

abortion, 43	commodity chain analysis, 89
abstract thought	concealment of violence against farmed animals,
capacity for, 31–2	87–8
acknowledgment	critical animal studies approaches, 77
ritual recognition, 73–5	definition, 80–2
theories of recognition, 76	denial of the animal in humans, 87-8
actor–network theory	drugs used in farmed animals, 84
and the animal-industrial complex, 89-90	expression of speciesist norms, 88-9
application in <i>Ectatomma</i> ants, 168–9	future research directions, 89–90
Adorno, Theodor, 83	health risks of high meat/dairy consumption, 84
affected ignorance	intersectionality concept, 79-80
animal experimentation, 229	intersectionality of, 82
ethical failure, 229–30	linking to pre-existing research, 90
African gray parrot	meanings of complex, 85, 87–9
complex communication, 33	networks at play, 88–9
demands of the Nonhuman Rights Project, 244	overlap with the entertainment-industrial
agency	complex, 83
and subjectivity, 6	overlap with the military-industrial complex, 82
definition, 5–6	overlap with the pharmaceutical-industrial
Alliance for Zero Extinction (AZE) sites, 201	complex, 83–4
Allport, Gordon, 56–7, 62	overlap with the prison-industrial complex, 82-3
altruism in primates, 186	overlap with the temperate grain-livestock
animal advocacy	complex, 85
and science, 95	overlap with the triple helix concept, 82
animal behavior studies	overlap with the vegetable-industrial complex, 85
abnormal behavior in captive chimpanzees,	politics of food, 85–7
148-50	role of biotechnology, 78-80
defining abnormal behavior, 145-6	role of the mass media, 88-9
empirical tests in chimpanzees, 146-8	sustainability of the livestock revolution, 78-9
measuring behavioral effects, 145-6	techno-capitalist imaginary, 78-80
proximate mechanisms, 144, 151-2	use of animals in drugs research, 83
ultimate mechanisms, 144, 151-2	work of Barbara Noske, 77
animal experimentation	animal research
and affected ignorance, 229-30	and the principle of beneficence, 236–8
here and now bias, 229-30	animal welfare, 23–4
animal-human relationships. See human-animal	applications for human research protections,
relationships.	239–40
animal-industrial complex	dolphins, 100–1
application of actor-network theory, 89-90	pharmaceutical industry, 83
canine anti-depressant drugs, 84	principle of justice, 238–9
capitalist biopolitics, 78–80	principle of nonmaleficence, 236–8
capitalist influences, 80-2	principle of protection of the vulnerable, 235-6
case for challenging, 91	principle of respect for autonomy, 234-5
commodification of farmed animals, 77	whales, 100-1



Index

animal rights activists	observational contact with apes, 58
parallels drawn with the Holocaust, 75	potential strategies against, 53-4
animal welfare	strategy of individualizing apes, 62-5
and conservation, 203-4	wrongness of, 55–6
use of animals for research, 23-4	apes
Animal Welfare Act (1966), 64, 234	effects of interactions with humans, 183
limitations, 23–4	giving consideration to relationships with, 246–8
animals	mind minding capabilities, 131–7
negative connotations, 68–9	performance on false-belief tests, 132–3
unfavorable stereotypes, 72–3	performance on non-verbal false-belief tests,
See also non-human animals.	133–6
animism	personality factors, 123
in traditional societies, 156–60	question of moral agency, 137–40
ant (Ectatomma ruidum)	question of moral agency, 137–40 question of phenomenal consciousness, 138–40
and insect love, 164–5	use of folk psychology, 132–3
	2 2
application of actor–network theory, 168–9	ways of engaging with other minds, 126–7
becoming with significant others, 173–4	See also great apes, primates.
colony as ensemble, 168–9	aquariums
cutting the network, 167–9	concerns about animals in captivity, 58–9
deviation from consensus view of ant colonies,	observational contact with animals, 58
166–7	Aquinas, Thomas, 69
entangled empathy, 173–4	Arcus Foundation
feeding behavior, 169	convention on relationships with non-human
feeding process, 168	animals, 247–8
flourishing in the Anthropocene, 175–6	Aristotle, 69, 74
fluid exchanges, 169–72	Association of Zoos and Aquariums (AZA), 146
initial observations, 165–7	asymmetric contact with apes, 58-9
reciprocal altruism, 169-72	attribution of mental states to others, 129-30
relationships between colonies, 167–9	Augustine, 69
relationships with other species, 173-4	authentic self, 121–3
social organization of colonies, 167-9	autonomous agency
transfers between a network of colonies, 166-7	and mindreading, 116, 118-23
trophallaxis, 169–72	cognitive capacity required, 118-23
ant (Temnothorax albipennis)	criteria for, 115–16
teaching in, 123	autonomy
ant (Wasmania auropunctata), 166	practical autonomy, 242-4
Anthropocene, 174, 181–2, 187	principle of respect for, 234–5
anthropology, 189–91	
traditional views of non-human animals, 3	baboons
See also ethnoprimatology.	expression of grief, 106–7
anthropomorphism, 26	backyard chickens
problematic aspects, 226	See urban chicken keeping.
role in promoting conservation, 196	Bangladesh
antibiotic resistance	tiger–human conflict, 20–1
drugs used in farmed animals, 84	Bauman, Zygmunt, 88
anti-depressant drugs for dogs, 84	beasts
anti-Semitism, 53	negative connotations, 68–9
apeism	becoming with significant others, 173–4
and erroneous beliefs, 60–2	bees
and speciesism, 54–5	cognitive abilities, 19
asymmetric contact with apes, 58–9	beliefs
combating indifference to ape welfare, 62–5	development of understanding of, 127
concerns about apes in captivity, 58–9	erroneous beliefs and apeism, 60–2
1 1 2	erroneous beliefs and racism, 60–2
contact strategy against, 57–9	nature of, 126
definition, 54–5	· · · · · · · · · · · · · · · · · · ·
Enlightenment Strategy, 60–2	Belmont Report (1978), 232–3
imaginary contact with apes, 58	principle of beneficence, 236–8



