

Automatic Meaning Discovery Using Google: The Data of Experiments with WordNet Categories

100 total trials.
87% average accuracy

Table 1: WordNet Comparison Test Results

Experiment code	Accuracy	Experiment code	Accuracy
actor-hyponym	80%	administrativedistr-hyponym	100%
africa-partmeronym	90%	animalorder-hyponym	95%
arachnida-membermeronym	90%	area-hyponym	60%
arthropodfamily-hyponym	100%	artifact-hyponym	80%
asteriddicotgenus-hyponym	100%	author-hyponym	90%
aware-attribute	100%	beetle-hyponym	95%
birdgenus-hyponym	100%	bulblike-similar	80%
bulbousplant-hyponym	90%	cactaceae-membermeronym	100%
cardinal-similar	90%	change-hyponym	85%
change-hyponym	80%	changeintegrity-hyponym	90%
changeofstate-hyponym	95%	city-hyponym	85%
clothes-hyponym	100%	collection-hyponym	85%
compositae-membermeronym	95%	compound-hyponym	90%
concaveshape-hyponym	55%	condition-hyponym	75%
criticize-hyponym	70%	crucifer-hyponym	100%
decorate-hyponym	90%	dicotgenus-hyponym	90%
direction-hyponym	85%	disease-hyponym	95%
dog-hyponym	100%	employee-hyponym	90%
ending-hyponym	50%	england-partmeronym	100%
enter-hyponym	65%	equipment-hyponym	75%
european-hyponym	90%	fern-hyponym	100%
fishgenus-hyponym	95%	france-partmeronym	95%
friend-hyponym	80%	front-hyponym	95%
fungusgenus-hyponym	100%	furniture-hyponym	90%
grass-hyponym	100%	herb-hyponym	95%
hindudeity-hyponym	90%	inflammation-hyponym	95%
injured-attribute	90%	intellectual-hyponym	85%
inventor-hyponym	100%	kill-hyponym	75%
laborer-hyponym	70%	layer-hyponym	60%
lepidoptera-membermeronym	100%	linguist-hyponym	75%
list-hyponym	90%	literarywork-hyponym	90%
lizard-hyponym	85%	make-hyponym	85%
malign-attribute	80%	material-hyponym	80%
mechanicaldevice-hyponym	65%	medicine-hyponym	90%
molluskgenus-hyponym	100%	neuralstructure-hyponym	85%
palm-hyponym	95%	part-hyponym	80%
percoidfish-hyponym	90%	period-hyponym	70%
pitchedbattle-hyponym	100%	placement-hyponym	90%
playwright-hyponym	95%	presidentoftheuni-hyponym	95%
put-hyponym	75%	remove-hyponym	90%
river-hyponym	60%	sapindales-membermeronym	95%
seat-hyponym	85%	simple-similar	90%
singer-hyponym	95%	skeletalmuscle-hyponym	95%
skilledworker-hyponym	95%	skindisease-hyponym	100%
software-hyponym	100%	soldier-hyponym	85%
spiritualbeing-hyponym	90%	sport-hyponym	90%
star-hyponym	90%	system-hyponym	60%
texas-partmeronym	95%	tree-hyponym	90%
unfriendly-attribute	60%	user-hyponym	80%
vegetable-hyponym	90%	wind-hyponym	85%

Table 2: hyponym for “actor”-48106-3

Training Data

<i>Positive Training</i>	(25 cases)			
Burbage	Burton	Cooper	De Niro	Depardieu
Fairbanks	Guinness	Hoffman	Hopkins	Jolson
Kean	Lemmon	Lorre	Mitchum	Newman
O’Toole	Redford	actress	leading man	star
supernumerary	tragedian	understudy	upstager	walk-on
<i>Negative Training</i>	(25 cases)			
Mercury	Reticulitermes flavipes	Rubus hispidus	William Rowan Hamilton	centripetal force
coconspirator	compact disc read-only memory	decentralisation	engine room	entertainment
entrench	for good measure	generalship	glisten	hackle
hoity-toity	jackknife	keratosis blennorrhagica	permeability	rebate
second estate	secularised	transmogrify	weblike	whodunit
<i>anchors</i>	(6 dimensions)			
Karloff	character actor	genus Lepidochelys	heavy	lollipop lady
too little				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Allen, Cagney, Gable, Gielgud, Hanks, Richardson, Robinson, mime, plant	imbecile, phony, staircase
Negative Predictions	Granville-Barker	Gadus, Habernaria nivea, Lazzaro Spallanzani, assert oneself, death chamber, figural blindness, free list
Accuracy	16/20 = 80.00%	

Table 3: hyponym for “administrative distr”-42412-3

Training Data

<i>Positive Training</i>	(25 cases)			
African country	Asian country	Barbados	Cape Verde	Etruria
Greenwich	Kiribati	Maldives	Malta	Mauritius
Papua New Guinea	Solomon Islands	Soviet Union	Trinidad and Tobago	Tuvalu
Westminster	commune	federal district	kingdom	municipality
native land	reservation	shire	state	ward
<i>Negative Training</i>	(25 cases)			
Arisaema atrorubens	D	Guevara	Joan Miro	Luxemburger
Sir Thomas Gresham	WbS	affiliated	animadvert	attrition
chorditis	enveloping	genus Compsognathus	helpmate	heretic
maraschino cherry	opportunistic infection	positron	prime mover	privately held corporation
sea onion	stomach ache	strategically	tympanic	zidovudine
<i>anchors</i>	(6 dimensions)			
Antigua and Barbuda	Mus musculus	Ukraine	spyhole	structural anthropology
tax haven				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Australia, Brooklyn, Cuba, Cyprus, Dominican Republic, Indonesia, Marshall Islands, Micronesia, Russia, prefecture	
Negative Predictions		Plutonian, William Felton Russell, common horsetail, corpus striatum, department of sociology, dibbuk, genus Schizanthus, greatest common divisor, parochial school, put to sleep
Accuracy	20/20 = 100.00%	

Table 4: partmeronym for “Africa”-45283-9

Training Data

<i>Positive Training</i>	(25 cases)			
African country	Boer War	Botswana	Burundi	Chad
Congo	Egypt	Equatorial Guinea	Gabon	Guinea
Ivory Coast	Kenya	Lake Tanganyika	Lake Victoria	Liberia
Mozambique	Nigeria	Roman Empire	Senegal	Shari
Sierra Leone	Somali peninsula	Tanzania	Uganda	Zimbabwe
<i>Negative Training</i>	(25 cases)			
Acalypha	Cornelia Otis Skinner	Gleditsia triacanthos	President Hoover	Rudolf Christian Karl Diesel
bandoleer	bank bill	blood money	bovine	cryptographer
genus Kenyapithecus	halve	heterocercal	ironware	matinee idol
model	pacing	pad of paper	personalize	pub
saphenous vein	solenoid	support level	systematic	tabby cat
<i>Anchors</i>	(6 dimensions)			
Djibouti	Lesotho	Mali	Thibet	heterospory
surface lift				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Algeria, Ghana, Lake Chad, Libya, Nubia, Somalia, Sub-Saharan Africa, Sudan, West Africa	actual
Negative Predictions	Barbary	Black Panthers, Rustbelt, afflicker, hotbed, lightweight, long whist, nonequivalent, pleomorphism, sodium chlorate
Accuracy	18/20 = 90.00%	

Table 5: hyponym for “animal order”-6206-3

Training Data

<i>Positive Training</i>	(25 cases)			
Aepyorniformes	Ceratopsia	Crocodylia	Cyclostomata	Dinoflagellata
Heliozoa	Heterostraci	Insessores	Marginocephalia	Menurae
Mycoplasmatales	Mycrosporidia	Ornithischia	Oscines	Passeriformes
Petromyzoniformes	Rhynchocephalia	Rickettsiales	Solenichthyes	Spirochaetales
Squamata	Torpediniformes	Tyranni	Zygnematales	order Myxobacteria
<i>Negative Training</i>	(25 cases)			
Albert Bruce Sabin caught up dynasty formalization powderize	GSR caulked equable foster home relay	Robert King Merton caustic family Mullidae love seat saccharase	bladder cherry concatenation family circle order Procellariiformes stadium	carving knife deep freeze fifty-fifth pleach unpeaceable
<i>anchors</i>	(6 dimensions)			
Berycomorphi sulphur	Gregarinida	Zeomorphi	glace	human dynamo

Testing Results

	Positive tests	Negative tests
Positive Predictions	Chelonia, Clamatores, Eubacterales, Gymnophiona, Haemosporidia, Pseudomonadales, Rajiformes, Rheiformes, Stereospondyli, Temnospondyli	greensickness
Negative Predictions		SA node, William Henry, canalis vertebralis, diagonal, hake, hexahedron, lascar, sedum, tutorially
Accuracy	19/20 = 95.00%	

Table 6: membermeronym for “Arachnida”-8346-7

Training Data

<i>Positive Training</i>	(25 cases)			
Acaridae	Arachnida	Aranea	Araneae	Chelifer
Ctenizidae	Ixodes	Ixodidae	Phalangida	Phalangidae
Sarcoptidae	Scorpionida	Theraphosidae	Theridiidae	Trombiculidae
acarid	acarine	acarus	false scorpion	spider mite
tick	trap-door spider	trombiculiid	trombidiid	whipscorpion
<i>Negative Training</i>	(25 cases)			
Dutch elm fungus	Holy City	Pityrogramma chrysophylla	Przevalski’s horse	Saponaria
Triturus	cobalamin	concentration camp	do one’s best	earning per share
emerald shiner	flies	ha-ha	hosanna	incense tree
incienso	indestructible	knife-edge	moderating	nephrosclerosis
propellor	shaving-brush tree	upkeep	wood mouse	woodsman
<i>anchors</i>	(6 dimensions)			
Acarina	Xenorhyncus asiaticus	comb-footed spider	hard tick	ingratiatingly
syncarp				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Argasidae, Argiope, Argiopidae, Mastigoproctus, Trombicula, Trombidiidae, soft tick, vinegarroom	
Negative Predictions	scorpion, tarantula	African monitor, bath chair, cheerlead, family Pristidae, genus Habenaria, giant, salted, slip noose, versed, zooid
Accuracy	18/20 = 90.00%	

Table 7: hyponym for “area”-13818-3

Training Data

<i>Positive Training</i>	(25 cases)			
assembly hall	auditorium	back room	bar	bullpen
cardroom	checkroom	chimney corner	choir	classroom
closet	clubroom	compartment	court	dining area
dining room	furnace room	goalmouth	hideaway	hospital room
layby	locker room	lounge	nave	turnaround
<i>Negative Training</i>	(25 cases)			
Church of Rome	Ice pack	Richard Milhous Nixon	Romania	agricultural laborer
aircraft carrier	auto mechanics	balloonfish	descending aorta	get weaving
hypha	killer	lactifuge	naturally	pixilated
political arena	pompano	pressing	pulchritude	rock salt
sequoia	teachership	treat	unwritten law	vintner
<i>anchors</i>	(6 dimensions)			
North Dakotan	Pisonia	ballroom	belfry	bird of Minerva
dressng room				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bedroom, cubby, living room, poolroom, presence chamber	atar, indignantly, picture window
Negative Predictions	anechoic chamber, box, chamber, conference room, gallery	Mark Tobey, browntail, calcium phosphate, dualistic, family Muridae, tree lizard, wych elm
Accuracy	12/20 = 60.00%	

Table 8: hyponym for “arthropod family”-8338-3

Training Data

<i>Positive Training</i>	(25 cases)				
Argasidae	Balanidae	Cerambycidae	Chrysomelidae	Cleridae	
Dytiscidae	Glossinidae	Gyrinidae	Homaridae	Lithodidae	
Lucanidae	Lycosidae	Majidae	Melolonthidae	Mysidae	
Oestridae	Palaemonidae	Palinuridae	Peripatopsidae	Phalangidae	
Portunidae	Staphylinidae	Tetranychidae	Theraphosidae	Theridiidae	
<i>Negative Training</i>	(25 cases)				
Arkansas kingbird	Bloch	Hz	Irak	St Crispin	
birth pangs	clear-sighted	congener	cytoarchitectonic	directed verdict	
flindosy	frappe	genus Pinus	grippe	lumbosacral	
myrtle beech	non-Jew	on the quiet	order Protura	pudding berry	
text editor	thane	tinge	turkey leg	vitaminize	
<i>Anchors</i>	(6 dimensions)				
Gasterophilidae	Klavier	Nephropsidae	Tachinidae	fervidness	
kamikaze					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Cecidomyidae, Coccinellidae, Dermestidae, Lamellicornia, Orchestiidae, Phthiriidae, Porcellionidae, Pulicidae, Sarcoptidae, Tenebrionidae	
Negative Predictions		Bunker Hill, Tianjin, barrier, fragrance, imbiber, lionet, mountaineer, neutrality, quarter-circle, sapidity
Accuracy	20/20 = 100.00%	

Table 9: hyponym for “artifact”-19-3

Training Data

<i>Positive Training</i>	(25 cases)			
antiquity	artifact	cone	construction	creation
cushioning	decker	electroplate	excavation	fixture
float	goods	line	marker	material
opening	paving material	sphere	square	squeaker
strip	surface	thing	toy	weight
<i>Negative Training</i>	(25 cases)			
Fast of Ab	J. P. Morgan	Protea cynaroides	Quassia amara	Romanesque architecture
Upper Carboniferous period	black sea bass	christlike	free association	genus Plautus
grower	jowly	loan	moldable	on occasion
pertinacity	reconstructed	red dwarf star	scissors grip	sea scallop
seek out	starlight	toggle	unmediated	venipuncture
<i>anchors</i>	(6 dimensions)			
Johannes Evangelista Purkinje sheet	genus Gaillardia	knitting machine	lemon	restoration

Testing Results

	Positive tests	Negative tests
Positive Predictions	article, block, building material, covering, decoration, enclosure, stuff, track	Rwanda, paradox
Negative Predictions	Americana, anachronism	Charcot, Huntington’s disease, Jerry Lee Lewis, arriver, jampot, saran, tropic bird, uncompleted
Accuracy	16/20 = 80.00%	

Table 10: hyponym for “asterid dicot genus”-57383-3

Training Data

<i>Positive Training</i>	(25 cases)			
Anaphalis	Anthemis	Arnoseris	Bellis	Boltonia
Brachycome	Buphthalmum	Cacalia	Callistephus	Carthamus
Crepis	Dimorphotheca	Echinacea	Emilia	Erigeron
Eriophyllum	Gerea	asterid dicot genus	genus Ambrosia	genus Arnica
genus Calendula	genus Engelmannia	genus Gaillardia	genus Gazania	subgenus Calliopsis
<i>Negative Training</i>	(25 cases)			
Argos	Castilleja	Jerevan	Kendal	Lord's table
Whig Party	acrid	automatic pistol	checkrow	combat ceiling
comparative psychology	embassador	genus Blattella	gormless	ichorous
in apposition	morris dancing	pageant	phyloquinone	red-faced
set on	supine	trompe-l'oeil	undetactable	watery
<i>Anchors</i>	(6 dimensions)			
Argyroxiphium	Cnicus	Echinops	laundryman	sextuple
standard				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Ageratina, Amberboa, Arctium, Arctotis, Chrysothamnus, Conoclinium, Enceliopsis, genus Andryala, genus Chaenactis, genus Erechites	
Negative Predictions		Farmer, George Berkeley, Psephurus, anticholinergic drug, asbestos, electrical condenser, extracellular fluid, genus Lonchocarpus, neostigmine, newsman
Accuracy	20/20 = 100.00%	

Table 11: hyponym for “author”-53594-3

Training Data

<i>Positive Training</i>	(25 cases)			
Aiken	Algren	Auchincloss	Baldwin	Baum
Benet	Bunyan	Burroughs	Caldwell	Camus
Cather	author	authoress	biographer	contributor
hack	librettist	poet	rhymmer	scriptwriter
space writer	speechwriter	word-painter	wordmonger	wordsmith
<i>Negative Training</i>	(25 cases)			
Agropyron cristatum	Cassegrainian telescope	Pseudolarix	Social Security	anthropoid
belle de nuit	black-eyed Susan vine	bootless	cheesecake	cope
family Athiorhodaceae	glam up	grovelling	hematopoeitic stem cell	hot cereal
ineffectually	jodhpur	kick turn	marline	moistly
negus	nourish	rock python	take ten	warrant
<i>Anchors</i>	(6 dimensions)			
Bierce	Carroll	Publius Vergilius Maro	conical	do it
encyclopedist				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Alger, Asch, Asimov, Austen, Baraka, Barth, Boyle, Cervantes, journalist	laborsaving
Negative Predictions	drafter	Asclepias, Edentata, genus Lomogramma, gimbals, lota, mine disposal, noble-minded, telpher, weather station
Accuracy	18/20 = 90.00%	

