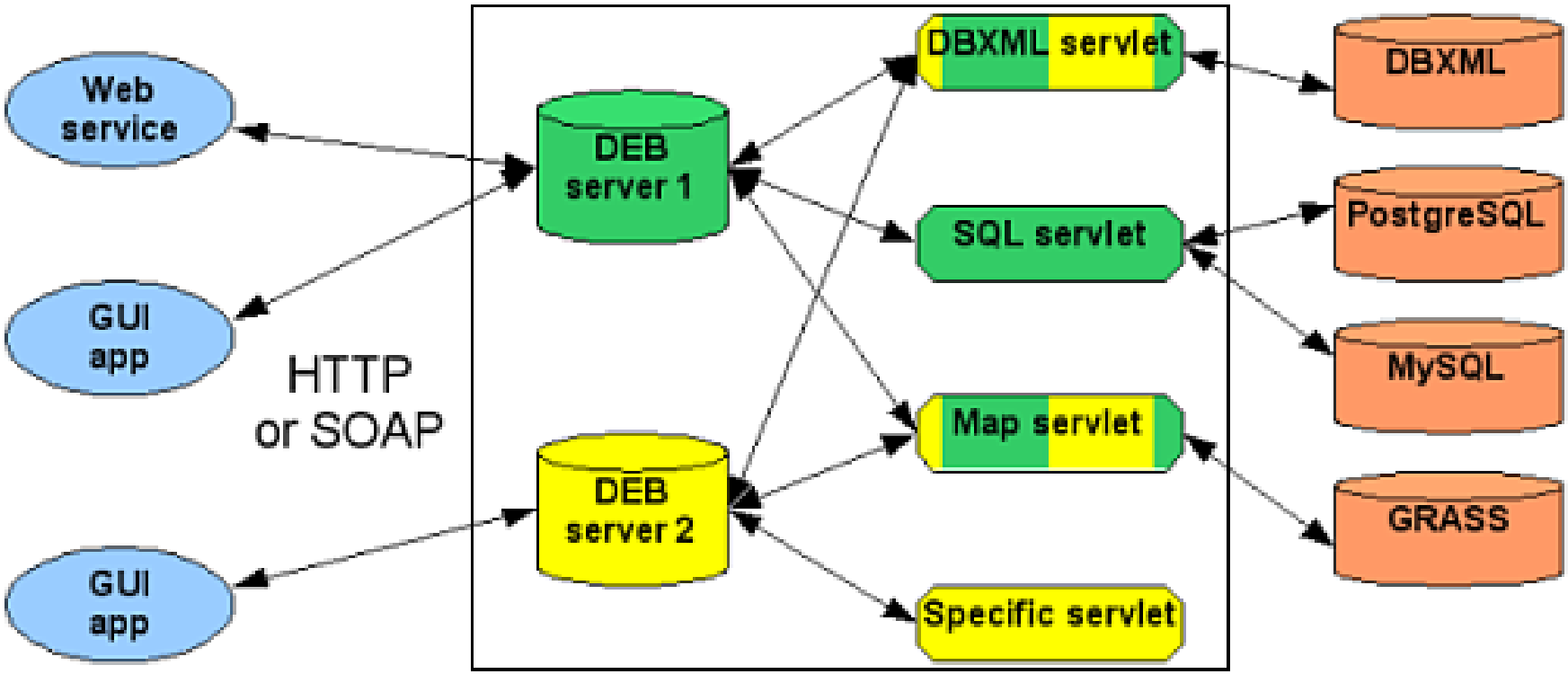

DEB uses AJAX-like communication

Server side

- database backend – Berkeley DB XML
  - native XML database
  - supports XPath and XQuery
- implemented in Ruby programming language
  - object-oriented, interpreted
- built from small parts, called *servlets*
  - each servlet provides single service
  - allows a modular composition of all services
- HTTP communication with JSON for data structures

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Current servlets

- generic document servlet
  - serves data from a DB XML container
  - supports querying the database
  - fetching individual documents
  - storage of documents
  - XSLT transformation of the output
- SQL servlet
  - provides interface to data in PostgreSQL (or other) database
- project-specific servlets
- GRASS servlet
  - interface to GRASS GIS, used for map generation

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- client applications mostly oriented to the graphical user interfaces (GUI)
- Mozilla platform provides complete tools for software development
  - Firefox, Thunderbird, Netscape, Nvu
- clear separation between application logic and definition, presentation and language-specific texts
- simple application design
- work on many operating systems
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- *XUL* – XML User-interface Language
  - mark-up language for GUI design
- *CSS* – Cascading Style Sheets
  - graphic appearance of the application
- *JavaScript*
  - programming language for application logic
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Assets of DEB Platform

- data stored on the server
- functionality mostly on the server, lightweight clients
- good team cooperation
- authentication and authorization tools provided by the server
- different interfaces over the same data structure, reusable by many clients
- homogeneity of the data structure and presentation