Belmont Report (1978) (cont.)	encephalization quotient (EQ), 96
principle of justice, 238–9	evolution of, 96–7
principle of non-maleficence, 236-8	size of, 96
principle of protection of the vulnerable, 235-6	cetaceans
principle of respect for autonomy, 234–5	aberrant behavior in captivity, 102
beluga (Delphinapterus leucas), 103	abuses by humans, 99–103
beneficence principle, 236–8	adverse effects of captivity, 102–3
Bentham, Jeremy, 74	as food, 100
Bible	challenge of moral inclusivity, 103–5
as justification for speciesism, 28	cultural attributes, 98–9
biodiversity loss, 16–17, 198–200	demands of the Nonhuman Rights Project, 244
bioindustry, 2	mass slaughter by humans, 100
biological kinds, 45–7	mortality in captivity, 103
defining what it is to be human, 41	reduced life expectancy in captivity, 103
biology	research on, 100–1
repudiation in cultural anthropology, 71–2	slaughter as bycatch, 100
biosynergy notion, 196	social complexity and relationships, 98–9
biotechnology, 86	stress and disease in captivity, 103
capitalist biopolitics, 78–80	use by the military, 101
birds	See also specific cetaceans.
cognitive abilities, 19	charismatic mega-fauna, 201
Boas, Franz, 71–2	charismatic species, 21–2
	•
bonding in humans, 186	chickens
bonobos, 57, 202	cognitive abilities, 19
boundaries	problem-solving ability, 11
between humans and other animals, 3–4	range of communications, 11
brain	respectful treatment in traditional societies, 11–12
and sentience, 34–5	social structure in the wild, 11
size of the cetacean brain, 96	stresses of domesticated exploitation, 11
Braithwaite, Victoria, 20	suffering in egg factories, 27, 37
Breed, Michael, 171	See also urban chicken keeping.
British and Irish Association of Zoos and Aquariums	children
(BIAZA), 146	humane education, 25–6
bushmeat trade, 204	Chimp Haven, 65, 141
	chimpanzees, 57
Cambridge Declaration on Consciousness, 15–16	ability to recognize intentional behavior, 120-1
capitalism	abnormal behavior in captivity, 102, 141–2, 144
commodification of problems caused by, 84	defining abnormal behavior, 145–6
influence on human–animal relations, 80–2	demands of the Nonhuman Rights Project, 243-4
capitalist biopolitics	empirical tests of abnormal behavior, 146-8
techno-capitalist imaginary, 78-80	ethical issues with captive animals, 154–5
captive animals	ethogram for wild chimpanzees, 145
evidence of abnormal behaviors, 152-4	evolutionary psychopathology, 150-2
indications of suffering, 152–4	expression of grief, 110–11
capuchin monkeys	future directions in welfare improvement, 154
self-awareness, 98	human-chimpanzee interactions in the wild,
carbon tax, 84	142–3
Carpenter, Novella, 220	lack of moral concern for, 104
categorizing	measuring behavioral effects of captivity, 145-6
and discrimination, 2	orphans from the bushmeat trade, 204
cats, 1	range of wild chimpanzee behaviors, 142–3
causal essences	response to death of a group member, 110-11
and natural kinds, 45-7	self-awareness, 98
and racism, 47–9	studies of abnormal behavior in captivity, 148-50
epistemiological problem, 47–9	suffering in captivity, 141–2, 152–4
cetacean brain	See also human–alloprimate interface.
complexity of the cerebral cortex, 96–7	Christman, J., 118, 120–1