Table 12: attribute for “aware”-90157-23

Training Data

<i>Positive Training</i>	(25 cases)			
active	adventurous	alert	animated	aware
compliant	conquerable	conscious	docile	dynamic
energetic	enthusiastic	insecure	manageable	obedient
ready	responsive	sensitive	submissive	surmountable
susceptible	unprotected	voluntary	vulnerable	wary
<i>Negative Training</i>	(25 cases)			
Clematis baldwinii	Hebrew alphabet	Shirley Temple Black	Superior	bishop’s pine
bloody shame	childishly	dessert apple	dork	eudaimonia
frozen pudding	galvanic cell	gun barrel	half-baked	horny
hydrographical	intramuscular injection	macushla	optic disc	prostration
quick-freeze	sarcastic	shockingly	spiny-headed worm	unfolded
<i>Anchors</i>	(6 dimensions)			
ambitious	family Tarsiidae	good	inclined	neuralgic
oxygenation				

Testing Results

	Positive tests	Negative tests
Positive Predictions	awake, dangerous, enterprising, prepared, rested, sensible, spirited, tame, tractable, willing	
Negative Predictions		Saprolegniales, bright side, bunghole, get behind, health professional, iceman, officialize, pop fly, racily, tigon
Accuracy	20/20 = 100.00%	

Table 13: hyponym for “beetle”-10574-3

Training Data

<i>Positive Training</i>	(25 cases)			
Dutch-elm beetle	Mexican bean beetle	Spanish fly	beetle	blister beetle
calosoma	carpet beetle	clerid beetle	click beetle	darkling beetle
deathwatch beetle	elaterid beetle	flea beetle	glowworm	ground beetle
ladybug	leaf beetle	rice weevil	scarabaeid beetle	seed beetle
stag beetle	tiger beetle	vedalia	water beetle	whirligig beetle
<i>Negative Training</i>	(25 cases)			
Armillariella	Crohn’s disease	Ebro	Lucius DuBignon Clay	Ocimum basilicum
SA	Saint Baeda	Thames River	alate	aspirin
black hellebore	credo	diethylmalonylurea	disburse	fiduciary duty
frailty	genus Pleurosorus	handmade	heat pump	malinois
pacification	punitory	rental collection	smudge	wilting
<i>Anchors</i>	(6 dimensions)			
amphibious aircraft	archosaurian reptile	bee beetle	long-horned beetle	sawyer
self-torture				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bark beetle, black carpet beetle, boll weevil, bombardier beetle, firefly, oil beetle, rove beetle, snout beetle, two-spotted ladybug, weevil	John Robinson Jeffers
Negative Predictions		callosotomy, natatorium, overspreading, physical fitness, pouched mammal, stalinise, vitalise, wash off, yobo
Accuracy	19/20 = 95.00%	

Table 14: hyponym for “bird genus”-6975-3

Training Data

<i>Positive Training</i>	(25 cases)			
Alauda	Contopus	Dendrocolaptes	Drepanis	Estrilda
Formicarius	Hylophylax	Luscinia	Menura	Motacilla
Muscicapa	Oenanthe	Pachycephala	Passer	Ploceus
Poocetes	Prunella	Pyrocephalus	Spizella	Tyrannus
genus Aepyornis	genus Anomalopteryx	genus Pitta	genus Protoavis	genus Sinornis
<i>Negative Training</i>	(25 cases)			
Ayatollah Khomeini	Callirhoe	Lysichiton americanum	Sarracenia minor	Tara
black humor	blub	degree day	family Odontaspidae	fulgurating
furious	genus Amberboa	genus Gulo	genus Uvularia	holy clover
jury mast	open-end wrench	pulley	race meeting	scoop out
stroll	third eyelid	thyrotrophin	tufted gentian	vacuolization
<i>Anchors</i>	(6 dimensions)			
Atrichornis	counteract	genus Apteryx	genus Rhea	mandrill
philatelic				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Anthus, Carpodacus, Furnarius, Hylocichla, Pinicola, Poephila, Procnias, Sialia, Spinus, Struthio	
Negative Predictions		common beech, evoked, examiner, intestinal juice, judgment of conviction, keratectasia, pedagogical, prednisolone, sapience, unwinding
Accuracy	20/20 = 100.00%	

Table 15: similar to for “bulblike”-100763-19

Training Data

<i>Positive Training</i>	(25 cases)			
acerate	apiculate	ball-shaped	bulblike	capitate
coccoid	cordate	cumuliform	deltoid	dolabriform
elliptic	ensiform	hastate	lanceolate	lyrate
moonlike	obovate	obtuse	orbiculate	ovate
peltate	perfoliate	reniform	roundish	simple
<i>Negative Training</i>	(25 cases)			
Holy Father	Matricaria	Ozarks	aplastic anaemia	bolographic
cottonmouth moccasin	counterrevolutionist	falsely	fiction	gay lib
genus Tibicen	girlhood	hard cider	intensively	melon ball
nonrandom	orthodontics	rolled-up	screwtop	shock
smallholder	spatiality	sponge morel	tongue-in-cheek	white feather
<i>anchors</i>	(6 dimensions)			
Citrus grandis	Lake Winnipeg	Tussilago	cuneate	linear
pandurate				

Testing Results

	Positive tests	Negative tests
Positive Predictions	acuminate, caudate, discoid, nutlike, oblanceolate, oblong, ringlike, unlobed	knifelike, unshrinkable
Negative Predictions	pear-shaped, round	English daisy, context of use, psychoactive drug, sleet, stock-still, suborder Pachycephalosaurus, treasurer’s check, world organization
Accuracy	16/20 = 80.00%	

Table 16: hyponym for “bulbous plant”-64663-3

Training Data

<i>Positive Training</i>	(25 cases)			
Saint-Bernard's-lily	agapanthus	asphodel	autumn crocus	belladonna lily
blood lily	brodiaea	chinchinchee	crocus	crown imperial
daffodil	death camas	false asphodel	flag	freesia
globe lily	golden star	liliaceous plant	lily	lilyturf
scilla	sego lily	star-of-Bethlehem	starflower	wild hyacinth
<i>Negative Training</i>	(25 cases)			
Dies Irae	Lespedeza cuneata	Missouri Compromise	Napoli	Old Delhi
Pierre Simon de Laplace	Rudyard Kipling	Serbo-Croatian	bonnethead	chamois cress
dolor	genus Euglena	genus Sarcocystis	hooky	ill humour
impanel	lemon oil	palmatifid	pictograph	relativism
self-serving	surplusage	thereto	unamused	wood warbler
<i>Anchors</i>	(6 dimensions)			
adobe lily	bulbous plant	colicroot	stylistic	subfamily Cabombaceae
unhelpfully				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bath asparagus, clintonia, dogtooth violet, fritillary, gladiolus, grape hyacinth, hippeastrum, mission bells, sea squill, stink bell	Hedeoma pulegioides, yellow bedstraw
Negative Predictions		baggy, barycenter, commonweal, garrotter, hollering, in awe of, laureate, neck
Accuracy	18/20 = 90.00%	

Table 17: membermeronym for “Cactaceae”-58540-7

Training Data

<i>Positive Training</i>	(25 cases)			
Aporocactus	Barbados gooseberry	Echinocereus	Harrisia	Knowlton’s cactus
Lemaireocereus	Nopalea	Opuntia	Rhipsalis	Schlumbergera
Zygocactus	barrel cactus	chichipe	cholla	crab cactus
echinocactus	epiphyllum	garambulla	genus Echinocactus	genus Epiphyllum
genus Mammillaria	living rock	mistletoe cactus	rattail cactus	saguaro
<i>Negative Training</i>	(25 cases)			
Delicious	Gary Cooper	Hydnum	Japanese persimmon	Meniscium
Oliver Heaviside	cabinetmaking	consolidative	corbelled	derma
fellow worker	genus Oecanthus	impure	overheated	parlance
percentage	profit sharing	proportional font	rest on	seignior
shorebird	square yard	sugar-bush	trophoblast	windfall profit
<i>anchors</i>	(6 dimensions)			
Pap smear	Pereskia	flower-cup fern	genus Galago	mescal
nopal				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Carnegiea, Cereus, Easter cactus, Gymnocalycium, Hattoria, Hylocereus, Lophophora, Selenicereus, coryphantha, prickly pear	
Negative Predictions		Harrison, Irish potato, crackbrained, deposition, gripsack, luggage carrier, myalgic, parathion poisoning, pit bull terrier, within
Accuracy	20/20 = 100.00%	

Table 18: similar to for “cardinal”-101577-19

Training Data

<i>Positive Training</i>	(25 cases)			
fifteen	fifty-one	fifty-seven	forty-eight	forty-four
forty-one	forty-two	seventeen	seventy-three	seventy-two
sixteen	sixty-five	sixty-nine	sixty-seven	sixty-six
thirteen	thirty	thirty-eight	thirty-five	thirty-nine
twenty-five	twenty-four	twenty-one	twenty-seven	twenty-two
<i>Negative Training</i>	(25 cases)			
Abadan	Christmas green	European smelt	George Stephenson	Rocky Mountains
ScD	Tonga	aerospace medicine	autolysis	capital of Paraguay
effigy	eternise	fergusonite	flapping	gigantic
linkboy	meatloaf	premedical	rakness	short pants
squilla	sun parlour	through empirical observation	upside down	utter
<i>Anchors</i>	(6 dimensions)			
forty-five	four	hot-rock penstemon	leave-taking	screwbean mesquite
two				

Testing Results

	Positive tests	Negative tests
Positive Predictions	eighteen, fifty, fifty-six, forty-nine, sixty-four, sixty-two, thirty-six, twenty-three	
Negative Predictions	seven, zero	administrable, cochineal, collagenous, devourer, family Blechnaceae, genus Dugong, greenmail, hitchrack, procaryote, summer
Accuracy	18/20 = 90.00%	

Table 19: hyponym for “change”-76385-13

Training Data

<i>Positive Training</i>	(25 cases)			
accustom	age	allegorize	awaken	brutalize
clear	cry	deaden	decrepitate	demythologize
desensitize	develop	edit	form	inactivate
make	opalize	oxidise	revolutionize	ripen
round off	spike	stabilize	strengthen	unite
<i>Negative Training</i>	(25 cases)			
John Marquand	Sir Thomas Lawrence	ash gray	astir	auto racing
broom beard grass	client-centered therapy	cotton bollworm	customarily	diffident
family doctor	irritability	lariat	lupin	lymphatic tissue
mandarin duck	master race	petitio principii	piecework	soapbox
stretchability	strip show	trig	unstylish	waterweed
<i>Anchors</i>	(6 dimensions)			
Catharanthus roseus	affect	alchemize	change	motherese
rascal				

Testing Results

	Positive tests	Negative tests
Positive Predictions	acerbate, alcoholize, alkalinize, etiolate, indispose, inseminate, ossify, sober, vascularize, wet	illuminating, pleased, polls
Negative Predictions		Lavandula latifolia, cosmetic dentistry, megaton, mother-naked, parosamia, table turning, tie rack
Accuracy	17/20 = 85.00%	

Table 20: hyponym for “change”-36543-3

Training Data

<i>Positive Training</i>	(25 cases)			
allomerism	birth	bombshell	breath of fresh air	concentration
conversion	detriment	development	eye opener	ground swell
human death	live birth	loss	mutation	pyrolysis
replacement	sea change	separation	shift	sinking
strengthening	stunner	tide	twinkle	waning
<i>Negative Training</i>	(25 cases)			
Independent State of Samoa	Mohave Desert	Munda	Ratibida columnaris	Titania
capital of Florida	compound fraction	day shift	falls	family Raphidiidae
genus Argemone	genus Lepomis	ginger ale	goosander	home in
liquid measure	neutron flux	no more	pulpy	serviceberry
smite	tea cozey	thrown and twisted	tragic flaw	weathered
<i>anchors</i>	(6 dimensions)			
Eucalyptus delegatensis	break	epidemic meningitis	exam paper	martyrdom
population shift				

Testing Results

	Positive tests	Negative tests
Positive Predictions	augmentation, death, jump, leap, revolution, shear, shimmer, shock, transmutation, variation	Siren, meteorological, unflavored, wood warbler
Negative Predictions		Erythrocebus, Old Catholic Church, Satureja douglasii, brazier, family Rhinotermitidae, sand fly
Accuracy	16/20 = 80.00%	

Table 21: hyponym for “change integrity”-76415-13

Training Data

<i>Positive Training</i>	(25 cases)			
admix	alloy	backscatter	break up	change integrity
condense	conjugate	crash	disperse	dynamite
erupt	fulminate	grill	ladder	pasteurize
polymerize	powderize	puncture	reform	roast
snap	souse	stew	syncretize	thicken
<i>Negative Training</i>	(25 cases)			
Brasilia	Hawaiian guitar	Lithocarpus glabra	Odonata	St Bede
adamantly	baker’s yeast	coefficient of drag	computer screen	disobediently
dysthymia	genus Periplaneta	guillemot	inbreeding	mauve
moneymaker	neopallium	niggard	pung	research
ski conditions	umbra	uncrowned	whisky sour	witless
<i>Anchors</i>	(6 dimensions)			
ALT	dissolve	genus Saturnia	jellify	solidify
tachymeter				

Testing Results

	Positive tests	Negative tests
Positive Predictions	absorb, crystallize, detonate, evaporate, fricassee, liquefy, melt, sublime, transpire, vaporize	responsiveness, rundown
Negative Predictions		Cuban bast, Ficus carica sylvestris, chaplaincy, chronic glaucoma, divergent thinker, obedience plant, sixthly, suit of armour
Accuracy	18/20 = 90.00%	

Table 22: hyponym for “change of state”-842-3

Training Data

<i>Positive Training</i>	(25 cases)				
abortion	aeration	arousal	awakening	chew	
defoliation	degradation	excitement	extinction	face-off	
groundbreaking	incitement	jump ball	kickoff	killing	
meddling	neutralization	relinquishment	retirement	scrum	
seasoning	soiling	vitiation	withdrawal	worsening	
<i>Negative Training</i>	(25 cases)				
Bessemer	Kanara	PMS	South African	St James	
chaetognathan	checkered whiptail	clavier	dagger	dramatics	
form	genus Gasterophilus	hunchback	in collaboration	lodging house	
north by west	nosebleed	philosophize	pilot experiment	psychopathic personality	
quarreller	sentry box	shiftily	vested interest	winterize	
<i>Anchors</i>	(6 dimensions)				
Paul Newman	breakup	icebreaker	improvement	physiological property	
spinal fusion					

Testing Results

	Positive tests	Negative tests
Positive Predictions	abolition, adjournment, completion, cooking, founding, nullification, overthrow, stimulation, transition, wetting	cortical
Negative Predictions		Aare, James K. Polk, genus Dreissena, heliothis moth, lally column, nimble-fingered, oarsmanship, pilot engine, tricolor television tube
Accuracy	19/20 = 95.00%	

Table 23: hyponym for “city”-42554-3

Training Data

<i>Positive Training</i>	(25 cases)			
Acapulco	Ciudad Juarez	Ciudad Victoria	Colon	Concepcion
Douala	Durango	Hermosillo	Hong Kong	Leon
Luoyang	Mazatlan	Montego Bay	Nanning	Oaxaca
Plovdiv	San Luis Potosi	Santa Ana	Shanghai	Tepic
Tianjin	Tijuana	Valparaiso	Xian	chihuahua
<i>Negative Training</i>	(25 cases)			
European pasqueflower	Ile-St-Louis	Peter’s gland	Raffia ruffia	achondrite
anthracosis	baby’s breath	beau monde	bilocular capsule	bob about
cheerless	coattails effect	dystopia	family Bombyliidae	floccose
genus Dracontium	genus Stapelia	gill slit	message pad	nitpicking
obstacle race	osteoarthritis	self-induction	stereotypic	wickedly
<i>anchors</i>	(6 dimensions)			
Aphis pomi	Mexicali	Shenyang	Taichung	family Glossinidae
steel arch bridge				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Aalborg, Abidjan, Hamilton, Lanzhou, Matamoros, Monterrey, Tampico, Torreon, Veracruz	Trevino, uncle
Negative Predictions	city	Oxydendrum, armor-clad, comforted, krigia, low St Andrew’s cross, mountain ebony, stunt man, third-rate
Accuracy	17/20 = 85.00%	

Table 24: hyponym for “clothes”-15607-3

Training Data

<i>Positive Training</i>	(25 cases)				
Sunday best	beach wear	breechcloth	camlet	change	
clothes	costume	diaper	disguise	gown	
handwear	headgear	laundry	leisure wear	mending	
neckwear	overgarment	peplos	reversible	robe	
sackcloth	separate	slip-on	sportswear	war paint	
<i>Negative Training</i>	(25 cases)				
Billie Jean King	Dipus	Hugueninia	Jewish holy day	Jussieu	
Marco Polo sheep	Treasury	Xiphias gladius	allegiant	beatify	
birth prevention	cause celebre	corvine bird	cyclopropane	daguerreotype	
fringed grass of Parnassus	intoned	misogynic	pine lizard	public trust	
stableman	target practice	typist	weightless	winnowing	
<i>Anchors</i>	(6 dimensions)				
Steuben	accessory	formalwear	opposed	outfit	
treated					

Testing Results

	Positive tests	Negative tests
Positive Predictions	footwear, fur, hand-me-down, hose, hosiery, protective garment, scapular, sealskin, slops, uniform	
Negative Predictions		Tacca pinnatifida, butterbur, genus Actiniopteris, immunodeficiency, kneepan, order Cordaitales, perfective aspect, positional notation, true vocal cord, unanswered
Accuracy	20/20 = 100.00%	

