### **Building a Semantic-Primitive-Based Lexical Consultation System**

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#### Abstract

The paper describes the design of semanticprimitive-based lexical consultation system and the possible processes which will be performed on a mahine-readable dictionary (MRD) and corpus to produce a machine-tractable dictionary

tractable corpus automatically. The tractable corpus are created during or after the processes.

#### Introduction

Nowadays, there are many MRDs, eg., WordNet, Longman Dictionary of Contemporary English (LDOCE), the Merriam-Webster New Pocket Dictionary and Webster's Seventh New Collegiate Dictionary, available for the investigation by large-scale computational methods about theoretical and practical concerns.

However, the knowledge in a MRD is collected and recorded by lexicographers for human readers. So MRD cannot be used directly for natural language processing (NLP) tasks. As a result, we need to extract out semantic and syntactic information buried in the MRD and encoded these information into MTD.

Due to the lacking of linguistic tools that can process the dictionaries to be a more tractable linguistic resources for NLP applications, it is important to construct such linguistic tools for those languages. These linguistic tools can also be used to transform text information given in those languages into a machine-tractable form which in turn can be used as a useful linguistic resource for NLP tasks. Apart from that, these tools can also be adapted to be used in different application areas such as Virtual school or

electronic government, to produce machine-tractable mono/multilingual text data upon request in any one particular area. In particular, Word Sense Disambiguation (WSD) is needed in tackling the problem of lexical ambiguity in the transformation from machine-readable source to machine-tractable source. This happens because a word can have more that one meaning.

#### 1 Linguistic Resources

### 1.1 Machine-Tractable Dictionary (MTD)

A MTD is a dictionary that captures the information either syntactic and semantic from MRD. A MTD consists of usable format and highly structured semantic information for NLP tasks, e.g. information about semantic primitives and Lexical Conceptual Distance Data (LCDD).

#### 1.2 Semantic Primitive

According to (Wierzbicka, 1972), "any semantically complex word can be explicated by means of an exact paraphrase composed of simpler, more intelligible words than the original." These simpler and intelligible words are known as semantic primitives.

There are two kind of semantic primitive: prescriptive and descriptive primitive. Prescriptive semantic primitives is a set of semantic primitives which is defined or prescribed before the course of designing and developing a system. The number for prescriptive semantic primitives always grows because there is always a word in the language which cannot be effectively defined by an available set of prescriptive semantic primitives.

The descriptive semantic primitives is a set of semantic primitive which is derived from a natural source of data such as a dictionary. In this paper, we are using a set of descriptive semantic primitives. So we do not have to deal with the inadequacies of prescriptive semantic primitives. For example, a set of extracted descriptive primitive which is term#5<sup>1</sup>, priest#2, roman#7, orthodox#3, perform#1 marriage#4, pair#5, people#5, live#7, together#2 used to define the entries in figure 1.

father#5	-	a term#5 of address for priest#2 in
		some church especially roman#7 or
		orthodox#3 catholic
marry#3	-	perform#1 a marriage#4 ceremony
couple#1	-	a pair#5 of people#5 who live#7
•		together#2

Figure 1:Example entries extracted from a dictionary

### 1.3 Lexical Conceptual Distance Data (LCDD)

LCDD is a data that is used to determine the relatedness and closeness among the word senses. This data is important in deciding which of the senses is suitable for the words in a given sentence during the process in the sense tagger.

#### 2 Linguistic Tools

### 2.1 Semantic primitive extractor

Semantic Primitives are identified by searching for self-defined circles of definition in a dictionary. With reference to figure 2, we can identify a self-defined cycle that is sense\_1->sense\_2->sense\_3->sense\_1. As a result, sense\_1 is identified as semantic primitive (Guo, 1989b).

```
sense_1 [def] [sense_2 sense_5 sense_6]
sense_2 [def] [sense_3 sense_2]
sense_3 [def] [sense_1 sense_2]
sense_4 [def] [sense_5]
```

Figure 2: a method to identify semantic primitive from a dictionary

Steps to identify semantic primitives in a MRD: a. Expanding MRD.

In this step, we expand every word the definition text for dictionary entries to its word senses.

 Compute the frequency of each sense entry in the expanded dictionary according to its appearance in definition text.

In this step, we compute the frequency of the sense entries in definition text. Then, we sort the list by frequency. An entry which has high frequency has high probability is a primitive.

c. Identify semantic primitives using selfdefined method.

In this step, we use the list that is sorted

by frequency in step (b) to identify semantic primitives using self-defined method.

### 2.2 LCDD generator

LCDD generator is a tool to calculate the metric that shows the relatedness among the word senses. It calculates the metric by identifing the definition layers of word senses in order to generate the metric among word senses.

Formula = 
$$a*70\% + (b+c+d)/3*30\%$$

### Note:

n1 = number of the element in the first layer of first target word sense

n2 = number of the element in the first layer of second target word sense

n3 = number of the element in the second layer of first target word sense

n4 = number of the element in the second layer of second target word sense

a = (number of entries overlapping between first layer of first target word sense with first layer of second target word sense) / [(n1+n2)/2]

b = (number of entries overlapping between first layer of first target word with second layer of second target word) / [(n1+n4)/2]

c = (number of entries overlapping between second layer of first target word with first layer of second target word) / [(n3+n2)/2]

d= (number of entries overlapping between second layer of first target word sense with

<sup>1</sup> term#5 means the 5th word sense of word, term.

econd layer of second target word sense) / [(n3+n4)/2]

Example word senses: forecast#2 fixed#6 Definition for forecast#2: predict#1 in advance#3 Definition for fixed#6: specify#1 in advance#3 Definition for predict#1: make#3 a prediction#1 about Definition for specify#1: be specific#1 about Definition for advance#3: a change#1 for the better#2 progress#4 First layer for forecast#2: predict#1 in advance#3 First layer for fixed#6: specify#1 in advance#3 Second layer for forecast#2: make#3 a prediction#1 about; a change#1 for the better#2 progress#4 Second layer for forecast#2: be specific#1 about; a change#1 for the better#2 progress#4 n1=2; n2=2; n3=5; n4=4; ( overlapping only happens between words that are tagged in the definition layer) a = 1/[(2+2)/2] b = 0/[(2+4)/2]c = 0/[(5+2)/2]d = 3/[(5+4)/2]:. LCDD( forecast#2, fixed#6) = a\*70% + (b+c+d)/3\*30%= 0.5\*70% + (0+0+0.67)/3\*30%= 35% + 0.067% = 35.067%

Figure 3:Example calculation of generating LCDD

### 2.3 Part-of-speech tagger (POS tagger)

Part-of-speech tagger is a tool which assigns part-of-speech information to the words in a sentence. It extracts out syntactic information from definition texts in MRD. Besides, this part-of-speech will be used in sense tagger in deciding the correct senses. (Stenvenson et.al, 2000)

Here, we are using Qtag is a part-of-speech tagger. It has been developed at Corpus Research in Birmingham and is freely available for research purposes (For more information on this see <a href="http://www-cig.bham.ac.uk/tagger.html">http://www-cig.bham.ac.uk/tagger.html</a>). Basically, Qtag is an implementation of a probabilistic tagger, based on Hidden Markov Model technology

#### 2.4 Sense tagger

Sense tagger is a tool that assigns sense tag to the words in a given sentence by performing WSD to them. It will use the data from LCDD, part-of-speech and a simple summation algorithm in deciding the correct sense for the words given in a sentence. Please refer to (Lim et al., 2002) for further information about the simple summation algorithm. The approach used in the sense tagger is unsupervised learning algorithm.

Currently, the sense tagger consists of two processes:

- a. Dictionary look-up process
- b. Chunking process.
  - i. Chunking the sentence
  - ii. Numerical calculation process
  - iii. Keeping sense tags
  - iv. Selecting and assigning a suitable sense tag

After the sense tagger has received the input sentence, first of all, it will try to look for the definition for each of the words in the MTD. The input sentence is split into chunks of words. This approach also agrees with past observations that human only requires a small window of a few words to perform WSD. (Choueka & Lusignan, 1985). A chunk of 7-words is selected because there is a finite span of a human immediate memory and that for a lot of different kinds of test materials this span is about seven items in length (Miller, 1956). This will impose on the human ability in processing a chunk of information. So, we make an assumption that a chunk of 7-words will consist of comprehensive information needed for the sense tagging process since users (human) provide the input sentence.

Then, the sense tagger will assign sense tag to each word in a chunk using simple a summation algorithm. The result will be kept. After that, sense tagger will continue to assign sense tag to the other chunks of words until the last chunk. Finally, comparisons among the sense tags that have been assigned for the each word in the sentence during sense tagging for chunks of words are done. Then, the suitable sense tag will be assigned to each word of the sentence. If sense tagger unable to decide to assign which

sense tag, it will assign the most frequent sense eg, first sense in WordNet.

The simple summation algorithm will be further improved by using dynamic programming techniques.

### 3 Dictionaries processing on MRD

Here, we describe the detail design of a semantic-primitive-based lexical consultation system in creating tractable form of outputs by using linguistic tools such as semantic primitive extractor, LCDD generator, part-of-speech tagger and sense tagger. Steps in creating the linguistic tool such as sense tagger and resource such as MTD as illustrated in figure 4 are:

- a. Constructing a MTD from a MRD involves the following steps:
  - i. The definition text in the MRD is tagged with part-of-speech information by using the POS tagger.
  - ii. Semantic primitives are extracted from the MRD by using the semantic primitive extractor.
  - iii. WSD will be performed on the definition text of the semantic primitives using a general MTD using the sense tagger. General MTD is a MTD that contains knowledge about different kind of domain. Each of the words in the definition text is assigned with a sense tag.
  - iv. LCDD is generated for semantic primitives using the LCDD generator.
  - v. By using semantic primitives and LCDD, words in the definition text in the MRD is assigned with a sense tag using sense tagger.
  - vi. LCDD is generated among entries in the MRD.
- b. A sense tagger will also be constructed to perform WSD to the samples of corpus text from various prospective application areas by using the constructed MTD.

#### Conclusion

As a conclusion, this paper propose a method to produce a machine-tractable form text from machine-readable text by using MTD is important to assist natural language processing of text in a given domain. This method is important because it let us analyse documents especially nowadays too many documents can easily be obtained with the emergence of Internet.