Index

classism, 1	crops industry, 85
climate change, 17	crows, 30
climate change mitigation, 84	crustaceans
Coetzee, J. M., 75	evidence of ability to feel pain, 34-5
cognitive development, 130	cultural anthropology
cognitive ethology, 15	influence on human rights discourse, 71-2
cognitive neuroscience, 70	repudiation of biology, 71–2
collaborative behavior	cultural intelligence, 184–6
comparison between apes and humans, 57	cultural stereotyping
commodification of animals, 2	negative stereotypes of non-human animals, 72–3
commodification of the excesses of capitalism, 84	culture
commodity chain analysis, 89	attributes in cetaceans, 98–9
common law	development without mindreading, 117
Nonhuman Rights Project, 241–2	misrepresentation of non-human animals, 18
commons	culture industry
tragedy of, 2	and the animal–industrial complex, 83
compassionate conservation, 21–2	cumulative culture
humane education, 25–6	development without mindreading, 117
need for social change, 24–5	development without immarcading, 117
complex	dairy products
meanings of, 85, 87–9	health risks associated with high consumption, 84
complex communication	Darwin, Charles, 15–17, 26, 141
and the right to life, 32–3	Dawkins, Marian, 15–16
consciousness	Declaration of Helsinki (1964), 232
Cambridge Declaration on, 15–16	deep ethology studies, 24
in non-human animals, 15–16	dehumanization, 40
conservation	and exclusion from moral consideration, 52
and animal welfare, 203–4	moral implications, 42–3
and great ape welfare, 203–4	Native Americans, 51
and respectful coexistence, 204–5	psychological essentialism, 43–7
compassionate conservation, 21–2	denial
destruction of ecosystems, 198–200	role in speciesist thinking, 18
failure of sustainable development, 198–200	Descartes, René, 69
great apes, 200–2	diet
importance of ecosystem services, 198–200	health risks of high meat/dairy consumption, 84
loss of biodiversity, 198–200	dignity
motivations for, 197	recognition of, 74
notion of shared ecological space, 196	Dilthey, William, 71
promotion through anthropomorphism, 196	discrimination
	as categorizing, 2
respectful coexistence, 197 strategies from traditional societies, 194–6	as prejudicial and value laden, 2
•	1 3
tiger-human conflict, 20-1	legitimization of, 1
contact	Dobzhansky, Theodosius, 70
as a strategy against apeism, 57–9 effects on prejudice, 59	dogs, 1
	anti-depressant drugs for, 84
effects on racism, 56–7, 59	Dolly the cloned sheep, 207
effects on sexism, 59	dolphins
contact hypothesis (Allport), 56–7	aberrant behavior in captivity, 102
coop tours, 213–18	abuses by humans, 99–103
cooperative behavior	adverse effects of captivity, 102–3
as strategy against racism, 56–7	as food, 100
Corbey, Raymond, 16	brain evolution, 96–7
critical animal studies, 80, 88	challenge of moral inclusivity, 103–5
and the animal–industrial complex, 81	cognitive complexity and flexibility, 97–8
approaches to the animal-industrial complex, 78	complexity of the cerebral cortex, 96–7
intersectionality concept, 79-80	cultural attributes, 98-9
crocodiles, 162	dolphin assisted therapy, 101–2



dolphins (cont.)	empathic overload and burnout, 229-30
drive hunting, 100–1, 105	empathy
evidence for complex intelligence, 95	correcting empathic failures, 227–8
evidence for metacognition, 97–8	examples of inapt empathy, 228-31
evidence for self-awareness, 95, 97-8	motivational aspect, 226-7
evidence of intelligence, 97-8	enactivist view of mind minding, 136-7
expression of grief, 113	encephalization quotient (EQ), 96
mass slaughter by humans, 100	Engh, Anne, 106–7
mortality in captivity, 103	ensemble notion, 168–9
reduced life expectancy in captivity, 103	entangled empathy
research on, 100-1	correcting empathic failures, 227-8
response to death of a group member, 113	Ectatomma ants, 173-4
size of the cetacean brain, 96	ethical relations with other species, 224-6
slaughter as bycatch, 100	examples of inapt empathy, 228-31
social complexity and relationships, 98-9	motivational aspect, 226-7
stress and disease in captivity, 103	nature of the process, 226–7
suffering in captivity, 95	entertainment-industrial complex
support for recognition of rights, 95	overlap with the animal-industrial complex, 83
use as entertainment, 101	entertainment industry
use by the military, 101	use of dolphins and whales, 101
domesticatory practices, 207	environment of evolutionary adaptedness, 142
Douglas-Hamilton, Ian, 113	equality
drugs	and legal personhood, 244–5
used in farmed animals, 84	right of, 244–5
Durkheim, Emile, 71–2, 74	essentialism, 10
	ethical consideration
E. coli scares, 85	and speciesism, 223
early mindreading system, 126	animal research protections, 239-40
earthworms	expanding the circle, 223
evidence of ability to feel pain, 35	principle of beneficence, 236–8
echinoderms	principle of justice, 238–9
evidence of sentience, 35	principle of non-maleficence, 236–8
ecofeminism, 88	principle of protection of the vulnerable, 235–6
intersectionality concept, 79–80	principle of respect for autonomy, 234–5
ecological dominance of humans, 1–2	sameness approach, 223–4
ecological modernization notion, 79	widening human research protections, 239–40
ecology	ethical failure
obligations of research, 24	affected ignorance, 229–30
economic contingency	here and now bias, 229–30
misrepresentation of non-human animals, 18	response to empathic overload, 229–30
ecosystem destruction, 198–200	ethical relations with other species, 224–6
ecosystem services, 197	ethnocentrism
importance of, 198–200	and the human concept, 43
ecotourism, 58	ethnoprimatology, 179, 189–91
concerns about, 59	perspective on the human–alloprimate interface,
Ectatomma ruidum. See ant (Ectatomma ruidum)	180–2
egg factories	ethnoracial groups, 50
suffering of chickens, 27, 37	ethogram for wild chimpanzees, 145
Ehrlich, Paul, 24	etiquette and manners in eating, 87
Eisenberg, Melvin Aron, 241–2	European Union
elephants, 202	animal welfare policies, 23
demands of the Nonhuman Rights Project, 244	evolutionary approach
expression of grief, 113	discontinuity between humans and other primates
lack of moral concern for, 104	186–7
Elias, Norbert, 87	evolutionary biology new synthesis with genetics, 70–1
emotional suffering	•
capacity of non-human animals, 28-9	evolutionary continuity, 16–17, 26



