

Table of contents

List of tables	XV
List of figures	XVII
Preface	1
SECTION 1	9
CHAPTER 1	
Introducing metaphor	11
1.1 Some terms for analysing metaphors	11
1.2 Inter-relations between metaphors	12
1.3 The theory of conceptual metaphor	13
1.4 Characterising conceptual metaphors and metaphor themes	17
1.5 Literal language, conventional metaphor and original metaphor	21
1.6 Convention, commonsense and latent ideology	25
1.7 Conclusion: CATEGORY IS DIVIDED AREA	30
CHAPTER 2	
Metaphors of power	35
2.1 Introduction	35
2.2 IMPORTANT IS BIG, POWER/CONTROL IS ABOVE, IMPORTANCE/STATUS IS HIGH	35
2.3 IMPORTANT IS CENTRAL	40
2.4 RACE IS COLOUR, GOOD IS PURE/CLEAN/WHITE	45
2.5 DISEASE IS INVASION	49
2.6 ACTIVITY IS MOVEMENT FORWARDS and the cult of speed	51
2.7 Time and space metaphors	60
2.8 TIME IS MONEY/COMMODITY	68
2.9 Education, socialisation and time: <i>Harry Potter and the Philosopher's stone</i>	69
2.10 ACTIVITY IS FIGHTING	72
2.11 The adversarial system in law, politics, the media and philosophy	78
2.12 SEX IS VIOLENCE and rape	83
2.13 Summary	85

CHAPTER 3

Metaphors for humans and the living world

89

- 3.1 Introduction 89
- 3.2 HUMAN IS FOOD 89
- 3.3 Life as a commodity 90
- 3.4 QUALITY IS MONEY/WEALTH 95
- 3.4.1 Privatisation of natural "resources" 97
- 3.5 ORGANISATION/SYSTEM IS MACHINE 100
- 3.6 HUMAN IS MACHINE 103
- 3.6.1 Lexical evidence for the prevalence of the metaphor 103
- 3.6.2 Science, technology and the mind/body as machine 107
- 3.6.3 Objections to mechanistic views of humans 111
- 3.6.4 The Santiago theory of cognition 113
- 3.6.5 Haraway's cyborg manifesto 114
- 3.7 Summary 117

CHAPTER 4

Humans as animals, literal or metaphorical?

119

- 4.1 Impositive metaphors and subjective metaphors 119
- 4.2 LANDSCAPE/WEATHER IS A HUMAN BODY? 121
- 4.3 HUMAN IS ANIMAL? 125
- 4.3.1 Human as more or less/a kind of animal – selfish, competitive and aggressive 128
- 4.3.2 Humans as more or less animals – but co-operative and symbiotic 140
- 4.3.3 Humans as in many respects animals 144
- 4.3.4 Humans as possibly like animals in many respects, but ideally as different 148
- 4.3.5 Humans as in some/few respects like an animal 153
- 4.3.6 Human reductionism 157
- 4.4 Summary 159

Interactions between metaphor themes

163

- 5.1 Introduction 163
- 5.2 Multivalency 164
 - 5.2.1 Multivalency → MORE = GOOD 165
 - 5.2.2 Multivalency → CHANGE = SUCCESS/DEVELOPMENT 170
- 5.3 Evaluative oppositions 177
 - 5.3.1 RELATIONSHIP IS PROXIMITY/COHESION V. FREEDOM IS SPACE TO MOVE 178
 - 5.3.2 Change v. stability in Relationships 187
- 5.4 A complex case of metaphor theme interaction 192
- 5.5 Diversification 197
 - 5.5.1 Diverse metaphors for emotion 197
 - 5.5.2 Diverse metaphors for education 206
 - 5.5.3 Summary of diversification 213
- 5.6 Summary of metaphorical interactions 214

INTRODUCTION TO SECTION 2

Are metaphorical themes universal?

217

- 6.1 Mind, body and culture 217
- 6.2 Metonymy as basis of all conceptual metaphor themes 218
- 6.3 EMOTION IS SENSE IMPRESSION 224
 - 6.3.1 Damasio's theory of the emotions 224
 - 6.3.2 EMOTION AS CAUSE OF EMOTION metonymy 230
 - 6.3.3 Specific emotional/bodily responses 236
- 6.4 The cultural influences on emotion metaphors 243
 - 6.4.1 Metaphor themes for anger in English 244
 - 6.4.2 Cultural variations in metaphor themes for anger 248
 - 6.4.3 Humoral theory and the body-cultural history debate 250
- 6.5 Challenges to the universality of conceptual metaphor themes 256
 - 6.5.1 No such exact target concept exists in one culture/language as exists in another 257
 - 6.5.2 No such exact source concept exists in one culture/language as exists in another 260
 - 6.5.3 Target varies with the source 262
 - 6.5.4 Sources and targets are paired differently 265
 - 6.5.5 Different grounds or partial mapping of potential correspondences 267
 - 6.5.6 General identity of pairing with specific differences 270
- 6.6 Grady, primary metaphors and multivalency 270
- 6.7 Questioning the metonymic basis of metaphor themes 273
- 6.8 The body as biological or historical and cultural? 276

7.1	Introduction	281
7.2	The noun-verb/thing-process construction	282
7.3	The typical clause and canonical events	284
7.4	Canonical events, the Newtonian world-view and industrialisation	288
7.4.1	Industrialising nature	290
7.4.2	The role of ideological metaphors in the industrialisation of nature	295
7.5	Modern scientific challenges to Newtonian dynamics	298
7.6	Congruent language and grammatical metaphor	302
7.7	Grammatical metaphors for modern science	305
7.7.1	Activation of tokens	307
7.7.2	Activation of experiences (phenomena)	307
7.7.3	Ambient structures or dummy subjects: prop <i>it</i> and existential <i>there</i>	308
7.7.4	Activation of circumstances	309
7.7.5	Creative processes and cognate objects	309
7.7.6	Reciprocal and reflexive verbs	309
7.7.7	Ergativity	310
7.7.8	Nominalization	313
7.8	Niitsi'powahsin (Blackfoot) grammar as radical metaphor	315
7.8.1	Emphasis on "verbs" in Niitsi'powahsin	317
7.8.2	"Nominalisations"	319
7.8.3	Niitsi'powahsin (Blackfoot) speakers' perspectives	320
7.9	Other relevant aspects of Blackfoot world-view	323
7.10	Possession	326
7.10.1	Action schema	327
7.10.2	Location, existence and other schemas	327
7.10.3	Ideology and the action schema	328
7.11	Conclusion and summary: process philosophies and ideologies	330

Capitalism and the development of ideological metaphors	335
8.1 Introduction	335
8.2 The ideological tradition of capitalist economic philosophy	336
8.2.1 Competition and conflict	337
8.2.2 Self-interest, individualism and the family	344
8.2.3 Man is animal	349
8.2.4 Property	351
8.2.5 Summary	357
8.2.6 Newtonian influence on economic philosophers	359
8.2.7 Man and society as machines	361
8.2.8 Quality and quantity	365
8.2.9 QUALITY IS WEALTH/MONEY	367
8.2.10 Economic virtues and TIME IS MONEY/COMMODITY	373
8.2.11 Progressivism in Darwin: CHANGE = GOOD	379
8.2.12 Capitalist economic philosophers, experientialism and the contemporary theory of metaphor	380
8.3 A critique of Lakoff's <i>Moral Politics</i>	383
8.4 Reductionism or not?	388
8.4.1 Feyerabend, Prigogine and reductionism	390
8.4.2 Experiential cognitive science as reductionism	392
8.4.3 Literalisation, reductionism and ideology	393
8.4.4 A less-reductionist model of discourse	393
8.5 Envoi: a meditation on incarnation	395
8.6 Summary and conclusion	401
Bibliography	403
Main index	415
Name and author index	423
Index of languages	427
Index of metonymy themes X AS Y metaphor themes X IS Y, metaphor equations X = Y and theme reversals	429

Main index

The page numbers in italics indicate where a term is defined or where the topic receives the most extensive or important treatment.