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DEBDict

Simple DEB client demonstrating several basic functions of the system

- available as installable package or web-service
- multilingual user interface (English, Czech, others can be easily added)
- queries to several XML dictionaries (of different underlying structure) with the result passed through an XSLT transformation
- connection to Czech morphological analyzer
- connection to an external website (Google, Answers.com)
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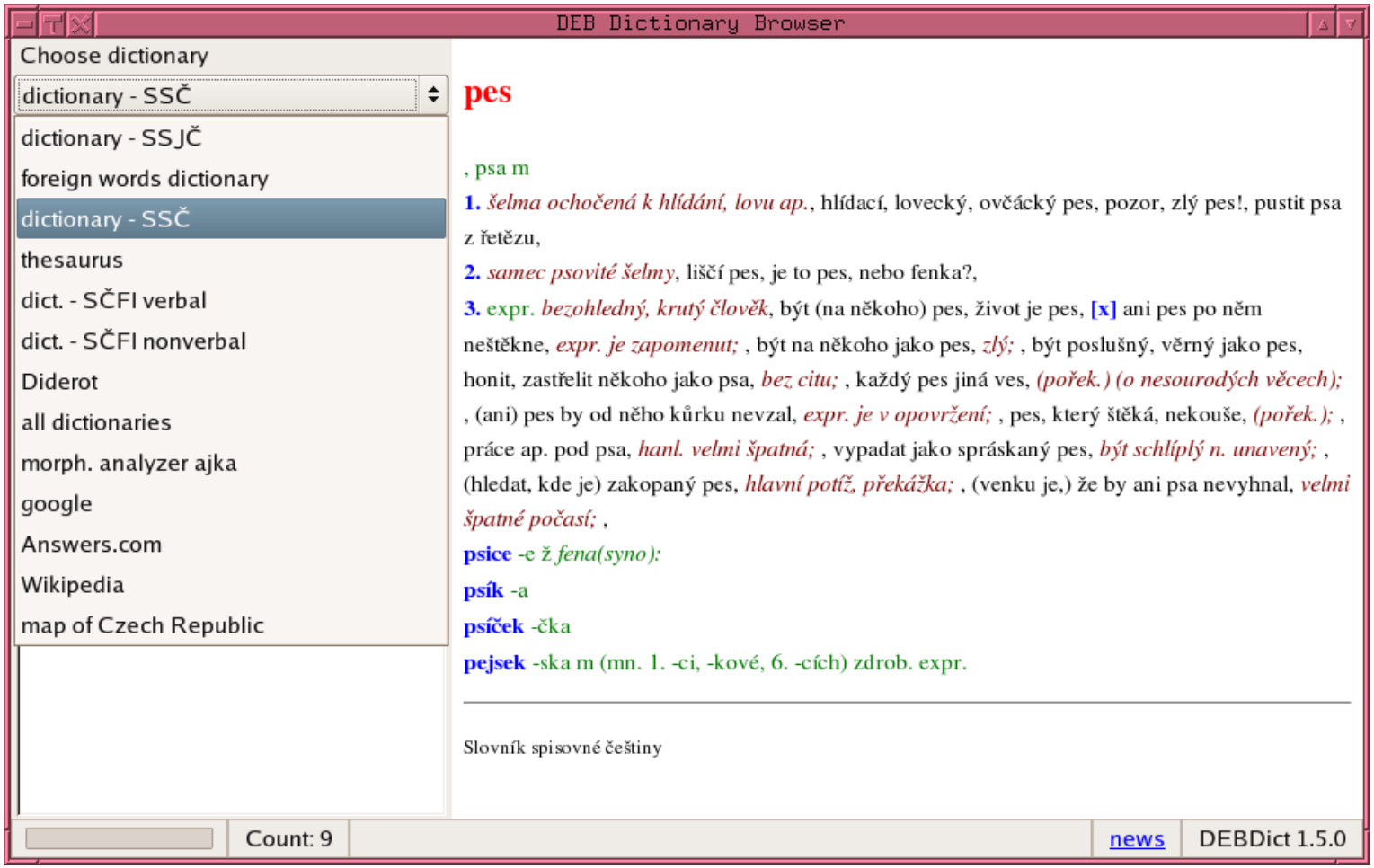
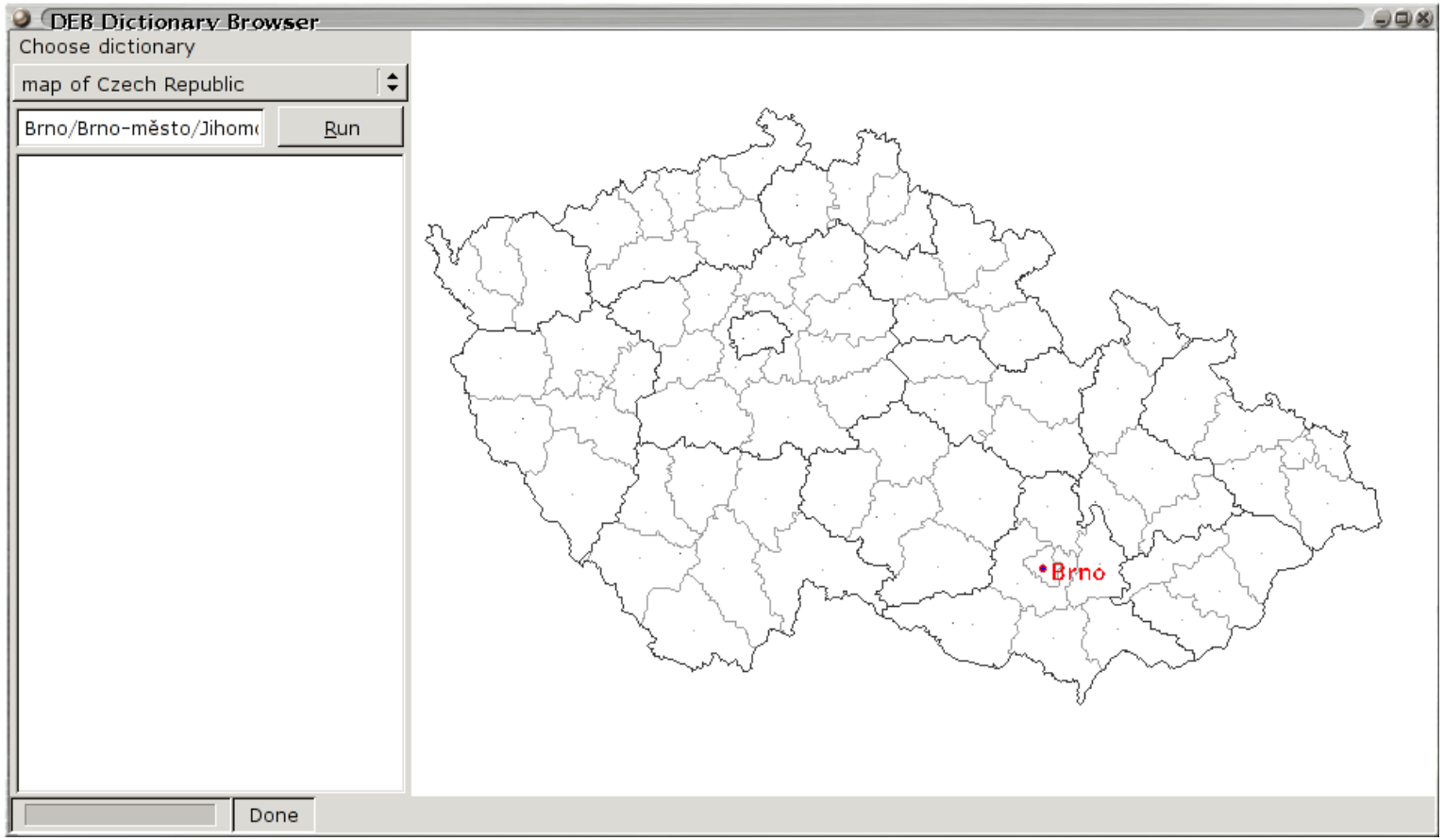
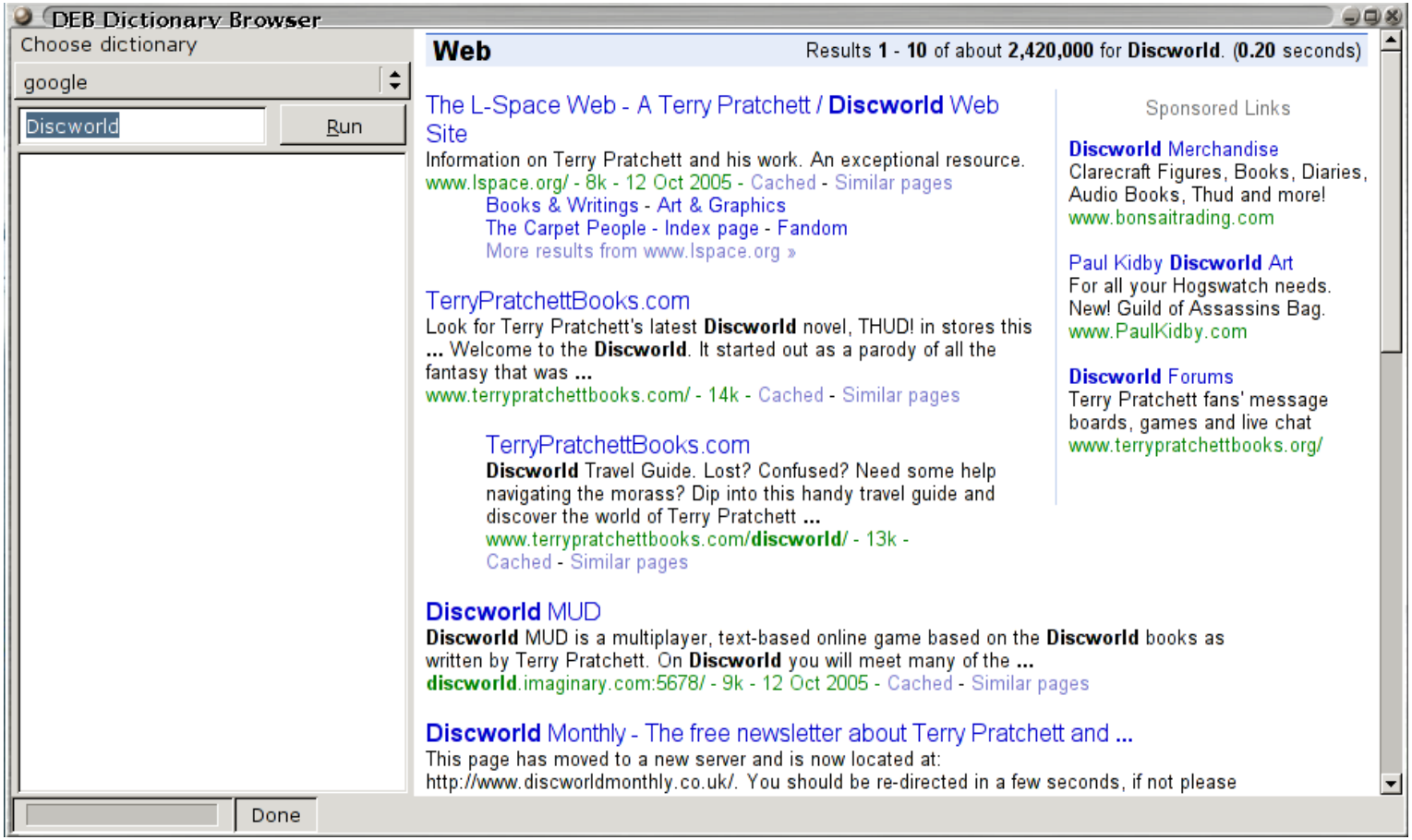