More information

Cambridge University Press 978-1-107-03260-6 - The Politics of Species: Reshaping Our Relationships with Other Animals Edited by Raymond Corbey and Annette Lanjouw Index

Index

evolutionary perspective	response to death of a group member, 112-13
human–alloprimate interface, 180	Great Ape Project, 22–3, 74
evolutionary psychiatry, 152	exclusion of other species, 73
evolutionary psychology, 150–1	influence of UN discourse on human rights, 73
evolutionary psychopathology	great apes
chimpanzees, 150–2	argument for moral and legal standing, 124–5
exclusion	as agents with social norms, 124–5
as lack of ritual recognition, 73–5	as keystone species, 201–2
do lacit of fittual foodsition, 75 5	behavioral comparison with humans, 115–16
false-belief tests	conservation and welfare, 203–4
non-verbal tests, 133–6	demands of the Nonhuman Rights Project, 244
performance of apes, 132–3	evidence of teaching, 123
farmed animals. See animal–industrial complex	giving consideration to relationships with, 246–8
feminist theory	importance of conservation, 200–2
·	response to death of a group member, 109–13
assimilation problem, 224	
Fichte, Gottlieb, 49	role of mindreading, 115–16
fish	self-creation, 121–3
ability to feel pain, 20	social learning, 121–3
cognitive abilities, 20	welfare and expression of grief, 109–13
flatworms	See also apes, primates.
evidence of ability to feel pain, 35	Greek philosophy
fluid exchanges in <i>Ectatomma</i> ants, 169–72	human essentialist view, 69
folk categories	Greenwood, Christina, 20–1
and scientific categories, 41–2	grief in animals
defining what it is to be human, 41–3	and great ape welfare, 109–13
folk psychology, 127–8, 131	and love, 108
in apes, 132–3	baboons, 106–7
folk taxonomy	behaviors that are not grief, 109
generic species concept, 50	beyond speciesism, 113-14
food	chimpanzees, 110–11
politics of, 85–7	defining, 107–9
food security, 78	dolphins, 113
Fouta Djallon of Guinea, 202	elephants, 113
Frankfurt School, 2, 77, 83	future of grief research, 114
fruit flies, 31	gorillas, 112–13
future and past	maternal corpse-carrying in monkeys, 109
sense of, 30–1	response to death of a group member, 109-13
	responses to death, 109
generic species concept, 50	Griffin, Donald, 141
genetics	
human variability, 68	Habermas, Jürgen, 2, 73, 76
new synthesis with evolutionary biology, 70-1	habitat destruction, 2
genocide	health
and definition of human beings, 43	pharmaceuticalization of, 83-4
Rwanda, 53	risks associated with high meat/dairy
genomics in animal farming, 79	consumption, 84
gibbons	Hegel, G. W. F., 73
Mentawai song about, 163	here and now bias
gift giving	ethical failure, 229-30
as a moral activity, 74	hermeneutic tradition, 6
global markets	hierarchical speciesist thinking, 17–18
influence on human lives, 2	Himmler, Heinrich, 43
global warming, 61	Hitler, Adolf, 48
Goodall, Jane, 106–7	Hobbes Thomas, 72
gorillas, 57	Hölldobler, Bert, 166
expression of grief, 112–13	Holocaust
intelligence of 28	discourse following 72