Table 25: hyponym for “collection”-40398-3

Training Data

<i>Positive Training</i>	(25 cases)			
Asia	Oort cloud	Third World	agglomeration	backlog
batch	bottle collection	collection	congregation	content
ensemble	fauna	gimmickry	hand	kludge
lot	mythology	pile	repertoire	repertory
rogue’s gallery	traffic	universe	variety	wardrobe
<i>Negative Training</i>	(25 cases)			
Gentiana acaulis	Lythrum salicaria	Mississippi River	Sun Yat-sen	TN
abreact	acknowledgeable	braggart	bus line	cross vine
dojigger	genus Galictis	habituation	hay conditioner	lactating
long time	ossiculum	petit juror	piper	rifle
ruthful	sieva bean	taipan	telephone cord	wrymouth
<i>Anchors</i>	(6 dimensions)			
John Mill	art collection	battery	electromagnetic intrusion	procession
take for granted				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Judaica, block, class, convoy, defense, fleet, galaxy, law, library, set	WAN, assassin, homiletics
Negative Predictions		Ferdinand Julius Cohn, capital of Kuwait, e’er, hypophyseal, imperiousness, nowise, quadric
Accuracy	17/20 = 85.00%	

Table 26: membermeronym for “Compositae”-58871-7

Training Data

<i>Positive Training</i>	(25 cases)			
Anaphalis	Antennaria	Anthemis	Antheropeas	Argyranthemum
Arnoseris	Brachycome	Callistephus	Carthamus	Centaurea
Cirsium	Cnicus	Delairea	Dimorphotheca	Doronicum
Echinops	Emilia	Eriophyllum	everlasting	genus Andryala
genus Ayapana	genus Chrysanthemum	genus Coreopsis	genus Engelmannia	genus Erechites
<i>Negative Training</i>	(25 cases)			
Aristopak	Borneo	Coragyps atratus	Cordyline	Gehrig
Kotex	Lyrurus	Republic of Venezuela	Suez	V-8 juice
apple pie	atomic number 74	consumption	filthiness	garner
hoop	lackluster	languorous	nonbiodegradable pollution	prefabrication
restless legs	sadomasochistic	stainless steel	steatocystoma	virucidal
<i>anchors</i>	(6 dimensions)			
Ambrosiaceae	Carlina	Dendranthema	incandescence	law of large numbers
poetic license				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Anacyclus, Arctotis, Baccharis, Balsamorhiza, Brickellia, Cynara, Echinacea, Erigeron, genus Dahlia, wormwood	articulatio
Negative Predictions		Edgar Wallace, Potoroinae, adulate, ire, killable, ring rot bacteria, sound camera, subphylum Urochorda, waratah
Accuracy	19/20 = 95.00%	

Table 27: hyponym for “compound”-73253-3

Training Data

<i>Positive Training</i>	(25 cases)			
aluminate	ammine	antiknock	azide	benzofuran
calcium-cyanamide	chelate	chloride	chloropicrin	complex
depilatory	enamel	goitrogen	nitrate	nitrogen mustard
organic compound	polymer	quinone	salt	silicide
siloxane	stripper	taurine	tenderizer	tetrachloride
<i>Negative Training</i>	(25 cases)			
Christian Johann Doppler	Eruca	Friedrich Engels	Jons Jakob Berzelius	Saxifraga oppositifolia
Stercorarius parasiticus	William Gilbert	annelidan	ascomycetous	backhanded
beads	bladder stone	bodily fluid	careerism	drinking fountain
incitive	mechanistically	pendulous	procurator	prompter's box
rattlesnake plantain	rhytidectomy	slammer	surface-to-air missile system	varicoloured
<i>Anchors</i>	(6 dimensions)			
acid	carbon disulfide	cuneiform bone	defoliant	incompetent cervix
psychically				

Testing Results

	Positive tests	Negative tests
Positive Predictions	adduct, carbonyl, caustic, compound, dimer, formulation, isomer, manganese tetroxide	
Negative Predictions	base, incense	Chesterton, Hawaii, bioflavinoid, genus Charina, guttural consonant, painted turtle, ridiculously, saddle of lamb, soft-cast steel, unbecoming
Accuracy	18/20 = 90.00%	

Table 28: hyponym for “concave shape”-68465-3

Training Data

<i>Positive Training</i>	(25 cases)			
cleft	concave shape	corner	crevice	crow’s foot
dermatoglyphic	dip	flute	glenoid fossa	incision
incisure	indentation	line of fate	line of heart	line of life
mandibular notch	pit	quirk	rut	sag
sawtooth	serration	striation	thumb index	track
<i>Negative Training</i>	(25 cases)			
Dendroctonus	Giovanni Battista Tiepolo	Great White Way	Hothr	Lingualumina
Pyrrhic victory	Schlesien	Tilletiaceae	aim	botulinal
bowler	genus Mytilus	genus Platypoecilus	genus Pseudowintera	giggle
gorilla	in labor	inarticulate	landing approach	lash-up
ma	mental state	quarterstaff	rock dove	wive
<i>anchors</i>	(6 dimensions)			
depression	honey	pharyngeal recess	scoop	serape
whimsy				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bowl, dimple, groove, notch, pit of the stomach, rabbit, score	araneidal, augur, embark, garlic clove, lazy Susan, seminal fluid
Negative Predictions	cup, dado, line	brooder pneumonia, false sarsaparilla, fund, pique
Accuracy	11/20 = 55.00%	

Table 29: hyponym for “condition”-68761-3

Training Data

<i>Positive Training</i>	(25 cases)			
atmosphere	condition	control	despair	disorder
dryness	financial condition	fullness	guilt	homelessness
improvement	innocence	need	niche	normality
participation	place	prepossession	psychological state	purity
regularization	saturation	ski conditions	tension	way
<i>Negative Training</i>	(25 cases)			
Kochia	Ortega	antipersonnel bomb	archdiocesan	awed
bridesmaid	domestic sheep	family Ceratostomataceae	glycerine	heartily
helvella	horticulture	leading lady	loveless	maturity-onset diabetes
monoblastic leukaemia	orchotomy	panetella	pileup	refrigeration system
swift	terminus ad quem	toke	washboard	wire-haired
<i>Anchors</i>	(6 dimensions)			
coiled	encapsulation	larger-than-life	mood	standardization
varying				

Testing Results

	Positive tests	Negative tests
Positive Predictions	abnormality, danger, pathological state, repair, safety, situation	horrible
Negative Predictions	atonicity, celibacy, vacuolization, wetness	Neosporin, Wynette, asternal, comprise, depreciate, dryad, loaf sugar, playground ball, poison milkweed
Accuracy	15/20 = 75.00%	

Table 30: hyponym for “criticize”-79644-13

Training Data

<i>Positive Training</i>	(25 cases)			
animadvert	attack	belabor	blame	blister
castigate	condemn	curse	deflate	denounce
deplore	deprecate	disparage	execrate	flame
fulminate	rebuke	rip	rubbish	savage
scorch	slang	talk down	tell off	whang
<i>Negative Training</i>	(25 cases)			
Camassia quamash	Jean Antoine Watteau	Phalaris canariensis	Prince Otto von Bismarck	Tapiridae
body odor	bpi	catechize	cinema verite	divorce
dog show	homophobic	incentive option	loofah	maladjustment
metacentric chromosome	misanthrope	oligomenorrhea	phylum Porifera	scaly polypore
sidetrack	silver age	spaced-out	unaccessible	walking on air
<i>Anchors</i>	(6 dimensions)			
Ichneumonidae	leaper	minimize	misinformation	reprehend
revile				

Testing Results

	Positive tests	Negative tests
Positive Predictions	abuse, admonish, barrage, come down, criticize, nitpick, reprimand, tear apart, vitriol	St Augustine, continent, designed, sunbathe, unlikely
Negative Predictions	claw	chain lightning, occultation, sampling station, squally, sugar spoon
Accuracy	14/20 = 70.00%	

Table 31: hyponym for “crucifer”-58661-3

Training Data

<i>Positive Training</i>	(25 cases)			
alyssum	black mustard	bok choy	broccoli	broccoli raab
cauliflower	collard	common garden cress	cress	crucifer
field mustard	garlic mustard	kale	mustard	radish plant
rape	rock cress	rose of Jericho	rutabaga	scurvy grass
shepherd’s purse	tendergreen	tower mustard	watercress	white mustard
<i>Negative Training</i>	(25 cases)			
AU	Allium schoenoprasum	Biblical Latin	I. F. Stone	Seyhan
Willa Sibert Cather	bountifully	carte du jour	collembolan	erupt
fern family	genus Loligo	genus Selar	genus Valeriana	immunizing agent
impracticableness	orgiastic	patronized	picket boat	primary dentition
rebut	redshank	sitter	unlighted	window dressing
<i>anchors</i>	(6 dimensions)			
Arabidopsis lyrata	Chinese cabbage	cow parsley	liquidizer	turnip
whereabouts				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Arabidopsis thaliana, bittercress, brussels sprout, chinese mustard, gold of pleasure, head cabbage, kohlrabi, malheur wire lettuce, radish, wild cabbage	
Negative Predictions		Bruch, Saint Edward the Martyr, chin rest, cognitively, genus Bessera, gospel, small person, typhus, versed, voraciously
Accuracy	20/20 = 100.00%	

Table 32: hyponym for “decorate”-83824-13

Training Data

<i>Positive Training</i>	(25 cases)			
applique	bejewel	braid	deck	decorate
dress ship	emblazon	embroider	enamel	fillet
flag	fledge	fringe	glaze	hang
illuminate	illustrate	inlay	lacquer	landscape
panel	redecorate	scallop	smock	stucco
<i>Negative Training</i>	(25 cases)			
Diplopterygium longissimum	Madia elegans	SPipistrellus hesperus	Stephanotis floribunda	W. H. Auden
atmospheric condition	cervical smear	consequence	dauntless	filter tip
funny house	genus Centropomus	health hazard	islet	kiaat
light-blue	litterbin	megacolon	plugged	purslane
scarlet musk flower	splenetic	steamship	virtual memory	with adroitness
<i>Anchors</i>	(6 dimensions)			
embark on	fret	oncological	psilosis	trim
wreathe				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bead, bedizen, encrust, festoon, garland, pipe, spangle, tart up, tinsel	waul
Negative Predictions	prank	International Workers of the World, ani, bypath, default on, fattiness, homologise, intemperance, methyl phenol, two-a-penny
Accuracy	18/20 = 90.00%	

Table 33: hyponym for “dicot genus”-57378-3

Training Data

<i>Positive Training</i>	(25 cases)			
Acocanthera	Alstonia	Amsonia	Aristolochia	Catharanthus
Citrullus	Clethra	Cucurbita	Goodenia	Hottonia
Knightia	Mandevilla	Momordica	Myrsine	Nopalea
Samolus	Stenocarpus	Thevetia	Vinca	genus Banksia
genus Bryonia	genus Carissa	genus Primula	genus Protea	rosid dicot genus
<i>Negative Training</i>	(25 cases)			
Cuon alpinus	Eucalyptus regnans	Kosovo	Pseudococcidae	Siren
absolute scale	boredom	bountied	cry for	dracontium
ecological niche	effector	estate tax	fall asleep	fibber
oil geologist	picador	pitahaya cactus	retch	shirtwaist
squaw corn	sumptuary	true vampire bat	undersized	woman chaser
<i>anchors</i>	(6 dimensions)			
16	Acanthisitta	Ecballium	Lambertia	Lysimachia
mover and shaker				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Armeria, Bartle Frere, Conospermum, Limonium, Nerium, Trachelospermum, asterid dicot genus, genus Allamanda, genus Grevillea, genus Luffa	Cucumis, Pseudotsuga menziesii
Negative Predictions		Atlantic bottlenose dolphin, Penstemon rydbergii, aciniiform, crossing over, horsemeat, oaten, skulking, unfaithfully
Accuracy	18/20 = 90.00%	

Table 34: hyponym for “direction”-68268-3

Training Data

<i>Positive Training</i>	(25 cases)			
antipodal	attitude	compass point	east by north	east northeast
east southeast	enantiomorphism	north by east	north northeast	north west
northwest by west	opposition	orientation	quarter	south by east
south by west	south southeast	south southwest	southeast by south	southwest
to leeward	to windward	west by north	west northwest	windward
<i>Negative Training</i>	(25 cases)			
Akhenaton	Australian dollar	Pseudopleuronectes americanus	Tokyo	angiogenesis inhibitor
blue-eyed grass	capitalise	downriver	fence	fibular vein
gauntlet	guard duty	ischaemic stroke	lodestar	never-never
pay cash	phosgene	propellent	scrimpy	sea-rocket
soundproof	spandrel	spiral	steal away	washrag
<i>Anchors</i>	(6 dimensions)			
area unit	libertarian	north west by north	southeast by east	spatial arrangement
vertical				

Testing Results

	Positive tests	Negative tests
Positive Predictions	direction, horizontal, northeast by east, northeast by north, southwest by south, southwest by west, west by south, west southwest	weeds
Negative Predictions	frontage, north	Bennettiales, Calophyllum candidissimum, closed shop, curare, densitometer, foully, limicoline bird, secretaryship, shore bird
Accuracy	17/20 = 85.00%	

Table 35: hyponym for “disease”-69458-3

Training Data

<i>Positive Training</i>	(25 cases)			
Marseilles fever	animal disease	aspergillosis	autoimmune disease	blackwater
cat scratch disease	crud	disease	endemic	filariasis
genetic disease	goitre	incompetence	liver disease	malignancy
milk sickness	mimesis	myasthenia gravis	onychosis	ozena
periarteritis nodosa	plant disease	pycnosis	rheumatism	skin disease
<i>Negative Training</i>	(25 cases)			
Imperial gallon	Myrtus communis	Uma notata	airplane propeller	altering
anticipate	beurre noisette	bibliotist	bluejack oak	caulk
character witness	chartreuse	genus Moloch	genus Pseudowintera	horn in
horsetail milkweed	in the altogether	lespedeza	middle C	minacious
ocean pout	round-bottomed	shumac	star-thistle	wherry
<i>anchors</i>	(6 dimensions)			
Capreolus capreolus	Kawasaki disease	deficiency disease	downhearted	occupational disease
tube-shaped structure				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Meniere’s disease, communicable disease, complication, enteropathy, exanthema subitum, eye disease, inflammatory disease, periodontal disease, respiratory disease, sandfly fever	diagnostic technique
Negative Predictions		Arenaria-Melanocephala, Jacques Tatischeff, arbitrational, fourteen, grey area, meetinghouse, obey, polisher, pousse-cafe
Accuracy	19/20 = 95.00%	

Table 36: hyponym for “dog”-10108-3

Training Data

<i>Positive Training</i>	(25 cases)			
Bernese mountain dog	Brabancon griffon	Chihuahua	Eskimo dog	Maltese dog
Pekinese	Rhodesian ridgeback	Saint Bernard	Shih-Tzu	basenji
chow	dachshund	dog	guide dog	hound
lapdog	mastiff	pariah dog	pooch	shepherd dog
standard poodle	terrier	toy dog	toy terrier	watchdog
<i>Negative Training</i>	(25 cases)			
Artemisia campestris	Boykinia	Church of England	Hydromyinae	Suez Canal
change orientation	cushion flower	dental surgeon	glance	grated cheese
hyperventilation	ingenuity	intelligence quotient	monogram	nouvelle cuisine
pamper	paraphrase	quotation mark	resin	shrimp sauce
silicon dioxide	spearmint oil	suspension bridge	sympathize with	victimizer
<i>Anchors</i>	(6 dimensions)			
Mexican hairless	audad	bull mastiff	call loan	cardiographic
pug				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Cardigan, Great Dane, Pembroke, bulldog, cur, dalmatian, griffon, large poodle, spitz, sporting dog	
Negative Predictions		Johnson grass, Sir James Dewar, carefulness, clean and jerk, embroil, giant cockroach, income bracket, line-shooting, livestock, shield-shaped
Accuracy	20/20 = 100.00%	

Table 37: hyponym for “employee”-49614-3

Training Data

<i>Positive Training</i>	(25 cases)				
clerk	company man	copyist	copywriter	delivery boy	
dog catcher	employee	floater	floorwalker	garbage collector	
gasman	gofer	hired help	line worker	liveryman	
office boy	porter	public servant	registrar	salesperson	
shop assistant	spotter	stagehand	sweeper	typist	
<i>Negative Training</i>	(25 cases)				
Corokia	Francisco Goya	Gallant Fox	Indian millet	Lonas annua	
Rumpelstiltskin	box seat	caseworker	commercialise	deixis	
face lift	genus Ageratina	hole-in-corner	overtone	pilot whale	
possibly	potter	preterm	promethazine	seminiferous	
snakebite	top-level	tropical sore	unfertilised	unworthily	
<i>Anchors</i>	(6 dimensions)				
crewman	dispatcher	jobholder	mountain tent	proconsular	
wrinkle-resistant					

Testing Results

	Positive tests	Negative tests
Positive Predictions	bartender, hireling, potboy, sandwichman, staff member, tollkeeper, trainman, turncock, workman	executive vice president
Negative Predictions	organization man	Wilhelm Konrad Roentgen, discomycete, family Tiliaceae, honey buzzard, labial stop, subacute, tetanus antitoxin, unmodifiable, wasting away
Accuracy	18/20 = 90.00%	