DEB Dictionary Browser
Choose dictionary
dictionary - SSČ
dictionary - SSJČ
foreign words dictionary
dictionary - SSČ
thesaurus
dict. - SČFI verbal
dict. - SČFI nonverbal
Diderot
all dictionaries
morph. analyzer ajka
google
Answers.com
Wikipedia
map of Czech Republic
pes
, psa m
1. šelma ochočená k hlídání, lovu ap., hlídací, lovecký, ovčácký pes, pozor, zlý pes!, pustit psa z řetězu,
2. samec psovité šelmy, liščí pes, je to pes, nebo fenka?,
3. expr. bezohledný, krutý člověk, být (na někoho) pes, život je pes, [x] ani pes po něm neštěkne, expr. je zapomenut; , být na někoho jako pes, zlý; , být poslušný, věrný jako pes, honit, zastřelit někoho jako psa, bez citu; , každý pes jiná ves, (pořek.) (o nesourodých věcech); , (ani) pes by od něho kůrku nevzal, expr. je v opovržení; , pes, který štěká, nekouše, (pořek.); , práce ap. pod psa, hanl. velmi špatná; , vypadat jako spráskaný pes, být schlíplý n. unavený; , (hledat, kde je) zakopaný pes, hlavní potíž, překážka; , (venku je,) že by ani psa nevyhnal, velmi špatné počasí; ,
psice -e ž fena(syno):
psík -a
psíček -čka
pejsek -ska m (mn. 1. -ci, -kové, 6. -cích) zdrob. expr.
Slovník spisovné češtiny
Count: 9
news
DEBDict 1.5.0


DEB Dictionary Browser
Choose dictionary
map of Czech Republic
Brno/Brno-město/Jihom
Run
Brno
Done


DEB Dictionary Browser
Choose dictionary
google
Discworld
Run
Done
Web
Results 1 - 10 of about 2,420,000 for Discworld. (0.20 seconds)
The L-Space Web - A Terry Pratchett / Discworld Web Site
Information on Terry Pratchett and his work. An exceptional resource.
www.lspace.org/ - 8k - 12 Oct 2005 - Cached - Similar pages
Books & Writings - Art & Graphics
The Carpet People - Index page - Fandom
More results from www.lspace.org »
TerryPratchettBooks.com
Look for Terry Pratchett's latest Discworld novel, THUD! in stores this ... Welcome to the Discworld. It started out as a parody of all the fantasy that was ...
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Discworld MUD
Discworld MUD is a multiplayer, text-based online game based on the Discworld books as written by Terry Pratchett. On Discworld you will meet many of the ...
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This page has moved to a new server and is now located at:
http://www.discworldmonthly.co.uk/. You should be re-directed in a few seconds, if not please
Sponsored Links
Discworld Merchandise
Clarecraft Figures, Books, Diaries, Audio Books, Thud and more!
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Paul Kidby Discworld Art
For all your Hogswatch needs. New! Guild of Assassins Bag.
www.PaulKidby.com
Discworld Forums
Terry Pratchett fans' message boards, games and live chat
www.terrypratchettbooks.org/

DEBVisDic

- reimplementation of semantic networks editor – VisDic (for wordnet-like databases)
- contains all the main features present in VisDic
- client-server architecture
- new windowed interface
- connection to other resources (e.g. morphological analyzer, dictionaries)
- connection of other existing applications to the DEB wordnet server (e.g. VisualBrowser)

