

INDEX

A

- Abdul-Rahman, Omar, 220
- Acholi people (Uganda), 149–151
- Adams, John, 236
- Adaptation
- context-sensitivity as hallmark, 226–227
 - definition of, 45–46
 - desire for revenge as, 47–48, 49
 - genetic drift as alternative to, 46–47
 - culture as, 229–233
 - just-so stories of, 65
 - religion as secondary, 207
 - revenge and forgiveness as
 - conditional, 132–133, 155
 - revenge as solving problems of, 48–49
- Adaptive functions
- forgiveness as relationship preservation, 116
 - revenge as coercion to cooperate, 56–61
 - revenge as deterrent, 49–51
 - revenge as warning, 51–56
- Adaptive problems, 11
- ADHD (Attention Deficit Hyperactivity Disorder), 65
- Afghanistan War
- Foreign Claims Act (1942)
 - reparations paid during, 157, 158
 - Nangarhar tribal support of Coalition forces, 159–160
 - solatia payments made during, 158–159
- Aggression
- definition of, 26
 - effects of provocation on, 26–28
 - Heemeyer's killdozer rampage (2004), 20–21, 61
 - North/South differences in, 53–54, 245n.27
 - See also* Conflict; Homicides; Violence
- Al Qaeda, 39, 205
- Altruistic (or costly) punishment, 58, 76–78
- Amish
- ethic of forgiveness among, 203, 221–222
 - religious persecution against, 202
 - schoolroom shooting, 203
- Anabaptists, 202, 203, 212, 221
- Anderson, Elijah, 54, 55, 71
- “Animal Haven Ranch” (Bakersfield), 4
- Anxiety
- as indicator of desire for forgiveness, 127–129
 - as response to lack of forgiveness, 130
- Apartheid, 213
- Apologies
- benefits of, 166–168
 - cross-cultural universals in, 162–163
 - honor restored by/lost through, 167, 178
 - among politicians, 163–166
- Arendt, Hannah, 112

Arendt-Vonnegut hypothesis,
112–113
 Arnhem Zoo (The Netherlands), 118
 Australian homicides, 30–31
 Axelrod, Robert, 93, 95, 96, 97, 98,
99, 100, 102, 110, 117

B

Baboons, 120
 Bashirian Airlines Flight 2937 crash
(2002), 41–42
 Battered women, 152–153
A Beautiful Mind (film), 94
 Belly-buttons, 46
 Benign intent hypothesis, 124
 Bertuzzi, Todd, 171–172, 173, 178
 Biggs, Brandon, 204
 Biggs, Gregory, 203–204
 bin Laden, Osama, 38, 205
 Biology. *See* Evolutionary biology
 Black-Michaud, Jacob, 53
 Blake, William, 15
 Blood money, 173
Blood Revenge (Boehm), 170
 Blood revenge (universality),
74–76, 121
 Blood vengeance codes in Human
Relations Area Files, 74
 Blushing, 154, 168
 Boehm, Christopher, 145, 170
 Bombings
 revenge motives for,
243n.45–244n.45
 World Trade Center bombing
(1993), 220
 Bonobos, 120
 Book of Judges study, 216–219
 Bororo people (Brazil), 122
 Boyd, Robert, 198
 Brain. *See* Human brain
 Bramitol pill study, 139–141
 Brecke, Peter, 186, 187, 188,
189, 190
 Brigham Young University, 217
British Journal of Psychiatry, 6
 Brown, Donald, 122
 Brown-headed cowbirds, 82

Bullying
 school killings due to, 34
 St. Louis case reports on homicide
and, 32–33
 studies on vengeful response
to, 35
 Bush, George W., 70, 166, 205
 Bushman, Brad, 141, 217–219
 Buss, David, 45
 Butler, Joseph, 10

C

Cagaba society (South America),
75, 76
 Caldwell, William B., 185
 Cantlon, Debby, 18
 Canute, King, 63
 Cardozo, Barbara, 24
 Careworthiness, 147–149
 Cats
 CT (Conciliatory Tendency)
lacking in, 120
 lack of reconciliation among, 125
 rage circuit stimulation in,
136–137
 Caudate nucleus, 139
 Chagnon, Napoléon, 123
 Chechnya War, 38–39
 “Chicken game,” 54
 Children
 anxious behavior exhibited by,
128–129
 killed by parents, data regarding,
248n.2
 “Lord’s Resistance Army”
(Uganda) kidnapping of,
149–151
 Chimpanzees
 aggression and attraction
among, 119
 CT (Conciliatory Tendency) of,
119
 de Waal’s observations on
reconciliation among, 118–119
 Köhler’s observations regarding
forgiveness among, 117
 morality in, 2–3