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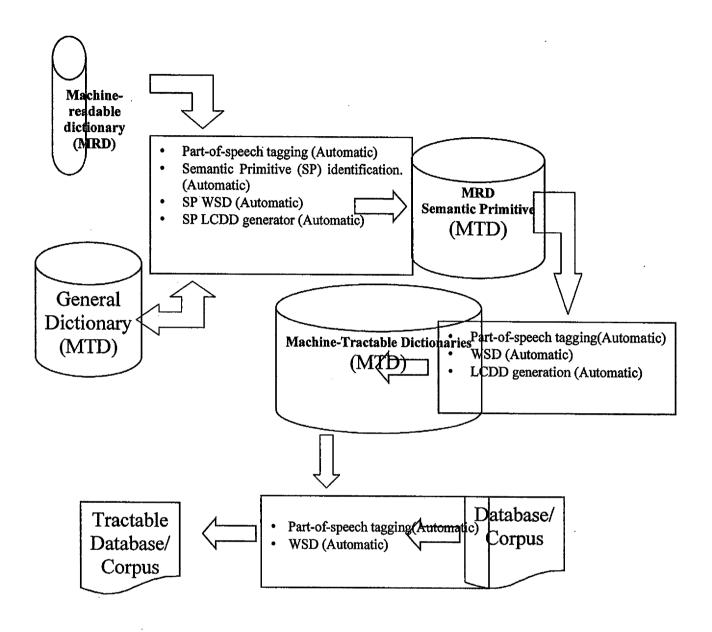


Figure 4: System Architecture

# Building a Semantic-Primitive-Based Lexical Consultation System

prepared by Lim Beng Tat Supervisor: Dr. Tang Enya Kong

### Outline

- Introduction
  - Objective
- Literature Survey
- Lexical Consultation system
  - Example data: Input and output.
  - Overall design and tools.
  - Applications



- More than one billion documents on the Internet (Inktomi and the NEC Research Institute, 2000)
- Company documents
- Therefore, how to extract information from these documents?

## Introduction (Cont)

- Online domain lexicons:
  - Computer webopedia.com
  - Chemistry chemnet.com
  - Astronomy, Chemistry, Mathematic and Physics - scienceworld.wolfram.com
- Other offline lexicons:
  - Company Databases



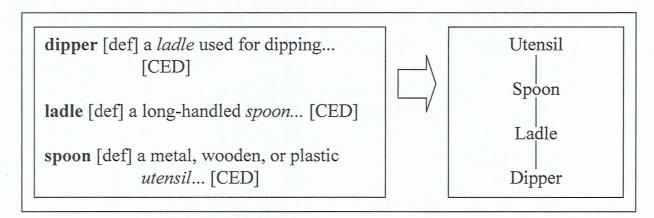
- However, most of lexicons are built for human use.
  - Do not offer immediately usable resources
  - E.g. *Hypernym/hyponym* relation not explicitly defined.
- How to provide semantic and syntactic information buried in lexicons?
- How to use these lexicons on the domain documents?

## Objective

- Constructing tractable domain lexicons
  - information such as semantic and syntactic information explicitly defined
- Analyzing domain documents using the newly constructed domain lexicons.



- Lexicon
  - Extracting lexical knowledge from Machine Readable Dictionary (MRD)
    - Semantic hierarchy (Amsler,1980; Chodorow,1993)



Note: CED = Collins English Dictionary

## Literature Survey (Cont)

- Defining formulae (Markowitz, 1986)
  - Defining formulae or significant recurring patterns

### Problem:

- Ambiguous words
- Definition inconsistencies
  - Circularity

e.g. tool
implement
utensil

an *implement*, such as a hammer. a piece of *equipment*, *tool* or *utensil*. an *implement*, *tool* or *container*.

## Literature Survery (Cont)

Absence of hypernym

Eg. corkscrew

a pointed spiral *piece* of metal...

[W9]

dinner service a complete set of plates and

dishes...[LDOCE]

- MRD for human use
  - e.g. flower#1 a plant cultivated for its blooms or blossoms ...[WordNet]
    - lacks a detailed description

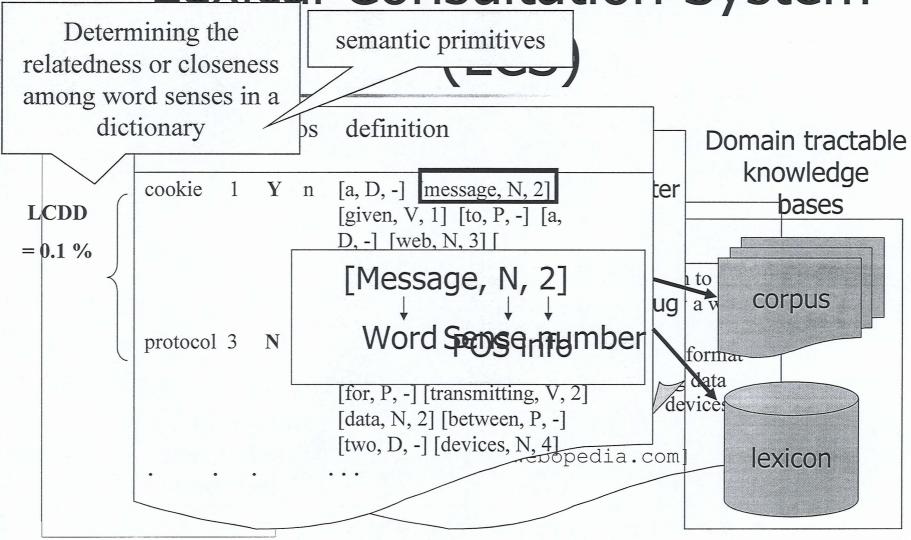
### Semantic Information

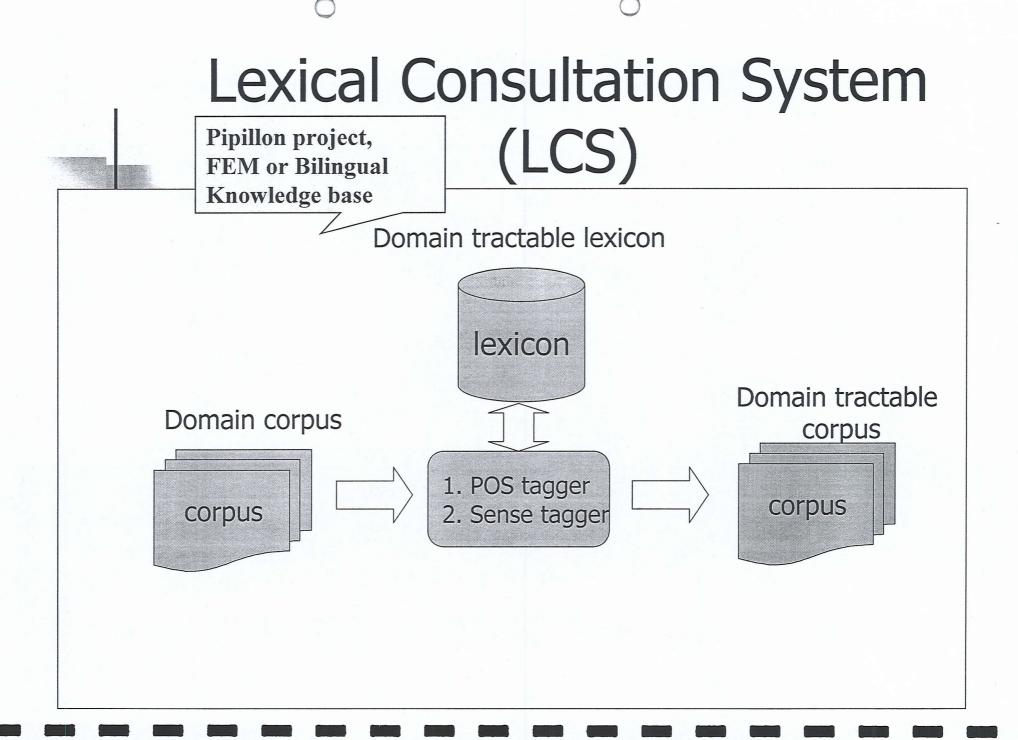
- Semantic primitive
  - Simpler term (Wierzbicka, 1977)
  - e.g. word watch → see someone do something
  - Overcome circularity, obscure definition and etc in a MRD.
- Correct meaning
  - Word sense disambiguation
    - intermediate task (Wilks and Stevenson, 1996)
  - E.g. word *bank*
- Lexical Conceptual Distance Data (LCDD)
  - measure relatedness among words (Guo, 2002)

## Syntactic Information

- Part of speech
  - E.g. verb, adjective, noun, determiner, preposition and etc.

Lexical Consultation System





### Result

SENSEVAL-2 competition

(WordNet 1.7 pre-release version has 192, 460 entries.)

■ Precision: 32.4 % (801 correct of

2473 attempted entries)

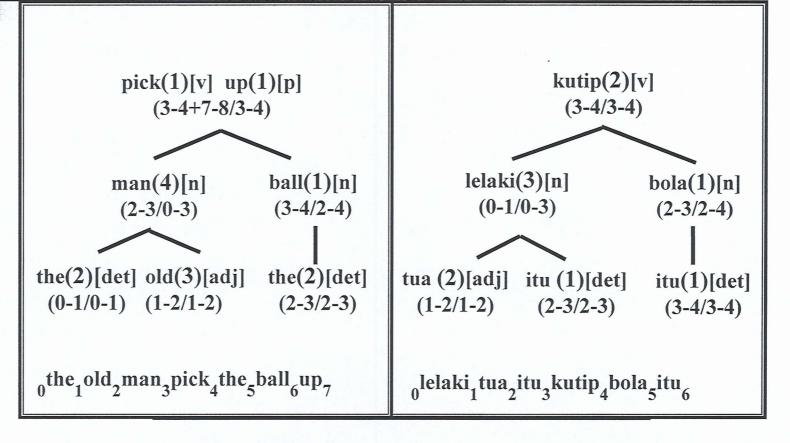
■ Recall: 32.4 % (801 correct of

2473 total entries)

Attempted: 100.0 % (2473 attempted)

entries of 2473 total entries)

### Example application



Tractable Bilingual Knowledge Bank (BKB)

[Source: Mosleh, 2002]