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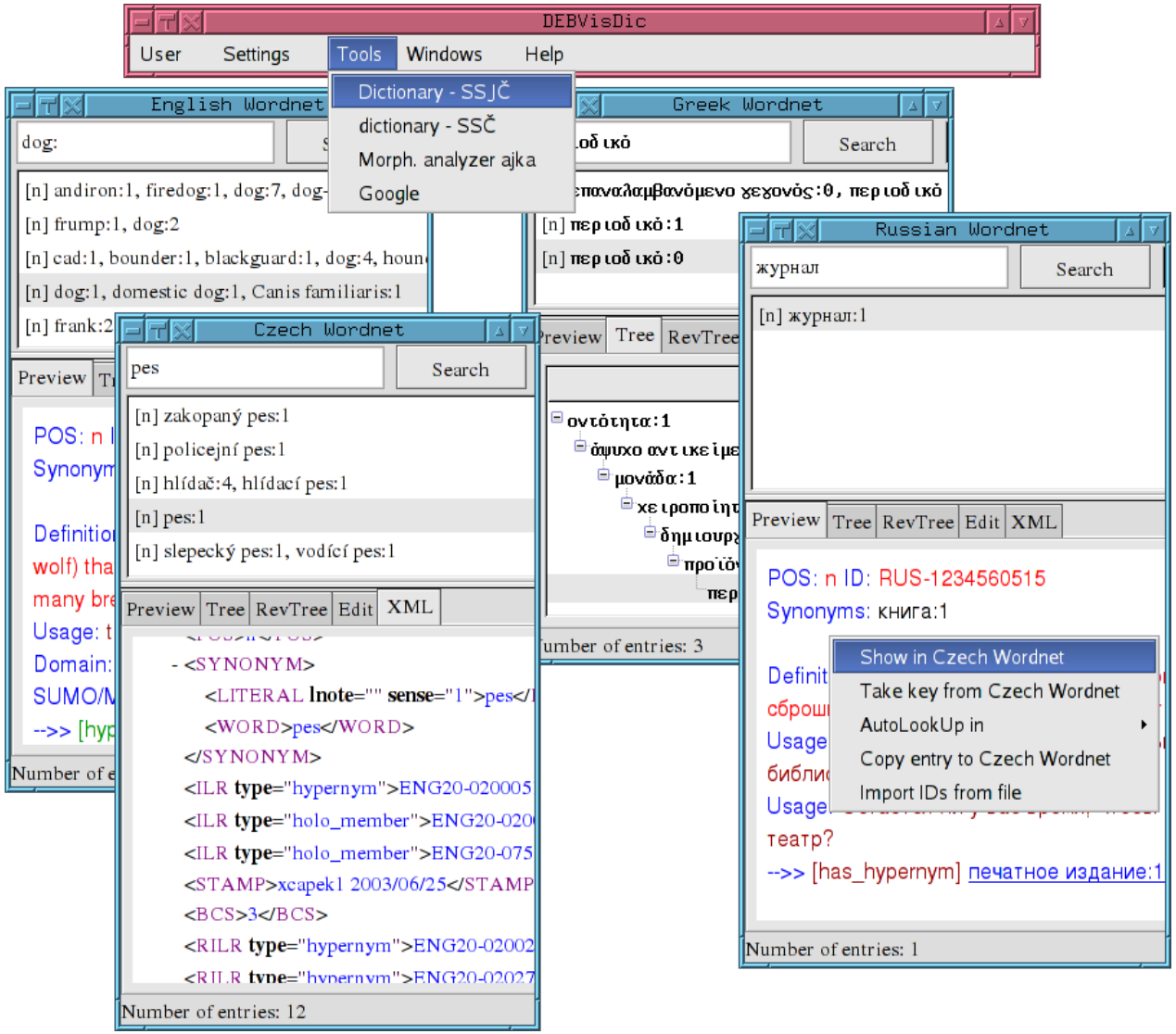
DEBVisDic
User
Settings
Tools
Windows
Help
Dictionary - SSJČ
dictionary - SSČ
Morph. analyzer ajka
Google
English Wordnet
dog:
[n] andiron:1, firedog:1, dog:7, dog-
[n] frump:1, dog:2
[n] cad:1, bounder:1, blackguard:1, dog:4, houn
[n] dog:1, domestic dog:1, Canis familiaris:1
[n] frank:2
Preview
POS: n
Synonym
Definitio
wolf) tha
many bre
Usage: t
Domain:
SUMO/M
-->> [hyp
Number of e
Greek Wordnet
Search
[n] περιοδικό:1
[n] περιοδικό:0
Preview
Tree
RevTree
umber of entries: 3
Czech Wordnet
pes
Search
[n] zakopaný pes:1
[n] policejní pes:1
[n] hlídač:4, hlídací pes:1
[n] pes:1
[n] slepecký pes:1, vodící pes:1
Preview
Tree
RevTree
Edit
XML
- <SYNONYM>
<LITERAL lnote="" sense="1">pes</
<WORD>pes</WORD>
</SYNONYM>
<ILR type="hypernym">ENG20-020005
<ILR type="holo_member">ENG20-020
<ILR type="holo_member">ENG20-075
<STAMP>xcapek1 2003/06/25</STAMP
<BCS>3</BCS>
<RILR type="hypernym">ENG20-02002
Number of entries: 12
Russian Wordnet
журнал
Search
[n] журнал:1
Preview
Tree
RevTree
Edit
XML
POS: n ID: RUS-1234560515
Synonyms: книга:1
Show in Czech Wordnet
Take key from Czech Wordnet
AutoLookUp in
Copy entry to Czech Wordnet
Import IDs from file
театр?
-->> [has_hypernym] печатное издание:1
Number of entries: 1

PRALED – Prague Lexical Database of Czech

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- preparation of new comprehensive and exhaustive database of lexicographic information for Czech language – Czech lexical database, CLD

