

Index

- Aaron, the brother of Moses, 227
 Abua tribal peoples. *See* possession, spirit possession; masking rituals and; sacredness of mask makers
 Acheulean tradition. *See* ritual, tools
 adolescence
 development of cognitive functions, 243–244
 development of frontal and temporal lobes, 242
 religiosity, 242
 agency. *See* Self, agency
 hyper-active agency detection device, 194. *See also* God concepts
 agent
 full strategic access, 194
 intellect, 24, 40–43
 and the executive Self, 41
 supernatural, 193. *See also* dream characteristics
 akrasia, 22, 43, 74
 Al-Balkhi, Shaqiq. *See* Islamic mystical practices
 alien hand syndrome. *See* Self, breakdown of the executive Self
 Al-Tirmidhi, Al-Hakim. *See* Islamic mystical practices
 amygdala, 64
 as part of the mesocortical system, 157
 connections of the, 127–128
 disorders enhancing religious experience and, 106
 glossolalia and, 125
 hallucinogens and, 134
 in neurochemistry of frontal lobes, 141
 meditation and, 126
 neuroimaging of religion and, 108
 regulation of emotion, 128
 religious expression and, 127
 role in frontotemporal dementia, 102
 role in religiosity, 90, 94, 105, 127, 233
 role in Temporal Lobe Epilepsy (TLE), 91, 93, 97
 schizophrenia and, 96
 ancestor worship, 226
 Andalusia, 7
 Andamanese. *See* possession, the double, immortal soul
 Anneliese, Michel. *See* *The Exorcism of Emily Rose*
 anterior cingulate, AC, 61
 supragenual part, SAC, 61
 anterior temporal cortex, 60, 61
 executive role of the, 62. *See also* prefrontal cortex

- Aquinas, Saint Thomas, 39–43
 and agent intellect, 40–41
 and free Will, 40, 42–43
 attachment dynamics, 17
 autobiographical memory, 26, 255
 autoscapy, 186. *See also* doppelganger;
 out-of-body experiences;
 possession, the double
- basal ganglia, 63–64. *See also* Tourette's
 syndrome
 activation in OCD, 98
 and neuroimaging of religion, 108
 influence on frontal lobes, 141
 role in religiosity, 105
- behaviors
 approach/avoidance, 25
 costly religious, 30–31
 discrepancy reduction, 25
 free rider strategies, 30–32
 goal directed, 26
 intentional acts, 42
- Belief Box, 48, 49
- beserkers. *See* dissociation
- binding, 53
- biology of religion, 9–10
- bipolar disorder
 and decentering, 77–78
- brain correlates. *See* sense of self
- brain evolution
 developmental constraints' model,
 257
- catechol-O-methyltransferase, COMT,
 139, 142
- cerebellum, 64
 activation patterns in, 127
 and neuroimaging of religion, 108
- cerebral torque, 255
- childhood
 course of religious development
 contrasted with play
 development, 238
 development of sense of Self. *See also*
 Self
 analysis of self-development, 239
 Loevinger on, 238
 dreaming. *See* dreaming, in childhood
 evolution of, 238
 five to seven year shift, 237
 hominid adaptation, 237
 pretend play, 238
 theory of mind abilities, 233
 choice, 27
- cladistic methodology, 252
- coalitional cooperation. *See* theories of
 religion, promoting
 cooperation
- cognitive architecture, 47, 48, 64, 81
 model of Nichols and Stich, 47
- Cohen Modal Haplotype (CMH), 227
- conflict
 genetic, 34–37. *See also* conflict,
 internal; meiotic drive
 Haig on, 36–38
 internal, 34–35. *See also* conflict,
 genetic
 Haig on, 34–35
 intragenomic, 36–38
 resolution, 25
- cooperation
 costly signaling theory and, 5
 counterfactual sensitivity, 19
 counterfactual test of rationality, 17,
 19
- CST. *See* costly signaling theory
- debunkers. *See* Self, executive
- decentering, 5–6, 60, 74, 192. *See also*
 ritual, decentering; bipolar
 disorder; Multiple Personality
 Disorder (MPD)
- altered states of consciousness and,
 56–58
- attentional systems and, 45–46
- dissociation and, 56–58
- dreaming and, 204–205
- four stages of, 46–47
- function of, 45
- inhibition of agency and, 46
- integration in, 47
- mechanisms and dynamics of, 44–49
- narrative and, 210–211
- negative possession and, 179, 184
- normal and abnormal religious
 experiences, 191–192
- phenomenology of religious
 experience and, 151
- Possible Worlds Box and, 47
- religious emotions and, 55–56