- revenge study comparing
 - rhesus macaques, stumptailed macaques and, 79–82
 - signals of deference by, 161 *See also* Primates
- Cho, Seung-Hui, 7, 33
- Christianity
 - on forgiveness, 5
 - forgiveness and revenge in context of, 208–213
 - Roman Empire’s official acceptance of, 212
 - Waorani society’s conversion to, 213–215
 - See also* Jesus of Nazareth; Religion
- Chukchee people (Arctic Circle), 122
- The Civilizing Process* (Elias), 183
- Clinton, Bill, 164, 165, 167, 178
- Coalitional bonds, 3
- Code of the Street* (Anderson), 54, 71
- Coercion function, 56–61
- Cognitive science, 8
- Cohen, Dov, 52, 53, 54
- Cohesive Force* (Black-Michaud), 53
- Colorado Avalanche (hockey team), 171
- Columbine High School shooting, 34, 243n.30
- Compensation
 - blood money, 173
 - Foreign Claims Act and solatia as forms of, 157–160
 - as forgiveness signal, 171–175
 - in inter-state reconciliation, 188
 - restorative justice and, 176–178
 - in the prisoner’s dilemma, 173–175
- Concessions, 163, 164–165
- Concubine study, 216–219
- Conflict
 - responses to, 127, 131–132
 - physiological responses of children to, 128–129
 - See also* Aggression
- Constantine, Emperor, 212
- Context-sensitivity, 225–227
- Continental Congress, 235–236
- Contrite tit-for-tat strategy, 102
- Cooperation
 - benefits of, 195–199
 - compensation success at encouraging, 174–175
 - con games taking advantage of inclination for, 192
 - decategorization benefit of, 195–197
 - effects of “noise” upon, 99–105
 - evolutionarily stable norms that lead to, 109
 - evolutionary biology on importance of, 233–235
 - indirect reciprocity and, 107–108
 - mutual intergroup differentiation benefit of, 199
 - with nonrelatives, 90
 - predator inspection as dilemma of, 83
 - recategorization benefit of, 197–199
 - reputation used to secure, 107–109
 - revenge’s function in coercing, 56–61
 - “three strikes” rule impact on, 103–106
 - See also* Relationships
- Copying success, 105
- Cosmides, Leda, 8
- Costly (or altruistic) punishment, 58, 76–78
- “Craving” revenge
 - Bramitol pill study on, 139–141
 - described, 137
 - “trust game” study on, 137–139
- Cross-cultural universals
 - apologies as, 162–163
 - blood revenge as, 74–76, 121
 - examining revenge, forgiveness, and reconciliation as examples of, 9–12, 72–73, 121–124
 - punishment as, 76–78
 - Westermarck on revenge as, 73–74
- Cross-group friendships, 197
- Crusades, 205
- Csikszentmihalyi, Mihaly, 13

- CT (Conciliatory Tendency)
 cultural learning/imitation of,
 228–229
 in humans, 120–121
 in nonhuman animals, 119, 120,
 126, 249n.10
See also Reconciliation
- Cultural differences
 apologies and, 162
 violence and, 52–54
- Cultural learning of conciliatory
 behavior, 228–229
- Cultural relativism, 8
- Culture
 as cause of human behavior, 8–9,
 53–56, 227–233
 definition of, 227
 forgiveness as aspect of Amish, 203
 honor cultivated by herding,
 53, 232
 “human universals” characterizing
 all, 72–73
 hunter-gatherers, 122
 sustaining maladaptive behavior,
 231–232
 universality of forgiveness in all,
 123–124
 universality of revenge in all,
 9–12, 72–78, 121
- Czech Republic political prisoners,
 204

D

- Dalai Lama, 204
- Daly, Martin, 30, 31, 43, 75, 76, 77, 173
- Darwin, Charles, 10, 168, 190, 191,
 196, 198
- de Waal, Frans
 on good and evil in humans and
 nonhuman primates, 2, 13
 on primate reconciliation
 behavior, 118
 primate revenge studies by, 79–81
 on tigers adopted by dog, 16–17
 the “valuable relationship”
 hypothesis espoused by, 124