Table 38: hyponym for “ending”-893-3

Training Data

<i>Positive Training</i>	(25 cases)			
breakup	cession	cold turkey	deactivation	demolition
disappearance	dispatch	euthanasia	fell	finalization
graduation	kill	lynching	manslaughter	overthrow
plant closing	release	sabotage	sacrifice	self-destruction
shutdown	subversion	suffocation	superannuation	withdrawal
<i>Negative Training</i>	(25 cases)			
Don River	Pagophilus	Pinot	Simenon	age
arterial	bacteriology	bass clarinet	billowy	business news
cremate	disadvantaged	encircle	family Trombidiidae	gyneolatry
incurvate	jelly fungus	lanternfly	logger	magnoliopsid genus
mellowly	order Fucales	pilot cloth	tubular	winterize
<i>anchors</i>	(6 dimensions)			
Brandt	coefficient of correlation	destruction	handover	spatulate
suicide				

Testing Results

	Positive tests	Negative tests
Positive Predictions	deathblow, decimation, discontinuance, holocaust	ascend, authentic, move into, trade unionist
Negative Predictions	adjournment, conge, electrocution, laying waste, plosion, relinquishment	Dryas octopetala, Mustela frenata, apostolical, family Cynoglossidae, jazz musician, penicillin-resistant
Accuracy	10/20 = 50.00%	

Table 39: partmeronym for “England”-43910-9

Training Data

<i>Positive Training</i>	(25 cases)				
Avon	Blackpool	Brighton	Cambridge	Coventry	
East Anglia	East Sussex	Essex	Flodden	Hadrian’s Wall	
Hampshire	Hertfordshire	Lake District	Leicester	Maldon	
Marston Moor	Oxford	Restoration	Somerset	Surrey	
War of the Roses	Wessex	West Country	Worcester	Yorkshire	
<i>Negative Training</i>	(25 cases)				
Lepisosteidae	carcinoid	compel	crested wheatgrass	genus Antrodemus	
genus Spinus	lone	malicious gossip	multiflora rose	onomancy	
para I	plotter	polytheism	psychological	rheumatism	
rondo	rule of law	set about	siphonophore	stemless daisy	
strengthening	stylus printer	tidiness	wild emmer	zebra crossing	
<i>Anchors</i>	(6 dimensions)				
Hastings	James Franck	North Yorkshire	Portsmouth	septuagenarian	
stalling					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Cornwall, English Civil War, Gloucester, Kent, London, Northumberland, Reading, Severn, Tewkesbury, West Sussex	
Negative Predictions		Lindbergh, aphanite, aphid lion, column inch, diagrammatical, emerge, one-way street, semitransparent, sure as shooting, wetland
Accuracy	20/20 = 100.00%	

Table 40: hyponym for “enter”-85449-13

Training Data

<i>Positive Training</i>	(25 cases)			
barge in	board	bother	break	catch
cut	dock	file in	filter	foray
honeycomb	ingrain	interpenetrate	invade	move in on
ooze through	penetrate	pervade	pierce	pop in
raid	re-enter	sneak in	take the field	tunnel
<i>Negative Training</i>	(25 cases)			
Acanthaceae	Annonaceae	Cebuan	First of May	Kodiak
Spermatophyta	adorableness	anguid lizard	animal starch	axonal
bone char	decendent	emaciated	featherlike	king’s ransom
linguist	perfectionist	phosphor bronze	reverent	sarong
scrub nurse	short-leaf pine	tutorial	unready	wind generation
<i>Anchors</i>	(6 dimensions)			
goldmine	intrude	one thousand	take water	turn in
wallpaper				

Testing Results

	Positive tests	Negative tests
Positive Predictions	call at, dig into, embark, percolate, plunge, thrust, walk in	brush, prejudicial, ranting, real
Negative Predictions	enter, entrain, moor	Malvaviscus, Nyala, Taylor, air passage, bigheaded, calumny
Accuracy	13/20 = 65.00%	

Table 41: hyponym for “equipment”-16922-3

Training Data

<i>Positive Training</i>	(25 cases)			
CD player	Kipp’s apparatus	automation	centrifuge	condenser
cooling system	duplicator	equalizer	fuel system	generator
heat pump	incubator	instillator	lens	material
materiel	nuclear reactor	off-line equipment	paraphernalia	pendulum
robotics equipment	scrambler	soda fountain	tape deck	telephone
<i>Negative Training</i>	(25 cases)			
Doctor of Divinity	Old World	broad buckler-fern	clinker brick	deceive
deep-mined	dong	eat out	family Plantaginaceae	gnarl
magnetic pole	marriageable	mu’ adhdhin	muff	nuclear-powered ship
pearly-shelled mussel	polyanthus	progeny	rakish	ransacking
running mate	spectrogram	spirit off	state of affairs	synoptical
<i>Anchors</i>	(6 dimensions)			
Willie Mays	major leaguer	radio-phonograph	rescue equipment	sensorial
titrator				

Testing Results

	Positive tests	Negative tests
Positive Predictions	equipment, heliograph, mixer, monitor, teaching aid	
Negative Predictions	electrograph, reformer, sports equipment, stock-in-trade, tape player	Epacris impressa, crewelwork, downspin, ethmoid, genus Tetraclinis, heavier-than-air craft, order Ginkgoales, pretzel, sober, sweat suit
Accuracy	15/20 = 75.00%	

Table 42: hyponym for “European”-47626-3

Training Data

<i>Positive Training</i>	(25 cases)			
Basque	Bohemian	Britisher	Bulgarian	Byelorussian
Cretan	Cypriot	Dalmatian	Dane	German
Greek	Italian	Jute	Latvian	Lombard
Luxemburger	Monegasque	Norwegian	Roman	Romanian
San Marinese	Saxon	Ukranian	Welshman	Yugoslav
<i>Negative Training</i>	(25 cases)			
Blacksburg	Brunnhilde	Lactobacillaceae	T'ien-ching	Victor Emanuel II
admittible	baseball game	course of study	disdainfulness	disk access
divers	foolishness	freedom from cruel and unusual punishment	harquebus	irritably
just in case	kavakava	matrix transposition	navigation	priority
remunerative	rhinovirus	samba	schnecken	tenia
<i>anchors</i>	(6 dimensions)			
Czech	Finn	Swede	dusky salamander	negativist
typewritten				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Albanian, Andorran, European, Gibraltarian, Liechtensteiner, Scot, Slovene, Slovenian, Teuton	blame
Negative Predictions	Angle	American marten, Islam, Viola striata, cry-baby tree, interlaced, mallet, milkwagon, taenia, ventral placentation
Accuracy	18/20 = 90.00%	

Table 43: hyponym for “fern”-57334-3

Training Data

<i>Positive Training</i>	(25 cases)			
Schaffneria nigripes	adder’s tongue	bamboo fern	basket fern	bear’s-paw fern
bird’s nest fern	button fern	crape fern	false bracken	fern
grass fern	hard fern	lady fern	ostrich fern	pecopteris
pine fern	potato fern	scented fern	scolopendrium	shield fern
silver fern	silvery spleenwort	snake polypody	tree fern	wood fern
<i>Negative Training</i>	(25 cases)			
American wall fern	Bay of Campeche	L. M. Montgomery	Song	activistic
affine transformation	base	biologicistic	breakfast	brush-tailed phalanger
burglarise	capital of Pennsylvania	driven	foursome	horse bean
liana	manifold	matzah ball	oblivious	sacrament
salivation	trap-and-drain auger	trousers	unbrace	very high frequency
<i>anchors</i>	(6 dimensions)			
Indian button fern	Swiss stone pine	bracken	drop a line	strap fern
unmerciful				

Testing Results

	Positive tests	Negative tests
Positive Predictions	aquatic fern, chain fern, climbing fern, crepe fern, curly grass, doodia, grape fern, lecanopteris, oak fern, staghorn fern	
Negative Predictions		Boone, Karelian Isthmus, MALS, cranberry tree, lxxxii, monoatomic, moth-eaten, post exchange, songlike, withering
Accuracy	20/20 = 100.00%	

Table 44: hyponym for “fish genus”-6614-3

Training Data

<i>Positive Training</i>	(25 cases)				
Ameiurus	Carassius	Cetorhinus	Cosmocampus	Fistularia	
Gobio	Hippocampus	Hypentelium	Ictiobus	Isurus	
Krypterophaneron	Leuciscus	Maxostoma	Myxinikela	Neoceratodus	
Notropis	Orectolobus	Petromyzon	Sphyrna	Squatina	
Tinca	Triaenodon	Xyphophorus	Zeus	genus Rivulus	
<i>Negative Training</i>	(25 cases)				
Calidris	Dalbergia nigra	Locusta migratoria	Peter Goldmark	Webster	
auto limitation	brimful of	common seal	cut of meat	genus Kenyapithecus	
golden trumpet	great millet	introjection	judicial	logarithmic scale	
pandiculation	penis	permanently	postmenopausal	programmer	
putrescine	speed limit	tympanic cavity	wintergreen oil	wood spirit	
<i>anchors</i>	(6 dimensions)				
Abramis	Archimedes	Catostomus	Dehong Dai	Jordanella	
genus Accipiter					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Carcharhinus, Electrophorus, Galeorhinus, Hexanchus, Phoxinus, Rhinoptera, Rutilus, Squalus, Syngnathus, fish genus	Black Sea
Negative Predictions		Apostle of the Gentiles, Calcuttan, Silvia atricapilla, harness horse, insulate, manganic acid, mountain starwort, opportunistic, scorecard
Accuracy	19/20 = 95.00%	

Table 45: partmeronym for “France”-44135-9

Training Data

<i>Positive Training</i>	(25 cases)			
Aquitaine	Bordeaux	Chablis	Chalons	Champagne
Crecy	French Revolution	Gascogne	Ile-de-France	Ivry
Lille	Meuse	Midi	Midi-Pyrenees	Mont Blanc
Normandie	Orleanais	Orleans	Paris	Poitiers
Rhone	Rhone-Alpes	Saone	Somme	Verdun
<i>Negative Training</i>	(25 cases)			
Acrocephalus	Jordanian	TV channel	brewer’s mole	butter churn
cozy	diapason	ethyl radical	genus Aeonium	genus Arca
granuloma	happening	introductory	lithograph machine	loop-line
metric ton	nil	order Raptores	petit dejeuner	plateau
possessive case	shareware	tackle	vapour bath	vena ileocolica
<i>Anchors</i>	(6 dimensions)			
Artois	Centre	Toulouse	Trinil man	idiotic
sunday				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Anjou, Corse, France, Le Havre, Lorraine, Pays de la Loire, Picardie, Scheldt, Vichy	
Negative Predictions	Riviera	African holly, Homo sapiens, Kublai Khan, Lynx canadensis, Primula polyantha, Tadorna, acarpous, escape, poverty level, vulvar slit
Accuracy	19/20 = 95.00%	

Table 46: hyponym for “friend”-52920-3

Training Data

<i>Positive Training</i>	(25 cases)				
Boswell	Confederate	Confucian	Francophile	Jacobite	
Roundhead	Shavian	abiogenist	anglophile	apostle	
backslapper	balletomane	believer	convert	fan	
fellow traveler	friend	imperialist	loyalist	philhellene	
pillar	shutterbug	subscriber	upholder	voucher	
<i>Negative Training</i>	(25 cases)				
Amberboa	Geum alleppicum strictum	OTC security	Pusan	Saint Edward t	
Theodor Seuss Geisel	Zygomycota	abdominal cavity	apologetically	childishness	
concentre	ectomorphy	hubcap	hyperbilirubinemia of the newborn	lifesize	
major league	price	shoes	stiff-backed	suckerfish	
tactually	tea cozey	two-dimensionality	wyethia	yellowfin tuna	
<i>Anchors</i>	(6 dimensions)				
Picea pungens	Whig	brain science	docker	enthusiast	
gadgeteer					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Confederate soldier, New Dealer, colonialist, fanatic, free trader, functionalist, proselyte, vitalist	draw back, fireplug
Negative Predictions	seconder, toaster	Tokyo, alkalinize, drying oil, frame in, streetcar track, talipes valgus, terrestrially, vespид wasp
Accuracy	16/20 = 80.00%	

Table 47: hyponym for “front”-42314-3

Training Data

<i>Positive Training</i>	(25 cases)			
Ash Can	Boy Scouts	Constructivism	Counter Reformation	Dada
Ecumenical Movement	Enlightenment	Futurism	Impressionism	Minimalism
New Wave	Oxford movement	Pietism	Pop Art	Reformation
Sinn Fein	The Nation of Islam	artistic movement	avant garde	cubism
expressionism	front	labor movement	political movement	reform movement
<i>Negative Training</i>	(25 cases)			
Seyhan	anesthetist	cheiloschisis	denim	desiccate
dishcloth gourd	elk	exegetical	flashlight battery	genus Quassia
hanging wall	heart specialist	inaction	left-handed pitcher	naturally
new	pay as you earn	revitalising	scourger	soft-shoe
sororal	streptodornase	topognosis	turnip cabbage	white-tailed jackrabbit
<i>anchors</i>	(6 dimensions)			
Fauvism	Neoromanticism	Rastafari	appetizingness	overjoyed
rain shower				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Art Deco, Art Nouveau, Imagism, Lake Poets, Naturalism, Surrealism, Zionism, cultural movement, religious movement, syndicalism	call the tune
Negative Predictions		Hallowmas, Reginald Carey Harrison, acid, atomic number 6, do-si-do, embolus, lion’s beard, variegated scouring rush, whirr
Accuracy	19/20 = 95.00%	

Table 48: hyponym for “fungus genus”-57386-3

Training Data

<i>Positive Training</i>	(25 cases)			
Alectoria	Amanita	Aspergillus	Blastocladia	Cantharellus
Ceratostomella	Cladonia	Coprinus	Dictyophera	Erysiphe
Evernia	Lentinus	Pellicularia	Peronospora	Peziza
Phytophthora	Plectania	Rhizopogon	Thielavia	Truncocolumella
Volvariella	genus Lepiota	genus Mucor	genus Rhizopus	genus Roccella
<i>Negative Training</i>	(25 cases)			
Bosch	Charles Eames	Lake Kivu	PCP	Silene caroliniana
Susquehanna River	Valeriana officinalis	alike	althea	aniset de Bordeaux
ant thrush	beef	column	eldorado	firebush
gnetum	interdiction	only too	overtime	reprise
synthetic cubism	transfer RNA	vena pulmonalis superior	vote down	yellow parilla
<i>Anchors</i>	(6 dimensions)			
Eastern Samoa	Neurospora	Ramalina	ejector	genus Dictostylium
jailhouse				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Clathrus, Helotium, Lactarius, Phallales, Russula, Tulostoma, Wynnea, fungus genus, genus Discina, genus Gyromitra	
Negative Predictions		American oriole, Carl Lewis, antagonism, black marlin, false statement, family Salamandridae, folklore, genus Gelechia, traditionality, white cinnamon
Accuracy	20/20 = 100.00%	

Table 49: hyponym for “furniture”-17526-3

Training Data

<i>Positive Training</i>	(25 cases)			
Murphy bed	Siege Perilous	altar	bedroom furniture	bedstead
breakfast table	bunk	bureau	cabinet	carrycot
chiffonier	china cabinet	coffee table	credenza	crib
dresser	floor lamp	hallstand	hammock	highboy
lamp	single bed	sleeper	sofa	wall unit
<i>Negative Training</i>	(25 cases)			
Lathyrus niger	McGuffey Eclectic Readers	Mysidacea	Prevacid	Rhus
altostratus	arbor	correlational analysis	creme caramel	disinfestation officer
distastefulness	genus Kolkwitzia	get over	glutamic acid	leavening
melodize	nickel steel	perissodactyl	plagiarise	psychic phenomena
rectangularity	redux	seed vessel	spring	terminal emulation
<i>anchors</i>	(6 dimensions)			
baby bed	based on	box	hexanoic acid	hypostatisation
medicine chest				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Sheraton, bassinet, cot, minibar, seat, table, table lamp, trundle bed, wardrobe	living
Negative Predictions	plank-bed	Athene, allyl resin, autoerotic, basketeer, catatonic, closet drama, lineation, redundance, sickness benefit
Accuracy	18/20 = 90.00%	

Table 50: hyponym for “grass”-59777-3

Training Data

<i>Positive Training</i>	(25 cases)			
bluestem	broom grass	burgrass	cereal	cordgrass
crabgrass	creeping soft grass	dallisgrass	dropseed	fescue
grama	grass	knotgrass	love grass	lyme grass
orchard grass	pampas grass	plumed tussock	reed grass	rye grass
silver grass	sword grass	timothy	wheatgrass	wild rye
<i>Negative Training</i>	(25 cases)			
Athos	Juncus effusus	Saccharomyces ellipsoides	Selznick	Western Samoan monetary unit
agronomist	amphetamine	bath water	carpentry	colonise
connector	constitutionalism	copiously	dogged	first cousin
fusion reactor	genus Naucrates	hang on	interjection	natural event
orange red	phosphorus	staff-tree family	subclass Magnoliidae	wheeled vehicle
<i>anchors</i>	(6 dimensions)			
Santiago de Cuba	azoturia	evangelist	goat grass	meadowgrass
midgrass				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Bahia grass, St. Augustine grass, beach grass, finger grass, munj, plume grass, shortgrass, tall oat grass, velvet grass, zoysia	
Negative Predictions		anticonvulsant drug, certify, convector, counterintelligence, disheartenment, family Nymphaeaceae, poutingly, spaceward, transverse flute, turn the tide
Accuracy	20/20 = 100.00%	