### Conclusion

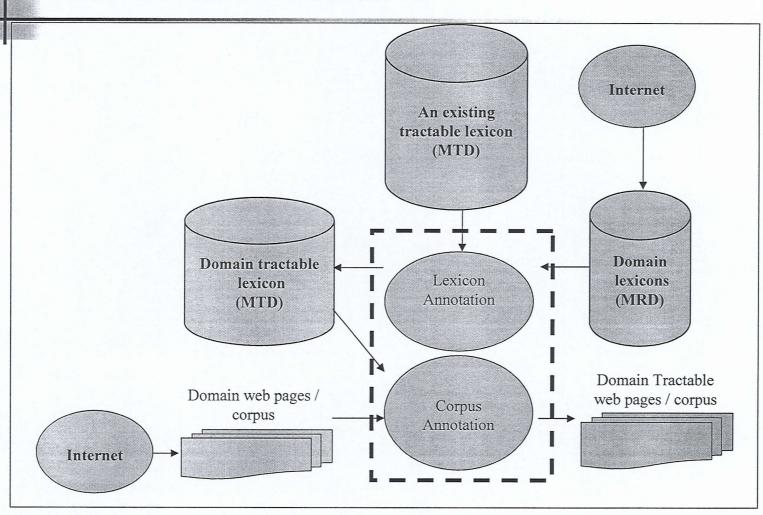
- Prototype
- Constructed sense tagger can perform as good as some sense taggers in the SENSEVAL-2 competition
- Worthwhile to be further explored

### The End

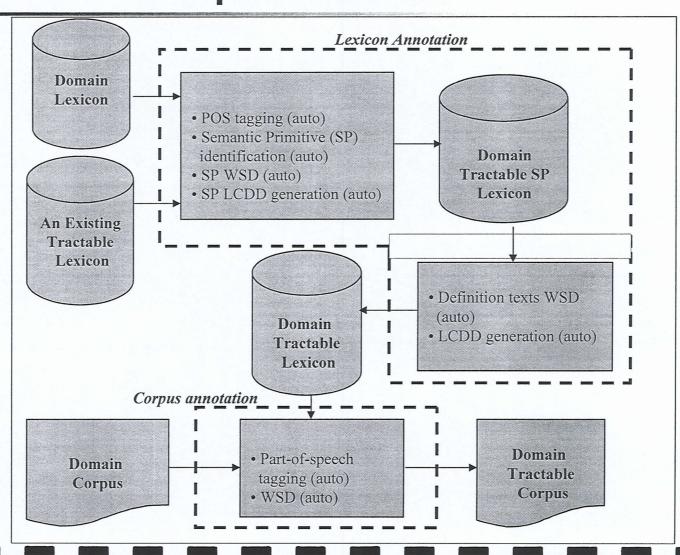
Thank you.

Any comments please send to 
btlim@cs.usm.my

### **Overall Picture**

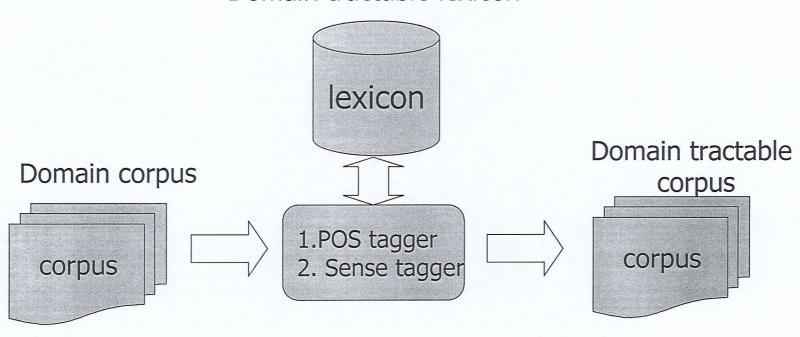


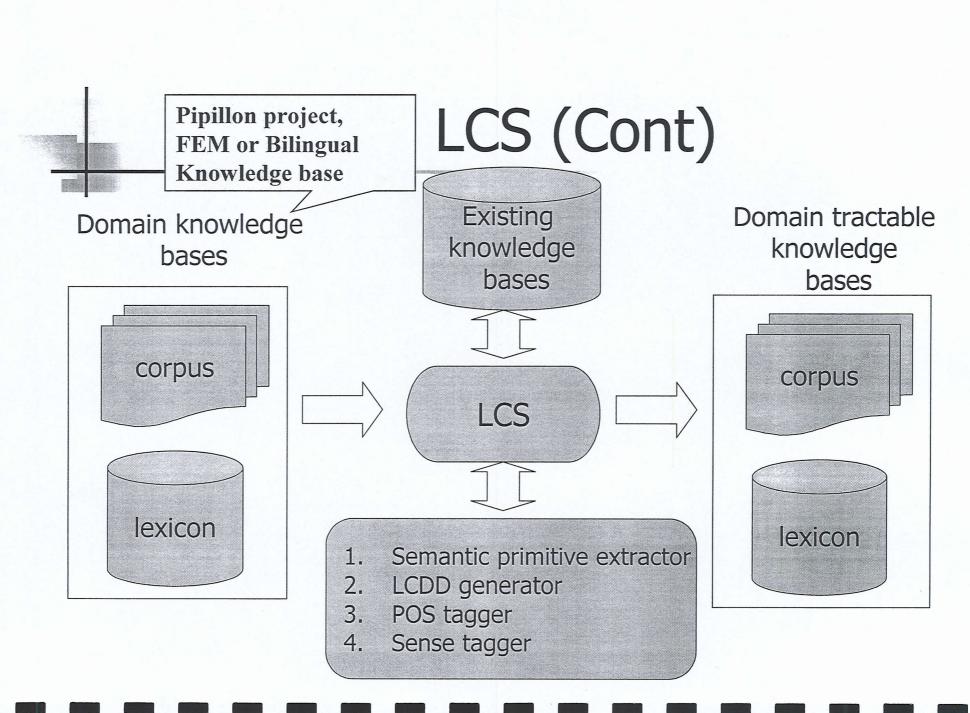
### Detail implementation





Domain tractable lexicon





Determining the relatedness or closeness among word senses in a dictionary

LCDD = 0.1 %

Descriptive semantic primitives

word sn sp pos definition

protocol 3

cookie 1 Y n [a, D, -] message, N, 2] [given, V, 1] [to, P, -] [a,

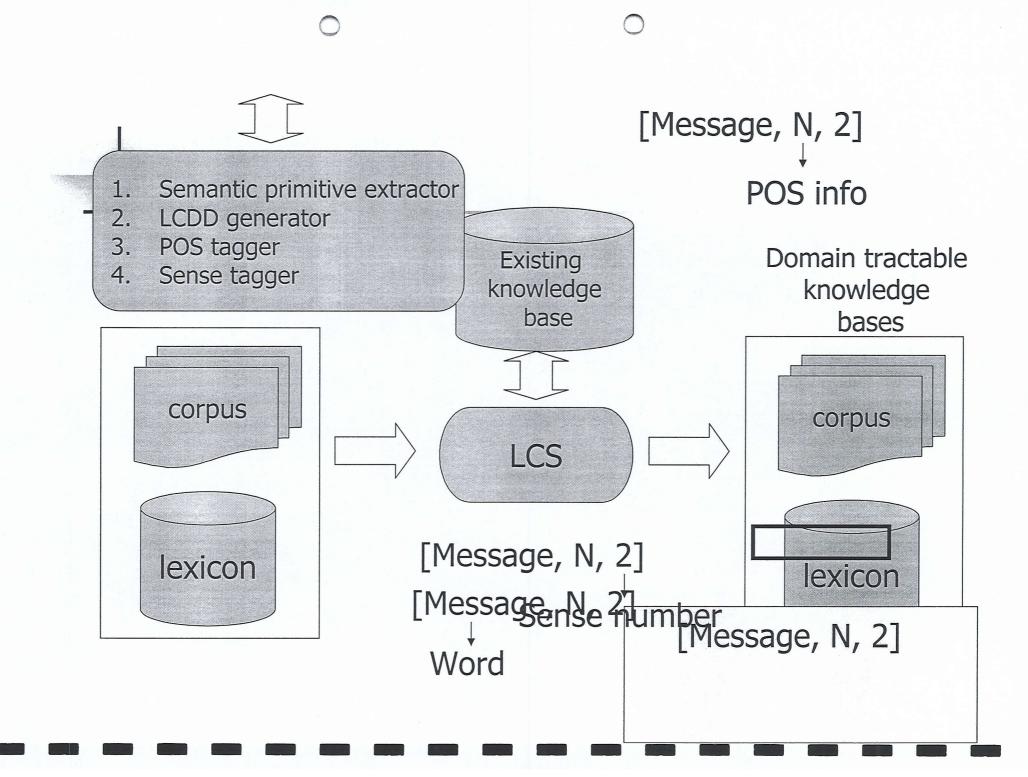
D, -] [web, N, 3] [

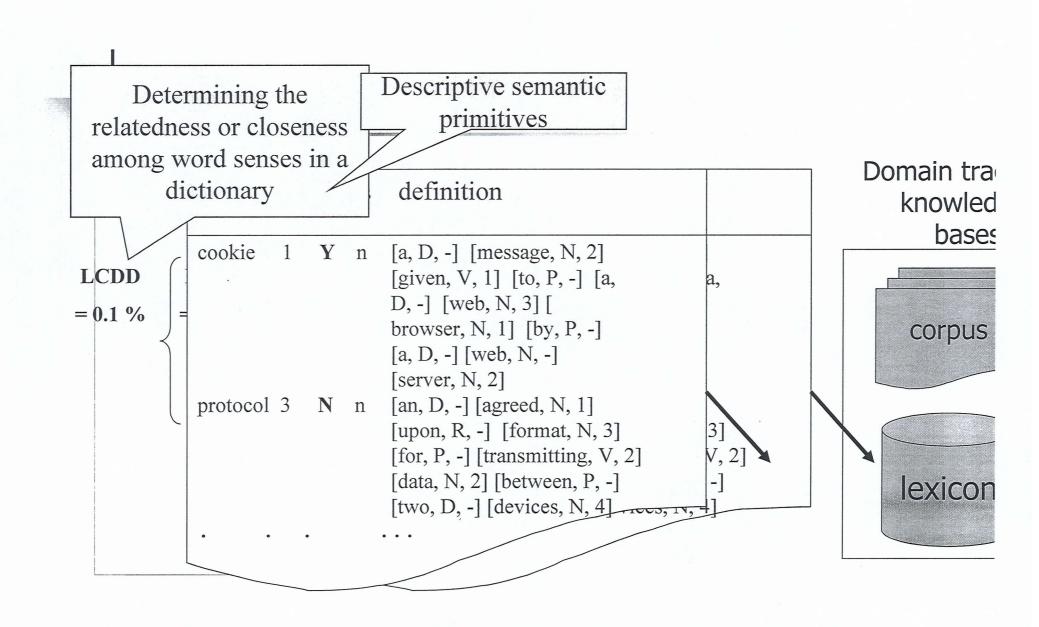
[Message, N, 2]

Word Sensentumber

[for, P, -] [transmitting, V, 2] [data, N, 2] [between, P, -] [two, D, -] [devices, N, 4]

. . .