- Decategorization, 195–197
- Declaration of Independence, 235
- Deer hunting, 57
- Demonic Males* (Wrangham and
 Peterson), 2, 4
- The Descent of Man* (Darwin), 10–11
- Desire for revenge
 as adaptation, 47–48, 49
 as conduit for pain, 39–40
 examining universality of, 72–78
 in nonhuman species, 78–85
 as product of natural selection,
 43–45
 as response to “thin slice” of
 experience, 66–72
 triggers for, 68–69
See also Revenge; Vengeful
 thoughts
- Deterrence function, 49–51
- Detroit retaliatory homicides
 (1972), 31, 32
- DHEA-S, 129, 153
- Dictator game, 78
- Direct reciprocity as benefit of
 forgiveness, 106
- Disease model of revenge, 5–7, 22,
 112–113
- Dogon people (Mali), 75, 76, 123
- Dolphins, 125
- Dunbar, Robin, 107

E

- Echo effect, 100
- Einstein, Albert, 112
- Eisner, Manuel, 184
- El Salvador Truth and Reconciliation
 Commission, 230–231
- Elias, Norbert, 183, 186, 192
- Emory University, 4
- Emotions
 brain seeking system, rage circuit,
 and, 134–136
 empathy, 148–149
 hypothalamus and the, 136–137
 revenge and positive, 143–146
 shame, 168–169

- Empathy, 148–149
- Ethelred II (West Saxon King), 63
- Evolutionary biology
- adaptation as discussed in, 45–61, 64–65
 - on crucial importance of cooperation, 233–235
 - on forgiveness as built-in feature, 88
 - on functions of religion, 206–208
 - on retaliatory infliction of fitness reduction, 50
 - on selection thinking, 43–45, 61
 - See also* Natural selection
- Evolutionarily stable strategies
- in game theory, 95–102, 106, 110
 - presence of forgiveness in all, 110
- Evolutionary theory
- forgiveness of enemies in context of, 16
 - on human behavior, 10–11
 - revenge as explained by, 11–12, 13
- Excuses, 163
- The Expanding Circle* (Singer), 192
- Expected value, 149–153
- F**
- Fairness, 77–78
- Families
- dogs rearing tiger cubs as, 16–18
 - getting along among members within, 89–90
 - homicide data regarding murdered children in, 248n.2
- Fear of snakes, 48
- Ferdinand, Archduke Frans, 37
- Firm-but-fair strategy, 102
- Fish revenge, 82–85, 90–92*fig*
- Fitzgerald, John, 210
- Fletcher, Richard, 64, 73
- Foreign Claims Act (1942), 157–158, 160
- Forgiveness
- anxiety as motivator of, 127–129
 - anxiety as response to lack of, 130
- Arendt-Vonnegut hypothesis
- regarding origins of, 112–113
 - as built-in feature of human nature, 13–15, 88, 224
 - careworthiness element of, 147–149
 - under certain circumstances, 88–89
 - comparing reconciliation and, 115–116
 - as conditional adaptation, 132–133, 155
 - definition and meanings of, 114–116
 - direct reciprocity benefit of, 106
 - as element of the tit-for-tat strategy, 98–99
 - evolutionary stability in prisoner's dilemma and, 95–102, 106, 109, 110, 113
 - as evolved feature of human nature, 13–15
 - examining universality of, 9–12, 121–124
 - foundations of, 149–154
 - of friends vs. enemies, 15–16
 - impact of religious culture on, 232–233
 - Köhler on primate forgiveness, 117
 - link between religion and, 202–206
 - ranking as valued personal quality, 22
 - recipe for evolution of, 110–111
 - relationship of Christianity to, 208–213
 - relationship of Islam to, 219–220
 - as result of environmental changes, 18–19
 - scientific publications since 1996 on, 230
 - scriptures/popular piety on, 5
 - signals, 160–162
 - between states, 181–201
 - study on Jewish, 232–233
 - Time* magazine survey (1999) on, 23*fig*
 - Waorani society's development of, 213–215