Table 51: hyponym for “herb”-39514-3

Training Data

<i>Positive Training</i>	(25 cases)			
angelica	bay leaf	black tea	caraway	chervil
clary sage	comfrey	coriander	costmary	dill
fennel	green tea	herb	lemon balm	marjoram
mint	rue	sage	savory	sweet cicely
sweet woodruff	tea	tea bag	thyme	winter savory
<i>Negative Training</i>	(25 cases)			
Cyclops	Cypripedium arietinum	Heteromeles	Mam	arrow
binocular microscope	bulb	bush hibiscus	chorister	clustering
deossification	dinoceras	emblematic	escape velocity	excitant
gullible	in her right mind	internet site	market letter	proctoscopy
sandgrouse	somatic sensation	tench	thereto	thirdhand
<i>anchors</i>	(6 dimensions)			
Kodagu	Mr	hyssop	oolong	polyzoa
rosemary				

Testing Results

	Positive tests	Negative tests
Positive Predictions	basil, borage, chives, hyson, lovage, orange pekoe, parsley, summer savory, tarragon	
Negative Predictions	congou	Geum triflorum, chlamys, family Notonectidae, in return, minor-league team, piffing, rooming house, sea spurry, toccata, unforested
Accuracy	19/20 = 95.00%	

Table 52: hyponym for “Hindu deity”-46787-3

Training Data

<i>Positive Training</i>	(25 cases)				
Aditya	Asura	Bhumi Devi	Brihaspati	Chandi	
Dyaus	Garuda	Hanuman	Indra	Kali	
Kama	Kartikeya	Lakshmi	Marut	Mitra	
Parjanya	Rahu	Sarasvati	Skanda	Surya	
Uma	Ushas	Varuna	Vayu	Vishnu	
<i>Negative Training</i>	(25 cases)				
Erwin Schrodinger	James Edmund Scripps	New Zealander	Ulmus procera	acute glaucoma	
bactericidal	basketball shot	crest	culminate	freebee	
genus Kalotermes	laurel sumac	narrowly	overstock	pay-phone	
phosphor bronze	pilot experiment	point of reference	retractile	schlockmeister	
sinfulness	standard-bearer	sworn	vanadic acid	xcvi	
<i>Anchors</i>	(6 dimensions)				
Agni	Kodagu	Ribhus	Vajra	quinquefoliate	
unsexed					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Bhaga, Brahma, Dharma, Ganesa, Prajapati, Rudra, Savitar, Shakti	
Negative Predictions	Ka, avatar	Myrciaria cauliflora, Pacific walrus, antbird, antisubmarine, claret cup, frontierswoman, garbage heap, genus Kyphosus, place name, unpermed
Accuracy	18/20 = 90.00%	

Table 53: hyponym for “inflammation”-70810-3

Training Data

<i>Positive Training</i>	(25 cases)			
appendicitis	blepharitis	bursitis	cheilitis	cholecystitis
chorditis	colpocystitis	costochondritis	endocervicitis	enteritis
epididymitis	fibrositis	founder	gastritis	ileitis
inflammation	iridokeratitis	jejunoileitis	keratoiritis	keratoscleritis
mastitis	osteitis	pancreatitis	parametritis	phlebitis
<i>Negative Training</i>	(25 cases)			
Bocconia frutescens	Cajanus cajan	Decumaria	Irtysh	Louis the Far
Melospiza georgiana	New Norwegian	Orontium	Revere	Schizosaccharomycetaceae
administrative law	apathetically	argumentative	diphthong	diptych
electromagnetic interaction	expelling	impatient	kook	musical organization
pellucidness	soundbox	speculate	squelch circuit	suffixation
<i>Anchors</i>	(6 dimensions)			
aortitis	balanitis	corroborate	dog bent	lymphangitis
pay attention				

Testing Results

	Positive tests	Negative tests
Positive Predictions	arteritis, balanoposthitis, colitis, corditis, dacryocystitis, keratitis, keratoconjunctivitis, mastoiditis, metritis, myelitis	atrioventricular block
Negative Predictions		Buteo buteo, Iyyar, Newburgh, jemmy, passionateness, pleurothallis, stock raiser, talipot palm, under it
Accuracy	19/20 = 95.00%	

Table 54: attribute for “injured”-96524-23

Training Data

<i>Positive Training</i>	(25 cases)			
breakable	broken	delicate	destroyed	destructive
disadvantageous	discourteous	disrespectful	frail	germy
harmful	impolitic	injured	inopportune	malevolent
painful	pessimistic	prickling	septic	toxic
unhealthful	unkind	unsound	unwholesome	wronged
<i>Negative Training</i>	(25 cases)			
Buckingham Palace	Carl Gustaf Mossander	Carroll	Cayuga Lake	Centropomus
Cimarron River	Cytosis proliferus	European bittern	Genova	Jensen
Procyon lotor	Solenostemon scutellarioides	arrow grass	avow	capital of Qatar
chairperson	climbing boneset	etched	filibuster	genus Dryas
matrilineal	thimbleberry	thimbleweed	watermint	western ragweed
<i>Anchors</i>	(6 dimensions)			
boxing match	ground pine	imperfect	sorrel	tender
weak				

Testing Results

	Positive tests	Negative tests
Positive Predictions	blemished, damaged, impaired, inexpedient, irreverent, malign, merciless, negative, unhealthy, unsupportive	amputation, kiddie porn
Negative Predictions		basket ash, carriageway, cotenant, cottonmouth moccasin, nominal damages, rhinotomy, rules of order, with many interruptions
Accuracy	18/20 = 90.00%	

Table 55: hyponym for “intellectual”-47314-3

Training Data

<i>Positive Training</i>	(25 cases)			
Abelard	Berkeley	Bruno	Buber	Democritus
Descartes	alchemist	brain	brainworker	eclectic
gymnosophist	introvert	mind	nativist	necessitarian
organizer	philosophizer	skeptic	speculator	student
synthesist	theologian	transcendentalist	wise man	yogi
<i>Negative Training</i>	(25 cases)			
Bombacaceae	Harley Street	NATO	Thomas Decker	adulterously
air-to-surface missile	boggle	commissioned military officer	dachsie	finger grass
genus Himantopus	genus Nymphicus	gnosis	guard hair	innermost
lxii	milage	nerve block anesthesia	obstruct	prosodion
rinse off	sense	spontaneous abortion	steam engine	tizzy
<i>anchors</i>	(6 dimensions)			
bel esprit	curtail	ethicist	morphallaxis	pluralist
rigor mortis				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Derrida, egghead, empiricist, libertarian, millenarian, philosopher, prodigy, scholastic, seer	archer, pistachio
Negative Predictions	specifier	common nutcracker, displacement unit, genip, hoof it, nose flute, pattern-bomb, scavenging, tipsy cake
Accuracy	17/20 = 85.00%	

Table 56: hyponym for “inventor”-50507-3

Training Data

<i>Positive Training</i>	(25 cases)			
Bessemer	Browning	Burroughs	Cartwright	Daguerre
Edison	Fulton	Gatling	Goodyear	Hargreaves
Howe	Land	Mauser	Maxim	Muybridge
Otis	Sperry	Stanley	Steinmetz	Tesla
Westinghouse	Whitney	Wright	Zeppelin	inventor
<i>Negative Training</i>	(25 cases)			
Cereus	Chamaemelum nobilis	Charles L'Enfant	Ipomoea nil	Negaprión
Stein	Taccaceae	Viola rostrata	beef up	butt shaft
caveat emptor	devil's fig	discouraged	genus Rupicapra	lease giver
low status	precipitator	purple grackle	railroad bed	stagnant hypoxia
surfing	unit cost	urogenital system	violet-flowered petunia	yellow-throated marten
<i>anchors</i>	(6 dimensions)			
Andropogon virginicus	Eastman	Mergenthaler	Watt	memorialization
unsightliness				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Bell, Gillette, Goldmark, Hero, Langley, McCormick, Morse, Singer, Talbot, Wheatstone	
Negative Predictions		Agkistrodon contortrix, Crex crex, Macrorhamphosidae, Sylvilagus aquaticus, arrayed, catching, leatherback, mountain azalea, passivity, politic
Accuracy	20/20 = 100.00%	

Table 57: hyponym for “kill”-82089-13

Training Data

<i>Positive Training</i>	(25 cases)			
behead	burke	chine	crucify	decimate
dismember	draw	electrocute	eliminate	execute
exterminate	flight	garrotte	guillotine	hang
impale	martyr	overlie	pick off	poison
put away	saber	shoot	strangle	zap
<i>Negative Training</i>	(25 cases)			
Dmitri Dmitrievich Shostakovich	George Washington Goethals	Micronase	Oppenheimer	Pandionidae
Panicum capillare	Salpichroa	Stella	anisometropia	chimeral
clearweed	disprover	evangelize	in addition	introvertish
neanderthal	outlier	phyllo	pouter pigeon	resew
shrimp Newburg	tongue-tie	turn a profit	unselective	whopping
<i>anchors</i>	(6 dimensions)			
Hampton Roads	coop	heterotaxy	knock off	sacrifice
take off				

Testing Results

	Positive tests	Negative tests
Positive Predictions	assassinate, burn, erase, kill, murder, slaughter, stone, suffocate	Arabic alphabet, prudently, spoken communication
Negative Predictions	lynch, tomahawk	Flag Day, Lithophragma affine, McGuffey Eclectic Readers, Puccinia, gift tax, sponge on, substantiation
Accuracy	15/20 = 75.00%	

Table 58: hyponym for “laborer”-50631-3

Training Data

<i>Positive Training</i>	(25 cases)			
Gypsy	cleaner	coal miner	day laborer	dishwasher
fieldhand	gold miner	gravedigger	hod carrier	housewrecker
knacker	logger	peasant	porter	rail-splitter
sawyer	section hand	sharecrop farmer	sprayer	stableman
steepjack	street cleaner	tinker	trencher	window cleaner
<i>Negative Training</i>	(25 cases)			
Anatolian language	Erle Stanley Gardner	Herman Northrop Frye	Lewisia rediviva	President Tyler
Spitzbergen	antifeminist	associability	cerumen	concerning
deadbeat dad	deck	family Oxalidaceae	geodesy	gladdon iris
inadvisably	line-at-a-time printer	multifactorial	radially symmetrical	reassuringly
tater	to the north	vingt-et-un	visualisation	woe
<i>anchors</i>	(6 dimensions)			
exercise bike	fall in line	hollygrape	mud digger	stoker
yardman				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Bunyan, digger, gandy dancer, laborer, platelayer, ranch hand, scourer	cremains, door, dredger
Negative Predictions	drudge, hewer, woman	Ave Maria, Coffea arabica, President Franklin Roosevelt, atomic number 66, chilblained, high, medical science
Accuracy	14/20 = 70.00%	

Table 59: hyponym for “layer”-42821-3

Training Data

<i>Positive Training</i>	(25 cases)			
abdominal wall	asthenosphere	bed	chromosphere	corn snow
crust	dermis	geological horizon	hydrosphere	lithosphere
mantle	mesosphere	ore bed	ozone layer	plate
soil horizon	stratum	stratum corneum	stratum germinativum	stratum granulosum
substratum	thermosphere	tropopause	troposphere	upper mantle
<i>Negative Training</i>	(25 cases)			
3.14159265358979323846...	Albert Sabin	Amenhotep IV	Franz Seraph Peter Schubert	Maitreya
Pozsony	Prinia	absurdity	caddice fly	chimney swallow
coattail	drying up	function	gender role	genus Maclura
glissando	gratuitously	marlingspike	netting	oversized
polycythemia	savoriness	teju	tertium quid	ugly
<i>anchors</i>	(6 dimensions)			
Roget	Rutherford B. Hayes	duelist	epidermis	horst
seam				

Testing Results

	Positive tests	Negative tests
Positive Predictions	cambium, coal seam, exosphere, layer, stratum lucidum, surface	Bahasa Indonesia, Wheatley, tastefulness, valediction
Negative Predictions	floor, horizon, snow, wall	Citroncirus, Pedilanthus bracteatus, Wystan Hugh Auden, actinon, free throw, paleoclimatology
Accuracy	12/20 = 60.00%	

Table 60: membermeronym for “Lepidoptera”-11209-7

Training Data

<i>Positive Training</i>	(25 cases)			
Alsophila	Arctiidae	Bombycidae	Cadra	Chorizagrotis
Euproctis	Gracilariidae	Homona	Inachis	Lasiocampidae
Lycaena	Lycaenidae	Lymantria	Noctua	Pyralidae
Pyralis	Spodoptera	Vanessa	cabbage butterfly	corn borer
cutworm	danaid	noctuid moth	nymphalid	tussock caterpillar
<i>Negative Training</i>	(25 cases)			
Clavicipitaceae	Lakshmi	Lepiota rhacodes	Lower California	Loxia curvirostra
adjudication	archaeologist	boxlike	cercarial	coadjutor
fist	genus Elsholtzia	genus Tetragnonus	hairtail	immunologic
metal plating	nervus ischiadicus	pancreatectomy	pepsinogen	picky
pooh-pooh	push aside	scuffle hoe	tosser	wasteland
<i>anchors</i>	(6 dimensions)			
Ephestia	Spyeria	colour blindness	field-sequential color television system	genus Tortrix
osmund				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Argynnis, Carpocapsa, Galleria, Gelechiidae, Heliothis, Pieridae, Pieris, geometrid, hawkmoth, pink bollworm	
Negative Predictions		Cassia grandis, Septobasidiaceae, Soubise, autodidact, genus Macrolemys, genus Regulus, johnny cake, lower rank, silver-leaved nettle, toy
Accuracy	20/20 = 100.00%	

Table 61: hyponym for “linguist”-50760-3

Training Data

<i>Positive Training</i>	(25 cases)			
Bailey	Bloomfield	Chomsky	Donatus	Florio
Grimm	Hebraist	Jespersen	Korzybski	Littre
Murray	Ogden	Panini	Richards	Sapir
Webster	Worcester	grammarian	lexicographer	linguist
neologist	phonetician	psycholinguist	semanticist	synonymist
<i>Negative Training</i>	(25 cases)			
Baron Verulam	Ceylon cinnamon	Hydrangeaceae	Portulaca grandiflora	Trichiuridae
aerides	aniseikonia	antipsychotic agent	brambly	carnivorous bat
crowbar	deadening	expeditiously	eyeglass wearer	hero worshipper
horse botfly	liabilities	monosyllabic word	muscat grape	pelting
primary election	rhubarb plant	rule	three-way switch	wrick
<i>anchors</i>	(6 dimensions)			
Aristarchus	Firth	Mitella pentandra	deserted	neurolinguist
shutterbug				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Craigie, Fowler, Jakobson, Johnson, Jones, etymologist, phonologist, sociolinguist, transcriber	Grahame, Holy Communion, Luce, Rembrandt van Rijn
Negative Predictions	Sweet	Picea obovata, adhesive material, attorney-client relation, male erectile dysfunction, spiny lizard, working capital
Accuracy	15/20 = 75.00%	

Table 62: hyponym for “list”-32417-3

Training Data

<i>Positive Training</i>	(25 cases)			
agenda	bibliography	blacklist	calendar	canon
character set	contents	corrigenda	credits	directory
distribution list	free list	grocery list	hit list	key
necrology	portfolio	posting	price list	queue
record	shopping list	short list	sick list	slate
<i>Negative Training</i>	(25 cases)			
Gandhian	Julius Winfield Erving	Mobile Bay	OR circuit	Phaseolus aureus
Sphyrapicus	common barberry	ecumenism	epididymis	family Dacninae
great-uncle	handbasin	large white	marginalisation	neuralgy
overbusy	pride of Bolivia	rampage	rental	reverberate
serialization	shooting box	step by step	tightly knit	windscreen
<i>Anchors</i>	(6 dimensions)			
codex	inventory	silicon	steam pipe	therapeutics
wish list				

Testing Results

	Positive tests	Negative tests
Positive Predictions	catalogue, class list, list, mailing list, menu, numbering, roll, schedule	
Negative Predictions	calorie chart, push-down list	American lobster, Bemidji, PEDIAPRED, clogging, mocassin, neencephalon, riflebird, screw jack, weak spot, white trash
Accuracy	18/20 = 90.00%	

Table 63: hyponym for “literary work”-31958-3

Training Data

<i>Positive Training</i> (25 cases)				
Aeneid	Iliad	Nibelungenlied	Petrarchan sonnet	Shakespearean sonnet
abecedarius	belles-lettres	blank verse	doggerel	limerick
literary work	lucubration	mystery story	myth	plot
poem	potboiler	rhapsody	roman fleuve	rondelet
science fiction	story	terza rima	verse	versicle
<i>Negative Training</i> (25 cases)				
Bowdlerism	Mecholyt	arcanum	battle of the Coral Sea	brown
camera	coati-mundi	disagreeable chore	hypostasis	inky-cap mushroom
invigorate	laugh off	mewl	overrefined	parking
quilt	razor	rectitude	revivalistic	rockweed
sailor suit	savant	straddle	synthesist	zofitig
<i>Anchors</i> (6 dimensions)				
clerihew	dime novel	high-season	love story	osteomyelitis
tetraiodothyronine				