### Concept Labels in the *GoiTaikei* Common Noun Hierarchy

The lists here show rough English translations from the original Japanese, and are meant as reference for non-speakers of the Japanese language. In cases of confusion and doubt, GoiTaikei - A Japanese Lexicon CDROM should always be the definitive guide.

### **Top Level Concepts**

1: Noun

• 2: Concrete

- 3: Agent

\* 4: Person

\* 362: Organization

- 388: Place

\* 389: Facility

\* 458: Region

\* 468: Nature

- 533: Object

\* 534: Animate

\* 706: Inanimate

• 1000: Abstract

- 1001: Abstract thing

\* 1002: Mental thing

\* 1154: Abstract thing (behavior)

- 1235: Event

\* 1236: Human Activity

\* 2054: Phenomenon

\* 2304: Natural phenomenon

2422: Abstract Relationionship

\* 2423: Existence

\* 2432: Categorisation System

\* 2443: Relation

\* 2483: Characteristic

\* 2507: State

\* 2564: Form

\* 2585: Numerical

\* 2610: Location

\* 2670: Time

### Lower Level Concepts

### 4: Person

5: Human

6: Form of address

7: First-person

8: First-person Singular

9: First-person Singular Male

10: First-person Singular Female

11: First-person Plural

12: First-person Plural Male

13: First-person Plural Female

14: Second-person

15: Second-person Singular

16: Second-person Singular Male

17: Second-person Singular Female

18: Second-person Plural

19: Second-person Plural Male

20: Second-person Plural Female

21: Third-person

22: Third-person Singular

23: Third-person Singular Male

24: Third-person Singular Female

25: Third-person Plural

26: Third-person Plural Male

27: Third-person Plural Female

28: Indefinite-person

29: Indefinite Singular

30: Indefinite Plural

31: Oneself and others

32: Oneself

33: Others

34: Each

35: Public and Private

36: Public

37: Private

38: Affix human

39: Affix human Singular

40: Affix human Singular Male

41: Affix human Singular Female

42: Affix human Plural

43: Honorific title

44: Honorific title Male

45: Honorific title Female

46: Biological feature

47: Man Woman

48: Man

49: Woman

50: Old Young

51: Child

52: Boy

53: Girl

54: Juvenile

55: Boy

56: Girl

57: Youth

58: Youth Male

59: Youth Female

60: Adult

61: Adult male

62: Adult female

63: Old person

65: Old people female 128: Lover male 191: Expert Beginner 66: Body circumstance 129: Lover female 192: Expert 67: Figure 130: Host Guest 193: Beginner 68: Sick Injured 131: Host 194: Hero Coward 69: Sick person 132: Host male 195: Hero 70: Injured person 133: Host female 196: Coward 71: Deceased 134: Guest 197: Inclination 72: Kinship relation 135: Visitor 198: Hardworker Lazy person 73: Family 136: Customer 199: Hard worker 74: Married couple 137: Relative position 200: Lazy person 75: Husband 138: Teacher Student 201: Eccentric Ordinary 76: Wife 139: Teacher 202: Eccentric 77: Parent Grandparent Ancestral 140: Student 203: Hobbyist 78: Parent 141: Superior Subordinate 204: Enthusiast 79: Father 142: Superior 205: Gourmet 80: Mother 143: Subordinate 206: Lustful person 81: Grandparent 144: Senior Junior 207: Eccentric 82: Grandfather 145: Senior 208: Eccentric 83: Grandmother 146: Junior 209: Ideologist 84: Ancestral 147: Master Servant 210: Lunatic 85: Child Grandchild Descendant 211: Ordinary man 148: Master 86: Child 149: Servant 212: Good man Bad man 87: Son 150: Social group 213: Good man 88: Daughter 151: Race Ethnic group 214: Bad guy 89: Grandchild 152: Race 215: Bad guy 90: Grandson 153: Ethnic group 216: Ruffian 91: Granddaughter 154: National 217: Criminal 92: Descendant 155: Fellow countryman 218: Prisoner 93: Sibling 219: Quasi-human 156: Foreigner 94: Sibling senior 157: Residence circumstance 220: Deity Buddha 95: Older brother 158: Inhabitant 221: Spirit 96: Older sister 159: Immigrant Refugee 222: Demon Monster 97: Sibling junior 160: Traveler 223: Occupation position role 98: Younger brother 161: Social class 224: Occupation 225: Professional occupation 99: Younger sister 162: Ruler Retainer 100: Kindred 163: Monarch 226: Professional job 101: Uncle Aunt 164: Lord 227: Professional medical care 102: Uncle 165: Retainer 228: Doctor 103: Aunt 166: Authority Populace 229: Pharmacist 104: Nephew niece 167: Authority 230: Nurse 105: Nephew 168: Populace 231: Professional technology 106: Niece 169: Status 232: Professional 107: Cousin 170: Nobility 233: Attorney 108: Cousin Male 171: Warrior 234: Guide 109: Cousin Female 172: Commoner 235: Consultant 110: Kindred 173: Menial 236: Teacher Student 174: Capital and labor 111: Personal relation 237: Teacher 112: Society relation 175: Capitalist 238: Student 113: Companion Member Partner 176: Labourer 239: Scholar Researcher 114: Companion Member 177: Wealth and poverty 240: Artist 178: Wealthy 115: Companion 241: Writer Poet 116: Comrade 179: Poor 242: Artist Calligrapher 117: Follower 180: Ability inclination 243: Musician 118: Companion 181: Ability 244: Artist 119: Member 182: Great men ordinary person 245: Journalist 120: Outcast Nuisance person 183: Great man 246: Talent contestant 121: Partner 184: Ordinary person 247: Musician 122: Partner 185: Founder Follower 248: Singer 186: Founder 249: Performer 123: Enemy Ally 124: Friend Intimate person 187: Follower 250: Entertainer 125: Friend 188: Wise Fool 251: Contestant 126: Acquaintance 189: Wise man 252: Talent Contestant

127: Lover

190: Fool

64: Old people male

253: Religion person 316: Spy 378: Club 317: Free outlaw occupation 254: Monk 379: Party and group 255: Priest 318: Position 380: Political party 256: Clergyman 319: King Lord 381: Class 257: Pilgrim 320: King 382: Faction 258: Fortuneteller 321: Nobility 383: Group 259: Administrative Managerial 322: Cabinet minister 384: Society 260: Politician 323: Chief 385: Country 261: Government official 324: Assistant director 386: Domain 262: Administrator 325: Board of director 387: Family 263: Judicial official 326: Staff 264: Judge 327: Officer rank 389: Facility 265: Public prosecutor 328: Officer 390: Public facility 266: Diplomat 329: Private soldier 391: Government Office 267: Government official 330: Contestant class 392: Administration office 268: Entreprenuer 331: Designation 393: Judicial office 269: Administrative position 332: Position 394: Government offices 270: Others 333: Role 395: Service facility 334: Leader 271: Office work job 396: Post office 272: Sales job 335: Management 397: Communication facility 273: Merchant 398: Broadcasting station 336: Leader 274: Salesmen 337: Person in charge 399: Electrical facility 275: Agriculture Forestry Fishery 338: Relation 400: Water and sewer facility 276: Farmer 339: Official 401: Gas facility 277: Fisherman 340: Assistant 402: Research institute observatory 341: Interested party 278: Hunter 403: Service facilities 279: Woodcutter 342: Attorney 404: Hospital 280: Breeder 343: Plaintiff defendant 405: School 281: Operator 344: Human 406: Cultural facility 282: Operator factory 345: Messenger detective 407: Museum 283: Operator construction site mine 346: Messenger 408: Library 284: Operator 347: Detective 409: Theater 285: Technical skill job 348: Ownership related 410: Public hall 286: Craftsman 349: Owner 411: Gymnasium 287: Haircut teacher hairdresser 350: Ownership related 412: Cultural facilities 288: Transport communication industry 351: Protagonist 413: Getting on and off place 352: Reading writing 289: Transport industry 414: Station 290: Carrier 353: Writer 415: Port 291: Crew 354: Reader 416: Airport 292: Driver 355: Reviewer 417: Lines of transport 293: Crew 356: Performer Audience 418: Road 294: Transport industry 357: Performer 419: Railroad 358: Audience 295: Communication industry 420: Bridge 296: Postal industry 359: Player Referee 421: Tunnel 297: Telecomunications industry 360: Player 422: Area facility 298: Security job 361: Referee 423: Garden 299: Military 424: Zoo Botanical garden 362: Organization 300: Police 425: Recreational area 301: Fireman 363: Institution 426: Stadium 302: Guard 364: Administrative 427: Public facilities 303: Service job 365: Judicial 428: Work place 304: Servant 429: Office 366: Legislature 305: Servant male 367: Public institution 430: Store 306: Servant Female 368: Armed force team 431: Branch office 307: Connection customer industry 369: Armed force 432: Market 308: Boy 370: Team 433: Department store 309: Waitress 371: International agency 434: Store 310: Geisha 372: Association Party and Group 435: Restaurant 311: Free outlaw occupation 373: Association 436: Barber bathhouse 312: Beggar 374: Enterprise 437: Accommodation 313: Thief 375: Association 438: Store 314: Mafia 376: Alliance 439: Factory 315: Prostitute 377: Body 440: Laboratory