A

- action
 - chain 284, 290, 309, 314
 - schema, *see* possession
- activation of experiences, *see* grammar, consonant
- activation of tokens, *see* grammar, consonant
- Actor 288, 298, 308–10, 312, 314, 322, 327, 329
- adversarial system 78–86, 139
 - non-adversarial alternatives 81–83
 - non-adversarial metaphors 81
- advertising 13, 31, 393,
- aggression 6, 83, 85, 129–34, 137, 143–44, 159, 194, 244, 276, *see also* FIGHTING
- AIDS *see* disease, HIV/Aids
- altruism *see* selflessness
- American dream 384
- analogy 11, 16, 31, 48, 66, 72, 96, 137, 164, 182–83, 222, 241, 273–74, 360, 364, 371
- anger 218–19, 223, 227, 231–32, 236, 238–50, 254
 - Anglo culture 259
- animals 119–62, 286, 298, 325, 336, 340–42, 349–50, 353, 385, 389, 392–93, 402
- anthropic principle 300, 402
- antibiotic resistant bacteria 50
- antibodies 225, 326
- antigen 225
- antithesis, *see* dualism.
- apartheid 48
- arbitrariness 23
- architecture 6, 260
- artificial intelligence 112, 114, 392
- auto-immune diseases, *see* disease

- automata 66, 111, 393
- avarice 369, *see also* greed
- avatar 174, 398
- B
- Babel 37, 44
- bacteria 49–51, 72, 85, 87, 131, 141–42, 326,
 - autotrophic bacteria 141
- balance of power 82, 102, 187–89, 214, 227, 255, 325, 362, 395, 397
- basic-level category 261, 270, 272, 277
- BBC World Service 8, 21, 99,
- Benedictines 64
- billiard ball model 283–88, 298–300, 315, 330, 359
- bio-engineering, *see* engineering
- biology 2, 7, 109, 111, 114, 127–28, 132–33, 141, 148, 155–57, 188, 218, 259, 276, 293, 301, 390–91, 395, 397, *see also* sociobiology
- biopiracy 98, 117
- biosphere 113
- birth rates 6, 184, 214
- Blackfoot 7, 24–25, 117, 156, 215–16, 282, 314–25, 330–33, 402
- aanissin, free relative clauses 319–25
- áikí'pii 323
- áohtakoistsi 321
- process emphasis 323
- bodily experience, *see* experientialism
- body-parts 6, 92, 117, 253
- brain and nervous system
 - insular cortex 228
 - neurons 108, 157
 - nervous system 108, 113–14, 252, 382
 - neural responses 225

- neuro-engineers 108
- brainwashing 1, 69
- Brazil 41, 293, 297, 333
- breastfeeding 242
- brute force
 - machine 292
 - technology 290, 294–95, 333
- Buddhism 76, 148, 168–9, 185, 263, 331–2
- buildings 35–39, 87
 - tall 13, 37–39, 44
 - walls 190
- C
- calculation 6, 97, 100, 134–35, 373
- calendar cultures, *see* time
- calling, vocation 348, 362, 371, 378
- Calvinism 133, 378
- cancer, *see* disease
- canonical event 265, 282, 284–90, 295, 298–303, 312–16, 330, 359, 363
 - connection to grammar 302
- capital, circulating 353, 367
- capitalism, capitalist 4–7, 28–29, 35, 41, 44, 48, 78, 86–7, 99, 118, 133, 136, 178, 191, 214–6, 261, 282, 291–5, 332, 335–83, 396
- categorization, *see* classification
- Catholic (church) 40, 48, 68, 375
- CDA, *see* critical discourse analysis
- centralisation 40–44, 293, 295, 297
 - core-periphery 40, 41, 297
- chaos theory 390, 393
- chastity, *see* sexual restraint
- chimpanzee 132, 153, 155, 159, 300
- China 37, 41, 61–62, 75, 83, 91, 121, 139, 166, 188, 190, 347

- Chinese 43, 46, 48, 82–83, 218,
223, 247–49, 254, 324
attitudes to time 263–69
metaphors
BAD IS PRIVATE 266
EMOTION IS PLANT 265
HAPPINESS IS HIGH 268
IMPORTANT IS EAST 266
- Christianity, Christians 61, 119,
139, 145–6, 153, 174, 176–7, 184,
199, 348, 367, 371, 378, 388,
396–400
- circadian rhythms, *see* clock,
biological-clock
- civil engineering, *see* engineer-
ing
- civil law, *see* law
- classification 22–24, 30–32, 45,
55, 98, 123, 154, 155, 173, 194,
305–6, 402
of great apes 155
- clocks 6, 62–66, 69, 86–87,
102–5, 111, 340, 363–64, 393,
395
biological, circadian
rhythms 62, 325
clock time, *see* time
- Cloud of Unknowing* 400, 402
- COBUILD,
Dictionary 4, 21
Bank of English/WordsOn-
line 20
- cognitive linguistics 2, 4, 52, 315,
388, 392
- cold war 6, 383
- collocates 12, 21, 99–100
- colour 6, 46–49, 85–86, 116,
193–96, 214, 230–32, 269,
273–74, 381
coding 46
- communication 2, 8, 86, 89,
90–95, 100, 115, 117–18, 145,
211–14, 293, 295, 351, 353, 367,
386, 402
- commodity 6, 21, 28, 43, 58–59,
66, 68–71, 89, 90–95, 99–100,
117–118, 214, 279, 293, 296, 347,
352–54, 402
education as 206–7, 209–11
human life as 90–95
- common law, *see* law
- commonsense 1, 11, 25, 27–28,
49, 105, 110, 216, 232, 286–87,
330, 332
- communism 78, 145–6, 195, 266,
291, 354, *see also* politics,
left-wing
- companion schema, *see* pos-
session
- comparative advantage 59, 67,
145
- competition, competitiveness 4,
52–56, 72, 115, 129–33, 137, 141,
159, 161, 177, 187, 189, 215–16,
292, 336, 337–44, 351, 357, 361,
366, 384–85, 402
for resources 161, 340
constraints on 340
- competitive advantage 342, *see*
also competitive advantage
- computers 12, 21, 60, 133, 174–6,
304, 392–93
human minds as 103–14
neuro-computers 108
work monitored by 66–67
- Confucianism 183, 263
- congruence, *see* grammar,
congruent
- consonance, *see* grammar,
consonant
- consumerism 29, 86, 213–14,
331–32, 347, 377
- consumption 43, 58, 72, 166–69,
214, 291, 347, 356, 366, 371
over-consumption 6
- co-operation 6, 40, 143, 144, 146,
158, 161, 187–88, 338, 385, 388,
see also symbiosis
- core-periphery model, *see*
centralisation
- corporate welfare 387
- corporations 37, 38, 97, 145,
384, 387
- courtly love, *see* romantic love
- covenants, *see* promises
- craftsmanship 60
- crime 43, 46, 183, 345
- critical discourse analysis 2, 3,
6, 70, 401
- critical features 22, 23, 32
- Crohn's disease, *see* disease 50
- cultural
capital 277
software 185
transmission 146
variation 218
- culture, *passim*, but espe-
cially 60–65, 80–81, 115–116,
126–29, 143–46, 155–59,
167–69, 212–18, 243–70,
276–79, 323–24, 394–95
as basis for metaphor 243–80
- cybernetics, *see* information
theory
- cyborgs 115–16, 278
- cyclical, *see* time
- D
- dams
Kuibyshev dam 292
Three Gorges dam 297
- Darwinism 54, 109, 125–59,
174, 176, 263, 341–44, 349–51,
356–57, 379–80, 385, 390
neo-Darwinism 54, 139–40,
143, 349, 389
social-Darwinism 134, 141,
- Deep Blue 112
- defence budgets, *see* military
spending
- deforestation, *see* forestry
- dehumanisation 103
- delayed choice experiment 300
- determinism 25, 144
- Dhaka 43
- diachrony 250, 254, 256
- disease 4, 6, 43, 49–51, 87, 92,
107, 114, 119, 138–39, 163,
195–96, 214, 216, 226, 281, 296,
325–26, 370, 377, 382
and foreign countries 196
auto-immune diseases 4, 50,
51, 116
cancer as metaphor 139
Crohn's disease 50
HIV/Aids 73, 91, 135–38, 171,
341, 387
plague 141, 176, 196, 232,
361, 370
smallpox 130, 196
- disgust 202, 206, 225, 234–36
- diversification 8, 12–13, 164, 189,
197–214, 257, 271–72
with different grounds 197,
206, 256, 267
shared grounds 13, 197, 213
of metaphors for educa-
tion 206–214
of metaphors for emo-
tion 197–206