Holocaust (cont.)	human exceptionalism
parallels drawn by animal rights activists, 75	and ethical consideration, 223
Homo sapiens	and the definition of human, 40–1
defining what it is to be human, 40-2	in European metaphysics, 69
implications of classification as, 42-3	speciesist arguments for, 16-18
Honneth, Axel, 73	human-macaque interface, 182-3
Horkheimer, Max, 83	attitudes and actions towards primates, 192-3
human	attitudes toward nature, 192
as a biological kind, 41	Lore Lindu National Park, Sulawesi, 191
as a folk category, 41–2	role of place, 194
defining what the term means, 40–2	strategies to promote conservation, 194–6
denial of the animal in, 87–8	Sulawesi Tonkean macaque (Macaca tonkeana),
legitimization of discrimination, 1	191
moral implications of classification as, 42–3	human nature concept, 10
post-humanist view, 4	human research protections
social formation of, 87–8	applications in animal research, 239–40
viewed as distinct from animals, 72–3	extending to non-human animals, 232–4
human-alloprimate interface	principle of beneficence, 236–8
altruism, 186	principle of justice, 238–9
arguments for reappraisal of, 180-2	principle of non-maleficence, 236–8
complexity of relationships, 179	principle of protection of the vulnerable, 235–6
continuities and commonalities, 183–6	principled approach, 232–4
ethnoprimatological perspective, 180-2	respect for autonomy, 234–5
evolutionary discontinuity between humans and	human rights
apes, 186–7	post-World War II UN discourse on, 67–9
evolutionary perspective, 180	human-tiger conflict
examples, 182–3	Bangladesh, 20–1
factors influencing relationships, 187–8	dilemmas for conservationists, 20-1
interactions with apes, 183	humane education for children, 25–6
macaques, 182–3	Humanimalia journal, 4
niche alteration and destruction by humans, 187	humanism, 1–2
reciprocity, 184-6	post-World War II UN discourse on human rights,
social bonding, 186	67–9
social intelligence, 184-6	humanormativity
social kinship, 186	and ethical consideration, 223
human-animal relationships	humpback whale (Megaptera novaeangliae), 98
capitalist influences, 80-2	Huxley, Julian, 70
See also traditional societies.	hyper-sociality in humans, 184-6
human behavior	
abuses of cetaceans, 99-103	identifiable victim effect, 64-5
concealment of violence against farmed animals,	imaginary contact with apes, 58
87–8	Important Bird Areas (IBAs), 201
domination of the natural world, 197	indexical terms
ecological dominance, 1–2	human concept, 49-52
etiquette and manners in eating, 87	individualizing humans
propensity to categorize, 2	effects on racism, 62
human-chimpanzee interface. See chimpanzees,	individuation
human-alloprimate interface.	as strategy against apeism, 62-5
human concept	insect love
as an indexical term, 49-52	becoming with significant others, 173-4
epistemiological problem, 47-9	Ectatomma ants, 164-5
ethnocentrism, 43	initial observations of Ectatomma ants,
natural kinds, 45-7	165–7
psychological essentialism, 43-7	living in common worlds, 173-4
human dignity	insects
concept of, 69	debate on ability to feel pain, 18
recognition of 74	evidence of ability to feel pain 34-5



More information

Cambridge University Press 978-1-107-03260-6 - The Politics of Species: Reshaping Our Relationships with Other Animals Edited by Raymond Corbey and Annette Lanjouw Index