- Forgiveness functions
 encouraging cooperation among nonrelatives, 90
 improving inclusive fitness, 89–90, 130
 relationships preserved through, 116, 124–127
- Forgiveness instinct
 activating the, 155–156, 224
 benign intent hypothesis as applied to, 124
 careworthiness as a foundation of, 147–149
 expected value as a foundation of, 149–153
 perceived safety as a foundation of, 153–154
 valuable relationship hypothesis as applied to, 124–127
- Forgiveness signals
 apologies as, 162–168
 compensation as, 171–175
 description and research on, 160–162, 225
 self-abasing displays and gestures as, 168–171
 among the Waorani people, 215
 in world politics, 182–183
- Forgiveness Within and Between States
 applying revenge/forgiveness principles to, 181–183
 expanding circle principle applied to, 190–193
 reconciliation between states and, 186–190
 revenge controlled by states for, 183–186
 Seeds of Peace program for encouraging, 199–201
 truth and reconciliation commission for encouraging, 230–231
 truth/revelations required for, 186–188
- Franco-Prussian War, 36
 Franklin, Benjamin, 236
- Free-rider problem, 56–61
 Frijda, Nico, 12
- G**
- Game theory
 applied to predator inspection in guppies, 90–92*fig*
 contrite tit-for-tat strategy of, 102
 firm-but-fair strategy of, 102
 generous tit-for-tat strategy of, 101, 102, 106, 110
 Nash Equilibrium of, 94, 95
 “noise” concept in, 99–103
 origin of, 94
 “Pavlov” strategy of, 101–102, 110
 “three strikes” rule of, 103–106
 tit-for-tat strategy of, 95–99
 See also Prisoner’s dilemma
- Garrison, John, 235
 General Social Survey (1998), 204
 Generous tit-for-tat strategy, 101, 102, 106, 110
- Genetic drift (or neutral selection), 46–47
 Genetic variation, 44–45
 Geronimo (Apache warrior), 145
 Golden Rule, 100
Good Natured (de Waal), 2
 Good vs. evil debate, 1–2
 Goodall, Jane, 3
 Gossip, 107
 Grim, Patrick, 105–106
- Groups
 cooperation benefits for, 195–199
 ingroup favoritism by, 193
 religions conceptualized as “adaptive,” 208
 Robbers Cave study on interactions between, 193–195, 198, 199
 See also Societies; State
- Gulf of Tonkin attack, 37
 Gun violence
 cultural differences related to, 52–54
 school-based killings and, 33–35, 243n.30
- Guppies, 82–85

H

- The Hague, 150
 Haldane, J.B.S., 90, 147
 Harris, Eric, 34
 Hearing system, 67–68
 Hebrew Bible
 concubine story in the, 216–219
 studies on revenge motivated by,
 218–219
 Heemeyer, Marvin John, 20–21, 22,
 24, 39, 61, 72
 Heemeyer's killdozer rampage
 (2004), 20–21, 61
 Henrich, Joseph, 106
 Herding cultures, 53, 232
 Hess, Walter, 135
 Hitler, Adolf, 37
 Holocaust, 198, 232–233
 Homicides
 examining the motives behind,
 30–31
 FBI statistics on, 29–30
 historical data on Western
 European, 183–184
 premeditation of, 30
 retaliatory, 31–33, 242n.27
 school-based killings, 33–35,
 243n.30
 statistical analysis on child victims
 of, 248n.2
 See also Aggression; Revenge-
 motivated homicides; Violence
Homo ignoscens, 224, 225, 236, 237
Homo sapiens
 classification of, 224
 context-sensitivity of, 225–227
 continued evolution of
 forgiveness among, 236–237
 CT (Conciliatory Tendency) in,
 120–121
 desire for revenge in species other
 than, 78–85
 forgiveness signals expressed
 by, 160
 possible future challenges faced
 by, 234
 See also Human nature
Homo ultor, 225, 236
 Hong Kong homicides, 31
 Honor
 apologies as restoring/reducing,
 167, 178
 cultivated by herding culture,
 53, 232
 defense of, 70–71
 definition of, 69
 personal revenge as defense of, 71
 predicted disappearance of,
 69–70
 violence of white Southerners to
 defend, 53–54, 245n.27
 Horney, Karen, 6, 7
 HRAF (Human Relations Area Files)
 Probability Sample, 74–75, 122,
 249n.22
 Hruschka, Dan, 106
 Human brain
 planning revenge and the,
 141–143
 process of apology and impact
 on, 167
 seeking system and rage circuit of
 the, 134–137
 Human nature
 debates about, 1–2
 forgiveness as built-in feature of,
 13–15, 88, 224
 revenge and forgiveness as
 universals of, 9–12
 “unnatural” behavior and, 15–16
 See also *Homo sapiens*; Societies
 Human Relations Area Files, 168
 Human universals, existence of,
 72–73
 Hunter-gatherers, 122
 Hussein, Saddam, 179, 184, 185
 Hypothalamus, 136–137

I

- Inclusive fitness, 89, 90, 130
 Indirect reciprocity, 107–108
 Ingroup favoritism, 193
 Insulting essays experiment, 50–51
 International Criminal Court, 150