- division of labour 44, 67, 71,
87, 102, 132, 144–45, 161, 336,
339, 344, 353, 352–57, 365, 373,
378, 392
- DNA 45–46, 94, 108, 128–31, 155,
159, 326
- dualism 114, 116–7, 397–99
matter-spirit 398
resolved in incarnation 400
subject-object 332, 397
- dynamics 142, 282, 288–89, 300
fluid 298, 301
- E
- ecology, *see* environment
- economic growth 28–29
- economic, economics 4, 6, 37,
41, 43, 64, 67, 78, 86, 95–100,
102, 131–32, 144–45, 161,
166–69, 178, 212–13, 290,
294–96, 325, 335–89, 391, 393,
395–96
virtues 373–79
- eco-tourism 99
- ECS, *see* emotionally competent
stimulus
- education 6, 8, 25, 96–97, 153,
158, 194, 197, 206–14, 257, 262,
281, 346, 349, 352, 364, 389,
391, 402
diverse metaphors for 206–
214
catering 209
commodity
acquisition 207, 209,
211, 257
constructing
knowledge 207
growth 208, 257
path journey 208, 211
mechanism 207
reform 8, 206, 214,
undermined by
metaphors 209
system 59, 61
- electrical power 293
- embodiment 3, 7, 113, 248, 396–
97, *see also* experientialism
- emerging systems theory of
life 113
- emissions trading 99
- emotion 6, 7, 113, 138, 148,
197–206, 213–15, 218, 223–59,
262, 265, 276, 279, 281, 360,
381, 402
body states 228–9
diverse metaphors for 197–
206
lack of equivalent concept
across languages 206,
257, 259
orientational sources for 227
opposed to reason 230
physiological basis 240
characteristics of 205–6
definition of 257
relation to sense impres-
sion 226
triggering of 225
socially-learned 225
see also anger, disgust, pride
- emotionally competent stimu-
lus 225, 229–30, 232–36, 242,
382
- empathy hierarchy 286
- enclosures 97, 99, 355–54, 357
- endangered languages 33, 282,
294, 314
- engineering
bio-engineering 6
civil engineering 7, 288–298
genetic engineering, *see*
genetics
neuro-engineers 108
reverse engineering 126
- Enlightenment 30, 263, 290–91,
361, 364
- entrepreneurs 289–90, 374
- entropy 124, 143, 298, 300–1
- environment, environmen-
tal 4–5, 7, 28, 39, 71–2, 96,
99–100, 121–125, 142, 145–46,
169, 215, 227, 282, 286–87,
291–297, 301–9, 314, 332, 367,
380, 384–86, 389, 396
domination of 86–87, 290,
331, 385, 389
degradation of 7, 100, 169,
282, 295, 390
destruction of 99–100, 115,
123, 169, 298
- ecology 2, 4, 7, 58, 61, 98–99,
126, 142, 145–46, 152, 166,
169, 184, 282, 298, 301–2,
326, 330, 335, 363, 390
- ecosystem 95, 99, 140, 142
- marginalization of 142, 286,
396
- environmental justice 123
- equilibrium 51, 60, 124, 161, 175,
187–88, 215, 219, 300
- ergative verbs, *see* grammar
- ethnic cleansing 2, 194
- eugenics 7, 55–56, 126, 130–31,
141, 387
- event structure 52, 78, 216, 283,
315, *see also* canonical event
- evolutionary biology 132–34
- evolutionary psychology 132,
136, 148, 158–59, 345
- experientialism 16, 218, 267, 274,
277, 380, 382, 396, 400
- experiential hypothesis 7, 16,
21, 113, 215, 224, 230, 250,
276, 287, 396
- bodily experience 6, 113, 178,
215, 216, 218, 226, 230, 276,
383, 402
- F
- facial expressions 193, 225–26,
229, 235–36
- family 126, 131, 150, 158, 179, 182,
183, 194, 196, 241, 261–62, 308,
336–37, 344–349, 354, 356, 360,
369, 386–87
nation as 262, 386
nurturant parent 192, 131,
208, 262, 383–87, 400
strict father 131, 165, 192, 262,
383–87, 400
- feedback 33, 110, 113, 124, 306,
332
- female chastity, *see* sexual
restraint
- feminism 81, 116
- fighting 6, 72, 74, 78–79, 85–86,
129, 137, 140, 338, 340
- fluid dynamics, *see* dynamics
- flux, *see* process philosophy
- food 89–90, 165–168, 234–35,
341–43
fast food 60, 167
- force dynamics 78, 182–3
- forestry 291–96
deforestation 295
- freedom 179, 181–92, 338–39,
354, 359, 369, 387–88, 396
- Freedom Tower 39, 163
- fundamentalist right, *see* politics,
right wing, neo-conservatism