Index

intelligence	Lecky, W. H., 223
and capacity to experience suffering, 34	leeches
evidence in dolphins, 97–8	evidence of ability to feel pain, 35
intentional behavior	legal personhood
ability to recognise, 120-1	and right of equality, 244-5
intentionally directed attitudes in intersubjective	legal rights pyramid, 242
encounters, 137	practical autonomy, 242–4
interfaces	rights associated with, 241
between humans and other animals, 3–4	legal rights
See also specific human–animal interfaces.	Nonhuman Rights Project, 241–2
interpretive tradition, 6	legal rights pyramid, 242
intersectionality	legal things
animal–industrial complex, 82	lack of rights associated with, 241
concept, 79–80	Lévi-Strauss, Claude, 71–2
intersubjective engagements	Lindu of Sulawesi, 191
in humans, 127–30	attitudes toward nature, 192
intentionally directed attitudes, 137	attitudes toward primates, 192–3
mind minding in the great apes, 131–7	role of place, 194
ways of engaging with other minds, 126–7	strategies to promote conservation, 194–6
intuitive concepts	livestock revolution
human concept, 43–7	meatification of the global diet, 85
race, 47	sustainability concerns, 78–9
intuitive theories, 45	love
invertebrates	
	for insects, 164–5 love in animals
debate on ability to feel pain, 18	
James William 160	and grief, 108
James, William, 169	
jellyfish	macaques
evidence of sentience, 35	Lore Lindu National Park, Sulawesi, 191
jigsaw classroom method, 56	self-awareness, 98
John Paul II, Pope, 69	Sulawesi Tonkean macaque (Macaca tonkeana), 191
Judeo-Christian tradition	See also human—macaque interface.
human exceptionalism, 69	Makuna of Amazonia
justice	treatment of chickens, 12
principle of, 238–9	mantis shrimps, 30
	mass media
Kant, Immanuel, 4, 42, 48–9, 55–6, 69, 71–4,	role in the animal–industrial complex, 88–9
175, 242	maternal corpse-carrying in monkeys, 109
Kerinci of Sumatra, 156–7	Mauss, Marcel, 72, 74
ancestor–tiger beliefs, 160–2	Maya of Guatemala
attribution of a soul to animals, 157–9	treatment of chickens, 11
beliefs relating to dangerous animals, 160-2	Mayr, Ernst, 46
myths and rituals, 159-60	meat
pact of respect for animals, 162–3	health risks associated with high consumption, 84
respect for the forest and its inhabitants,	meerkats, 123
159–60	mental state attribution, 129-30
Key Biodiversity Areas (KBAs), 201	Mentawai of Sumatra, 156–7
keystone species, 201–2	attribution of a soul to animals, 157-9
killer whale (Orcinus orca), 98	beliefs about crocodiles, 162
mortality in captivity, 103	beliefs relating to dangerous animals, 160-2
kinds	myths and rituals, 159-60
natural and non-natural, 45-7	pact of respect for animals, 162-3
knowledge-based bio-economy, 79	respect for the forest and its inhabitants, 159-60
knowledge transfer in animal farming, 79	song on a gibbon, 163
Kockelman, Paul, 169	metacognition
Korsgaard, Christine, 118–20	evidence in dolphins, 97–8
Kroeber, Alfred, 71	metaphysical naturalism, 70



mice	Moss, Cynthia, 113
empathic ability, 19	mountain gorillas, 202
military	multispecies ethnography, 2–3, 7
use of dolphins and whales, 101	Murtoff, Jennifer, 220
military-industrial complex, 82	
mind minding	naïve, weak, or minimal theory of mind, 126
and moral agency in non-human animals, 137–40	narrative practice hypothesis, 128
capabilities of great apes, 131–7	Native Americans
enactivist view, 136–7	dehumanization, 51
intentionally directed attitudes, 137	shifting racial classification, 51
non-verbal false-belief tests, 133–6	natural kinds, 45–7
phenomenally charged experiencing, 137	human as an indexical term, 49–51
without a theory of mind, 133–6	human concept, 49–51
mind minding systems	Nazi theories of race, 48
developmental stages, 127, 130	neo-Durkheimian tradition, 74
evidence for, 127–8	nervous system
high-level capacities, 127–8	link with sentience, 34–5
-	
interactions between, 130–1	neurodevelopmental stages, 130
intersubjective engagements in humans, 127–30	new speciesism, 30–3
low-level capacities, 128–9	new synthesis of evolutionary biology and genetics,
mental state attribution, 129–30	70–1
mirroring systems in the brain, 129	niche alteration and destruction by humans, 187
theory of mind capacities, 127–8	niche construction, 184
mindreading	non-human animals
and argument for moral and legal standing, 124–5	Arcus Foundation convention on, 247–8
and autonomous agency, 116, 118–23	basis for moral discrimination against, 52
and cumulative culture, 117	capacity for physical suffering, 28
and development of social norms, 116	capacity for psychological suffering, 28-9
and prediction of behavior, 123-4	complex communication, 32–3
and theory of mind, 116	ecological dominance of humans, 1
and understanding of social norms, 117-18	effects of individualizing animals, 62-5
benefits of, 116–18	evidence of sentience, 34–5
explanatory drive in humans, 117-18	exclusion from moral consideration, 52
in humans, 115–16	giving consideration to relationships with, 246-8
personality in apes, 123	human interactions with, 15-16
teaching in apes, 123	misrepresentation by various agencies, 18
to explain behavior, 116–17	moral judgments against, 15-16
to predict behavior, 116–17	negative associations with animals, 68–9
minnows, 30	protection under non-speciest law, 35-8
mirroring systems in the brain, 129	sentience in, 18–20
modern evolutionary theory, 150, 179	speciesism by humans, 16
mollusks	unfavorable stereotypes, 72–3
evidence of ability to feel pain, 34–5	views of traditional anthropology, 3
monotheistic religions	Nonhuman Rights Project, 241–2, 245
legitimization of discrimination against non-	non-maleficence principle, 236–8
humans, 1	non-speciesist law
Moore, Michael, 206, 214	protection for non-human animals, 35–8
moral agency, 5–6	Noske, Barbara. See animal–industrial complex
criteria for, 137–40	Nuremberg Code (1947), 232
in non-human animals, 137–40	reactions code (1947), 232
moral discrimination	observational contact with apes, 58
and dehumanization, 52	
,	octopi cognitive abilities, 19
basis for, 52 moral inclusivity	,
•	old speciesism, 27–9
challenge of cetaceans, 103–5	opiates
moral status	effects on pain, 34
implications of human classification, 42–3	production by invertebrates, 34–5