INDEX

293

- religious language and, 208–210
- risky effects of, 57–58
- ritual, 219–221
- ritual and, 212–213
- search in semantic memory, 47
- speech acts and, 208–210
- state transition disorders and, 177
- the executive Self and, 44–45
- trance and, 56–58
- unusual identity phenomena and, 185
- deliberative reasoning, 39
- delusion. *See* religious delusions
- delusions. *See* schizophrenia
- derived traits, 252
- Desire Box, 48, 49
- developmental constraints' model of brain evolution, 257
- Dieri peoples. *See* ritual, initiation rites
- discrepancy reduction process, 44, 47, 50
- dissociation, 165
 - beserkers as an example of, 165
 - spirit possession and, 169–170
- dissociative identity disorder, DID. *See* dissociation; Multiple Personality Disorder
- divided Self. *See also* Self, divided
 - as cognitive problem, 23–24
 - as emotional problem, 23–24
- Dogon tribal peoples. *See* possession, spirit possession; masking rituals; sacredness of mask makers
- dopamine. *See* neurotransmitters
- doppelganger, 186. *See* autoscapy; possession, the double
- dorsomedial prefrontal cortex, DMPFC, 61
- Dostoevsky. *See* possession, the double
- double. *See* doppelganger; possession, the double
- dream characteristics
 - as 'minimally counterintuitive', 203–204
 - as 'persons', 198
 - as supernatural agents, 200–204
 - autonomy of, 196–197
 - status of among ancestral and pre-modern societies, 197–198
- dreaming
 - decentering and, 204–205
 - in childhood, 234–236
- dreams
 - in childhood
 - auditory message, 235
 - imaginary friends and, 235
 - in traditional societies, 200–204
 - Hausa, 202
 - Ingessana, 202
 - Kwaio, 202
 - Quiché Maya, 200
 - Temne, 201
 - Tikopia, 200
 - Toraja, 201
 - Yansi, 201
 - Zuni, 200
- East Indian Islanders. *See* possession, the double, immortal soul
- ECF. *See* executive cognitive functions
- ecstasy, as a religious emotion, 55–56
- Edo tribal peoples. *See* possession, spirit possession; masking rituals and; sacredness of mask makers
- elevation, as a religious emotion, 55
- Enlightenment period, 7
- entheogens, 134–135. *See also* hallucinogens
 - role in religious experiences, 137–139
- environmental dependency syndrome. *See* Self, executive, breakdown of the executive Self
- epilepsy
 - and religiosity
 - case studies, 82–88
 - ecstatic seizures, 91
 - case studies, 91–93
 - religiosity and, 81–94
 - seizures
 - Persinger on religious experiences, 129
- Temporal Lobe Epilepsy (TLE), 3, 82, 91–100, 106, 128. *See also* hyperreligiosity; religious expression, disorders and the hippocampus, 91 as compared to Klüver-Bucy Syndrome, 89–91

- epilepsy (*cont.*)
 Bear and Fedio on hyperreligiosity and the limbic system in TLE, 90
 Gastaut on, 89
 Geschwind on, 89
 hippocampus and, 93–94
 hyperconnectivity model of TLE, 90–92
 hypergraphia, 89
 hyposexuality, 89
 irritability, 89
 temporal lobectomy, 87
- eschatology, 226
- exaptation, 253
- executive cognitive functions, ECF. *See also* religious practices
 development of, 244
 failure of the
 commission of sin and, 157–158
 empathy and perspective-taking, effect on, 159–160
 planning, optimism and hope, effect on, 160–161
 pro-social behaviors, effect on, 158
 resistance to interference, effect on, 160–161
 religiosity in self-transformation and, 156–163
 theory of mind and, 161
- Exorcism of Emily Rose, The* (film), 176
- Exorcist, The* (film), 174
- face, 217
 negative, 218
 positive, 218
 threatening act, 218
- five to seven year shift, 237
- free riders, 30–32, 164–166, 194–195, 250, 258. *See also* behaviors
- Freud, Sigmund, 51
- frontotemporal dementia (FTD), 102
 and religiosity, 102–105
- functional imaging techniques, 107
 fMRI, 107
 PET, 107
 SPECT, 107
- Gallas peoples. *See* ritual, initiation rites; ritual, sacrifice
- genetic conflict. *See also* internal conflict
- genomic imprinting. *See* conflict, intragenomic
- Gilgamesh, epic of, 51–52
- glossolalia, 108, 124, 179, 208
- God
 encounter with, 16
 interacting with man, 1
- God concepts, 193
 dreams as sources of, 196
 God as policeman theory, 195
 minimally counter-intuitive, 194
 Self as a prerequisite for, 194–195
- Golyadkin. *See* possession, the double, Dostoevsky's novel *The Double*
- gratitude, as a religious emotion, 55
- Haig, David, 22
- hallucinogens, 15. *See also* entheogens
 case studies of religiosity and, 135–136
 the brain and, 134–135
- Hausa. *See* dreams, in traditional societies
- hemispheric encoding/retrieval asymmetry, HERA, 61
- HERA. *See* hemispheric encoding/retrieval symmetry
- hippocampus, 64
 activation of, 129
 disorders enhancing religious experience and, 106
 hallucinogens and, 134
 religious expression and, 127
 role in Temporal Lobe Epilepsy (TLE), 91, 93–94
 role of, 129
 schizophrenia and, 96
- historical consciousness. *See* ritual, historical consciousness
- hominid adaptation, 237
- Huichol Indians, 131–132
 ecstatic religious practices
 peyote use, 131–132
- hypergraphia, 15, 100
 and Temporal Lobe Epilepsy (TLE), 89
- hyperreligiosity, 3, 99. *See also* obsessive-compulsive disorder (OCD); schizophrenia; epilepsy: Temporal Lobe Epilepsy (TLE)