- G
- Gaia theory 6, 113, 123–25,
142–43, 160, 187, 305–6, 324,
333, 385–6, 394
- game theory 129, 132–34,
144–45, 345
non zero-sum game 144
- genes 6, 94, 105, 109, 117, 128–29,
131, 134, 137–146, 157–58, 161,
175, 192, 276, 344–46, 349,
379, 386
- genetics 93, 94, 146, 157–59
codes 109, 116
engineering 49, 87, 105, 117
sequences 94, 97, 117
transmission 146
variation 45
- genome 94, 109, 128, 143, 147
Human Genome Project 94,
158
- genocide 343
- global warming 123–25, 244,
306, 390
- globalisation 297
- God 37, 47, 68, 74, 116, 133, 146,
148, 154, 168, 176–77, 184, 186,
348, 355, 363, 367, 370–72, 376,
378, 385, 388, 395, 397–401
- golden age 173–74, 263
- grammar 2, 7–8, 23–25, 87, 117,
215, 276, 279, 281–84, 288, 295,
298–334, 352, 359, 395, 402
congruent 302–303, 305–15,
326, 330, 333, 359
distinction between
participants and
setting 298, 301
external observation 298,
300
matter's permanence 298–
99
distinction between things
and processes 306
nature's passivity 298
- consonant 302–14, 326
activation of experiences
307, 314
activation of tokens 307,
314
ambient structures 308
creative processes, cognate
objects 309
ergative verbs 310–12
- existential *there* 308
nominalization 313–14
reciprocal and reflexive
verbs 309
- intransitive 202, 318
latent ideology of 281
systemic-functional 302
- transitive, transitivity 281–84,
303, 305, 310, 329
- grammatical metaphor 281, 295,
302–7, 313, 332, 402
- gravitation 288–89, 359–60
- greed 146, 169, 170, 252, 295,
344, 387, *see also* avarice,
self-interest, selfishness
- Gulf Stream 125
- H
- hegemony 1, 28, 64
height 6, 35–39, 54, 86, 163, 267,
hexis 217, 277, 395
- hikikomori 111
- Hinduism 146, 173, 176, 263, 324,
396–99
- HIV/Aids, *see* disease
- homeland security 192
- homeostasis 65, 113, 124–25, 156,
205, 224, 227, 324, 386, 394
- homogeneity of time, *see* time
- homology 47, 164, 197, 202, 241,
273, *see also* analogy
- house, apartment 194, 196, 261
dom 261
- humility 335, 350, 374–75, 382
- humours 46, 119, 250–51, 254
- hybridity 48–49, 142
- hyponymy 120, 126, 129, 132,
159, 326
- I
- idealised cognitive models
(ICM) 3, 219, 222, 267, 269
- ideology, ideological, *passim but*
especially 1, 2–7, 11, 28–29,
60–61, 65, 85–86, 97–99,
114–121, 159–62, 177–78, 190,
213–18, 276, 281, 291, 300–1,
315, 325, 329–36, 343–34,
354–57, 367, 383, 386–88,
393–95, 402
degrees of latency 29–30
- idolatry 94, 118, 396
- immigrants, immigration 31,
48, 73, 152–53, 163, 192–97, 214,
326, 387
- immune system 49–51, 114, 137,
225, 326
- imperialism 37, 86, 130, 158, 188,
344, 380
- incarnation 7, 215, 336, 395–400
- indigenous societies 98, 183,
292–23, 297, 324, *see also*
Blackfoot, Chukee, Parkana,
Saami
- individualism 155, 171, 183,
344–49, 386
- Industrial Revolution 65,
289–90, 292, 295, 335, 359, 362
- industrial time, *see* time
- industrial worker 71, 296
- industrialisation 288–98, 335,
385, 393, 401
- inequality 3, 5–6, 41, 69, 86, 117,
361–62, 375, 377, 384
- information
cybernetics 114, 116
processing 103, 108, 115–18
technology 103, 111
theory 109
- inquisitorial system, *see* law
- institutional facts 27, 155, 259,
358
- institutions 6, 44, 63, 83, 139, 153,
159, 172, 348–49, 357, 395, 401
- interdependence 6, 142, 322,
342, 352, 385
- invariance hypothesis 262
- invasion 6, 49, 86–87, 195–96,
339
- invisible hand, *see* market
- iron curtain 191
- Islam 61, 73, 78, 114, 146, 183
- isostatic rebound 124–25
- J
- Jesus, historicity of 398, 401
- Jews 146, 152, 195–96
- Judaeo-Protestantism 133, 168,
388
- Judaism 61, 146, 400
- K
- kalpa 173
- kidnapping 93, 117
- L
- landscape 6, 120–25, 306, 323,
324
- language, *see separate* Index of

- Languages
and apes 155
latent ideology 27
have and *be* languages 329
- law (legal)
civil 78, 345
common 78
inquisitorial system 78–79
litigation 79, 81
trial by combat 79
- laws of physics
of motion 288–89, 359–60
of universal gravitation 288
second law of thermodynamics 124, 143, 301
- lexicography 12–17, 21, 270
- lexicon 5, 6, 21, 35, 179, 215
- liberals 30, 131, 188, 383, 387
- linear time, *see* time
- linguistic imperialism 256
- linguistic relativity, *see* Whorfian hypothesis
- literalisation 13, 58, 347, 393
- litigation, *see* law
- live metaphors, *see* metaphor, original
- location schema, *see* possession
- M
- MacDonald's 167
- machines 6, 66, 89, 92, 100–18, 126, 146, 259, 290–91, 297, 359, 361–65, 389, 393, 402
- machine metaphor 102, 340, 361–65
- Malthus
influence on Darwin 341
- mapping 16, 22–23, 217–18, 227–28, 262, 267, 272, 287, 304
- market 6, 86, 90–99, 102, 118, 172, 213, 277, 290, 306, 340, 347, 354–57, 364, 369, 384
- invisible hand of 102, 118, 290, 384
- mechanisms 95
- distortions in 48, 340
- value 97
- Marxism 1, 4, 60, 139, 161, 264, 95, 118, 132, 290, 330
- mastery of nature, *see* environment, domination of
- mathematics 15, 63, 131, 134–35, 144, 156–58, 173–74, 211, 289, 336, 360, 361–65
- reductionism of 388–93
- Mayan civilisation 39
- mechanics 101–2, 288–95, 326
- mediation 81, 113, 264, 348
- medicine 4, 6, 49–51, 115, 251–54
- meme 137, 139, 159, 325
- metabolism 62, 141–42, 325
- Metalude 4, 7–8, 20–21, 30, 100, 150, 164–65, 194, 208, 218, 220–2, 224, 227, 235, 238, 243, 259, 261, 270, 272–76, 287–88, 380, 383
- metaphor 12
articulatory metaphors in French 277
conventional 4, 12, 21, 22, 25, 27–9, 35, 138, 269, 281, 305
dependent on the object of observation 30
distinction from literal as social convention 305
impositive 120, 132, 140, 144, 176, 213, 393
model-theoretic 16, 33, 224, 332, 393
logic 58, 117, 196
slippage 61, 207, 375
original 21–22, 28–29, 142, 332
resisting metaphors 210
see also grammatical metaphor
- metaphor themes, *see separate index*
criteria for 270
experiential motivation 250, 252, 274–75, 335, *see also* experientialism
universality 3, 6, 7, 16, 129, 137, 144, 155–56, 215–16, 217–80, 283, 294, 297, 315, 322, 352, 357, 359–61, 377, 388, 400, 402
countered by social/personal history 356
generality of universal metaphor themes 270, 277
- metonymy 7, 15, 16, 46, 61–63, 78–79, 86, 91, 93, 163–64, 178–79, 195–96, 200–1, 215, 217–24, 225–79, 313, 323–26, 366–72, 381, 384, 388, 393, 396, 402
- metonymic universalist hypothesis 265, *see also* metaphor, experiential basis, experientialism
- Middle Ages 38, 44, 46, 62–68, 79, 148, 174, 177, 196, 252, 289, 298, 331, 336–37, 354, 361–62, 367, 377–78, 396, 400
- might is right 78, 339
- militarism, militarisation 80–81, 115, 118, 165, 293, 375, 385, 391
- military budgets, expenditure, *see* military spending
- military metaphor 49–50, 74, 80, 326
in Darwin 342
- military spending 6, 74–75, 115, 339, 387
- monarchy 339, 357
- money 17–21, 67–71, 91–99, 212–3, 335–36, 353–54, 365–74, 378, 387, 388, 393
- Montaignais 316
- multivalency 12–13, 35, 61, 164–76, 177, 192–93, 196, 207, 214, 257, 270–72, 339, 343, 362, 366, 375
- Muslim, *see* Islam
- N
- Napi 324
- nature, *see* environment
- natural selection 110, 127, 132, 140–43, 149, 341–44, 356–57, 379
- natural time, *see* time
- naturalisation 1, 27, 161
- naturalistic fallacy 126, 129, 140, 143, 145–47, 349
distinction between agent and affected 306
ergative verbs 310
- Nazis 195
- neo-Darwinians, *see* Darwinism
- neo-Platonism, *see* Platonism
- nervous system, *see* brain and nervous system
- neural responses, *see* brain and nervous system
- New England 98, 292, 296
- new right, *see* neo-conservatism
- New Testament 146
- Niitsi'powahsin *see* Blackfoot
- nine-eleven 9/11, 2, 39, 192