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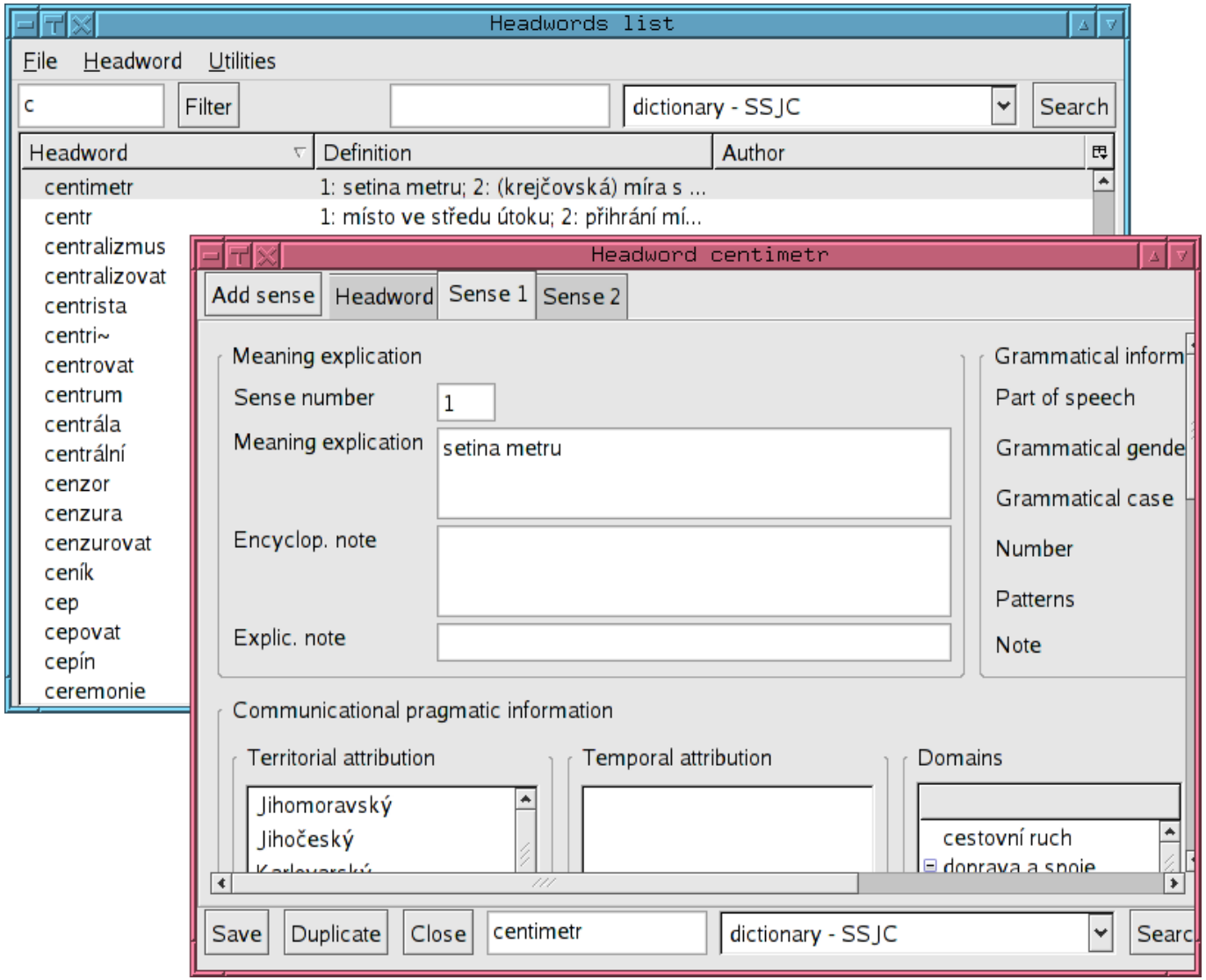
Headwords list
File
Headword
Utilities
c
Filter
dictionary - SSJC
Search
Headword
Definition
Author
centimetr
1: setina metru; 2: (krejčovská) míra s ...
centr
1: místo ve středu útoku; 2: přihrání mí...
centralizmus
centralizovat
centrista
centri~
centrovat
centrum
centrála
centrální
cenzor
cenzura
cenzurovat
ceník
cep
cepovat
cepín
ceremonie
Headword centimetr
Add sense
Headword
Sense 1
Sense 2
Meaning explication
Sense number
1
Meaning explication
setina metru
Encyclop. note
Explic. note
Grammatical inform
Part of speech
Grammatical gende
Grammatical case
Number
Patterns
Note
Communicational pragmatic information
Territorial attribution
Jihomoravský
Jihočeský
Temporal attribution
Domains
cestovní ruch
Save
Duplicate
Close
centimetr
dictionary - SSJC
Searc

Czech Onomastic Dictionary

- developed for the linguists in the Institute of Czech Language
- prepare electronic data for new Czech dictionary of proper nouns, their origins and toponyms