Testing Results

	Positive tests	Negative tests
Positive Predictions	detective novel, epic, free verse, heroic verse, novel, parable, roundel, tushery	
Negative Predictions	legend, sursum corda	abiogenetic, contagiously, corn beef, hero sandwich, launderette, native bear, research effort, rivalrous, stearic, vinery
Accuracy	18/20 = 90.00%	

Table 64: hyponym for “lizard”-7863-3

Training Data

<i>Positive Training</i> (25 cases)					
African chameleon	American chameleon	alligator lizard	anguid lizard	banded gecko	
basilisk	beaded lizard	chameleon	collared lizard	earless lizard	
flying gecko	gecko	green lizard	horned lizard	iguana	
joint snake	leopard lizard	marine iguana	night lizard	skink	
teiid lizard	teju	tree lizard	worm lizard	zebra-tailed lizard	
<i>Negative Training</i> (25 cases)					
Cnemidophorus	Fumaria claviculata	Henry Miller	Markov chain	POB	
ascendence	baron	concomitance	dachshund	daringly	
fill-in	galley slave	gas-cooled reactor	genus Pritzelago	glittery	
ingrowth	loathsome	nutrient agar	plentifully	practice of medicine	
schematize	siamese	sport utility	travelling	tremble	
<i>Anchors</i> (6 dimensions)					
African monitor	United Republic of Tanzania	cobweb	fringe-toed lizard	geological period	
monitor					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Komodo dragon, blindworm, common iguana, desert iguana, frilled lizard, horned chameleon, legless lizard, western skink	sharksucker
Negative Predictions	dragon, moloch	Acheta assimilis, Ononis repens, Sir Christopher Wren, bacilliform, crescent-cell anemia, genus Pisum, self-giving, sperm oil, turtlenecked
Accuracy	17/20 = 85.00%	

Table 65: hyponym for “make”-83563-13

Training Data

<i>Positive Training</i>	(25 cases)			
arouse	beat	bring	build	clear
cut	derive	direct	film	film-make
generate	give	make	prepare	puncture
raise	re-create	realize	recreate	scrape
short-circuit	start	style	track	write
<i>Negative Training</i>	(25 cases)			
Ambrosia trifida	Cabombaceae	Euphorbia amygdaloides	Proudhon	crystalised
darkey	disinterestedness	diving bell	flexible sigmoidoscope	foetal
griffon	hurricane	husbandly	latinise	nectariferous
oral cavity	peregrination	rave	real-time	reproducible
sailor	sheared	tala	unoriented	vacuum gauge
<i>Anchors</i>	(6 dimensions)			
bastard wing	create verbally	ellipsoidal	form	lichen
twine				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bear, cause, cleave, create by mental act, distill, establish, put on, reproduce	jostle
Negative Predictions	choreograph, institute	Bradypodidae, Psalm, angel shark, bestowal, flimsily, hydroxyzine hydrochloride, loligo, mountain range, reproductive
Accuracy	17/20 = 85.00%	

Table 66: attribute for “malign”-90373-23

Training Data

<i>Positive Training</i>	(25 cases)			
aggressive	broken	disrespectful	evil	hard
immodest	inexpedient	inhumane	inopportune	insensitive
merciless	offensive	painful	pessimistic	septic
undesirable	unhealthy	unkind	unpeaceful	unpleasant
unsound	unsympathetic	unwanted	unwholesome	violent
<i>Negative Training</i>	(25 cases)			
Alkeran	Calliophis	Stephen William Hawking	William Clark Gable	X-linked SCID
areolar tissue	autogenous	cluster bomb	cuckooflower	ecclesiastical robe
family Chaetodontidae	family Pyralidae	family Streptomyces	fir cone	headman
hundred-and-sixty-fifth	incisiveness	landing skids	medical history	obstructionism
ox-eyed daisy	panel discussion	sliced	toddy alm	vigilance committee
<i>Anchors</i>	(6 dimensions)			
contaminative	cruise	harmful	irreverent	masculinization
sick				

Testing Results

	Positive tests	Negative tests
Positive Predictions	destructive, implacable, inclement, malevolent, sarcastic, tough, unfit, unsupportive	fearful, on the fence
Negative Predictions	maleficent, prickling	Hoka, Insectivora, brake failure, common wallaby, myringotomy, ruffle up, sulfurous, wild apple
Accuracy	16/20 = 80.00%	

Table 67: hyponym for “material”-17006-3

Training Data

<i>Positive Training</i>	(25 cases)			
batik	batiste	bunting	calico	cambric
camlet	cerecloth	challis	chenille	cotton flannel
crepe	denim	diamonte	diaper	etamine
faille	felt	fiber	fleece	gabardine
gingham	grosgrain	homespun	lame	linen
<i>Negative Training</i>	(25 cases)			
Ascomycetes	Twilight of the Gods	amalgamative	change posture	columbite
combination	desensitisation	economic	electrical converter	galled
genus Albuca	hobo	kept woman	letting down	one-trillionth
ophthalmectomy	parrot’s bill	prohibitively	razz	run a risk
supernaturalness	type genus	unactable	unendurable	unitization
<i>Anchors</i>	(6 dimensions)			
aba	agronomical	camouflage	extensile	fustian
tingle				

Testing Results

	Positive tests	Negative tests
Positive Predictions	broadcloth, canopy, chiffon, chino, cretonne, crinoline, dimity, grogram	Lear, soloist
Negative Predictions	baize, cashmere	Brisbane, Grampus griseus, delineative, family Cynocephalidae, monomania, rescuer, researcher, tone of voice
Accuracy	16/20 = 80.00%	

Table 68: hyponym for “mechanical device”-19377-3

Training Data

<i>Positive Training</i>	(25 cases)			
bellows	broadcaster	bumper	bumper guard	coupling
curler	diaphragm	dildo	gearshift	machine
propeller	ratchet	record changer	reed	splicer
stator	striker	swing	tone arm	trap
vibrator	weathervane	wheelwork	winder	windshield wiper
<i>Negative Training</i>	(25 cases)			
Derain	E. H. Harriman	RTLT	Sanvitalia	Severn River
Sporozoa	Vaisya	anarchy	cholla	demeaning
detergency	distressingly	family Hydrangeaceae	genus Cydonia	genus Menippe
glottal	mailsorter	militaristic	overfamiliar	reminiscent
traversal	unanalyzable	unpersuaded	urogenital system	varicella zoster virus
<i>Anchors</i>	(6 dimensions)			
Master of Science	Minuteman	Sothis	carburetor	claw
sprinkler				

Testing Results

	Positive tests	Negative tests
Positive Predictions	compressor, copyholder, mechanical device, pantograph, seeder, stoker, stretcher	Lions Club, coated, hoarding, one of the boys
Negative Predictions	dicer, escapement, voting machine	Khama, Palgrave, coordinative, pound sterling, variola major, word-worship
Accuracy	13/20 = 65.00%	

Table 69: hyponym for “medicine”-19386-3

Training Data

<i>Positive Training</i>	(25 cases)			
analgesic	antiarrhythmic	anticholinergic	antidiabetic	antidiarrheal
antihypertensive	antiprotozoal	antiviral	atomic cocktail	bronchodilator
carminative	cold medicine	cytotoxic drug	histamine blocker	immunosuppressant
isoproterenol	methacholine	oxytocic	patent medicine	penicillamine
pharmaceutical	specific	sucralfate	suppository	tincture
<i>Negative Training</i>	(25 cases)			
Apsu	Dalmatian iris	Finno-Ugric	Gary Weinstein	Phasmatodea
Spanish rice	Zapus	artificial flower	capital of Chile	cow’s head
desynchronise	genus Argemone	haircloth	honey crisp	hooved
independently	literary	of late	osteotomy	paleontological
phatic communication	soft-shell crab	suzerainty	take a look	vena nasofrontalis
<i>Anchors</i>	(6 dimensions)			
Karakorum Range	Reynard	antispasmodic	medicine	megalomania
paregoric				

Testing Results

	Positive tests	Negative tests
Positive Predictions	anticholinesterase, anticonvulsant, antitussive, azidothymidine, cure, disulfiram, expectorant, placebo, sedative	nonsteroidal anti-inflammatory
Negative Predictions	blocker	Ernest Bloch, Hydra, Illyrian, Zimbabwean dollar, arrested, ionic, lymphoblastic leukemia, ophthalmitis, resourceless
Accuracy	18/20 = 90.00%	

Table 70: hyponym for “mollusk genus”-9283-3

Training Data

<i>Positive Training</i>	(25 cases)			
Ancylus	Arca	Cypraea	Hermisenda	Limax
Littorina	Mercenaria	Patella	Pholas	Placuna
Sepia	Strombus	Tridacna	Unio	Venus
genus Chiton	genus Nautilus	genus Nerita	genus Octopus	genus Ommastrephes
genus Pecten	genus Physa	genus Spirula	genus Teredo	mollusk genus
<i>Negative Training</i>	(25 cases)			
Brachycome Iberidifolia	Holy Ghost	Jasmine tobacco	Sarraceniaceae	Scotch whiskey
Trachurus symmetricus	autoimmune disorder	black buck	electrical cable	expert witness
fair use	flagging	fulfilled	headstand	just right
lacrimal	piperacillin	prerecord	resolvable	rottenly
self-discovery	surplus	tea wagon	tortellini	wristwatch
<i>anchors</i>	(6 dimensions)			
Mytilus	Palestine	Pinctada	Ralph Vaughan Williams	genus Neritina
plasma				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Anodonta, Anomia, Bankia, Cardium, Dreissena, Ensis, Haminoea, Lambis, Mya, genus Loligo	
Negative Predictions		Holy Writ, Vangueria, canalise, genus Carica, hard, obstetrical delivery, recollection, sunrise industry, things, unbar
Accuracy	20/20 = 100.00%	

Table 71: hyponym for “neural structure”-28215-3

Training Data

<i>Positive Training</i>	(25 cases)			
Wernicke’s area	autonomic ganglion	brain	brainstem	cerebellum
cerebrum	cingulate gyrus	cortex	forebrain	geniculate body
hypothalamus	mamillary body	midbrain	myelencephalon	neocortex
neural structure	nucleus	paleocortex	radiation	rhinencephalon
right hemisphere	spinal cord	telencephalon	thalamus	visceral brain
<i>Negative Training</i>	(25 cases)			
Descurainia	State Department	abeam	bully off	bumblebee
butterfly plant	curtain raiser	dead animal	derail	dynamic electricity
explore	fisher	hoyden	lightning conductor	little finger
pliantly	proclaimed	rapid	ravenala	rushed
safety harness	sexual practice	sirloin	taken for granted	unindebted
<i>anchors</i>	(6 dimensions)			
Trionyx	diencephalon	ganglion	junked	pyriform area
speech defect				

Testing Results

	Positive tests	Negative tests
Positive Predictions	hindbrain, hippocampus, medulla oblongata, neencephalon, olfactory bulb, paleencephalon, paleocerebellum, pons, respiratory center	anatomically, coarctation
Negative Predictions	hemisphere	Claytonia caroliniana, Cyclops, Lanius lucovicianus, Peter Seeger, animalisation, elating, slice up, unchastened
Accuracy	17/20 = 85.00%	

Table 72: hyponym for “palm”-62030-3

Training Data

<i>Positive Training</i>	(25 cases)			
areca	cabbage palm	calamus	caranday	cohune palm
corozo	feather palm	fishtail palm	gebang palm	ivory palm
jupati	latanier	miniature fan palm	nipa palm	palmyra
piassava palm	raffia palm	rattan	reed rhaps	sago palm
saw palmetto	talipot	thatch palm	true sago palm	wax palm
<i>Negative Training</i>	(25 cases)			
Dacca	First World War	Huxley	Last Frontier	Littorinidae
Lower Peninsula	Molotov cocktail	Nemophila aurita	Sporobolus poiretii	Wernicke’s area
acute lymphoblastic leukemia	alfresco	binaural	blue stem	chameleon
chicken manure	class Oomycetes	flying cat	frypan	later
onion butter	prairie fox	prairie wake-robin	thermometer	ulemorrhagia
<i>Anchors</i>	(6 dimensions)			
appellate court	grugru	key palm	oil palm	presbyopic
sleeping sickness				

Testing Results

	Positive tests	Negative tests
Positive Predictions	babassu, bamboo palm, carnauba, coco palm, date palm, lawyer cane, palm, sugar palm, wine palm	
Negative Predictions	palmetto	Dame Nellie Melba, celery, genus Aegyptopithecus, green mushroom pimple, orca, pound sterling, prednisolone, rotor shaft, spotted weakfish, water
Accuracy	19/20 = 95.00%	

Table 73: hyponym for “part”-20215-3

Training Data

<i>Positive Training</i>	(25 cases)			
addition	appendage	auto part	bend	bulb
butt	cigar butt	crystal	forte	handhold
handle	ingredient	jetsam	module	part
peen	piece	piece of cloth	retrofit	roach
shank	spare part	spark gap	subsection	tailpiece
<i>Negative Training</i>	(25 cases)			
Haplopappus	Juncus effusus	Uncle Sam	Zama	amplitude level
animateness	brickwork	citation form	contract out	cultivable
curvaceous	dyspnoeal	egotist	family Menispermaceae	family Passifloraceae
general delivery	genus Cimex	narrow gauge	onion thrips	paleology
patriotically	photoelectrical	take counsel	thrust out	venae dorsales penis superficiales
<i>anchors</i>	(6 dimensions)			
genus Angraecum	heating element	length	loony bin	section
shin splints				

Testing Results

	Positive tests	Negative tests
Positive Predictions	audio, hub, landside, limb, makings, pressing, snip, straightaway	bedrest, bounded
Negative Predictions	lagan, shard	Hurok, betweenbrain, institutionalized, minority leader, someways, spring-clean, turakoo, whorled aster
Accuracy	16/20 = 80.00%	

Table 74: hyponym for “percoid fish”-12817-3

Training Data

<i>Positive Training</i>	(25 cases)			
blanquillo	butterfly fish	cardinalfish	clingfish	cusck-eel
dolphinfish	gempylid	grunt	pearlfish	perch
pike	sandfish	sciaenid fish	sea bream	sea chub
serranid fish	sleeper	sparid	sunfish	surfperch
threadfin	tilefish	tripletail	whiting	wormfish
<i>Negative Training</i>	(25 cases)			
Clinoril	Mutinus	ThM	auction off	breaking off
circlet	essentiality	look after	mater	metaphoric
monoblast	moralize	musci form	narrow-leaved bottletree	procrastination
roundsman	salable	scenic artist	shittah	skeptic
tricycle	unequipped	watch out	water system	xerophytic
<i>Anchors</i>	(6 dimensions)			
Amphisbaenia	Byzantinism	Shockley	blennioid fish	flathead
scombroid				

Testing Results

	Positive tests	Negative tests
Positive Predictions	archerfish, bluefish, brotula, butterflyfish, catalufa, cobia, percoid fish, sand stargazer, stargazer	Neanderthal
Negative Predictions	bass	Jakob-Creutzfeldt disease, Maltese cross, Nephrolepis, Ranunculus, genus-Megapodius, ischaemia, modulus of rigidity, physics class, soured cream
Accuracy	18/20 = 90.00%	

Table 75: hyponym for “period”-74852-3

Training Data

<i>Positive Training</i>	(25 cases)			
Golden Age	Olympiad	bronze age	century	decade
duration	elapsed time	evening	field day	lactation
mid-April	mid-August	mid-February	mid-January	mid-May
quarter	shelf life	silver age	time limit	time of life
travel time	two weeks	uptime	week	year
<i>Negative Training</i>	(25 cases)			
American dog tick	Caprimulgus	Hygrocybe	Jerry Lee Lewis	Manduca quinquemaculata
Marvin Neil Simon	Oriya	Orthilia	Seth Thomas	chickweed phlox
credits	department of economics	easy chair	finder	genus Otis
housetlights	klutz	mixed marriage	numskull	parametric
patronage	spirea	stated	stealing	strainer vine
<i>anchors</i>	(6 dimensions)			
Strassburg	festival	innately	subdivide	time frame
trial period				

Testing Results

	Positive tests	Negative tests
Positive Predictions	eve, mid-December, mid-November, month, past, trimester, weekend, work time	56, Catherine, St David, mug
Negative Predictions	calendar day, puerperium	Anthozoa, Nenets, chungu, genus Glyceria, mixed nuisance, mucosa
Accuracy	14/20 = 70.00%	