- nominalisation 104, 272, 284,
304–5, 308, 313–14, 319–20
in Blackfoot? 319
in modern scientific texts 314
kinds of 313
- non-adversarial, *see* adversarial
system
- North Atlantic 56, 293
- North Slope of Alaska 297
- nouns 7, 73, 100, 122, 197, 265,
272, 281–84, 299, 304–5, 309
autonomy of 284, 305
Blackfoot 313–22
count 199, 265
mass 199, 265
properties of referents 199
- O
- obesity 6, 167–68, 326, 401
- objectivism 16, 33, 400
and subjectivism 316
- objectivist science 256
- obsessive-compulsive disorders 48
- Old Testament 146, 168, 367, 371
- Olympic Games 54, 55, 56
- one hundred metres 54, 55
- open systems 301, 394
- organ donation 100
- ownership, *see* property
- P
- paradox 2, 28, 184–85, 261, 339
- parasites 137, 142, 150
- Parkana 333
- parliament 79–80
- participant-process distinction
and
ambient structures 308
existential there 308
nominalization 313
creative processes and cog-
nate objects 309
- participant-setting distinction
and
activation of circumstances 309, 314
- patents 94, 98
- perception 25, 30, 27
- performatives 26–27
- photosynthesis 141
- physics 7, 24, 52, 158, 176, 188,
282, 288, 293, 298–302, 305–16,
331, 333, 359, 362, 363, 390,
391, 393
- physiological responses 7, 218,
238, 251
- plague, *see* disease
- Platonism 330, 362, 398
neo-Platonism 60
- pleasure and morality 345, 350,
382
- politics
left-wing, socialist 7, 293, 348,
355, 365, 386–88
right-wing, conservative 5–7,
115, 131, 134, 192, 262, 336,
383–87
neo-conservative 145, 383
- pollution 47, 96, 99–100, 314
- Poor Laws 369
- pornography 186–87,
- positionality 289, 297, *see also*
Leibniz
- possession 7, 68, 71, 93, 100, 216,
318, 326–33, 336, 338, 349–59,
368–69, 375, 402
action schema 328–29
companion schema 328–29
location schema 328–29
- poverty 4, 26, 42, 64, 145, 168,
326, 361, 367–70, 377–78, 382,
384
sanctity of 367
- power over nature, *see* environ-
ment, domination of
- pride 152, 252, 259, 291, 337, 350,
371, 374–75, 382
Hume's attitude 375
- primary metaphors 7, 218,
270–76
Taylor's arguments
against 273
- primary scenes 270–72, 382
- primates 127, 133, 153, 157
- prisoners' dilemma 134, 345
- private property 98, 351, 170, 295
- privatisation 2, 6, 89, 97–99, 115,
117, 145, 352, 356
- process philosophies 113, 263,
282, 330–32
flux 23, 111, 170, 176, 263,
315–16, 320–25
- process types in grammar 302
- processes 7, 216, 281–84, 287,
299, 330–31
bodily in emotions 227–28,
257–58, 402
- grammar and representation
of 302–18
- progress 148, 174–75, 263, 293,
300, 351, 366, 379
- progressivism 379, 385
in Darwin 343
in education 208–9
- promises, covenants 115, 199,
294, 338, 345, 358–59, 363, 372
preventing selfishness 352
- property 93, 94, 144–48, 159,
212–13, 295–6, 328–31, 336,
338, 344, 348–349, 351–58,
368–69, 372, 378, 382, 385–86
extension of scope with civili-
sation 354
- Godwin's denunciation 355
- justice 352
- ownership 30, 93, 98, 100, 153,
295, 329, 354
ownership of land 98
preventing war 351
rights 98, 145, 352–55, 357
- prophets of Baal 146, 387
- Protestant, Protestantism 7, 68,
133, 168, 214, 216, 336, 347, 371,
377, 384, 388,
- protist 141
- proximity 6, 15, 178–81, 187,
192–3, 196, 98, 222, 240–43,
271, 360, 382
- proximity zones 178, 242
- purchasing power 166
- Puritans 354
- pyramidal time 69
- Q
- quality 4, 6, 35, 53, 59–63,
94–100, 118, 207, 211, 288–89,
296–7, 359, 365–73, 384
as quantity 115, 118, 166, 216
as wealth 365–373
of life 89, 96, 295–96, 388, 395
- quantification, quantitative 62–
64, 95, 118, 215, 289, 295–97,
384, 389
- quantum theory 300, 316
- quorum sensing 50
- R
- race (racial group) 4, 6, 45–49,
55, 66, 85–6, 102, 109, 130,
139, 157–58, 192–95, 269, 380,

- 387, 389
 racial colour-coding 45–49,
 194, 251
 racism 47, 48, 130–31, 154,
 192–95, 370, 380
 race (racing) 6, 53–61, 66, 72,
 102, 130, 187, 189, 216, 291,
 337, 343
Ragged-Trousered Philanthro-
pists 59
Ramayana 397
 rape 5, 47, 83–85, 121, 123, 131,
 140
 Reaganism 131
 reciprocal altruism 132–35,
 143, 358
 reductionism 7, 103, 108, 114,
 117, 126, 134, 139, 144–45, 148,
 157–58, 213, 215, 218, 276, 289,
 293, 336, 355, 367, 388–95, 402
 regimes of truth 26, 80, 139,
 300, 402
 relativism 16, 390, 400
 relativity 223, 273, 299, 316
 linguistic, *see* Whorfian
 hypothesis
 religion 31, 32, 38, 48, 93, 99,
 110, 127, 145–46, 156–58, 168,
 174–75, 184, 225, 259–60, 331,
 347, 350, 367, 371–72, 378,
 391, 395–400, *see also* Bud-
 dhism, Calvinism, Catholic,
 Confucianism, Hinduism,
 Islam, Judaeo-Protestantism,
 Judaism, Marxism, Taoism
 resource depletion, *see* environ-
 ment, degradation
 Restoration 362
 rivers
 Amazon 293, 295
 Columbia 196, 291–92
 Volga 291, 292, 296
 Yangtze 297
 RNA 108–9
 robots 108, 111–12
 romantic love 199
 Royal Society 289
- S
 Saami 333
 salience 270
 saltation 141
 Santiago theory of cogni-
 tion 103, 113
- Sapir-Whorf hypothesis, *see*
 Whorfian hypothesis
 schedules 62–66, 71, 111
 schema 12, 15–17, 20, 49, 52, 76,
 78, 90, 166, 178–79, 183, 187,
 190–91, 196–7, 210–11, 216,
 219, 245–46, 254, 267, 287, 270,
 327–29, 351–52, 326–7, 329–30,
 333, 337, 383, 393
 seasonal affective disorder,
 SAD 227, 232–33
 seasonality 291, 295–96
 segregated schooling 48
 self-interest 132, 144, 146–47,
 337, 344–349, 352, 359, 384–86
 selfish, selfishness 128–40,
 143–48, 151, 158, 266, 336, 338,
 344–49, 352, 355, 357–58, 378,
 386, 389
 selfish gene theory 131, 345–6
 self-love 338, 347–48, 356, 365
 selflessness, altruism 134, 146,
 336, 345
 self-sacrifice 143, 252, 345
 self-organisation 114
 self-regulation 114, 124
 self-restraint 170, 341, 355
 semantics of grammar 100, 286
 sense impressions 381–83
 Sermon on the Mount 168
 sex 4–6, 58, 83–86, 89–90, 94,
 117, 127, 176, 194, 227, 346, 349,
 372–73
 in rats 239–40
 sexual
 abstinence 341
 morality, restraint 341, 346,
 349, 370, 377
 selection 349–50,
 similarity 6, 11, 16, 22, 108, 120,
 192–93, 236, 273, 345
 smallpox, *see* disease
 social organisation 4, 100,
 260–61
 social reconstructionism 157
 sociobiology 54, 116, 128–40,
 144, 148, 158, 218, 335, 344, 350,
 386–87
 sovereignty 62, 98, 261, 363
 Soviet Union 175, 188, 195, 261
 see also USSR
 space 6, 15, 21, 31–32, 40–1, 44,
 53, 58, 60–67, 71, 163, 167,
 178–83, 191–96, 226–27, 242,
 261, 263–4, 283, 289–90, 291,
 297–99, 313, 331, 359
 speech acts 26,
 speed 6, 52–60, 61, 66, 71, 72,
 86–87, 102, 292
 stage model 284, 316, *see also*
 canonical event
 Standard Average Europe-
 an 281–83, 295, 302, 315, 318,
 320, 330, 332
 standardisation 295–96
 Statue of Liberty 181
 steam engine 103
 stem cells 92
 strict father, *see* family
 struggle for existence, *see* sur-
 vival of the fittest
 subject positions 185, 386, 395
 subjectivism 16, 33, 316, 400
 subject-object duality, *see*
 dualism
 subversion 28
 sulphur cycle 125
 superstring theory 299, 316
 supply and demand 102, 340,
 367
 for men 354
 survival of the fittest 131, 149,
 339, 341, 379, 387
 not survival of the best 343
 struggle for existence 126,
 130–32, 144, 161, 341–42,
 349, 380
 symbiosis 6, 50, 51, 85, 126,
 139–44, 159, 160, 187, 262, 337,
 353, 385
 endosymbiosis 141–42
 exosymbiosis 141–42
 symbolic capital 27, 33, 212
 symbolisation 128
 synonymy 120, 122
 systemic-functional grammar,
 see grammar
- T
 Taoism 146, 176, 263
 Taylorism 67, 115, 296, 393
 terrorism 75, 78, 114
 Thatcherism 131, 388
 The Other 117, 385
 theology 7, 78, 215, 259, 336,
 395, *see also* religion, God
 (name index)