441: Studio	502: Pond	565: Nose Part
442: Mine	503: Puddle	566: Mouth
443: Farm	504: Spring Well	567: Mouth Main
444: Work place	505: Spring	568: Lip
445: Residence facility	506: Well	569: Tongue
446: Palace	507: Sea	570: Beak
447: Residence facility	508: Open sea	571: Ear
448: Military establishment	509: Inland sea	572: Ear Main
449: Fort	510: Scenery	573: Ear Part
450: Camp	511: Physiographic	574: Neck
451: Military establishment	512: Physiographic natural	575: Throat
452: Religion facility	513: Forest	576: Nape
453: Shrine	514: Grassland	577: Body
454: Temple	515: Uncultivated land	578: Chest
455: Church	516: Physiographic artificial	579: Stomach
456: Graveyard	517: Arable land Ranch	580: Waist
457: Facility	518: Rice field	581: Shoulder
	519: Field	582: Back
458: Region	520: Ranch	583: Side
459: Region range	521: Forested land	584: Rear end
460: Region human activity	522: Vacant land	585: Tail
461: Land	523: Site	586: Bodies
462: Realm	524: Physiographic artificial	587: Breast
463: Territory	525: Scene	588: Navel
464: Administrative district	526: Space	589: Genital
465: City	527: Celestial	590: Hand Foot
466: Village	528: Terrestrial	591: Hand Upper limb
467: Hometown	529: Moon celestial body	592: Arm
	530: Solar	593: Elbow
468: Nature	531: Star	594: Hand
469: Topography	532: Sky	595: Wrist
470: Terrain		596: Palm
471: Land	534: Animate	597: Back of hand
472: Mountain	535: Animal	598: Finger
473: Mountain main	536: Animal Individual	599: Leg Lower limb
474: Mountain part	537: Animal	600: Hip Thigh
475: Mountaintop	538: Bird	601: Knee
476: Mountain side	539: Reptile Amphibian	602: Leg Shin
477: Base	540: Reptile	603: Foot
478: Pass	541: Amphibian	604: Ankle
479: Valley	542: Fish and Shellfish	605: Sole
480: Cliff	543: Fish	606: Top of foot
481: Cave	544: Fish and Shellfish	607: Toe
482: Level ground	545: Shellfish	608: Finger
483: Plain	546: Crab Octopus Prawn	609: Joint
484: Basin	547: Sea urchin Jellyfish	
485: Plateau	548: Insect	610: Wing Fin Webbed
486: Island Cape		611: Wing
487: Island	549: Insect	612: Fin 613: Webbed etc
488: Sandbank	550: Insect 551: Animal Individual	
		614: Internal organ Membrane Muscle
489: Promontory Peninsula	552: Animal Part	615: Internal organ
490: Shore	553: Head	616: Respiratory organ
491: Coast	554: Head	617: Digestive organ
492: River bank	555: Face	618: Circulatory organ
493: Lakeshore	556: Facial	619: Urinary organ
494: Embankment	557: Forehead	620: Genital organ
495: River	558: Cheek	621: Nervous system
496: River	559: Chin	622: Gland
497: Waterway	560: Eye	623: Membrane
498: Waterfall	561: Eye Main	624: Muscle
499: Lake Marsh	562: Eye Part	625: Skin hair
500: Lake	563: Nose	626: Skin
501: Swamp	564: Nose Main	627: Skin

628: Mole Wart 691: Stalk Stump 753: Petroleum 629: Shell 692: Stalk 754: Mercury 630: Shell 693: Stump 755: Liquid 694: Branch leaf 631: Shell 756: Vapour 632: Scale 695: Branch 757: Air 633: Hair 696: Leaf 758: Vapour 634: Hair 697: Flower 759: Vapour 635: Eyebrow Eyelash 698: Flower Main 760: Artificial thing 636: Facial hair 699: Flower Part 761: Goods 637: Body hair 700: Fruit Seed ear 762: Personal effect 638: Feather 701: Fruit 763: Commodity 639: Bone tooth nail etc 702: Seed 764: Gift 640: Bone 703: Far 765: Offering 641: Tooth Gum 704: Bark Fruit peeling 766: Treasure 642: Tooth 705: Cell 767: Product 643: Tooth Gum 768: Cargo 644: Nail Horn Fang 706: Inanimate 769: Material 645: Nail 707: Natural thing 770: Paper 646: Horn 708: Matter Part 771: Wood 647: Fang 709: Component 772: Timber 648: Blood secretion excreta 710: Element 773: Plank 649: Blood 711: Atom 774: Stone 650: Secretion 712: Matter Main 775: Stone 651: Sweat 713: Solid 776: Cement 652: Tear 714: Metal 777: Glass 653: Milk 715: Precious metal 778: Ceramic ware 654: Digestive juice Hormone 716: Base metal 779: Metal Foil 655: Digestive juice 717: Iron 780: Metal 656: Hormone 718: Base metal 781: Foil Leaf 657: Gonad liquid 719: Acid Alkaline Salt 782: Fiber Leather 658: Secretion misc 720: Acid solid 783: Fiber 659: Nasal mucus 721: Alkaline 784: Leather 660: Saliva 722: Salt 785: Plastics 661: Eye discharge 723: Mineral 786: Plastic 662: Pus 724: Ore 787: Rubber 663: Dandruff 725: Jewel 788: Plastics 664: Excreta 726: Coal 789: Oil 665: Excretory thing 727: Rock 790: Oil and Fat 666: Feces 728: Stone Sand 791: Mineral oils 667: Urine 729: Stone 792: Fuel Fertilizer Fodder 668: Fart 730: Sand 793: Fuel 669: Vomit 731: Earth 794: Solid fuel 670: Egg 732: High molecular compound 795: Liquid fuel 671: Plant 733: Nutrient 796: Gaseous fuel 672: Plant Individual 797: Fertilizer 734: Cellulose 673: Tree and Shrub 735: High molecular compound 798: Fodder 674: Fruit tree 736: Dust 799: Rubbish 675: Tree and Shrub 737: Dust 800: Chemical 676: Grass 738: Smoke 801: Chemical medical 677: Crop 739: Ash 802: Chemical non medical 678: Flowering plant Fieldgrass 740: Rust 803: Agricultural chemical 679: Water plant 741: Dreg 804: Cosmetics 680: Plant Individual 742: Dirt 805: Cosmetics 681: Moss Fern 743: Poison 806: Soap 682: Fungus 744: Ice 807: Toothpaste 683: Mold 745: Solid matter 808: Perfume 684: Mushroom 746: Liquid 809: Paint 685: Bacteria 747: Water Bubble 810: Dye 748: Water 686: Plant Part 811: Adhesive 687: Sprout Seedling 749: Hot water 812: Gun powder 688: Sprout 813: Clothing 750: Waterdrop 689: Seedling 751: Bubble 814: Thread Cloth 690: Root 752: Acid liquid 815: Thread

816: Cloth	879: Window	942: Tool
817: Clothing	880: Floor	943: Edged tool
818: Clothing Main	881: Base	944: Farming tool Harness
819: Clothing Main upper body	882: Houses part element	945: Farming tool
820: Clothing Main lower body	883: House Attachment	946: Harness
821: Clothing part	884: Fitting	947: Fishing Hunting tool
822: Clothing attachment	885: Curtain	948: Job tool action
823: Clothing accessory 824: Glove	886: Sunshade	949: Job tool opening and closing
825: Sock	887: Rug 888: Shelf Stand Platform	950: Job tool join 951: Job tool action
826: Band	889: Garden	951: Job tool action 952: Job tool form
827: Scarf	890: Gate Fence	953: Wheel
828: Necktie	891: Gate	954: Car
829: Headband	892: Fence	955: Rod
830: Mask	893: Tool	956: Tube framework
831: Clothing accessory	894: Household effects Light	957: Wire
832: Hat	895: Furniture	958: Rope chain
833: Footwear	896: Desk	959: Net
834: Ornament	897: Chair	960: Job tool form
835: Rainwear Bedcloth	898: Rack	961: Weapon
836: Rainwear	899: Cupboard	962: Machine
837: Bedcloth	900: Cooking stove	963: Machine general
838: Food	901: Air-conditioner	964: Motor
839: Foodstuff	902: Furniture	965: Job machine
840: Grain	903: Light	966: Transmission machine
841: Vegetable	904: Container	967: Machine part
842: Fish	905: Bottle Pot Tray	968: Electrical machine
843: Meat Egg	906: Bucket Can Barrel	969: Electrical equipment
844: Dried fish Pickle	907: Box	970: Communication equipment
845: Tofu Agar	908: Sack	971: Computer
846: Seasoning	909: Basket Straw bag	972: Applied electronic equipment
847: Cooked Food	910: Table ware	973: Electric parts
848: Rice	911: Bowl Cup Plate	974: Optical instrument
849: Noodle	912: Pot Kettle	975: Camera
850: Bread	913: Chopstick spoon	976: Telescope Magnifier
851: Soup	914: Tableware	977: Eyeglasses
852: Cooked Food	915: Home equipment	978: Optical part
853: Snackfood	916: Stationery Toy	979: Mirror
854: Fruit	917: Stationery	980: Lense
855: Confectionary	918: Document Publication	981: Optical part
856: Beverage Tobacco	919: Document	982: Meter
857: Beverage	920: Publication	983: Meter degree speed
858: Tea	921: Sports equipment	984: Clock
859: Coffee juice	922: Instrument sound producing	985: Meter weight and measure
860: Milk	923: Musical instrument	986: Vehicle
861: Liquor 862: Tobacco	924: Bell Whistle	987: Vehicle Main 988: Vehicle Main Land
863: Building	925: Marker Symbol	989: Vehicle Main Water
864: House	926: Sign 927: Badge	990: Vehicle Main Air
865: House Main	928: Monument	991: Vehicle Part
866: House Part	929: Flag	992: Vehicle Part Land
867: House Part place	930: Token Ticket	993: Vehicle Part Water
868: Room	931: Token	994: Vehicle Part Air
869: Corridor	932: Ticket	334. Verilole Falt All
870: Stairway	933: Lottery	1002: Mental state
871: Veranda	934: Money	1003: Intellectual product
872: Balcony	935: Seal	1004: Studies Subject
873: House part place addition	936: Pointer	1005: Study general
874: Houses part element	937: Ornament	1006: Academic field Subject
875: Roof	938: Image Book Picture	1007: Knowledge Opinion
876: Ceiling	939: Ornament	1008: Knowledge Intelligence
877: Pillars beam	940: Job tool	1009: Opinion
878: Wall	941: Job tool use	1010: Editorial

