WordNet Visualization and User Feedback
New features in DEBVisDic

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DEBVisDic

- its predecessor VisDic used in the *EuroWordNet project*
- built on DEB dictionary platform
- all the main features for advanced WordNet browsing and editing
- Internet *distributed architecture*
- connection to *other resources* (e.g. morphological analyzer, dictionaries, Visual Browser, . . .)
- DEBVisDic is used for preparation of new Polish, Hungarian, Slovene, Dutch (Cornetto), Nepalese, Afrikaans, . . . wordnets

DEBVisDic

User Settings Tools Windows Help   version: 1.1.8

DEBVisDic Greek WordNet

SYNET.ID=wner   Search   Search in

[n] αφηρημένη έννοια:1

DEBVisDic Korean WordNet Top 500

SYNSET.ID=wner   Search   Searc

[n] 추상적 개념:1

DEBVisDic Czech WordNet

SYNSET.ID=wnen:ENG20-0002048t

[n] abstrakce:1

DEBVisDic English WordNet

abstraction   Search   Search in all

[n] abstractedness:1, abstraction:5
[n] abstraction:1, abstract:1
[n] abstraction:2
[n] abstraction:3, generalization:1, generalisation:2
[n] abstraction:4
[n] abstraction:6

Preview | Tree | Revtree | Edit | Query | Xml

POS: n ID: ENG20-00020486-n
BCS: 2
Synonyms: αφηρημένη έννοια:1
Definition: έννοια που δεν
αφλάζει κάτι το πραγματικό ή
συγκεκριμένο και δημιουργείται
από την εξαγωγή κοινών

Preview | Tree | Revtree | Edit | Query | Xml

POS: n ID: ENG20-00020486-n
Synonyms: 추상적 개념:1
Definition: a general concept
formed by extracting common
features from specific examples

<<-- [hyponym] 시간:1

<<-- [hyponym] 공간:1

<<-- [hyponym] 속성:1

<<-- [hyponym] 관계:1

<<-- [hyponym] 양:1

Preview | Tree | Revtree | Edit | Query |

Item
⊟ abstrakce:1
  [deriv-na] abstraktní:1
    ⊞ [deriv-na] abstraktnost:1
  ⊟ množství:1, kvantum:2, kvant
    ⊞ poměrné množství:1
    ⊞ hodnota:2, ekonomická ho
    ⊞ neurčité množství:1
    ⊞ pravděpodobnost:1, šance
    ⊞ lihovitost:1
    ⊞ časová jednotka:1
    ⊞ délková míra:1
    ⊞ oktanové číslo:1
    ⊞ základní míra:1
    ⊞ interval:1, časový interval:1
    ⊞ objem:2, obsah:2

Preview | Tree | Revtree | Edit | Query | Xml

POS: n ID: ENG20-00020486-n
BCS: 2
Synonyms: ab
Definition: a g
formed by extr
features from
Domain: fact
SUMO/MILO:
-->> [eng_der
<<-- [hyponym]
<<-- [hyponym]
<<-- [hyponym]
<<-- [hyponym]
<<-- [hyponym]
quantity:1, amount:3

Show in
AutoLookUp in   ✓ Czech WN / 1
AutoLookUp by   ✓ Greek WN / 1
AutoLookUp by search   ✓ Korean WordNet Top 500 / 1
Copy entry to   Afrikaans WN / 1
Take ID from   Russian WN / 1
Import IDs from file

space:1
attribute:2
relation:1
measure:3,

<<-- [hyponym] ιστοτητα:1
<<-- [hyponym] χαρακτηριστικό:4
<<-- [hyponym] σχέση:1

Querying a dictionary is complete.   Item(s):

Querying a dictionary is complete.   Item(s):

Querying a dictionary is complete. Found 19 item

Querying a dictionary is complete.   Item(s):   6

RAW viewer

- Responsivity Aware Wordnet viewer
- platform independent *web application*, mobile responsive
- only HTML + Javascript
- using data from DEBVisDic server interface, JSON format
- both standalone, and integrated into DEBVisDic

Text mode

house[1]

a dwelling that serves as living quarters for one or more families

Paths to word

entity[1] ➡ object[1], physical object[1] ➡ whole[2], whole thing[1], unit[9] ➡ artifact[1], artefact[1] ➡ structure[1], construction[3] ➡ building[1], edifice[1]

Word properties

  n   ENG20-03413667-n

Semantic relations

hyponym	near_antonym	part
stash house[1]		study[5]
ranch house[1]		porch[1]
solar house[1]		loft[2], attic[1], garret[1]
chalet[1]		library[1]
safe house[1]		