thermodynamics 298, 301, 311
 time 52–80, 184–87, 258–60,
 263–5, 268, 277–79, 294–96,
 299–300, 308, 313, 322–25, 331,
 336, 351, 364–66, 368, 372–75,
 377, 378–79, 385
 calendar 62
 clock 62, 66, 69, 87, 395, *see*
 also clocks
 control of 295
 cyclical 60–61, 87, 173–74,
 263–64, 323–25, 387
 homogeneity of 62–65, 296,
 385
 industrial 64–67, 395
 linear 6, 60–65, 71, 87, 148,
 263, 264, 324, 394
 natural 62, 70, 87
 simultaneity in Blackfoot 324
 tyranny of 71
 see also seasonality
 tooth fairy 93
 trade 6, 23, 43, 59, 96, 97, 118,
 132, 144–45, 147, 148, 159, 180,
 191, 212, 290, 296, 314, 336,
 340, 344, 352–57, 366, 376, 377
 transitive clause, transitivity, *see*

grammar
 trial by combat, *see* law
 tribalism 146
 Truman doctrine 191, 195
 U
 urbanisation 40–45, 58, 86–87,
 294, 402
 US constitution 132–33, 345
 USSR 78, 175, 188, 191, 195, 261,
 291, 293, 296
 utilitarianism 100, 290–91, 357

V
 verbs 7, 12, 121, 123, 193, 206,
 272, 281–84, 299, 302, 304–5,
 308–26, 327, 329
 autonomy in Blackfoot 320
 importance in Blackfoot 317
 verbalization 284
 vice 119, 132, 161, 268, 350, 355,
 361, 369–70, 374–75, 377, 382
 see also anger, greed, pride
 violence 5, 6, 21, 72, 83, 84–87,
 111, 129–30, 133, 137, 158, 161,
 216, 293, 336–44, 352, 387
 wars in 17th century Eu-
 rope 338

W
 water management 98
 wealth 4, 6, 41, 64, 67, 89, 93,
 95–100, 133, 150, 194, 297, 325,
 338, 339–343, 349, 352–56,
 366, 367–73, 375–79, 382–84,
 388, 402
 correlation with life satisfac-
 tion 166–69
 opposed to Christian-
 ity 395–96
 weather 6, 120, 121–25, 203–5,
 214, 233, 262, 296, 308
 Whorfian hypothesis 23–24,
 256, 315, 320, 395
 women's liberation 186
 workers 6, 29, 43, 64–69, 86,
 102, 169, 278, 296, 353, 361,
 364, 369, 374, 376–77
 World Land Speed Record 56
 World Trade Center 39, 163
 Worldwatch Institute 100

Y
 yugas 173–74, 397

Name and author index

- A
- Abelson, R. 219
- Abraham, 168, 185, 371, 386
- Acheson, D. 195
- Ahrens, K. 22
- Alberts, J. 241
- Ananthaswamy, A. 108
- Anaxagoras, 330
- Anderson, C. 244
- Anderson, L. 99
- Anderson, P. 391
- Argyle, M. 155, 178, 181, 242, 259
- Aristotle, 176, 289, 331
- Augustine, St. 145
- Austin, J. 26
- B
- Baier, A. 336, 350, 360, 363, 372, 374, 381, 383
- Balkin, J. 1, 3, 4, 47, 80, 139, 153, 164, 185, 197, 214, 400, 401
- Barcelona, A. 3, 20, 217, 222, 270, 273, 279
- Bassuk, D.E. 173-74, 397, 398
- Bateson, G. 113, 281, 333
- Baxter, R. 371
- Beck, U. 175
- Bekar, C. 290
- Belitz, K. 390
- Benveniste, E. 31-32, 194
- Berggren, D. 304, 392
- Black, M. 74, 131, 304
- Blair, A. 15, 146
- Blake, W. 60
- Blokland, M. 98
- Blumberg, M. 239-41, 244
- Bodde, D. 263
- Boderman, A. 242
- Boehm, C. 132
- Boesky, I. 170
- Bohm, D. 24, 299-302, 315-16, 320
- Bohr, N. 300
- Bolinger, D. 308
- Bourdieu, P. 26-28, 30-33, 41, 134, 139, 194, 211-13, 217, 277, 395
- Bowler, P. 380
- Boyd, R. 139-40
- Braadbaart, O. 98
- Brahma, 173
- Brod, C. 111
- Brodie, R. 137
- Brooks, R. 108
- Brown, G. 129, 134, 137-40, 149
- Brown, L. 100
- Brugman, C. 262
- Buchsbaum, M. 175
- Buchsbaum, R. 175
- Buddha, 76, 168, 185, 331
- Bunyan, J. 372
- Burgoon, J. 232
- Bury, J. 174
- Bush, G. 15, 36, 54, 73, 75, 78, 80, 96, 146, 202, 341
- Bush, V. 174
- C
- Cable, D. 36
- Calvin, J. 378
- Cameron, L. 24, 394, 402
- Campbell, A. 92
- Campbell, D. 56
- Campbell, M. 56
- Capra, F. 51, 114, 116, 137
- Carter, R. 3
- Catherine the Great, 295
- Causley, C. 22
- Chan, Kwok-bun, 48-49
- Chang, Jung, 146
- Chaplin, C. 66
- Charteris-Black, J. 2, 3, 77
- Chase-Dunn, C. 131
- Childs, D. 164
- Chilton, P. 3, 14, 16, 28, 30, 63, 78, 129, 178, 187-91, 194-95, 210-11, 260-61, 363
- Chomsky, N. 276, 394
- Christ, 145-46, 176-77, 348, 388, 396-400 *see also* Jesus
- Chun, L. 223
- Cicero, 362
- Clarke, D. 155, 259
- Coghlan, A. 128
- Cohen, P. 128
- Condercet, M. J. A. 376
- Cooke, A. 51
- Cooper, M. 109
- Cornelius, 146
- Coutinho, A. 114
- Crick, F. 157, 388
- Crisp, P. 8, 60-61, 263
- Critser, G. 167-68
- Cromwell, O. 354
- Cronon, W. 43
- Crowley, R. 355
- Crystal, D. 282
- D
- Damasio, A. 6, 112-14, 133, 147-8, 156, 161, 205, 218, 223-30, 232, 236, 238, 244, 251, 257, 276, 380-82, 396-97, 399
- Darwin, C. 3, 7, 8, 126-28, 130, 132, 140, 149, 156, 161, 174, 215-16, 335, 339-344, 349-50, 353, 356-57, 365, 379-80, 385, 392
- Davidse, K. 311
- Davis, J. 108
- Dawkins, R. 131, 132, 137-39, 144, 159, 325, 344-46, 349
- De Botton, A. 118, 335, 347
- De Carlo, N. 155, 259
- De Chardin, T. 176
- De Grazia, S. 65, 102
- De Waal, F. 132
- Dearden, R. 209
- Decsy, G. 241
- Degler, C. 157
- Deignan, A. 4, 21
- Democritus, 330
- Derewianka, B. 304
- Descartes, R. 107, 111, 174, 289-90, 331, 361, 389
- Diana, Lady, 164