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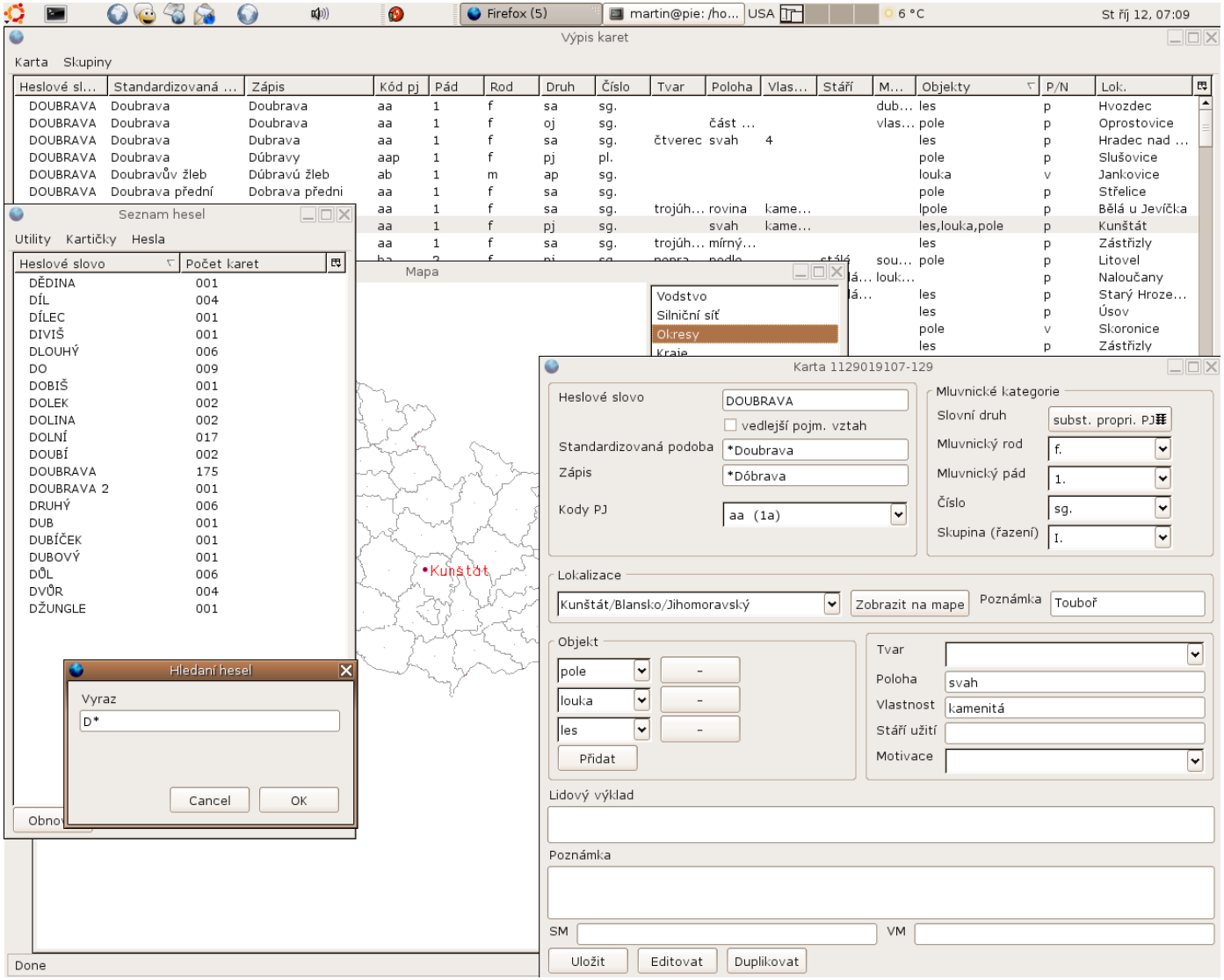
Firefox (5)
martin@pie: /ho...
USA
6 °C
St říj 12, 07:09
Výpis karet
Karta Skupiny
Heslové sl... Standardizovaná ... Zápis Kód pj Pád Rod Druh Číslo Tvar Poloha Vlas... Stáří M... Objekty P/N Lok.
DOUBRAVA Doubrava Doubrava aa 1 f sa sg. dub... les p Hvozdec
DOUBRAVA Doubrava Doubrava aa 1 f oj sg. část ... vlas... pole p Oprostovice
DOUBRAVA Doubrava Dubrava aa 1 f sa sg. čtverec svah 4 les p Hradec nad ...
DOUBRAVA Doubrava Dúbravy aap 1 f pj pl. pole p Slušovice
DOUBRAVA Doubravův žleb Dúbravú žleb ab 1 m ap sg. louka v Jankovice
DOUBRAVA Doubrava přední Dobrava přední aa 1 f sa sg. pole p Střelice
aa 1 f sa sg. trojúh... rovina kame... lpole p Bělá u Jevíčka
aa 1 f pj sg. svah kame... les,louka,pole p Kunštát
aa 1 f sa sg. trojúh... mírný... les p Zástřizly
pole p Litovel
louk... p Naloučany
p Starý Hroze...
les p Úsov
pole v Skoronice
les p Zástřizly
Seznam hesel
Utility Kartičky Hesla
Heslové slovo Počet karet
DĚDINA 001
DÍL 004
DÍLEC 001
DIVIŠ 001
DLOUHÝ 006
DO 009
DOBIŠ 001
DOLEK 002
DOLINA 002
DOLNÍ 017
DOUBÍ 002
DOUBRAVA 175
DOUBRAVA 2 001
DRUHÝ 006
DUB 001
DUBÍČEK 001
DUBOVÝ 001
DŮL 006
DVŮR 004
DŽUNGLE 001
Obnov
Hledání hesel
Vyraz
D*
Cancel
OK
Mapa
Vodstvo
Silniční síť
Okresy
Kraje
Kunštát
Karta 1129019107-129
Heslové slovo DOUBRAVA
vedlejší pojm. vztah
Standardizovaná podoba *Doubrava
Zápis *Dóbrava
Kody PJ aa (1a)
Mluvnické kategorie
Slovní druh subst. propri. PJ
Mluvnický rod f.
Mluvnický pád 1.
Číslo sg.
Skupina (řazení) I.
Lokalizace
Kunštát/Blansko/Jihomoravský
Zobrazit na mape
Poznámka Touboř
Objekt
pole
louka
les
Přidat
Tvar
Poloha svah
Vlastnost kamenitá
Stáří užití
Motivace
Lidový výklad
Poznámka
SM
VM
Uložit
Editovat
Duplikovat
Done

VisualBrowser

- Java application that can visualize the data in RDF scheme, not a DEB client
- connection to DEB server and visualization of WordNet data