1011: Theory 1074: Phrase 1137: Trust unfaithful 1012: Theory 1075: Idiomatic phrase 1138: Trust 1013: Outlines detailed exposition 1076: Proverb 1139: Unfaithful 1014: Doctrine 1077: Joke 1140: Good and Evil 1015: Thought 1078: Literary style 1141: Good 1016: Impression 1079: Rhetoric 1142: Evil 1017: Idea 1080: Language Type 1143: Sin 1018: Enlightenment 1081: Sentence Phrase Word 1144: Religion 1019: Logic Meaning 1082: Sentence 1145: Tradition Information Reputation 1020: Logic 1083: Phrase 1146: Tradition History 1021: Principle 1084: Word 1147: Information News 1022: Affair 1148: Reputation 1085: Grammatical 1023: Authenticity 1086: Phonological 1149: Rumor 1024: True 1087: Phonetic 1150: Popularity 1025: False 1088: Pronunciation 1151: Fame Dishonour 1026: Substantial 1089: Tone 1152: Fame 1027: Conceptual 1090: Kanji pronunciation 1153: Dishonour 1028: Semantic 1091: Sign language 1029: Motive 1092: Letter of Alphabet 1154: Action 1030: Main point 1093: Alphabet type 1155: System 1031: Summary 1094: Font 1156: Political system 1032: Theme 1095: Calligraphic style 1157: Government form State affairs 1033: Problem 1096: Label 1158: Government form 1034: Secret principle 1097: Handwriting 1159: State affairs 1035: Methodological 1098: Brush stroke 1160: Military 1036: Plan 1099: Mark Symbol 1161: Law 1037: Artistic creation 1100: Mark 1162: Regulation 1038: Literary creation 1101: Mark type 1163: Legal 1039: Poetry 1102: Coat of Arms 1164: Treaty 1040: Poem 1103: Diagram Schema 1165: Right Obligation 1041: Japanese ode 1104: Diagram 1166: Right 1042: Haiku 1105: Figure 1167: Obligation 1043: Narrative 1106: Table 1168: Economic system 1044: Novel 1107: Score 1169: Economy 1045: Drama 1108: Equation 1170: Public economy 1046: Historical record 1109: Document 1171: Household economy 1047: Physical creation 1110: Article 1172: Income Expenditure 1048: Picture 1111: Article Main 1173: Income 1049: Sculpture 1112: Article Part 1174: Expenditure 1050: Handicraft 1113: Document type 1175: Supply Demand 1051: Calligraphy 1114: Letter Mail 1176: Demand 1052: Photograph Portrait 1115: Publication 1177: Supply 1053: Creation Sound 1116: Information 1178: Profit Loss 1054: Music 1117: Newspaper 1179: Profit 1055: Musical composition 1118: Magazine 1180: Loss 1056: Song 1119: Book content 1181: Share Debt 1057: Created 1120: Catalog 1182: Share 1058: Play 1121: Calendar 1183: Debt 1059: Opera 1122: Ethic Religion 1184: Price Cost 1060: Dance 1123: Ethics 1185: Price 1061: Movie 1124: Humane 1186: Cost 1062: Language 1125: Righteous path 1187: Capital Money 1063: Language Content 1126: Evil course 1188: Capital Fund 1064: Speech 1127: Moral 1189: Property Asset 1065: Name 1128: Virtue 1190: Money 1066: Person name 1129: Vice 1191: Stock 1067: Title 1130: Integrity 1192: Tax 1068: Name 1131: Loyalty 1193: Wage Fee Interest 1069: Number 1132: Fidelity Infidelity 1194: Allowance 1070: Talk Content 1133: Fidelity 1195: Remuneration 1071: Topic 1134: Infidelity 1196: Annuity 1072: Episode 1135: Treachery 1197: Compensation 1073: Greeting 1136: Debt of Favour 1198: Interest

1199: Fee 1262: Sorrow 1325: Appreciation 1200: Security 1263: Joy 1326: Bias 1201: Quotation 1264: Anger 1327: Credence Discredit 1202: Social system 1265: Surprise 1328: Credence 1203: Register 1266: Fear 1329: Discredit 1204: Postal 1267: Feeling towards self 1330: Service Selfishness 1205: Social system 1268: Relief Worry 1331: Loyalty Filial piety 1206: Success Failure Performance 1269: Relief 1332: Chivalry 1207: Success Failure 1270: Worry 1333: Public spirit Selfishness 1208: Success 1271: Satisfaction Dissatisfaction 1334: Public spirit 1209: Failure 1272: Satisfaction 1335: Selfishness 1210: Performance 1273: Dissatisfaction 1336: Feeling towards others in additon 1211: Result 1274: Repentance 1337: Sentiment 1212: Merit Demerit 1275: Introspection 1338: Impressed 1213: Merit 1276: Fretfulness Relax 1339: Praise 1214: Demerit 1277: Fretfulness 1340: Aspiration 1215: Manner Custom 1278: Relax 1341: Sentiments 1216: Custom Fad 1279: Confusion Composure 1342: Mood 1217: Custom 1280: Confusion 1343: Expression 1218: Fad 1281: Composure 1344: Facial 1219: Habit 1282: Self-respect Self-depreciation 1345: Look 1220: Habit 1283: Pride Humility 1346: Cry 1221: Convention 1284: Pride 1347: Laugh 1222: Fashion 1285: Humility 1348: Wonder 1223: Ceremony Event 1286: Self-confidence 1349: Vocal 1224: Ceremony 1287: Self-confidence 1350: Shiver 1225: Celebration 1288: Self-abandonment 1351: Intention 1226: Wedding 1289: Vanity 1352: Will 1227: Funeral 1290: Arrogance Modesty 1353: Determination Hesitation 1228: Religious ceremonial 1291: Arrogance 1354: Determination 1229: Festival 1292: Modesty 1355: Hesitation 1230: Event 1293: Honour Shame 1356: Desire Ego Selflessness 1231: Gathering 1294: Honour 1357: Desires 1232: Gathering 1295: Shame 1358: Ego Selflessness 1233: Exhibition Entertainment event 1296: Ego feeling 1359: Ego 1297: Feeling towards others 1234: Banquet 1360: Selflessness 1298: Empathy 1361: Wish Disappointment 1236: Human activity 1299: Like Dislike 1362: Request 1237: Mind 1300: Like 1363: Wish 1238: Spirit 1301: Dislike 1364: Expectation 1239: Sensation 1365: Disappointment 1302: Love Hatred 1240: Feeling 1303: Love 1366: Roused Discouraged 1241: Perception 1304: Hatred 1367: Spurt 1242: Pain 1305: Degree of Intimacy 1368: Courage 1243: Madness 1306: Familiarity 1369: Discouragement 1244: Drunkenness 1307: Alienation 1370: Tenacity Resignation 1245: Starvation Full 1308: Good intention Malice 1371: Tenacity 1246: Starvation Thirst 1309: Good intention 1372: Enthusiasm 1247: Full 1310: Malice 1373: Obstination 1248: Fatigue 1311: Sympathy Envy 1374: Giving up 1249: Sleep Awake 1312: Sympathy 1375: Weariness 1250: Sleep 1313: Envy 1376: Change of mind 1251: Awake 1314: Gratitude Grudge 1377: Diligence Indolence 1252: Dream 1315: Gratitude 1378: Diligence 1253: Emotion 1316: Grudge 1379: Effort 1254: Emotion 1317: Respect Scorn 1380: Pain Hard work 1255: Excitement Calm 1318: Respect 1381: Indolence 1256: Excitement 1319: Scorn 1382: Fortitude 1257: Calm 1320: Regard Disregard 1383: Patience 1258: Pleasure Suffering 1321: Regard 1384: Endurance 1259: Suffering 1322: Value 1385: Attitude 1260: Pleasure 1323: Disregard 1386: Religious faith 1261: Joy Sorrow 1324: Appreciation bias 1387: Learning Memory

1388: Learning 1451: Denial 1514: Discussion 1389: Practice 1452: Error correction 1515: Meeting 1390: Imitation 1453: Error 1516: Proposition 1391: Memory 1454: Correction 1517: Argument Quarrel 1392: Memorised 1455: Proof Distortion 1518: Argument 1393: Forgetfulness 1456: Proof 1519: Quarrel 1394: Recollection 1457: Distortion 1520: Criticism Defense 1395: Thinking 1458: Preparation 1521: Criticism 1396: Contemplation 1459: Plan 1522: Blame 1397: Belief Doubt 1460: Project plan 1523: Defense 1398: Doubt 1461: Strategy 1524: Speech 1462: Observation Reading Writing 1399: Conviction 1525: Address 1400: Perplexity 1463: Observation 1526: Advocacy 1401: Attention Negligence 1464: Seeing 1527: Exposition 1402: Caution 1465: Eye-witness 1528: Explanation 1403: Negligence 1466: Gaze 1529: Annotation 1404: Concern 1467: First sight 1530: Reports advice 1405: Recognition Understanding 1468: Glance 1531: Report 1406: Recognition 1469: Looking on 1532: Declaration 1407: Understanding 1470: Seeing direction 1533: Advice 1408: Identification 1471: Distant view 1534: Advice 1409: Comparison Collation 1472: Viewing 1535: Pronouncement 1410: Comparison 1473: Overlook 1536: Confession 1411: Collation 1474: Appearing and disappearing 1537: Appeal 1412: Identification Confusion 1475: Patrol 1538: Testimony 1413: Classification 1476: Vigilance 1539: Contribution article 1414: Distinction 1477: Suggestion 1540: Reporting 1415: Confusion 1478: Revelation 1541: Announcements declaration 1416: Selection Rejection 1479: Explicit or Hint 1542: Announcement 1417: Selection 1480: Notice 1543: Declaration 1418: Approval Rejection 1481: Designated 1544: Communication correspondence 1419: Calculation Measurement 1482: Enumeration 1545: Communication 1483: Hearing 1420: Calculation 1546: Correspondence 1421: Measurement 1484: Reading writing 1547: Telegraphic 1422: Investigation Research 1485: Reading 1548: Telephone 1423: Research 1486: Writing 1549: Transmissions information 1424: Enquiry 1487: Writing general 1550: Transmission 1425: Academic investigation 1488: Authoring 1551: Notification 1426: Experiment 1489: Mention in writing 1552: Broadcast 1427: Search 1490: Record activity 1553: Creation 1428: Investigation 1491: Inscribing ownership 1554: Invention 1429: Investigation 1492: Signature 1555: Creation Language 1430: Changing 1493: Seal 1556: Lierary writing 1431: Inspection 1494: Drawing 1557: Creation form 1432: Observation 1495: Speech and Conduct 1558: Creation sound 1433: Guess 1496: Statement 1559: Creation 1434: Imaginations 1497: Expressions 1560: Conduct 1435: Guess 1498: Call by name 1561: Physical movement 1436: Estimation 1499: Expression 1562: Whole body 1437: Fortune-telling 1500: Description 1563: Gesture 1438: Judgement 1501: Translation 1564: Sexual act 1439: Judgements 1502: Utterance Silence 1565: Sitting Standing 1440: Conclusion 1503: Speech 1566: Carrying 1441: Decision 1504: Silence 1567: Standing 1442: Decision 1505: Signal 1568: Sit 1443: Verdict 1506: Talk 1569: Looking up down 1444: Resolution 1507: Conversation 1570: Looking up 1445: Appraisal 1508: Dialogue 1571: Looking down 1446: Solutions undecided 1509: Lecture 1572: Lying down 1447: Solutions 1510: Question Answer 1573: Crouching 1448: Pendency 1511: Question 1574: Crawling 1449: Affirmation Denial 1512: Answer 1575: Foot movement 1450: Affirmation 1513: Consultation 1576: Walking