Table 76: hyponym for “pitched battle”-4395-3

Training Data

<i>Positive Training</i>	(25 cases)			
Borodino	Brunanburh	Cannae	Caudine Forks	Chattanooga
Chickamauga	Cowpens	Crecy	Cynoscephalae	El Alamein
Flodden	Fredericksburg	Guadalcanal	Issus	Jena
Kennesaw Mountain	Leuctra	Monmouth Court House	Panipat	Plataea
Poitiers	Pydna	Rocroi	Soissons	pitched battle
<i>Negative Training</i>	(25 cases)			
Aachen	Croesus	Papuan language	Saida	Sarah Kemble Siddons
Uria aalge	Zoarces viviparus	adhesive material	blackhead	bristle grass
brocaded	bulgur pilaf	certiorari	crockery	dwarf sumac
fragrant agrimony	goliath	hacksaw	ice hockey rink	irreproachably
ramequin	rape suspect	scoop shovel	tug	water trumpet
<i>anchors</i>	(6 dimensions)			
Bannockburn	Fort Ticonderoga	Ravenna	baronetcy	family Grossulariaceae
rulership				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Boyne, Chaeronea, Chancellorsville, Hohenlinden, Lake Trasimenu, Lule Burgas, Lutzen, Philippi, Plassey, Rossbach	
Negative Predictions		Neofiber alleni, Torquemada, William Tindale, at liberty, campanulate, fivepence, irrefutable, palaeontology, ship’s officer, towel rail
Accuracy	20/20 = 100.00%	

Table 77: hyponym for “placement”-26372-3

Training Data

<i>Positive Training</i>	(25 cases)			
Bermuda rig	balance	concentration	distribution	elevation
farness	fenestration	flux density	fore-and-aft rig	interval
leap	nearness	patency	piece	placement
raster	remove	rig	spacing	span
split	spread	wavelength	way	wheelbase
<i>Negative Training</i>	(25 cases)			
American buffalo	Eucalyptus pauciflora	Gorilla gorilla	Larvacea	Piranga ludoviciana
Wordsworth	XV	acquisition agreement	blue-eyed	chylaceous
clock off	contretemps	customer agent	emphasise	engraving
figwort family	flintstone	genus Bombina	hundredfold	jibboom
lacebark	lontar	modality	orange mushroom pimple	undecided
<i>Anchors</i>	(6 dimensions)			
deconsecrate	diffusion	draw	dress down	hyperfocal distance
ramification				

Testing Results

	Positive tests	Negative tests
Positive Predictions	composition, distance, focal distance, hour, mean distance, mileage, misalignment, openness, throw	sensibly
Negative Predictions	lateen-rig	Pyrola rotundifolia americana, devil ray, drawing power, drawn-out, marsh elder, memory picture, skirt of tasses, sweet-birch oil, workplace
Accuracy	18/20 = 90.00%	

Table 78: hyponym for “playwright”-49492-3

Training Data

<i>Positive Training</i>		(25 cases)		
Aeschylus	Anouilh	Aristophanes	Calderon	Chekhov
Coward	Crouse	Giraudoux	Goldoni	Granville-Barker
Hart	Hugo	Ibsen	Mamet	Marlowe
Marstan	Miller	Pirandello	Plautus	Rice
Shaw	Sherwood	Simon	Strindberg	playwright
<i>Negative Training</i>		(25 cases)		
Didrikson	Embiodea	Gesell	Nostocaceae	Piscidia
Pocahontas	Tropidoclonion lineatum	brontosaurus	bush out	dogmatism
family Hylobatidae	genus Castor	in gear	insanely	keep up
lap of luxury	latest	nitrochloromethane	okay	one hundred one
paganise	provisory	receipts	strangler tree	unrequited
<i>anchors</i>		(6 dimensions)		
Dryden	Goethe	Seneca	bass voice	fatism
two-thirds				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Barrie, Dekker, Eliot, Garcia Lorca, Ionesco, Jonson, Middleton, Molnar, O’Casey	
Negative Predictions	Genet	Synchytrium endobioticum, allspice, azonic, chain gang, cockcrow, codefendant, family Corylaceae, hygienically, programma, shortening
Accuracy	19/20 = 95.00%	

Table 79: hyponym for “President of the Uni”-51789-3

Training Data

<i>Positive Training</i>	(25 cases)				
Adams	Arthur	Buchanan	Carter	Cleveland	
Ford	Garfield	Harding	Harrison	Hayes	
Hoover	Jefferson	Johnson	Lincoln	McKinley	
Monroe	Nixon	Pierce	Polk	President of the United States	
Roosevelt	Truman	Van Buren	Washington	Wilson	
<i>Negative Training</i>	(25 cases)				
Anguis	Columba livia	Geminal	Hall	Mysidacea	
Pinus pinea	Platylobium	Stegosaur stenops	adder	albinal	
anoestrum	appraising	auxiliary pump	beat about	civic responsibility	
die	dosimetry	etui	honey fungus	humming bird’s trumpet	
merchant ship	oxidation state	running game	true glottis	uncounted	
<i>Anchors</i>	(6 dimensions)				
Bush	Clinton	Reagan	genus Platichthys	hear out	
prehension					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Coolidge, Eisenhower, Fillmore, Grant, Jackson, Kennedy, Madison, Taft, Taylor, Tyler	White
Negative Predictions		Apresoline, Krasner, Persea, Rolf, drop biscuit, haematohiston, nonparasitic, permeableness, waistband
Accuracy	19/20 = 95.00%	

Table 80: hyponym for “put”-82954-13

Training Data

<i>Positive Training</i>	(25 cases)			
arrange	barrel	clap	ensconce	ground
install	jar	juxtapose	ladle	lose
misplace	perch	pigeonhole	position	rack up
replace	reposition	seat	set down	settle
sign	siphon	sow	space	upend
<i>Negative Training</i>	(25 cases)			
3D	Baron Lister	Chelonethida	Edward VII	Henry Kenneth Alfred Russell
Peireskia	ambiguously	bridge over	calliper	consummate
craniologist	farther	herculean	individualistic	inframaxillary
kernite	minibar	pair off	rivulet	rocket firing
shoe polish	thenar	theorem	water-resistant	white line
<i>Anchors</i>	(6 dimensions)			
Cathartes aura	butt	rebuke	stick	taira
tee				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bed, bottle, bucket, deposit, plant, poise	Peel
Negative Predictions	coffin, marshal, repose, superpose	Anchorage, camion, genus Euthynnus, heterospory, isotropic, magnetic tape, posterior vein of the left ventricle, sacrificeable, summer sweet
Accuracy	15/20 = 75.00%	

Table 81: hyponym for “remove”-76568-13

Training Data

<i>Positive Training</i> (25 cases)				
ablate	clear	clear off	clear up	condense
decarbonize	dehorn	desorb	eliminate	hull
husk	ream	remove	scale	scalp
shell	shuck	strip	take away	tear away
unbrace	unhinge	wear away	weed	winnow
<i>Negative Training</i> (25 cases)				
Ptychozoon	Saccharomyces cerevisiae	branding iron	bronchus	dhole
genus Kiggelaria	genus Psychopsis	gimcracks	human being	liparis
margrave	ophthalmic vein	penuchle	primate	rachis
radiation sickness	sleepwalk	snake-rail fence	speedway	sweptback
tractable	trustworthiness	under our noses	unheeding	writing implement
<i>Anchors</i> (6 dimensions)				
abnormalcy	bone	desalinisation	epilate	exenterate
madderwort				

Testing Results

	Positive tests	Negative tests
Positive Predictions	amputate, bail, bur, de-iodinate, degas, dredge, expectorate, resect, scavenge, skim off	have sex, lipase
Negative Predictions		Chinese gooseberry, Lententide, corroborative, enigmatic, pronoun, strawberry hemangioma, traffic island, unpalatability
Accuracy	18/20 = 90.00%	

Table 82: hyponym for “river”-46262-3

Training Data

<i>Positive Training</i>	(25 cases)				
Aare	Allegheny	Amazon	Aras	Arkansas	
Avon	Bighorn	Brazos	Chao Phraya	Chattahoochee	
Cimarron	Cocytus	Colorado	Congo	Danube	
Darling	Detroit River	Ebro	Housatonic	Huang He	
Illinois River	Irrawaddy	Kansas	Kura	Meuse	
<i>Negative Training</i>	(25 cases)				
American chestnut	Andrew Dickson White	Aquitania	Djibouti	Mt. Rushmore	
William F. Cody	anadiplosis	bacillar	budget deficit	capitulation	
cat cracker	cognizable	cow-tongue fern	epidemic encephalitis	genus Actinomeris	
heart pea	hirer	pressurised	pretty up	receivership	
relyric	teddies	telomerase	uninominal voting system	vitriolic	
<i>anchors</i>	(6 dimensions)				
Brahmaputra	Connecticut	Demerara	bash	conjoint	
railroad tie					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Acheron, Cape Fear River, Cumberland, Elbe, Euphrates, Flint, James, river	Aristophanes, administrate, appropriation, boorishly, first and foremost, self-explanatory
Negative Predictions	Araguaia, Irtish	Karl Theodor Jaspers, Pycnogonida, form division, thoroughbred racing
Accuracy	12/20 = 60.00%	

Table 83: membermeronym for “Sapindales”-62807-7

Training Data

<i>Positive Training</i>	(25 cases)			
Aesculus	Anacardiaceae	Aquifoliaceae	Astronium	Cardiospermum
Celastraceae	Cliftonia	Cyrilliaceae	Dimocarpus	Dipteronia
Empetrum	Hippocastanaceae	Mangifera	Pistacia	Rhodosphaera
Rhus	Sapindaceae	Sapindus	Schinus	Staphylaceae
Toxicodendron	genus Cyrilla	genus Harpullia	genus Litchi	genus Pachysandra
<i>Negative Training</i>	(25 cases)			
Erysimum	Henry Oscar Houghton	Malthusian theory	Oruvail	Slovakian
adrift	bowed stringed instrument	crowberry family	dealings	defendable
family Fagaceae	genus Cypripedium	histogram	karaya gum	leucaemia
no man’s land	oral fissure	phonograph recording disk	picturesquely	piezoelectric effect
quadruplet	uninterestingly	unknowingly	unsupervised	ureterorenal reflux
<i>Anchors</i>	(6 dimensions)			
Celastrus	Malosma	Sapindales	caesura	genus Calymmatobacterium
hyperkalemia				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Aceraceae, Anacardium, Buxaceae, Empetraceae, Euonymus, Ilex, Melicoccus, Nephelium, Staphylea	
Negative Predictions	Acer	Atticus, Cooper Union, Felis chaus, Rheum, country doctor, kike, litotes, netball, petrify, precess
Accuracy	19/20 = 95.00%	

Table 84: hyponym for “seat”-21709-3

Training Data

<i>Positive Training</i>	(25 cases)			
armchair	banch	barber chair	bench	campstool
chair	chaise	divan	flat bench	footstool
ladder-back	love seat	milking stool	ottoman	park bench
pew	piano stool	seat	settee	squab
stool	straight chair	taboret	throne	window seat
<i>Negative Training</i>	(25 cases)			
Aphyllanthes	Botrychium multifidum	Crataegus mollis	Ragnarok	anal
block capital	contraindicate	dill seed	economical	embrace
genus Ailanthus	genus Cambarus	genus Timalia	hospital train	immaculately
infantry	inspect	metricate	nagami kumquat	nonhierarchic
piazza	position	roundedness	trophozoite	unperceptiveness
<i>Anchors</i>	(6 dimensions)			
Eames chair	Port Orford cedar	Synaptomys cooperi	box seat	daybed
yellowish pink				

Testing Results

	Positive tests	Negative tests
Positive Predictions	banquette, cutty stool, fighting chair, lawn chair, prie-dieu, step stool, tablet-armed chair, toilet seat	endurable
Negative Predictions	Siege Perilous, convertible	Philip Warren Anderson, bowery, creaminess, ethicist, family Gleicheniaceae, horde, rose apple, split-half correlation, strive
Accuracy	17/20 = 85.00%	

Table 85: similar to for “simple”-101485-19

Training Data

<i>Positive Training</i>	(25 cases)			
acerate	acuate	annular	apiculate	auriform
ball-shaped	cuneate	domed	ellipsoid	elliptic
ensiform	fusi form	lanceolate	lingulate	lyrate
nibbed	obovate	obtuse	paraboloidal	peaked
pear-shaped	peltate	pyramidal	sagittate	spiked
<i>Negative Training</i>	(25 cases)			
Arapahoe	Stael	T-bar	allergic	ambulate
anopheline	avocational	baby-wise	beforehand	cantering rhythm
derailment	editorial	excursion	fradycin	horst
methamphetamine hydrochloride	nave	of late	radioisotope	saccharic acid
satisfiable	square-shouldered	unreplaceable	ventricular septal defect	white sanicle
<i>anchors</i>	(6 dimensions)			
Danube	Vaduz	audited account	caudate	terete
unlobed				

Testing Results

	Positive tests	Negative tests
Positive Predictions	acanthoid, cycloid, discoid, moonlike, nutlike, oblong, ringlike, umbrellalike	
Negative Predictions	rod-shaped, sharpened	HDL cholesterol, Sealyham terrier, all-time, blue gum, candlesnuffer, drift ice, polo ball, rapist, seabird, spangled
Accuracy	18/20 = 90.00%	

Table 86: hyponym for “singer”-52510-3

Training Data

<i>Positive Training</i>	(25 cases)			
Bailey	Dietrich	Dylan	Garland	Iglesias
Jackson	Joplin	King	Lauder	Marley
Martin	Merman	Orbison	Smith	Wynette
bass	castrato	hummer	opera star	singer
songster	soprano	torch singer	voice	yodeller
<i>Negative Training</i>	(25 cases)			
Halimodendron argenteum	Mauritius	Rosa pendulina	centralised	coagulated
cookstove	dapsone	deodourant	economist	en
folklore	genus Glossina	hyperacidity	junior featherweight	lawn tennis
leap second	mangily	molecular biologist	potato disease	slacking
three-figure	trainer	training program	winter wren	zed
<i>anchors</i>	(6 dimensions)			
Amniota	Waters	baritone	demob	insensitive
minstrel				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Chevalier, Fitzgerald, Jolson, Vaughan, canary, caroler, chorister, crooner, lieder singer, tenor	galley
Negative Predictions		Fagus sylvatica atropunicea, Russian vine, Thrinax microcarpa, abdominousness, acoustic meatus, apathetic, narrow beech fern, nervus femoralis, shadblow
Accuracy	19/20 = 95.00%	

Table 87: hyponym for “skeletal muscle”-27356-3

Training Data

<i>Positive Training</i>	(25 cases)			
abductor	adductor	articular muscle	axial muscle	biceps
biceps brachii	calf	cheek muscle	deltoid	flexor muscle
gluteus	gluteus medius	gluteus minimus	intercostal	peroneus
platysma	psoas	scalenus	soleus	teres
teres minor	tibialis	tibialis anticus	triceps	voluntary muscle
<i>Negative Training</i>	(25 cases)			
Baron Wilhelm von Humboldt	Dicentra canadensis	Fannie Merritt Farmer	Reginald Marsh	St Gregory I
Tiarella unifoliata	William Gladstone	basal	beguile	brush-tailed porcupine
bucktooth	cor pulmonale	food coloring	fringe-toed lizard	genus Achillea
honourable	horn fly	lunar excursion module	purebred	raising hell
steadfast	submediant	superlative	sweep oar	traction
<i>anchors</i>	(6 dimensions)			
depersonalization neurosis	dot printer	gastrocnemius	rhomboid	self-aggrandising
tibialis posticus				

Testing Results

	Positive tests	Negative tests
Positive Predictions	anconeus muscle, depressor, facial muscle, pterygoid muscle, sartorius, teres major, transversus, trapezius, triceps brachii	
Negative Predictions	pecs	Sphyrna, apartheid, bigamy, computer business, course of action, head gate, headfirst, kilovolt, phonologic, satyr orchid
Accuracy	19/20 = 95.00%	

Table 88: hyponym for “skilled worker”-52544-3

Training Data

<i>Positive Training</i>	(25 cases)			
craftsman	crew member	cutter	dental hygienist	electrician
engraver	founder	galvanizer	grip	lobsterman
lockmaster	mortician	mounter	official	oilman
plasterer	printer	refiner	router	sailor
smith	technician	vulcanizer	wallpaperer	wireman
<i>Negative Training</i>	(25 cases)			
Alberto Giacometti	Coccidia	Montreal	Thomas Merton	Vasotec
associatory	burlap bag	contrail	defamer	defense mechanism
droopy	elm	family Tinamidae	genus Lagarostrobos	genus Littorina
genus Matthiola	humanness	inexorably	parade	renovate
replete	ripping bar	sensualize	sober	symptomatic
<i>anchors</i>	(6 dimensions)			
Schutzstaffel	editor	framer	nonpartizan	optician
replacement				

Testing Results

	Positive tests	Negative tests
Positive Predictions	butcher, hunter, laminator, painter, power worker, refinisher, repairman, riveter, skilled worker, turner	forgetful
Negative Predictions		Amy Lyon, Castilleja chromosa, DAT, Joyce Carol Oates, Lin, Schizosaccharomycetaceae, convivial, imperturbableness, keep an eye on
Accuracy	19/20 = 95.00%	