Iraq

- Kuwait invasion (1990) by, 179
- Sunni-Shi'ite rift in, 184–185, 205
- twenty-four-point plan for reconciliation (2006), 182

Iraq War

- Foreign Claims Act (1942)
 - reparations paid during, 157, 158
- honor justification of, 70
- killing of security contractors (2004) in, 144–145
- revenge-fueled homicides during, 184–185
- solatia payments made during, 158–159

See also War

Ireland

- cross-group friendships in, 197
- homicide rates in, 30
- Irish Republic Army (IRA)
 - apology for noncombatant deaths, 182–183

Islam

- attitudes regarding revenge and forgiveness by, 219–220
- bin Laden's "letter to America"
 - citing, 205–206
- Pew Global Attitudes project (2005) on Muslims' defense of, 206
- as religion of peace, 205
- See also* Muslims; Religion

J

Jacoby, Susan, 5, 71

Japanese macaque, 81–82

Japanese state apologies, 182

Jefferson, Thomas, 236

Jesus of Nazareth

- Arendt-Vonnegut hypothesis of forgiveness and, 112, 113
- Christian bitterness toward Jews over crucifixion of, 205, 211–212
- forgiveness as practiced by, 208–213

task of extracting the historical, 258n.18–259n.18

See also Christianity

Jewish people

- beliefs about forgiveness among, 232–233
- blamed for death of Jesus, 205, 211–212
- Holocaust suffered by, 198, 232–233

John 8, 209

John Paul II, Pope, 182

Jones, Shavod, 149

Josephus, 210, 211

Judaism

- Christianity as offshoot of, 210
- on forgiveness, 5, 232–233

See also Religion

Juergensmeyer, Mark, 220

Justice

- reconciliation facilitated by, 187–188
- restorative, 176–178, 179–180, 231

Justifications, 163

K

Kalmyk (Russian ethnic group), 120

Kaloyev, Vitaly, 41–43, 61, 72

Keeley, Lawrence, 198

Keltner, Dacher, 168, 169

Killings. *See* Revenge-motivated homicides

King, Martin Luther, Jr., 204

Kipling, Rudyard, 65

Klamath Indians, 122

Klebold, Dylan, 34

Köhler, Wolfgang, 116–117

Kony, Joseph, 150

Kosovar Albanians

- feelings of revenge among, 24–25
- mental health of, 8

Kraybill, Donald, 203

Kubrin, Charis, 31

Kurzban, Robert, 196

Kuschel, Rolf, 169

Kuwait invasion (1990), 179

L

- Lazare, Aaron, 166, 167
 League of Nations, 37
 "Letter to America" (bin Laden),
 38, 205
 Lewinsky, Monica, 164
 Lieberman, Joseph, 164
 Linnaean classification system, 224
 Linnaeus, Carolus, 224
 Long, William, 186, 187, 188, 189, 190
 Lop Buri zoo exhibit (Thailand),
 16–17
Lord of the Flies, 3
 "Lord's Resistance Army" (Uganda),
 149–151
 Lott, Trent, 165–166, 178
 Luke 5:31–32, 209
 Luke 7, 209
 Luke 23:34, 211
 Luke 23, 209
 Luttrell, Lesleigh, 79, 80, 81

M

- Maladaptive, 47
 Male bonding, 3
 al-Maliki, Nouri, 182
 Mallard, Chante, 203–204
 Mark 14, 209
 Matthew 9, 209
 Matthew 27:22–25, 211
 McDonald, Steven, 149
 Medellín (Columbia) revenge
 homicides, 32
 Mennonites, 221
The Mentality of Apes (Köhler), 117
The Merchant of Venice (Shakespeare),
 72, 137
 Moore, Steve, 171–172, 173, 178
 Moralistic enforcement, 58
 Morality (chimpanzee), 2–3
 Motivation
 benign intent hypothesis applied
 to forgiveness, 124
 religion as motivator for revenge,
 216–219
 for retaliatory homicides, 31–33

- revenge as war, 35–38
 revenge role in terrorism, 38–39
 of school-based killings, 33–35
 selection and transmission of
 revenge, 11
 valuable relationship hypothesis
 applied to forgiveness, 124–127
See also Revenge; Revenge-
 motivated homicide
 Muhammad, 219
 Muslims
 feelings of rage over Crusades, 205
 Pew Global Attitudes project
 (2005) on beliefs of, 206
See also Islam
 Mutual intergroup differentiation, 199