Index

orangutans, 57, 204	proximate mechanisms in animal behavior, 144,
behavioral comparison with humans, 115	151–2
orcas. See killer whale	psychiatry, 150, 152
orthonectids, 35	See also evolutionary psychiatry.
	psychological empiricism, 45
pain	psychological essentialism
ability of fish to feel, 20	concept of the human, 43–7
association with substance P, 34	epistemiological problem, 47–9
capacity for physical suffering, 28	racism, 47–9
effects of opiates, 34	psychological suffering
in insects, 18	capacity of non-human animals, 28–9
in invertebrates, 18	psychopathology, 151
Pareto, Vilfredo, 170	See also evolutionary psychopathology.
Parkman, Francis, 51	real mass commentation, projection production and the commentation of the comments of the comm
past and future	race concept, 47
sense of, 30–1	racism, 27
Patrick-Goudreau, Colleen, 26	and causal essences, 47–9
perceptual mindreading, 126	and erroneous beliefs, 60
personality in apes, 123	definition, 1
personhood, 179	effectiveness of policies against, 53–4
and agency, 6	effects of contact, 59
pets	effects of contact between groups, 56–7
moral concern for, 104	effects of individualizing humans, 62
pharmaceutical-industrial complex	Enlightenment Strategy, 60
overlap with the animal–industrial complex, 83–4	epistemiological problem, 47–9
pharmaceuticalization of health, 83–4	Nazi theories of race, 48
phenomenal consciousness	post-World War II UN discourse on human rights,
in non-human animals, 138–40	67–9
phenomenally charged experiencing, 137	radial invertebrates
phenotypic plasticity, 184	evidence of sentience, 35
pied babblers, 123	rationality, 6
placozoans, 35	reciprocal altruism
Plato, 69	in Ectatomma ants, 169–72
polar bears	reciprocity in humans, 184-6
lack of moral concern for, 104	recognition debate, 73-6
politics	Reconcile® (canine anti-depressant), 84
definition, 1	Regan, Tom, 27–8
misrepresentation of non-human animals, 18	religion
of food, 85–7	misrepresentation of non-human animals, 18
Pollan, Michael, 85, 216	representational theory of mind, 134
post-humanist thinking, 4	research using animals. See animal research.
Pratt, Stephen, 169	respectful coexistence, 197
prediction of behavior	and conservation, 204-5
and mindreading, 123-4	and multispecies ethnography, 2-3
prejudice	definition, 2
effects of contact, 59	overcoming resistance to, 9-10
primate behavior	rhesus macaques
comparisons, 183–6	self-awareness, 98
primate thanatology, 108	rhombozoans, 35
primates	ritual recognition
altruism, 186	and implicit exclusion, 73-5
reciprocity, 184-6	and the UN discourse on human rights, 73-5
social intelligence, 184-6	ritual recognition theories, 76
See also apes, great apes, human-alloprimate	Rollin, Bernard, 141
interface.	Roman Catholic doctrine
prison-industrial complex	human exceptionalism, 69
overlap with the animal-industrial complex, 82-3	Rorty, Richard, 10