Table 89: hyponym for “skin disease”-70178-3

Training Data

<i>Positive Training</i>	(25 cases)			
Saint Anthony’s fire	acantholysis	acne rosacea	actinic keratosis	eczema herpeticum
flare	furunculosis	jungle rot	keratonosis	keratosis
lichen	lichen planus	lupus	lupus erythematosus	lupus vulgaris
pemphigus	prurigo	psoriasis	seborrhea	seborrheic keratosis
skin disease	vitiligo	xanthelasma	xanthoma	xanthomatosis
<i>Negative Training</i>	(25 cases)			
Angola	Bambuseae	Beatitude	Ethelred	Sphecidae
afghan	cardamum	cherubic	ecdysiast	genus Oestrus
genus Scopolia	heroics	implausible	lamphouse	moss agate
mountain sickness	nardo	portia tree	predicator	sculptured
sentence structure	snide	throwing board	unfurnished	wedlock
<i>Anchors</i>	(6 dimensions)			
Ted Shawn	Testudinidae	archaeopteryx	dermatosis	impetigo
leukoderma				

Testing Results

	Positive tests	Negative tests
Positive Predictions	acanthosis, acanthosis nigricans, allergic eczema, dermatitis, eczema, erysipelas, keratoderma, melanosis, molluscum, pityriasis	
Negative Predictions		Bayer, Strait of Ormuz, cartographic, concubine, family Bradypodidae, glacial, grassy, inconvenient, revival meeting, varan
Accuracy	20/20 = 100.00%	

Table 90: hyponym for “software”-32825-3

Training Data

<i>Positive Training</i>	(25 cases)			
C program	DOS	FORTRAN program	UNIX	application
authoring language	cataloged procedure	compatible software	compiler	freeware
interface	library program	library routine	loop	object program
operating system	parser	patch	program	recursive routine
reusable program	reusable routine	search engine	spider	utility routine
<i>Negative Training</i>	(25 cases)			
Kyrgystan	Liquidambar styraciflua	Muscadet	Northumbria	Saint Kitts
Spiraea prunifolia	advection	audience	dunker	economics
family Xyridaceae	genus Wyethia	helter-skelter	hotel bill	inflammatory disease
monaul	patriot	pediculosis	safeness	skating
subordination	syllogist	systemiser	uncomfortable	unfastener
<i>anchors</i>	(6 dimensions)			
Nabalus	beta software	messianic	monitor program	paramilitary
supervisory routine				

Testing Results

	Positive tests	Negative tests
Positive Predictions	groupware, interpreter, job control, relocatable program, software, supervisory program, supervisory software, syntax checker, system program, utility program	
Negative Predictions		Alfred Damon Runyon, Micronesia, Microtus pennsylvaticus, Persia, S.U.V., Sarah Siddons, cytological, genus Cimicifuga, good guy, milline
Accuracy	20/20 = 100.00%	

Table 91: hyponym for “soldier”-52634-3

Training Data

<i>Positive Training</i>	(25 cases)			
Allen	Green Beret	Highlander	Janissary	Lafayette
Lawrence	Mohammed Ali	Morgan	Percy	Peron
Smuts	Unknown Soldier	cavalryman	flanker	goldbrick
infantryman	militiaman	pistoleer	ranker	regular
reservist	rifleman	soldier	tanker	territorial
<i>Negative Training</i>	(25 cases)			
Datril	John Constable	Klopstock	Wilmot	aggrandisement
anorexigenic	crotal	erose	evergreen oak	fair catch
family Chytridiaceae	family Hydrobatidae	garbage collection	gobbledygook	gore
nonviolence	potato tree	primordium	railroad engineer	see-through
shut away	tidy tips	time value	toy spaniel	turbulent
<i>anchors</i>	(6 dimensions)			
Lee	Trichoglossus moluccanus	guardsman	man-at-arms	offenseless
road test				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Bayard, Borgia, Confederate soldier, Higginson, Tancred, fresh fish, legionnaire, orderly, redcoat	dried fruit, hearer
Negative Predictions	color bearer	anisogamous, canecutter, carcinoid, caudally, fishtail palm, geode, panther lily, toweling
Accuracy	17/20 = 85.00%	

Table 92: hyponym for “spiritual being”-46673-3

Training Data

<i>Positive Training</i>	(25 cases)			
Allah	Anglo-Saxon deity	Bodhisattva	Chinese deity	Egyptian deity
God	Hindu deity	Hypnos	Phrygian deity	Puck
Quetzalcoatl	Titania	archangel	control	earth-god
evil spirit	genie	guardian spirit	numen	peri
sea-god	seraph	spiritual being	war god	water sprite
<i>Negative Training</i>	(25 cases)			
Anne Hathaway	Canadian hemlock	Malacopterygii	Melicocca bijuga	Richard Starkey
Shivaist	Vitis labrusca	William Tatem Tilden Jr.	abstracted	bedding plant
cogitable	doll	foolishness	green salad	hair dryer
lithops	measurement	paseo	plastic art	pleased
sparkling water	teleprinter	torturesome	tranquilising	verisimilar
<i>Anchors</i>	(6 dimensions)			
Carabidae	become flat	goddess	ileostomy	phantom
zombi				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Celtic deity, Japanese deity, Morgan le Fay, Norse deity, cherub, gremlin, presence, python, sun-god, thunderbird	blowjob, progressive
Negative Predictions		Bulwer-Lytton, Camellia sinensis, D region, armed service, elected official, piano wire, purslane family, wholeheartedness
Accuracy	18/20 = 90.00%	

Table 93: hyponym for “sport”-1941-3

Training Data

<i>Positive Training</i>	(25 cases)			
acrobatics	archery	bloodsport	boat racing	bobsledding
bullfighting	camel racing	contact sport	equestrian sport	football
greyhound racing	horse racing	ice skating	jumping	racing
riding	roller skating	skating	ski jumping	skiing
sport	surfing	swimming	tetherball	tobogganing
<i>Negative Training</i>	(25 cases)			
Anglo-American	Bahasa Kebangsaan	Republic of Equitorial Guinea	adequateness	chromoblastomycosis
conversationally	dacryocystitis	genus Eleusine	genus Phallus	gravity meter
halide	iron overload	misrelated	nailrod	ngultrum
pesewa	puzzled	staple gun	statuette	take a powder
taxer	titmouse	tongue-shaped	variola minor virus	window seat
<i>anchors</i>	(6 dimensions)			
cockfighting	dune cycling	end organ	genus Bartramia	infinite
track				

Testing Results

	Positive tests	Negative tests
Positive Predictions	bicycling, boxing, cross-country skiing, gymnastics, judo, motorcycling, outdoor game, rowing, track and field, water-skiing	fee, in hand
Negative Predictions		Havel, Jack Dempsey, Michel Ney, SGML, bedrid, destalinization, tough luck, von Rundstedt
Accuracy	18/20 = 90.00%	

Table 94: hyponym for “star”-46401-3

Training Data

<i>Positive Training</i>	(25 cases)				
Alpha Centauri	Alpha Crucis	Altair	Antares	Beta Centauri	
Beta Crucis	Canopus	Capella	Castor	Deneb	
Denebola	Epsilon Aurigae	Polaris	Pollux	Spica	
Sterope	Vega	flare star	multiple star	nova	
pulsar	red giant	star	variable star	white dwarf	
<i>Negative Training</i>	(25 cases)				
Eucalypt gunnii	Platymiscium	aspic	assuage	bastnaesite	
becoming	component	crepitation	culdoscope	enfranchisement	
gimp	greyish	hypnotize	insincerely	lounging pyjamas	
manna from heaven	massively	mistress	noncausal	sheen	
shoebill	spool	thankfully	traveler’s letter of credit	vena hemiazygos accessoria	
<i>Anchors</i>	(6 dimensions)				
demimondaine	milldam	neutron star	pretender	supergiant	
supernova					

Testing Results

	Positive tests	Negative tests
Positive Predictions	Arcturus, Betelgeuse, Procyon, Regulus, Trapezium, binary star, giant star, lodestar, red dwarf	subset
Negative Predictions	sun	Caesalpinia sepiaria, Chilean strawberry, Upper Avon, earth-god, genus Haldea, ginseng, nonparticipant, pigs’ feet, unabated
Accuracy	18/20 = 90.00%	

Table 95: hyponym for “system”-29145-3

Training Data

<i>Positive Training</i>	(25 cases)			
Apollo program	Aristotlean logic	Boolean logic	Jesuitism	academic program
accounting	balance of payments	current account	defense program	educational program
frame of reference	gambling system	government	honor system	logic
modal logic	organon	point system	program	space program
tax program	theology	vocabulary	vocational program	works program
<i>Negative Training</i>	(25 cases)			
Asteraceae	John Reed	Slo-Bid	architectonics	blighty wound
coin	decrypt	genuflection	genus Lyginopteris	lighterman
mentioner	methodical	mormon cricket	osteomalacia	pachuco
paralytical	phylum Rotifera	pikeblenny	progymnosperm	saltbush
second cranial nerve	service	thusly	volatilised	waxmallow
<i>anchors</i>	(6 dimensions)			
Mercury program	arteria ileocolica	leaf beet	merit system	spoils system
thermoelectrical				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Christian theology, Gemini program, discipline, ethic, formal logic, natural theology, propositional logic, system, training program	Big Brother, Groves, Underground Railroad, criminal negligence, emphasise, glider, uniform
Negative Predictions	fuzzy logic	Cirsium flodmanii, lard oil, scalar product
Accuracy	12/20 = 60.00%	

Table 96: partmeronym for “Texas”-45057-9

Training Data

<i>Positive Training</i>	(25 cases)			
Abilene	Amarillo	Colorado	Del Rio	El Paso
Fort Worth	Galveston Bay	Guadalupe Mountains	Laredo	Llano Estacado
Lubbock	Lufkin	McAllen	Midland	Paris
Plano	Sabine	San Angelo	San Antonio	Sherman
Texarkana	Texas	Tyler	Victoria	Waco
<i>Negative Training</i>	(25 cases)			
Achilles	Ney	Ranunculus glaberrimus	West Point	Zaragoza
coelostat	crotal	economy	family Colubridae	family Cruciferae
fire marshal	genus Ateles	intersecting	ordain	pentagram
put on the line	recombinant human insulin	rurally	sadness	scavenging
searching fire	suck	synonymous	western kingbird	zoysia
<i>Anchors</i>	(6 dimensions)			
Austin	Galveston	Wichita Falls	arbitrariness	atomic number 44
tramontane				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Arlington, Beaumont, Brazos, Brownsville, Bryan, Corpus Christi, Dallas, Houston, Odessa	
Negative Predictions	Canadian	Loris gracilis, Marvell, Ocyurus, class Chondrichthyes, cobber, cress plant, deficiency, indecisively, sufferer, warp
Accuracy	19/20 = 95.00%	

Table 97: hyponym for “tree”-64571-3

Training Data

<i>Positive Training</i>	(25 cases)			
Guinea pepper	Jamaican cherry	anise tree	birch	bottletree
breakax	casuarina	conacaste	coralwood	devilwood
dhawa	ivory tree	lacebark	laurelwood	lead tree
linden	mayeng	oak	oak chestnut	poon
red silk-cotton tree	ribbon tree	souari	yellow wood	zebra wood
<i>Negative Training</i>	(25 cases)			
Doctor of Osteopathy	Fulica atra	Haemulidae	Mammuthus columbi	barbecued wing
black moss	breathlessly	calculator	coronoid process of the mandible	cotangent
dryad	genus Dichondra	hepatic tanager	hyperkinetic syndrome	penitential
percolation	plethoric	publicizing	rationed	sectioned
sedative	small-capitalization	sounded	undramatic	wavering
<i>anchors</i>	(6 dimensions)			
alder	hop hornbeam	putting	sulfacetamide	wholesale house
wild fig				

Testing Results

	Positive tests	Negative tests
Positive Predictions	Australian nettle, bayberry, beech, button tree, gum tree, ice-cream bean, obeche, prickly ash, tulipwood tree, white mangrove	Sorbus sitchensis, drupe
Negative Predictions		Mississippian, advisee, at the same time, craved, factualness, lxvi, softback, xiii
Accuracy	18/20 = 90.00%	

Table 98: attribute for “unfriendly”-95138-23

Training Data

<i>Positive Training</i>	(25 cases)			
assertive	cold	composed	dignified	dissimilar
inclement	inharmonious	inhospitable	malign	stable
tame	unaffected	unagitated	uncongenial	undesirable
unemotional	unenthusiastic	unfriendly	ungregarious	unmoving
unpleasant	unresponsive	unsocial	unwanted	violent
<i>Negative Training</i>	(25 cases)			
Attacapa	Battle of Monmouth	Nasalis	Vittariaceae	air plant
batter	coagulate	compartmentalized	deamination	dhak
family Myxophyceae	field of operation	hospitalisation	irresponsibility	like an expert
lookdown	olfaction	overfeeding	personal identification number	sei whale
sheet	stolidness	supergrass	terrine	wild cherry
<i>anchors</i>	(6 dimensions)			
dog stinkhorn	family Piperaceae	incompatible	maleficent	partition off
stormy				

Testing Results

	Positive tests	Negative tests
Positive Predictions	hateful, insensitive, malevolent, peaceful, quiet, steady, unsociable	admiringly, endurance, overstated, overtly, subscribed
Negative Predictions	different, passionless, unexcited	Alexander Pushkin, Brabancon griffon, deficiency disease, littleneck clam, scratch out
Accuracy	12/20 = 60.00%	

Table 99: hyponym for “user”-53285-3

Training Data

<i>Positive Training</i>	(25 cases)			
bar fly	cigarette smoker	consumer	devourer	diner
drinker	eater	end user	gobbler	guest
luncher	omnivore	patron	pipe smoker	prodigal
quaffer	scoffer	snuffer	spender	spendthrift
sucker	usufructuary	utilizer	wassailer	whoremaster
<i>Negative Training</i>	(25 cases)			
Agave sisalana	Anthemis nobilis	Brama raii	Charles	Origanum vulgare
alopecia	atavistic	backfire	bedamn	brake drum
colicroot	demitasse	editorially	elephantiasis neuromatosa	full-of-the-moon
genus Grison	genus Holothuria	lighting-up	lightly armoured	munj
political correctitude	pridefulness	red carpet	subsistence farming	waterway
<i>anchors</i>	(6 dimensions)			
beer drinker	disputable	genus Prosopis	gulper	minimisation
reader				

Testing Results

	Positive tests	Negative tests
Positive Predictions	buyer, chewer, cigar smoker, customer, drunken reveler, dunker, sipper, smoker, user	Hadean, affect, anglerfish
Negative Predictions	warrantee	Tetranychidae, adjournment, asynchronous transfer mode, breaking off, dairy, particularisation, take a breath
Accuracy	16/20 = 80.00%	

Table 100: hyponym for “vegetable”-38856-3

Training Data

<i>Positive Training</i>	(25 cases)				
Bermuda onion	French sorrel	Vidalia onion	artichoke	artichoke heart	
bean	black-eyed pea	carrot	celeriac	celery	
chop-suey greens	fennel	gumbo	legume	lentil	
parsnip	pea	plantain	radish	rhubarb	
sorrel	squash	summer squash	wild spinach	winter squash	
<i>Negative Training</i>	(25 cases)				
Hepburn	affranchise	anaclisis	anaplastic	back down	
blue whale	breathed	coffeepot	enervated	family Cruciferae	
guardhouse	incest	nephrosis	neutrophile	pinealoma	
pliability	primacy	sheeny	sieve tube	street arab	
structural linguistics	take chances	transplanting	war-worn	wiper motor	
<i>Anchors</i>	(6 dimensions)				
Erigeron divergens	chard	cucumber	dandelion green	dissenting opinion	
fond regard					

Testing Results

	Positive tests	Negative tests
Positive Predictions	beet green, cardoon, gherkin, greens, onion, potato, root vegetable, spring onion	
Negative Predictions	pascal celery, pulse	box girder, chiropody, cobblestoned, coolly, cryptococcosis, order Solenichthyes, outlawry, piquancy, spareness, summons
Accuracy	18/20 = 90.00%	

Table 101: hyponym for “wind”-57249-3

Training Data

<i>Positive Training</i>	(25 cases)			
air	bluster	calm air	doldrums	fohn
gentle breeze	gust	harmattan	headwind	high wind
jet stream	katabatic wind	mistral	north wind	northwest wind
prevailing wind	sea breeze	south wind	southeaster	southwester
thermal	trade wind	updraft	west wind	whole gale
<i>Negative Training</i>	(25 cases)			
Al-Magrib	Balistes vetula	Republic of Armenia	Tsuga caroliniana	alpha privative
arty-crafty	bioscope	caesarean section	cut-and-dried	delineative
enkephalin	escalope de veau Orloff	genus Cantharellus	geometry teacher	haematoidin
icky	incognizant	ruffled	run over	stone marten
suburbia	syndactyly	travelog	underproduce	watch over
<i>Anchors</i>	(6 dimensions)			
Addison’s syndrome	Ophrys sphegodes	crosswind	draft	moderate gale
thyrotrophin				

Testing Results

	Positive tests	Negative tests
Positive Predictions	antitrade wind, levanter, light air, line squall, strong breeze, strong gale, tramontane, wind	deciding
Negative Predictions	bise, sandblast	Cuzco, Eurocentric, Stropharia hornemannii, conjurer, madame, oral fissure, scunner, valvule, windbag
Accuracy	17/20 = 85.00%	