- Dickens, C. 81
 Dicks, L. 131
 Dionysius the Pseudo-Areopagite, 400
 Dirven, R. 14
 Donne, J. 163, 184
 Du Marais, J. 330
 Dunbar, R. 132
 Dunne, D. 51
 Dyson, F. 176
- E
 Eagleton, T. 1
 Edelman, M. 30
 Eggins, S. 313, 314
 Ekman, P. 152, 199, 200, 205, 229, 234–35, 238, 258
 Elijah, 146, 387
 Elliot, D. 50
 Ellwood, W. 97–98
 Empedocles, 330
 Engels, F. 175, 330
- F
 Faden, R. 92
 Fairbank, J.K. 263
 Fairclough, N. 3, 23, 29–30, 80, 139–40, 185, 297, 303
 Fang, S. 22
 Ferry, G. 94
 Feyerabend, P. 390–92, 400
 Fielding-Hall, H. 153
 Fichte, J.G. 331
 Fisher, J. 242
 Foucault, M. 1, 26, 69, 139, 185, 278, 300
 Fowler, R. 3, 139
 Bacon, F. 111, 133, 174, 290
 Franklin, B. 68, 336, 372–73
 Frantz, D. 317–23
 Frechette, K. 390
 Freed, D. 242
 Freud, S. 126, 178, 183, 199, 217
 Friedman, M. 132
 Fromm, E. 11, 93, 157, 185–86, 212–13, 299, 330–31
 Fuller, L. 81
- G
 Gaarder, J. 126, 389
 Galileo, 102, 389
 Geeraerts, D. 250–56
 Geertz, C. 30, 158
 Gibbs, R. 3, 30, 246
 Gills, B. 131
- Givon, T. 327
 Gleick, J. 53, 65, 68, 71–72, 102
 Goatly, A. 13, 16, 28, 70, 100, 119, 123, 206, 218, 341, 392
 God, 37, 47, 68, 74, 116, 133, 146, 148, 154, 168, 176–77, 184, 186, 348, 355, 363, 367, 370–72, 376, 378, 385, 388, 395, 397–401 *see also* Christ, Jesus
 Godrej, D. 94, 99
 Godwin, W. 348, 355, 360, 365
 Goffman, I. 155, 259
 Golberg do Couto e Silva, 293
 Golding, W. 22, 44
 Gong, S. 22
 Good Samaritan, 146
 Goodall, J. 132
 Goodman, N. 17
 Gorbachev, M. 261
 Gould, S.J. 72, 132
 Govier, T. 81
 Grady, J. 7, 218, 222, 235, 254, 269–79, 287, 382, 392, 393
 Graham-Rowe, D. 108
 Gramsci, A. 1
 Grant, M. 130
 Gribbin, J. 61
 Grondelaers, S. 250–56
 Gurevich, A. 67
- H
 Haakonssen, K. 354, 360, 364, 369
 Habgood, J. 93–94, 158, 389
 Hall, E. 179
 Hall, S. 26
 Halliday, M. 302–4, 308–11, 314, 394
 Haraway, D. 103, 114–18, 125, 128, 278
 Harré, R. 155, 259
 Harris, J. 92
 Hartley, L.P. 11
 Harvey, D. 43–44, 61, 67, 87, 89, 95, 97–99, 114, 118, 123, 133, 159, 161, 278, 289–90, 299, 331, 356
 Hayduk, L. 178
 Hegel, G. 155, 331, 396–400
 Heidegger, M. 96, 97, 331
 Heine, B. 326–29
 Heisenberg, W. 300
 Henderson, Sa'ke', 316
 Heraclitus, 330–31
- Herbert, G. 376
 Herbert, R. 153
 Herman, C. 36
 Heslin, R. 242
 Hinde, R. 137
 Hippocrates, 49
 Hiraga, M. 3, 90
 Hitler, A. 48, 55–56, 130
 Hobbes, T. 3, 7, 14, 28, 102, 107, 132, 136, 145, 190, 215–16, 331, 335–385
 Hodge, R. 284, 407
 Horgan, J. 8, 110–13, 124, 143, 156, 158, 174–76, 299–300, 390
 Hsu, Y. 22
 Hume, D. 3, 7, 126, 132, 215, 216, 290, 335–388
 Hutton, C. 315
 Huxley, A. 111, 390
 Huxley, T. 343
 Hwang, D.H. 86
- I
 Isačenko, A. 329
- J
 Jackendoff, R. 25
 Jacob, M. 289–90
 Jacobson, N. 19, 88, 332
 Jakel, O. 20
 Jakobson, R. 222
 Jephtha, 386
 Jesus, 146, 185, 397–99 *see also* Christ
 Johnson, M. 3, 16, 20–21, 60, 80–81, 107, 248, 276, 283, 383
 Jones, N. 50
 Jones, P.E. 1, 3, 161
 Josephson, P. 7, 196, 282, 290–97, 333, 353, 363
 Judge, T. 36
- K
 Kant, E. 331
 Kasparov, G. 112
 Kaufmann, S. 143
 Keeble, F. 141
 Kennedy, J. 164
 Kingsley, C. 152
 Kinnucan, M. 242
 Koch, R. 195