Rose, Deborah Bird, 169, 174	social ties
Rousseau, Jean-Jacques, 73	criterion for speciesism, 31
Ryder, Richard, 27–8	soul
• • •	attribution of a soul to animals, 157–9
Sakkudei of Sumatra	species
treatment of chickens, 11-12	individual differences within, 18
sameness	speciesism, 16
arguments for ethical consideration,	and animal welfare, 23-4
223–4	and apeism, 54–5
Sapir, Ernst, 71	and ethical consideration, 223
Schefold, Reimar, 156, 163	and sentience, 34
scholasticism, 69	and the definition of human, 40-1
science	arguments against, 16-18
and animal advocacy, 95	bias toward human characteristics, 30-3
scientific categories	charismatic species, 21–2
and folk categories, 41-2	definition, 1, 33–4
defining Homo sapiens, 40-2	favoring all humans over all non-humans,
sea anemones	27–9
evidence of sentience, 35	Great Ape Project, 22–3
SeaWorld, 101	justification in the Bible, 28
self-as-ensemble concept, 168-9	need for humane education, 25-6
self-awareness	new for social change, 24-5
evidence in dolphins, 97-8	new speciesism, 30-3
self-creation	non-speciesism, 33-8
in great apes, 121–3	old speciesism, 27–9
sense of past and future, 30-1	role of denial, 18
sentience	suffering of chickens in egg factories, 27
and posession of a brain, 34-5	tiger-human conflict in Bangladesh, 20-1
and right to life and well-being, 34	sperm whale (Physeter macrocephalus), 98
and subjectivity, 6	brain size, 96
and suffering, 34	spiders, 19
definition, 5–6	spindle cells, 97
evidence in non-human creatures, 34-5	sponges (animal), 35
in creatures with a nervous system, 34-5	Squier, Susan, 208, 214
in invertebrates, 34–5	Sterelny, Kim, 115-16
in non-human animals, 18-20	stereotypes, 67
in vertebrates, 34	unfavorable stereotypes of animals, 72-3
sexism, 1, 59	Strathearn, Marilyn, 168
shared ecological space notion	subjectivity
promoting conservation, 196	and agency, 6
Singer, I. B., 75	substance P
Singer, Peter, 27-8, 30-3, 223	association with pain, 34
Skinner, Katy, 210	production by invertebrates, 34
slavery, 241	suffering
and definition of human beings, 43	and intelligence, 34
and ethnoracial grouping, 51	empathic overload and burnout, 229-30
Smith, Lillian, 47–8	in sentient beings, 34
social bonding in humans, 186	indications in captive animals, 152-4
social complexity	Sulawesi, Lore Lindu National Park, 191
in cetaceans, 98–9	Sulawesi Tonkean macaque (Macaca tonkeana)
social intelligence in primates, 184-6	191
social kinship, 186	Sumatra. See traditional societies in Sumatra.
social learning	Sumner, William Graham, 43
in great apes, 121–3	Sundarbans Tiger Project, Bangladesh, 20-1
social norms	sustainability
and development of mindreading, 116-18	concerns about the livestock revolution, 78-9
understanding of 117–18	failure of sustainable development 198-200



Index

symbolic meaning	urban chicken keeping
as a distinctive quality of humans, 71	coop tours, 213–18
importance in cultural anthropology, 71	cultural politics of, 207-9
	debate over, 206-7
Taylor, Charles, 73	historical domesticatory practices, 207
teaching in apes, 123	involvement of consumer capitalism, 207-8
techno-capitalist imaginary	market for chicken coops, 207-8
and the animal-industrial complex, 78-80	motivations for, 207
technocracy	nostalgia factor, 208-9
influence on human lives, 2	novelty factor, 208-9
temperate grain-livestock complex	regulations in different areas, 218-22
overlap with the animal-industrial complex, 85	rustbelt chickens' experience, 209-13
theory of behavior, 126	wider aspects of, 218-22
theory of mind	urban farming
and mind minding, 133-6	debate over, 206-7
and mindreading in animals, 116	motivations for, 207, 222
mind minding systems, 127–8	See also urban chicken keeping.
Thomson, Judith Jarvis, 43	
tigers	van Dooren, Thom, 169, 174
ancestor-tiger beliefs, 160-2	veganism
conflict with humans in Bangladesh, 20-1	politics of food, 85–7
lack of moral concern for, 104	vegetable-industrial complex
Tinbergen, Niko, 151	overlap with the animal-industrial complex, 85
toads, 30	vegetables industry, 85
Tomasello, Michael, 115	vertebrates
traditional societies	sentience in, 34
attitudes toward nature, 192	von Economo neurons, 97
attitudes toward primates, 192-3	vulnerable individuals
attitudes toward protected area conservation, 192	protections for, 235–6
respectful treatment of chickens, 11-12	
role of place, 194	warm-body hypothesis, 56, 59
strategies to promote conservation, 194-6	Watts, Michael, 89
traditional societies in Sumatra	Wcislo, Bill, 171
animism, 156-60	Weber, Max, 205
attribution of a soul to animals, 157-9	Weis, Tony, 85
beliefs relating to dangerous animals, 160-2	Western diet
myths and rituals, 159-60	health risks of high meat/dairy consumption,
pact of respect for animals, 162-3	84
respect for the forest and its inhabitants, 159-60	whales
views of non-human animals, 156-7	adverse effects of captivity, 102-3
tragedy of the commons, 2	cultural attributes, 98-9
triple helix concept	social complexity and relationships, 98-9
overlap with the animal-industrial complex, 82	use as entertainment, 101
trophallaxis in Ectatomma ants, 169-72	See also cetaceans.
	Wheeler, William Morton, 169-71
ultimate mechanisms in animal behavior, 144, 151-2	White, Lynn, 24
United Nations discourse on human rights	Wilson, Edward O., 22, 166-7
and ritual recognition, 73-5	Wirtheim, Joe, 208
influence of cultural anthropology, 71-2	
influence of European metaphysical traditions, 69	Yaka of the DRC
influence of new synthesis biology, 70-1	treatment of chickens, 11
influence on the Great Ape Project, 73	Yourcenar, Marguerite, 75
post-World War II anti-racist stance, 67-9	
unfavorable stereotypes of animals, 72-3	zoos
Universal Declaration of Human Rights (UN, 1952),	concerns about apes in captivity, 58-9
67	observational contact with animals 58