---

search box:

house:

English wordnet

Found synonym rings (synsets):

(n) house[2]

(n) family[1], household[1], house[4], home[7], menage[1]

(n) house[1]

(n) sign of the zodiac[1], star sign[1], sign[5], mansion[1], house[11], planetary house[1]

(n) house[12]

(n) theater[1], theatre[1], house[6]

(v) house[2], put up[7], domiciliate[2]

(n) firm[1], house[6], business firm[1]

Graph mode
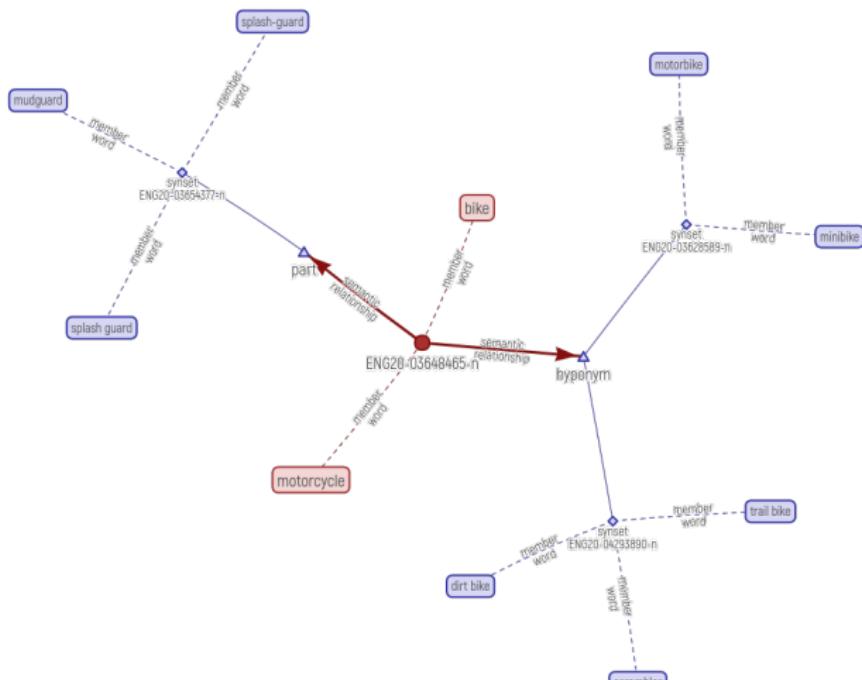
Czech Wordnet

- five versions of Czech Wordnet
- integrate to Open Czech Wordnet with Collaborative Interlingual Index
- once integrated, more frequent updates

Example

PWN: *cabriolet:1, cab:2*
CzWN: *kabriolet:2, dvoukolový jednospřežní povoz:1, koňská drožka:1*

User feedback

- continuous maintenance of semantic networks
- crowdsourcing wordnet updates
- first phase, test on Czech Wordnet updates
- web application for user suggestions
- standalone for public access, *connected with DEBVisDic interface*

Suggestion life cycle

- user submits suggestion, for any part of synset
    - change, delete, add
- suggestions stored in separate database
- editor reviews all suggestions
    - accept/deny
    - compare history
    - single or mass change
- accepted suggestion is copied to current wordnet version
- editor changes wordnet directly, change is still logged

Submit suggestion

Road, route [n]

Definition: an open way (generally public) for travel or transportation

Domain: town_planning

Sumo: StationaryArtifact

Sumo type: +

Usages [Add]

Synonyms [Add]

road 1

route 2

| path | 2 | Enter lnote | [trash] |

Relations [Add]

| ENG20-04387207-n:way:6 | hypernym ▾ | [trash] |

ENG20-01895340-v:route:2

ENG20-01897936-v:route:1

| Enter suggested Princeton Word | select relation type ▾ | [trash] |

Cancel   [Save]

Review suggestions

House [n]	16/11/2017	✓ ✗
Add Synonym → home		✓ ✗

Car, auto, automobile, machine, motorcar [n]	16/11/2017	✓ ✗
Remove Synonym motorcar →		✓ ✗
Edit Synonym machine → motorcar		✓ ✗

Love, passion [n]	16/11/2017	✓ ✗
Add Usage → love is in the air		✓ ✗

Cat, true cat [n]	16/11/2017	✓ ✗
Edit Domain zoology → catology		✓ ✗

Cat, true cat [n]	16/11/2017	✓ ✗
Add Relation → ENG20-02352256-n:[n] paw:1		✓ ✗

Conclusions

- platform independent wordnet visualization interface
- application for user feedback and reviews of wordnets