- Kövecses, Z. 3, 7-8, 17, 35, 49,
52-53, 86, 93, 102, 123, 150,
178-83, 190, 198-99, 201, 205,
216, 218, 220-25, 230, 238,
242, 246-50, 253-56, 259, 273,
283, 315, 319, 335-56, 372, 388,
393-94
- Kress, G. 3, 139, 284
- Kuan Tzu, 263
- Kuhn, T. 156, 161, 176
- Kundera, M. 111
- Küng, H. 176, 330-31, 396-400
- L
- La Mettrie, J.O. 103
- Laclau, E. 23
- Lakoff, G. 3, 7, 15-16, 20-21, 24,
29-30, 33, 39, 60, 81, 85, 89, 93,
97, 107, 113, 131, 134, 136, 148,
158, 165, 168, 178, 192, 195, 208,
248, 260, 262, 276, 283-84,
287, 336, 380-88, 392-93,
399-400
- Laland, K. 129, 134, 137-40, 149
- Lamarck, J-B. 148, 385
- Landes, D. 62, 64, 68
- Langacker, R. 199, 265, 283-85,
302, 308, 312, 317, 320, 392
- Lauer, R. 62, 263
- Lee, R. 22
- Leech, G. 148, 394
- Leibniz, G. 174, 289, 297, 331
- Lemke, J. 3
- Lenin, V. 145, 295
- Lessing, G. 331
- Leroy, Little Bear, 318, 321
- Leucippus, 330
- Libeskind, D. 163
- Ling, K. 232
- Linnaeus, C. 46-47, 64, 154,
173, 400
- Lipse, R. 290
- Liu, H. 22
- Locke, J. 13, 30, 290, 389
- Lorenz, K. 129
- Lovejoy, A. 148
- Lovelock, J. 123-25, 142, 301
- Luther, M. 259, 378
- Lutz, C. 249
- Lynch, A. 137
- M
- Macbeth, 13
- MacCormac, E. 392
- Mack, D. 120
- MacNiece, L. 89
- MacRobbie, A. 199
- Malthus, T. 3, 7, 8, 132, 215-16,
335-377, 382
- Malynes, G. 364
- Margulis, L. 124
- Marks, J. 45, 46, 48, 129-30, 132,
152-59
- Marriott, E. 186
- Martel, I. 26, 133
- Martin E. 107, 114
- Martin, J., 304, 313
- Marx, K. 95, 118, 132, 290, 330
- Matsuki, K. 248-49
- Mattick, J. 108
- Maturana, H. 113
- May, M. 52, 56
- Mayr, E. 390
- McGinnis, J. 132-133
- Mehan, H. 195
- Mehrabian, A. 242
- Mey, J. 30
- Meyer, M. 3
- Midgeley, M. 130
- Milton, J. 12
- Minsky, M. 110
- Mithen, S. 156-57, 159
- Mo, T. 264
- Montesquieu, C. 244
- Moore, G. 129
- Morgenthau, H. 102, 129, 187-88
- Morris, D. 120, 178
- Moses, 185
- Mossner, E. 359
- Mother Teresa, 164
- Mouffe, C. 23
- Muir, E. 154
- Mulroney, B. 36
- Musolff, A. 3
- Murphy, P. 79
- N
- Napi, 324
- Needham, J. 263
- Neufeld, P. 46
- Newton, I. 3, 7, 52, 174, 176, 189,
282, 288-90, 295-302, 311,
325-26, 331, 333, 336, 359-64,
380, 388
- Novak, R. 47
- Noveck, I. 22
- Nyrene, J. 83
- O
- O'Brien, J. 246
- O'Halloran, K. 1, 112, 284
- Olmert, E. 146
- Oreskes, N. 390
- Orr, R. 329
- Owen, Michael 164
- Owen, R. 376
- Owens, J. 55
- P
- Pagan-Westphal, S. 94
- Palmer, C. 131
- Paprotte, W. 14
- Parmenides, 330
- Pasteur, L. 141, 195
- Patterson, M. 242
- Paul, St. 362
- Peat, D. 24, 82, 183, 315-17,
323-26, 390
- Peirce, C. 331
- Penrose, R. 112
- Peter, St. 146
- Peters, J. 167
- Peterson, D. 129
- Petty, W. 361-2
- Phillips, H. 108
- Pinker, 46, 48, 110, 130-34, 137,
140, 144, 158, 161, 195, 276,
388, 394
- Pires de Oliveira, R. 388
- Plato, 330, 362
- Plotinus, 331
- Plutchik, R. 224
- Pope, M. 119
- Popper, K. 148, 394
- Potter, H. 8, 69-70
- Potter, S. 108
- Prigogine, I. 111, 288, 298, 300,
311, 390
- Proctor, L. 98
- Pylyshyn, Z. 161
- Pythagoras, 389
- Q
- Qadir, K. 50
- Quayle, D. 168
- Quinn, N. 178
- Quirk, R. 261
- R
- Radden, G. 3, 200, 218, 220-23,
265
- Randerson, J. 48
- Reddy, M. 265

- Reich, R. 387
 Richerson, P. 139–40
 Rickett, W. 263
 Ridley, M. 59, 67, 126–27, 132, 140, 144–48, 159, 170, 191, 345, 353
 Rifkin, J. 39, 59, 60–71, 102, 109–11, 133, 184–85, 233, 299, 325, 332
 Rogers, J. 149, 341–43, 380
 Romanes, G. 149
 Rosenfield, H. 242
 Rousseau, J.-J. 145
 Ruggie, J. 98
 Ryan, F. 51, 130, 131, 140–46, 159, 228, 301, 318, 321–25
 Ryan Heavy Head, 318, 321
 Rytting, M. 242
- S
- Saine, T. 232
 Sakai, Junko 184
 Sample, I. 108
 Samuel, E. 57
 Santa Ana, O. 152–53, 195–96
 Sapir, E. 156, 256
 Schachter, S. 224
 Schelling, F. 331
 Schumacher, E. 24, 35, 43, 58, 87, 95, 100–03, 153, 168–70, 175, 211, 392
 Schwarz, K. 98
 Searle, J. 26–27, 155, 159, 259, 358
 Seligman, M. 166
 Shakespeare, T. 94
 Shakespeare, W. 13, 244, 258, 373
 Shank, R., 219
 Sherburne, D. 331
 Smith, A. 3, 7, 67, 93, 102, 132, 190, 215–16, 241, 290, 335–87
 Smith, S. 147
 Solla, W. 130
 Sonea, S. 142
 Sontag, S. 49, 138–39, 163, 196
 Sorell, T. 359, 380–81
 Spence, T. 376
 Spencer, H. 127, 129–30, 149, 339, 341–42, 379
 Spengler, O. 175
 Spinoza, B. 133, 224
 Stalin, J. 191, 293
 Stanislaw, J. 131
 Stearns, P. 251
 Steen, G. 3
 Stengers, I. 288–300, 311
 Stent, G. 174
 Stewart, L. 290
 Stockwell, P. 3
 Sulston, J. 94
 Summers, R. 50
 Sussman, G.J. 110
 Sutherland, W. 282
 Sweetser, E. 3
- T
- Tai Tol Fatt, 168
 Talmy, L. 182–83, 199, 288
 Tata, P. 98
 Tawney, R. 7, 336–38, 348, 354–55, 36–62, 369, 371, 377, 379, 388–89, 395–96
 Taylor, J. 219, 254, 273
 Teng, S.-Y. 263
 Tennyson, A. 177
 Thatcher, M. 95, 131
 Thompson, J. 1, 25, 134, 212–13, 277
 Thornhill, R. 131
 Thorpe, W. 109
 Tillyard, E. 148
 Toolan, M. 3
 Tressell, R. 59
 Trew, T. 3
 Trivers, R. 134–36, 143, 358
 Truman, H. 191, 195
 Turner, M. 3, 20, 148
- U
- Ungerer, F. 238
 Urban, J. 43, 51
- V
- Van Dijk, T. 1, 3, 139
 Varela, F. 113–14
 Vendler, Z. 313
 Vishnu, 397–98
- W
- Warshaw, R. 84–85
 Watts, G. 50
 Watts, J. 91
 Weber, M. 7, 65, 336, 348, 371–72, 378
 Weinstock, J. 50–51
 Wesley, J. 371, 398
 Westfall, R. 289, 360
 Wheeler, J. 300
 Whitehead, A. 103, 299, 331–32
 Whittington, Dick, 44
 Whorf, B. 23–24, 256, 315, 320
 Wierzbicka, A. 201, 205–06, 223, 235–36, 250, 254–59, 276
 Wignell, P. 313
 Wilde, O. 373
 Wilkinson, P. 21
 Williams, G. 140
 Williams, P. 50
 Williams, T. 119
 Willis, F. 242
 Wilson, C. 93
 Wilson, E. 129
 Winch, D. 365
 Wise, S. 153
 Wodak, R. 3
 Woolf, H. Lord 79
 Wordsworth, W. 123, 205, 307, 309, 312
 Wrangham, R. 129
 Wright, L. 66
- Y
- Yen Fu, 263
 Yergin, D. 131
 Young, P. 224
 Yu, Ning 60, 267–69
- Z
- Zall, I. 167

Index of languages

- A**
Algonquin 215, 282, 314-16
- B**
Blackfoot 7, 24-25, 117, 156,
215-16, 282, 314-25, 330,
332-33, 402
Bulgarian 329
- C**
Chinese 247, 255, 265-68, 328
Chuukee 81-82, 333
- F**
French 277-78, 328
- G**
German 259, 327
- H**
Hawaiian Creole 327
Hungarian 242, 247
- I**
Ifaluk 249, 258, 276
Ilongot 250, 276
- J**
Japanese 26, 48, 74, 98, 101, 111,
196, 218, 247-49, 259, 369
- L**
Lango 328
- M**
Mbula 254
Middle English 164
Middle High German 327
Modern English 173
Modern Irish 327
- N**
Niitsi'powahsin, *see* Blackfoot
- O**
Old English 52
- P**
Polish 258-59
- R**
Russian 258, 327, 329
- S**
Saami 333
Samoa 257, 258
Slave 328
Slavonian 329
Standard Average Europe-
an 281-83, 295, 302, 315, 318,
320, 330, 332
- T**
Thai 25
Turkish 328
- V**
Venda 328
- Z**
Zulu 249