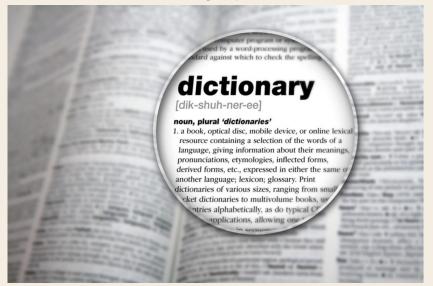


Automatically Created Noun Explanations for English

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Definition? Word Meaning Explanation?



https://www.rd.com/wp-content/uploads/2017/09/

1/10

Sketch Grammar

```
*STRUCTLIMIT s
*WSPOSLIST ",noun,-n,verb,-v,adjective,-j,adverb.-a.pronoun.-d"
#nouns
=and other
1:Noun andOther 2:Noun
=hvpo hvpero2
2:Noun (andOr Det? Adj? Noun)* andOr (Also)? Similar (Det? Adj{0,2} Noun)? Det? 1:Noun
=hypo hypero
2:Noun (andOr Det? Noun)? toBe Det? Type Det? 1:Noun
=WORD is
1:Noun upTo5words toBe upTo5words 2:Noun
=WORD has
1:Noun upTo5words toHave upTo5words 2:Noun
=what who has WORD
2:Noun upTo5words toHave upTo5words 1:Noun
=adi modif
2:Adj Det? adjReflComma Det? 1:Noun
2:Adi andOr Det? adiReflComma Det? 1:Noun
adjReflComma andOr 2:Adj Det? 1:Noun
1:Noun 2:Adi
```

$\begin{array}{l} \textbf{dictionary} \stackrel{(noun)}{\text{British National Corpus (TreeTagger) freq = } \underline{\textbf{1.499}} \text{ (}13.26 \text{ per million)} \end{array}$



dictionaries readable

bilingual

machine readable dictionaries biographical 6

<u>is_subject</u>						
		18.48				
outperform	3	8.24				
compile	6	8.05				
index	3	8				
define	8	6.07				
my dictionary defines						
test	<u>3</u>	5.44				

<u>is_object</u>				
		15.41		
compile	<u>13</u>	9.08		
compiled a dictionary				
consult	3	6.38		
comprise	3	5.24		
speak	3	5.14		
use	<u>51</u>	5.13		
use standard english dictionaries				

N_coord		
		5.34
thesaurus	9	11.36
dictionaries a thesauri	and	
encyclopedia	4	10.49
encyclopaedia	4	10.43
grammar	7	10.08
in dictionarie grammars	s ai	nd
lexicon	3	9.89

	4.34
	7.54
4	10.65
3	9.30
7	5.94
ang	uage
6	5.74
	3 7 y of

WORD_is			what wh	o has	WORD
		3.47			1.13
use	3	5.58	word	3	7.64

9 8.99

8.08

7.92

for example		consists_of		0.70
	1.87			0.73
source	4 7.28	contribution	4	9.34



Code → Result

dictionary

meanings similar to dictionary can also be expressed by (a/an) thesaurus, encyclopedia, encyclopaedia, textbook, guide, lexicon, use domain-specific, machine-readable, readable dictionary for example (a/an) source can have/contain (a/an) contribution (a/an) word can have/contain (a/an) dictionary is a subject of outperform, compile, index is an object of compile, consult, comprise of (a/an) slang, quotation, language

Evaluation

- 70 nouns (64 in BNC)
- frequency (from 2 to 67 826); abstract & concrete nouns; homonyms; synonyms; ad hoc selection
- "mostly good"

Somewhat Discouraging Results

mamluk (35)

is an object of exist

excavator (43)

meanings similar to excavator can also be expressed by (a/an) digger, tractor, shaker, extractor, harvester, pride mini, rotary, bulk excavator for example (a/an) bow, hall, town can have/contain (a/an) coin, finance, right (a/an) other can have/contain (a/an) excavator is a subject of sex, indemnify, assign is an object of alert, prompt, decide of (a/an) heart

Somewhat Encouraging Results

theatre (2)

meanings similar to theatre can also be expressed by (a/an) cinema, concert, opera, gallery, museum, play, life open-air, Kuwaiti, provincial theatre (a/an) experience can have/contain (a/an) theatre is a subject of reopen, crowd, close is an object of operate, tour, love of (a/an) operation, war, dream

Somewhat Encouraging Results

bed (244)

similar meaning can have (a/an) breakfast, border, table, room, door, wall double, twin, unmade bed for example (a/an) doctor, child (a/an) price, kitchen, room can have/contain (a/an) bed is a subject of stare, knit, sleep is an object of share, wet, strip of (a/an) rose, lettuce, nail with (a/an) flu, someone, sheet

More Encouraging Results

house (45 503)

meanings similar to house can also be expressed by (a/an) home, sale, garden, flat, shop, building, room public, upper, big house for example (a/an) home, hotel can have/contain (a/an) garden, bedroom, room (a/an) family, time, people can have/contain (a/an) house is a subject of build, stand, sell is an object of terrace, buy, build of (a/an) parliament, card, lord with (a/an) garden, roof, wall

Correction

corpus. Three words are interpreted as a different part of speech (an expose, (a) lead are recognised/appearing in the corpus only as verbs, a mammoth as an adjective).

• (a) lead, a mammoth are present as nouns in BNC