N

- Nagy, Tamer, 200, 201
 Nail-biting, 128
 Nash equilibrium, 94, 95
 Nash, John, 94
 Native Canadians, 198–199
 Natural selection
 context-sensitivity as result of,
 225–226
 desire for revenge as result of,
 43–45
 as explanation for revenge,
 11–12, 13
 forgiveness as result of, 16
 forgiveness toolkit as result of,
 132–133
 prisoner's dilemma as tool for
 modeling, 113–114
 prisoner's dilemma as "tinkertoy
 model" of, 131
 rewards of revenge and, 146
See also Evolutionary biology
 "Naturalistic fallacy" regarding,
 12–13
 Neumann, John von, 94
 Neutral selection (or genetic drift),
 46–47
 Nicholson, John, 159, 160
 Nickel Mines, 203

Niebuhr, Reinhold, 221, 222
 Nielsen, Peter, 41, 42, 61
 "Nigerian bank scams," 192
 Nisbett, Richard, 52, 53, 54
 "Noise" in the prisoner's dilemma,
 99–103
Nonzero (Wright), 191, 192
 Nowak, Martin, 100, 101, 102,
 160–161, 233

O

Observer newspaper (UK), 205
 Offenders. *See* Transgressors
 Organized crime violence, 185–186
*The Origin and Development of the
 Moral Ideas* (Westermarck), 73
The Origin of Species (Darwin), 10
 Otis, James, 235
 Otterbein, Charlotte, 74, 75
 Otterbein, Keith, 74, 75

P

Panksepp, Jaak, 134, 136
 "Pavlov" strategy, 101–102, 110
 Pawnee Indians, 122
 Pearl Harbor, 37
 Perceived safety, 153–154
 Perpetrators. *See* Transgressors
 Peterson, Dale, 2, 3, 13, 119
 Pew Global Attitudes project
 (2005), 206
 Philo of Alexandria, 210, 211
 Planning revenge
 brain and process of, 141–142
 frustration of thwarted, 142–143
 Pontius Pilate, 210–211
 Poundstone, William, 93
 Predator inspection
 described, 83
 game examining costs and
 benefits of, 90–92 *fig*
 among guppies, 83–85, 90–92
 Premeditation, 30
 Primates (nonhuman)
 aggression and attraction among,
 119–120
 chimpanzee morality, 2–3

CT (Conciliatory Tendency) of,
 119, 126
 desire for revenge in, 79–82
 Köhler's observations regarding
 forgiveness among, 116–117
 rhesus macaques, 50, 79–82, 229
 self-directed behaviors by, 127
 stump-tailed macaques, 79–82,
 120, 229
 valuable relationship hypothesis
 applied to forgiveness among,
 125, 126
See also Chimpanzees
 Prisoner's dilemma
 Axelrod's research on iterated,
 95–96
 compensation applied to, 173–175
 everyday examples of, 93–95
 implications for natural selection,
 113–114
 make-believe quandary of, 93
 predator-inspecting guppies as
 example of, 92 *fig*
 as "tinkertoy model" of natural
 selection, 131
 tit-for-tat strategy as solution to,
 95–99
See also Game theory
 Prussian Academy of Science, 116
 "Psychiatric Problems Following
 Bereavement by Murder or
 Manslaughter" (Parkes), 6

Q

Al Qaeda, 39, 205
 Qur'an, 220

R

Rabbit hunting, 57
 Race categorization, 196–197
 Rage circuit, 134–136
 Rapaport, Anatol, 95
 Recategorization, 197–199
 Reciprocity
 cooperation through indirect,
 107–108
 forgiveness benefit of direct, 106