1577: Running	1640: Pass Fail in exam	1703: Guide
1578: Foot movement	1641: Pass	1704: Lure
1579: Hand movement	1642: Fail	1705: Reception
1580: Mouth movement	1643: Military	1706: Welcome and Send off
1581: Daily living	1644: Enlistment	1707: Welcome
1582: Clothing	1645: Discharge 1646: Celebration Funeral	1708: Send-off
1583: Dressing up	1647: Celebration	1709: Mediation
1584: Change 1585: Undressing	1648: Funeral	1710: Introduction
1586: Wear accessory	1649: Mourning	1711: Arbitration alienation
1587: Food	1650: Marriage Divorce	1713: Alienation
1588: Eating and drinking	1651: Marriage	1713: Alleriation
1589: Drinking	1652: Divorce	1715: Negotiation Promise
1590: Eating	1653: Religious act	1716: Promise
1591: Meal	1654: Worship	1717: Contract
1592: Dwelling	1655: Worship	1718: Guarantee
1593: Residence	1656: Prayer	1719: Cancellation
1594: Being at home	1657: Leisure	1720: Negotiation
1595: Lodging	1658: Travelling sightseeing	1721: Business meeting
1596: Confinement	1659: Travelling	1722: Proposal Withdrawal
1597: Absent	1660: Touring	1723: Proposal
1598: Moving	1661: Outing	1724: Withdrawal
1599: Wandering	1662: Strolling Long ride	1725: Request
1600: Sleeping Waking	1663: Strolling	1726: Persuasion
1601: Going to bed	1664: Long ride	1727: For and against
1602: Rising	1665: Enjoying coolness	1728: For and against
1603: Sleepless vigil	1666: Hunting	1729: Approval
1604: Health Hygiene Beauty care	1667: Fishing	1730: Opposition
1605: Health	1668: Hunting	1731: Consent Refusal
1606: Rest	1669: Sight-seeing	1732: Consent
1607: Leisure	1670: Performance	1733: Refusals
1608: Hygiene Beauty care	1671: Show	1734: Permission Prohibition
1609: Make-up	1672: Stunt	1735: Permission
1610: Haircut	1673: Singing	1736: Prohibition
1611: Bath	1674: Musical performance	1737: Confirmation Denial
1612: Face washing	1675: Dance Play	1738: Confirmation
1613: Life	1676: Martial arts	1739: Denial
1614: Conduct	1677: Play game	1740: Cooperation
1615: Register Deregister	1678: Play	1741: Compromise
1616: Register	1679: Game	1742: Flattery
1617: Deregister	1680: Sport	1743: Collaboration Participation
1618: Inheritance Branch family	1681: Social Acquiantance	1744: Cooperation
1619: Inheritance	1682: Social life	1745: Joining Withdrawing
1620: Branch Extinct family	1683: Acquaintance	1746: Joining
1621: Retirement Comeback 1622: Retirement	1684: Friendship 1685: Reconciliation	1747: Withdrawing 1748: Service
1623: Comeback	1686: Breaking off relation	1749: Contribution
1624: Eminence Downfall	1687: Assembly	1750: Loyal
1625: Eminence	1688: Opening Adjournment of me	
1626: Downfall	1689: Opening of meeting	1752: Conflict
1627: Career Move	1690: Adjournment of meeting	1753: Fight
1628: Assumption of office	1691: Presence Absence	1754: Dispute
1629: Being in office	1692: Presence	1755: War
1630: Change of post	1693: Absence	1756: Competition
1631: Retirement	1694: Encounter Separation	1757: Victory Defeat
1632: Job hunting	1695: Interview	1758: Victory
1633: Academic Military	1696: Separation	1759: Draw
1634: Academic	1697: Refusing audience	1760: Defeat
1635: Entrance	1698: Visit Leaving	1761: Attack Defense
1636: Attending	1699: Visit	1762: Attack
1637: Change of schools	1700: Taking leave	1763: Defense
1638: Graduation	1701: Summons	1764: Punitive Defense
1639: Taking an examination	1702: Invitation	1765: Raising army

1829: Noninterference 1892: Trade 1767: Defense 1830: Liberation 1893: Business transaction 1768: Conquest Surrender 1831: Exemption 1894: Import and export 1769: Conquest 1832: Encouragement 1895: Accepting order Placing order 1770: Surrender 1833: Inducement 1896: Accepting order 1897: Placing order 1771: Resistance Obedience 1834: Lure Charm 1772: Resistance 1835: Encouragement 1898: Exchange 1773: Obedience 1836: Instigation 1899: Sales Purchase 1774: Vengeance 1837: Observance Violation 1900: Sales 1775: Infringement Prevention 1838: Observance 1901: Purchase 1776: Infringement 1839: Violation 1902: Giving Receipt 1777: Prevention 1840: Obstruction Surmount 1903: Giving 1778: Control 1841: Obstruction 1904: Transfer 1779: Management 1842: Surmount 1905: Presentation gift 1780: Rule 1843: Treatment 1906: Conferment 1781: Administration of justice 1844: Treatment 1907: Receipt 1782: Lawsuit Trial 1845: Favorable treatment 1908: Loan Deposit 1783: Lawsuit 1846: Cold treatment 1909: Loan 1784: Trial 1847: Discrimination 1910: Lending 1785: Punishment 1848: Persecution 1911: Borrowing 1786: Public safety 1849: Recognition 1912: Deposit 1787: Arrest 1850: Expression of Gratitude 1913: Deposit 1788: Detention 1851: Discourtesy 1914: Return 1789: Release 1852: Requital of favor 1915: Recompense 1790: Establishment Operation 1853: Retaliation 1916: Collection Delivery 1791: Establishment 1854: Apology 1917: Collection 1792: Operation 1855: Expression of gratitude 1918: Distribution 1793: Affairs 1856: Reward Punishment 1919: Delivery 1794: Appointment and dismissal 1857: Reward 1920: Toil 1795: Appointment 1858: Punishment 1921: Open Suspension of Business 1796: Dismissal 1859: Praise Censure 1922: Labor Vain effort 1797: Impeachment 1860: Praise 1923: Labor 1798: Dispatch 1861: Slander 1924: In charge 1799: Recruitment Employment 1862: Ridicule 1925: Vain effort 1800: Recruitment 1863: Threaten 1926: Being employed 1801: Employment 1864: Deception Conciliation 1927: Going to work 1802: Recommendation 1865: Deception 1928: Duty 1803: Nomination 1866: Conciliation 1929: On duty 1804: Election 1867: Transaction 1930: Suspension of business 1805: Induction 1868: Acquisition 1931: Rest 1806: Guidance 1869: Possession Store 1932: Holiday 1807: Guidance 1870: Possession 1933: Absence 1808: Education 1871: Retention 1934: Leaving early 1809: Civilization 1872: Storage 1935: Strike 1810: Instruction 1873: Hand-carry 1936: Work 1811: Adomonition 1874: Money received Payment 1937: Affairs 1812: Training 1875: Money received 1938: Task 1813: Rescue Aid 1876: Payment 1939: Occupation 1814: Rescue 1877: Investment Consumption 1940: Industry 1815: Assistance 1878: Investment 1941: Business 1816: Help 1879: Consumption 1942: Manufacture 1817: Protection 1880: Economising 1943: Operation 1818: Grace 1881: Extravagance 1944: Production 1819: Care 1882: Replenishment 1945: Construction 1820: Request 1883: Collection Payment 1946: Handicraft 1821: Request 1884: Collection 1947: Repair 1822: Urge 1885: Payment 1948: Decorative 1823: Recruitment 1886: Price hike Price cut 1949: Manufacture process 1824: Order 1887: Price hike 1950: Painting 1825: Restriction 1888: Price cut 1951: Polishing 1826: Regulation 1889: Loss Gain 1952: Carving 1827: Intervention 1890: Gain 1953: Stretching 1828: Non restriction 1891: Loss 1954: Roasting

1766: Invasion

1000. Onaving	2010.10101411011	2000. Cover
1956: Manufacture process	2019: Striking throwing shooting	2081: Concealment
1957: Industrial	2020: Striking	2082: Failure
1958: Agriculture Forestry	2021: Throwing	2083: Abolition
1959: Agricultural	2022: Shooting	2084: Abandonment
1960: Cultivation	2023: Charging Recording	2085: Removal
1961: Farming	2024: Fire fighting	2086: Adjustment
1962: Forestry	2025: Charging electricity	2087: Action
1963: Reforestation	2026: Sound recording	2088: Change Stability
1964: Lumbering	2027: Photography	
		2089: Change
1965: Breeding Harvesting	2028: Charging Recording	2090: Stability
1966: Breeding	2029: Action	2091: Conversion
1967: Stock-farming	2030: Conduct	2092: Exchange
1968: Cultivation	2031: Activity	2093: Reformation
1969: Hunting	2032: Deed	2094: Reform
1970: Hunting	2033: Good deed	2095: Restoration
1971: Fishing	2034: Evil deed	2096: Correction
1972: Harvesting	2035: Killing	2097: Substitution
1973: Mining	2036: Murder	2098: Start End
1974: Harvesting	2037: Suicide	2099: Start
1975: Manufacturing industry	2038: Assault	2100: End
1976: Printing bookbinding	2039: Stealing	2101: Suspension
1977: Printing	2040: Fraud	2102: Intermittence
1978: Bookbinding	2040: Fraud 2041: Adultery	
0		2103: Consecutive
1979: Civil engineering	2042: Depravity	2104: Extinction
1980: Construction	2043: Evil deed	2105: Continuation
1981: Transport	2044: Deed	2106: Repetition
1982: Traffic	2045: Crime Disturbance	2107: Lapse of time
1983: Conveyance	2046: Crime	2108: Movement
1984: Cargo handling	2047: Criminal act	2109: Dynamic
1985: Medical care	2048: Crime Guilt	2110: Motion
1986: Publication entertainment	2049: Disturbance	2111: Vibration
1987: Publications	2050: Execution	2112: Floating
1988: Editing	2051: Enforcement	2113: Flutter
1989: Publication	2052: Carried out	2114: Rotation
1990: Issue	2053: Taking place	2115: Shaking
1991: Entertainments		2116: Bounce
1992: Entertainment	2054: Phenomenon	2117: Standing
1993: Performance	2055: Happening	2118: Sitting
1994: Exhibitions	2056: Misfortune	2119: Invert Fall
1995: Housekeeping	2057: Disaster	2120: Slanting
1996: Needlework	2058: Damage	2121: Walking
1997: Laundry	2059: Incident	2122: Motion
1998: Cooking	2060: Fire	2123: Static
1999: Cleaning	2061: Calamity	2124: Standstill
2000: Housekeeping	2062: Panic	2125: Fixed
2001: Operation	2063: Happening	2126: Stop
2002: Manipulation	2064: Change	2127: Stagnation
2003: Control	2065: Origin Demise	2128: Process
2004: Manipulation	2066: Origin	2129: Migration Arrival Departure
2005: Use	2067: Appearance	2130: Migration
2006: Treatment	2068: Occurrence	2131: Arrival Departure
2007: Installation	2069: Ascendancy	2132: Departure
2008: Packing Stuffing	2070: Revival	2133: Arrival
2009: Packing	2071: Omen	2134: Transit
2010: Wrapping	2072: Exposure	2135: Advance
2011: Stuffing	2073: Disclosure	2136: Land Sea Air travel
2012: Pushing pulling supporting	2074: Establishment	2137: Land travel
2013: Pushing	2075: Completion	2138: Sea travel
2014: Pulling	2076: Demise	2139: Air travel
2015: Supporting	2077: Hiding	2140: Direction Tendency
2016: Piercing perforation	2078: Disappearence	2141: Encircling Wandering
2017: Piercing	2079: Downfall	2142: Encircling