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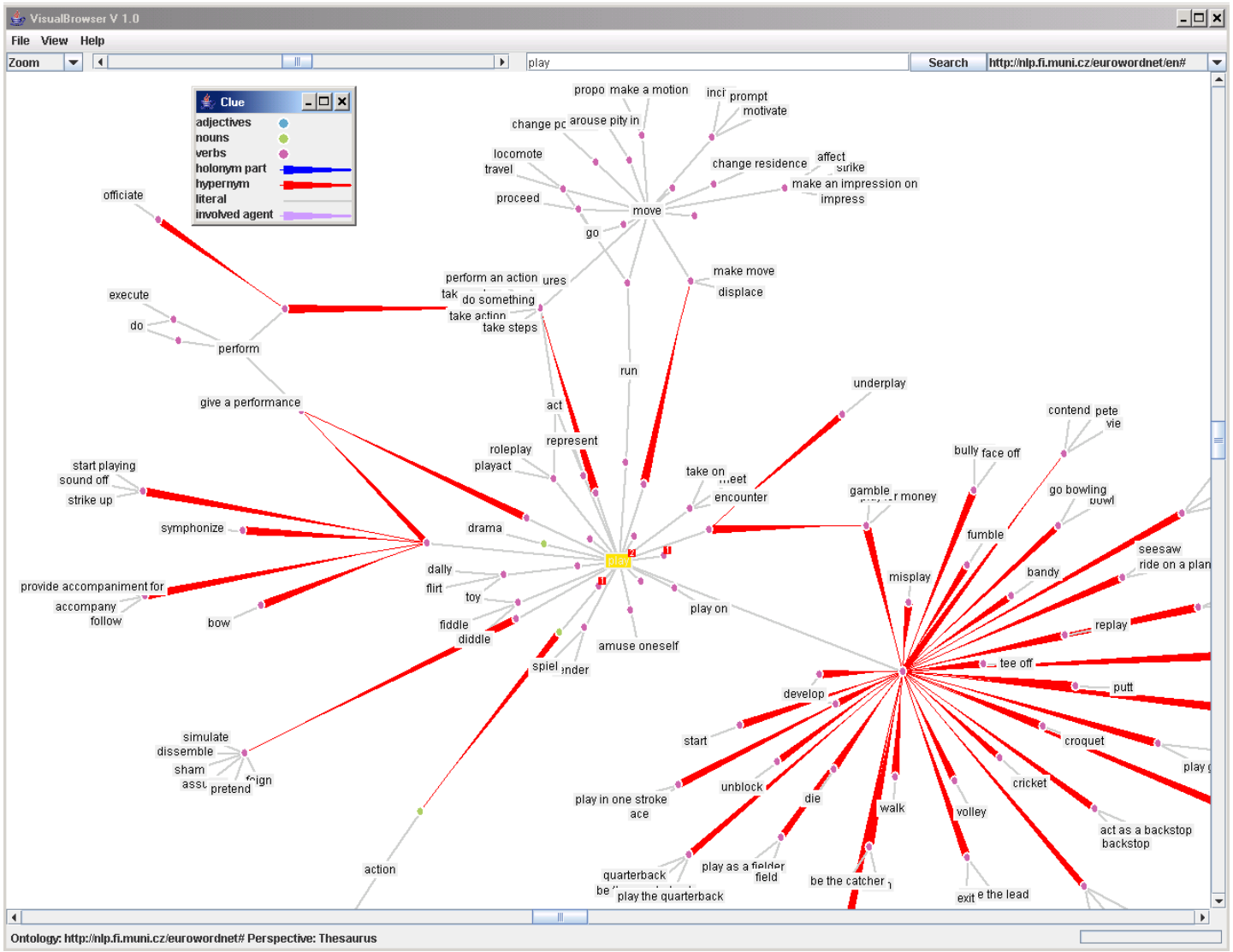
VisualBrowser V 1.0
File View Help
Zoom
play
Search
http://nlp.fi.muni.cz/eurowordnet/en#
Clue
adjectives
nouns
verbs
holonym part
hypernym
literal
involved agent
officiate
execute
do
perform
give a performance
perform an action
do something
take steps
propo
make a motion
change pc
arouse pity in
prompt
motivate
locomote
travel
proceed
move
go
change residence
affect
make an impression on
impress
make move
displace
run
act
represent
roleplay
playact
drama
start playing
sound off
strike up
symphonize
provide accompaniment for
accompany
follow
bow
dally
flirt
toy
fiddle
diddle
spiel
amuse oneself
play on
take on
encounter
underplay
gamble
misplay
bully
face off
contend
pete
go bowling
fumble
bandy
seesaw
replay
tee off
putt
croquet
cricket
develop
start
unblock
die
walk
volley
play in one stroke
ace
quarterback
play as a fielder
field
be the catcher
play the quarterback
act as a backstop
backstop
exit
e the lead
simulate
dissemble
sham
pretend
action
Ontology: http://nlp.fi.muni.cz/eurowordnet# Perspective: Thesaurus

Other possibilities

Client doesn't have to be implemented in XUL. Any application/service using HTTP or SOAP protocol can be a client.

Outline

Conclusions and Future Directions

- about 90% of server part completed
- several client applications under development are used in running projects
- high modularity and configurability
- versatile base for implementation of individual and powerful dictionary writing tools

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Future of DEB II

- optimize server part
- add new servlets for linguistic resources (corpora, word sketches, analyzers, ...)
- prepare server installation packages
- develop more DWS clients

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