- Reconciliation**
 comparing forgiveness and, 115–116
 de Waal on nonhuman primates and, 118–119
 definition of, 115
 examining universality of, 121–124
 national process of, 186–188
 partial justice leading to successful, 187–188
 signals to communicate desire for, 160–175
 signature styles of nonhuman primate, 120
 between states, 188–190
 truth and reconciliation
 commissions as facilitators of, 230–231
 Yanomanó people practice of, 123, 250n.26
See also CT (Conciliatory Tendency)
- Refusals**, 163, 164
- Relationships**
 acts of forgiveness within, 14
 aftermath of interpersonal transgressions in, 14–15
 battered women in abusive, 152–153
 cultural codes regulating, 53–56
 expanding the circle of, 190–193
 expected value of, 149–153
 Foreign Claims Act (1942) on preserving, 158
 forgiveness to preserve, 116, 124–127
 “friends and neighbors” vs. “strangers and enemies,” 190–191
See also Cooperation
- Relatives.** *See* Families
- Religion**
 evolutionary biology on functions of, 206–208
 Sunni-Shi’ite rift, 184–185, 205
 understood as “adaptive groups,” 208
 understood as living systems, 220–223
 as vengeance engine, 216–219
See also Christianity; Islam; Judaism
- Reputation**
 cooperation through, 107–109
 indirect reciprocity and dynamics of, 108
 “Respect” (code of the street), 55
 Restorative justice movement, 175, 176–178, 179–180, 231
- Retaliatory behavior**
 between different species, 82
 homicides as, 31–33
 by white Southerners over honor, 53–54, 245n.27
- Revanche* (Franco-Prussian War), 36–37
- Revenge**
 as cause of war, 35–38
 Christianity’s relationship with forgiveness and, 208–213
 compensation as providing satisfaction to quell, 173–175
 as conditional adaptation, 132–133, 155
 costs of, 25–26
 definition of, 21–22
 evidenced in other species, 78–85
 perceived as abnormal, 4–5
 planning, 141–143
 relationship of Islam to, 219–220
 rewards of, 143–146
 thwarted plans for, 142–143
 as universal feature of human nature, 9–12, 72–78, 121
See also Desire for revenge; Motivation
- Revenge models**
 disease model of revenge, 5–7, 22, 112–113
 evolutionary explanation of revenge, 11–12, 13, 16
 Standard Social Science Model of, 8–9

Revenge-motivated homicide
 analysis of international rates of, 30–31
 classifications of, 31–33
 cross-cultural prevalence of, 29
 FBI statistics on, 29–30
 school-based killings as, 33–35
See also Motivation
 “Revenge script,” 37–38
 Revenge as solution
 to adaptive problems, 48–49
 by coercing free-riders to cooperate, 56–61
 by deterring aggressors, 49–51
 by warning would-be harmdoers, 51–56
 Revolutionary War, 235–236
 Rhesus macaques
 cultural learning by, 229
 “food calls” by, 50
 revenge study comparing other primates to, 79–82
 Richerson, Peter, 198
 Robbers Cave study (1954), 193–195, 198, 199
 Rousseau, Jean-Jacques, 57
 Rovinskii, P., 170
 Russert, Tim, 70

S

Scarfo, Eddie, 145
 Scheff, Thomas, 36–37
 Schönbach, Peter, 163
 School-based killings, 33–35, 243n.30
 Secondary adaptations, 207
 Seeds of Peace program, 199–201
 “Selection thinking”
 described, 43–44, 61
 variation, inheritance, and selection as elements of, 44–45
 Self-abasing displays, 168–171
 Self-directed behaviors, 127
 Seligman, Martin, 13
 September 11, 2001, 32, 37
 Serbian “Forgiveness Day”
 tradition, 123
 Shakespeare, William, 72, 137
 Shame, 168–169
 Sherif, Muzafer, 193
 Sherzai, Gul Agha, 159
 Shriver, Donald, 212
 Sigmund, Karl, 100, 101, 102, 160–161
 Silk, Joan, 80, 124
 Singer, Peter, 192, 193
 Smith, Adam, 10
 Societies
 building “forgiving,” 180
 dictator game generosity linked to fairness across, 77–78
 honor cultivated by herding culture, 53
 ingroup favoritism within, 193
 legal system protecting interests of, 71
Nonzero’s futuristic view of, 191–192
 Otterbeins’ “revenge-absent,” 74–75
 revenge as coercing cooperation within, 56–61
 war as related to complexity of, 36
See also Groups; Human nature
Solatia (condolence payments), 158–159
 South Africa
 apartheid of, 213
 truth and reconciliation commission of, 230–231
 Spanish-American War (1898), 37
 St. Louis retaliatory homicides (1985–1995), 31, 32–33
 Standard Social Science Model, 8–9
 State
 control by Saddam Hussein’s government, 184–185
 control over organized crime violence by, 185–186
 power differential between, 189–190
 violence controlled by monopoly of force of, 183–184
See also Groups

Strang, Heather, 175–176, 177
 Street-code beliefs, 54–56
 “Stub” (heroin dealer), 55–56
 Stumptailed macaques, 79–82,
 120, 229
 Sunfish, 82–83
 Sunni-Shi’ite rift in Iraq, 184–185, 205