2018: Perforation

2080: Cover

1955: Shaving

2143: Wandering 2206: Inclusion 2269: Shortage 2144: Flow Slide Flight 2207: Rise Drop 2270: Sufficiency 2145: Flow 2208: Ascent Descent 2271: Sufficiency 2146: Slide 2209: Climbing Descent 2272: Insufficiency 2210: Climbing 2147: Flight 2273: Addition 2148: Passthrough Cutoff 2211: Descent 2274: Replenishment 2149: Pass through 2212: Ascent Descent 2275: Increase Decrease 2150: Penetration 2213: Rise 2276: Expansion Contraction 2151: Conduction 2214: Drop 2277: Stretch Contraction 2152: Circulation 2215: Falling Hanging down 2278: Stretch 2153: Cutoff 2216: Falling 2279: Shrinkage 2154: Propulsion Guidance Escape Chase 2217: Hanging down 2280: Enlargement Reduction 2218: Lifting Lowering 2155: Preceding Following 2281: Enlargement 2156: Preceding 2219: Lifting 2282: Reduction 2157: Following 2220: Lowering 2283: Expansion Contraction 2158: Propulsion 2221: Mount Dismount 2284: Expansion 2159: Escape Chase 2222: Mount 2285: Contraction 2160: Escape 2223: Dismount 2286: Lengthening Shortening 2161: Evasion 2224: Floating Sinking 2287: Lengthening 2162: Chase 2288: Shortening 2225: Floating 2163: Advance Retreat 2226: Sinking 2289: Postponement Advance 2164: Advance 2227: Seperation Combination 2290: Postponement 2165: Retreat 2228: Combination 2291: Advance 2166: U turn 2229: Union 2292: Concentration Dilution 2230: Concentration 2167: Retrace 2293: Concentration 2168: Abreast 2231: Accumulation Pile 2294: Dilution 2169: Crossing over 2232: Accumulation 2295: Inflation Devaluation 2170: Crossing water 2233: Pile 2296: Inflation 2171: Crossing gap 2234: Unification 2297: Devaluation 2172: Coming Going 2235: Combination 2298: Vicissitudes 2173: Outgoing Returning 2236: Mixture 2299: Flourishing 2174: Outgoing 2237: Blending 2300: Deterioration 2175: Returning 2238: Connection 2301: Development Retrogression 2176: Leaving Arriving 2239: Adhesion 2302: Development 2177: Leaving 2240: Contact Approach Collision 2303: Retrogression 2178: Arriving 2241: Contact Approach 2179: Rise Descent 2304: Natural phenomenon 2242: Collision 2180: Rise 2243: Separation 2305: Non life phenomenon 2181: Descent 2244: Detachment 2306: Object 2182: Coming in out 2245: Dispersion 2307: Non stimulus 2183: Exit Entry 2246: Erosion 2308: Chemical phenomenon 2184: Exit 2247: Disassembly 2309: Reaction 2185: Entry 2248: Fray 2310: Fire 2186: Putting out in 2249: Severance 2311: Ignition 2187: Putting out 2250: Flaking 2312: Combustion 2188: Putting in 2251: Deformation 2313: Extinguishment 2189: Extraction Insertiong 2252: Destruction 2314: Physical phenomenon 2190: Extraction 2253: Bending 2315: Physical change 2191: Insertion 2254: Folding 2316: State change 2192: Absorption Leak 2255: Folding 2317: Solidification 2193: Absorption 2256: Turn inside out 2318: Melting 2194: Leak 2257: Undulation 2319: Evaporation 2195: Pouring Drawing 2258: Bulge 2320: Liquefaction 2196: Pouring 2259: Indent 2321: Sublimation 2197: Drawing 2260: Arrangement 2322: Emulsification 2198: Opening Closing 2261: Deformation 2323: Dryness Moisture 2199: Opening 2262: Increase Decrease 2324: Dryness 2200: Closing 2263: Increase Decrease 2325: Moisture 2201: Burying Flooding 2264: Increase Decrease 2326: Clarity 2202: Burying 2265: Increase 2327: Clear 2203: Flooding 2266: Decrease 2328: Milky 2204: Encirclement Inclusion 2267: Excess Shortage 2329: Pollution 2205: Encirclement 2268: Excesses 2330: Physical change

2331: Thermal 2332: Heat		
2332: Heat	2394: Growth	2455: Reason
	2395: Luxuriant growth	2456: Purpose
2333: Cold	2396: Bloom	2457: Evidence
2334: Wave	2397: Bearing fruit	2458: Similarity
2335: Electricity	2398: Aging	2459: Identical
2336: Force physics	2399: Aging animal	2460: Similar
2337: Stimulus	2400: Aging plant	2461: Difference
2338: Brightness	2401: Rebirth	2462: Conformance Nonconformance
2339: Light	2402: Death	2463: Conformance
2340: Darkness	2403: Death animal	2464: Nonconformance
2341: Shadow	2404: Death plant	2465: Correspondence
2342: Shade light	2405: Physiology	2466: Mutual
2343: Shade of colour	2406: Breathing	2467: Connection
2344: Gloss	2407: Blood circulation Pulse	2468: Correspondence
2345: Optical	2408: Discharge	2469: Contrast
2346: Light ray	2409: Secretion	2470: Opposite
2347: Light source	2410: Reproduction	2471: Parallel
2348: Projection	2411: Fermentation	2472: Intersection
2349: Luminescence	2412: Physiology	2473: Independency Dependency
2350: Flickering	2413: Health Imperfection	2474: Independency
2351: Colour	2414: Health	2475: Dependency
2352: Colour tint	2415: Imperfection	2476: Balance Imbalance
2353: Colour change	2416: Sickness	2477: Balance
2354: Sound	2417: Onset	2478: Imbalance
2355: Smell	2418: Recovery	2479: Superiority Inferiority
2356: Taste	2419: Disease type	2480: Superiority
2357: Feel of touch	2420: Physical disability	2481: Equality
2358: Meteoroogical Astronomical	2421: Injury	2482: Inferiority
2359: Meteorologiacal phenomenor	n	
2360: Weather	2423: Existence	2483: Characteristic
2361: Temperature	2424: Presence	2484: Attribute
2362: Cold	2425: Positive	2485: Attribute Agent
2363: Warmth	2426: Negative	2496: Porconality
2303. Wallilli		2486: Personality
2364: Rain	2427: Distribution	2487: Disposition
2364: Rain	2427: Distribution	2487: Disposition
2364: Rain 2365: Snow	2427: Distribution 2428: Intrinsic	2487: Disposition 2488: Character
2364: Rain 2365: Snow 2366: Dew Frost	2427: Distribution 2428: Intrinsic 2429: Remaining	2487: Disposition 2488: Character 2489: Habit
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay  2432: Categorisation System 2433: Category 2434: Type	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property 2493: Advantage Disadvantage
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze 2371: Fog 2372: Haze 2373: Wind	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay  2432: Categorisation System 2433: Category	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property 2493: Advantage Disadvantage 2494: Advantage
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze 2371: Fog 2372: Haze	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay  2432: Categorisation System 2433: Category 2434: Type	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property 2493: Advantage Disadvantage 2494: Advantage 2495: Disadvantage
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2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze 2371: Fog 2372: Haze 2373: Wind 2374: Wave	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay  2432: Categorisation System 2433: Category 2434: Type 2435: Similar type 2436: Item	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property 2493: Advantage Disadvantage 2494: Advantage 2495: Disadvantage 2496: Essence 2497: Content
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2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze 2371: Fog 2372: Haze 2373: Wind 2374: Wave 2375: Tide 2376: Natural disaster 2377: Thunder 2378: Wind damage Flood	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay  2432: Categorisation System 2433: Category 2434: Type 2435: Similar type 2436: Item 2437: Example 2438: Primary Secondary	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property 2493: Advantage Disadvantage 2494: Advantage 2495: Disadvantage 2496: Essence 2497: Content 2498: Structure 2499: Power Ability
2364: Rain 2365: Snow 2366: Dew Frost 2367: Dew 2368: Frost 2369: Cloud 2370: Fog Haze 2371: Fog 2372: Haze 2373: Wind 2374: Wave 2375: Tide 2376: Natural disaster 2377: Thunder	2427: Distribution 2428: Intrinsic 2429: Remaining 2430: Conservation 2431: Stay  2432: Categorisation System 2433: Category 2434: Type 2435: Similar type 2436: Item 2437: Example 2438: Primary Secondary 2439: Primary	2487: Disposition 2488: Character 2489: Habit 2490: Attribute Thing 2491: Quality 2492: Physical property 2493: Advantage Disadvantage 2494: Advantage 2495: Disadvantage 2496: Essence 2497: Content 2498: Structure 2499: Power Ability 2500: Power Agent
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