T

Terror in the Mind of God
 (Juergensmeyer), 220
 Terrorism
 revenge motives for bombings
 and, 243n.45–244n.45
 revenge’s role in, 38–39
 September 11, 2001, 32, 37
 World Trade Center bombing
 (1993), 220
 See also Violence; War
 Testing for revenge in primates,
 79–82
 Thai society (Asia), 75, 76
 Theoretical biology. *See* Evolutionary
 biology
 “Thin slice” of experience
 human hearing as response to,
 67–68
 human revenge as response to,
 68–72
 principle of, 66–67
 Third-party punishment game, 77
 Thumb-sucking, 128
 “Three strikes” rule, 103–106
 Thurbrand the Hold, 62–63, 70, 72
 Thurmond, Strom, 165
Time magazine survey (1999), 23*fig*
 Tit-for-tat strategy
 description and application of,
 95–96
 forgiveness as element of, 98–99
 success of, 97–98
 Tooby, John, 8
 Transgressors
 apologies by, 162–168
 blushing by, 154, 168
 careworthiness of, 147–149

 compensation made by, 157–160,
 171–175
 expected value of relationships
 with, 149–153
 justice reached by legal
 consequences for, 187
 perceived safety of, 153–154
 reconciliation signals
 communicated by, 160–162
 risks of appeasement for, 178–180
 self-abasing displays and gestures
 by, 168–171
 Treaty of Versailles, 37
 Tribal workaround, 198
 “Trust game” study, 137–139
 Truth and reconciliation
 commissions, 230–231
 Ture River (Trinidad), 83–85
 Tutu, Archbishop Desmond, 204
 Twain, Mark, 146, 168

U

Uhtred of Bamburgh, 62–64, 70, 72
 U.N. Security Council, 188
 U.N. Security Council
 Resolution 1441, 70
 United Nations, 188, 256n.17
 United States Institute of Peace, 231
 United States Secret Service, 35
 Universals of forgiveness
 apologetic language as, 162–163
 examining reconciliation and,
 9–12, 121–124
 Universals of revenge
 blood revenge as, 74–76, 121
 examining, 9–12, 72–73
 societal punishment as, 76–78
 Westermarck treatise on, 73–74
 University of Michigan “chicken
 game” experiment, 54

V

Valuable relationship hypothesis,
 124–127
 “The Value of Vindictiveness”
 (Horney), 6

- Vancouver Canucks (hockey team),
171, 172, 173
- Vendetta (blood revenge), 74–76
- Vengeful thoughts
bullying as cause of, 35
as conduit for pain, 39–40
physiological impact of, 6, 7
See also Desire for revenge
- Victims
activating the forgiveness instinct
in, 155–156
apologies made to, 162–168
careworthiness as facilitator of
forgiveness for, 147–149
as estranged from criminal justice
process, 175–176
expected value of relationship
as facilitator of forgiveness for,
149–153
motivation to forgive among,
124–127
perceived safety as facilitator of
forgiveness for, 153–154
restorative justice benefits to,
176–178
risks of appeasement and, 178–180
- Vietnam War, 37
- Violence
cultural differences regarding,
52–54
guns, 33–35, 52–54, 243n.30
See also Aggression; Homicides;
Terrorism
- Virginia Tech massacre (2007), 7, 33
- Vonnegut, Kurt, 112
- W**
- Waltheof, Earl, 64
- Waoorani people (Ecuador), 76,
213–215
- War
Afghanistan War, 157, 158–160
Chechnya War, 38–39
desire for revenge as cause of,
35–38
Franco-Prussian War, 36
“revenge script” leading to, 37–38
societal complexity as related to, 36
solatia (condolence payments)
made during, 158–159
U.N. Security Council Resolution
1441 and, 70
World War I, 36–37
See also Iraq War; Terrorism; World
War II
Warning function, 51–56
Weitzer, Ronald, 31, 32
West Side Story (film), 3
Westermarck, Edvard, 73–74
Wild Justice (Jacoby), 71
William the Conqueror, 29
Williams, George, 46
Wilson, David Sloan, 122, 131, 208,
222, 258n.17
Wilson, Margo, 30, 31, 43, 75, 76,
77, 173
Wine-tasting study, 142–143
World Trade Center attacks (2001),
32, 37
World Trade Center bombing
(1993), 220
World War I
revanche as cause of, 36–37
Treaty of Versailles ending the, 37
World War II
Foreign Claims Act (1942),
157–158, 160
hatred and forgiveness during,
15, 16
Holocaust during, 198, 232–233
Pearl Harbor “revenge script”
during, 37
See also War
Wrangham, Richard, 2, 3, 13, 119
Wright, Robert, 11, 12, 46, 191,
192, 193
- Y**
- Yanomano people (Venezuela/
Brazil), 123, 250n.26
Yerkes National Primate Research
Center (Emory University), 4