INDEX

295

- hyposexuality
 and Temporal Lobe Epilepsy (TLE), 89
- Ibo tribal peoples. *See* possession, spirit possession; masking rituals; sacredness of mask makers
- ideal Self. *See also* Self, ideal
 as crucial for self-regulation, 24
- Ignatius of Loyola, 155
- inference making system, 50
- Ingessana. *See* dreams, in traditional societies
- insula, 61
- internal agents, 34. *See also* conflict, genetic; conflict, internal
- intracarotid amobarbital test (WADA), 61
- irritability
 and Temporal Lobe Epilepsy (TLE), 89
- Islamic mystical practices
nafs as Islamic equivalent of Self, 152–155
 Shaqiq al-Balkhi on transformation of the, 154–155
 role of the Sufis, 152–156
 Al-Hakim al-Tirmidhi, 155–156
 Substitutes in, 153
- James, William, 14–15, 81–82, 138
 on the divided Self, 32–34
- Jung, Carl, 51
- Karo Bataks. *See* possession, the double, immortal soul
- Kohanim traditions, 227
- Kung San trance/dance/healing rituals, 172. *See also* Umbanda
- Kwaio. *See* dreams, in traditional societies
- Langda village. *See* ritual, tools
- limbic system, 62, 63–64
 anti-psychotic medications and, 139
 influence of 5-HT, 144
 neuroimaging of religion and, 108
 overactivation in OCD, 98, 102
 regulation of, 127, 216
 religiosity and, 90
 role in psychosis, 96
 role in religiosity, 105, 127
 schizophrenia and the, 96–97
- liturgy. *See* religious language
- loa*, 172, 177–179. *See also* possession, spirit possession
Marinette-bwa-chech, 178
 Melle Charlotte, 178
Lophophora williamsii. *See* peyote
- LSD. *See* religious experiences, brain
- ma'maro. *See* Umbanda
- masking. *See* possession, spirit possession; masking rituals
- medial prefrontal cortex, 61
- meiotic drive, 36
- mescaline. *See* religious experiences, brain
- methylenedioxymethamphetamine. *See* religious experiences, brain
- mosaic evolution, 257
- Multiple Personality Disorder (MPD)
 and decentering, 74–78
 case studies, 75–77
- multiplicative function for apparent duration. *See* ritual, temporal cognition
- N, N-dimethyltryptamine. *See* religious experiences, brain
- Nagas. *See* possession, the double, immortal soul
- negative fitness covariance, 35
- neuroanatomy
 of the Self, 60–62
 overlap with religiosity, 145–146
- neuroimaging studies
 of religious experience, 59–72
- neurotransmitters
 dopamine
 DRD4 receptor gene, 143
 effects of hallucinogens, 134–135
 ritualization and, 217
 role in neuropsychiatric disorders, 141
 VMAT2 transporter gene, 143
- production of religious experiences, 139–141
- serotonin
 5-HT1A receptor, 139
 5-HT2A receptor, 140
 imprinting of the, 140
 effects of hallucinogens, 134–135

- neurotransmitters (*cont.*)
 role in neuropsychiatric disorders,
 141
- nucleus accumbens circuit (NAC), 96
- obeahman. *See* possession
- obsessive-compulsive disorder (OCD), 4,
 97–102, 141, 216. *See also*
 hyperreligiosity; religious
 expression, disorders
 and religiosity, 97–102
 Boyer and Liénard's model ritualistic
 behaviors in, 98
 neural activation in, 98
 neuroanatomy
 caudate nucleus, 98
 orbitofrontal cortex, 98
 scrupulosity and OCD case studies,
 99–102
- Odysseus, legend of, 52
- Ogu, 177
- Oldowan tradition. *See* ritual, tools
- Omaha tribes people. *See* ritual,
 initiation rites
- orbital prefrontal cortex, 61
- out-of-body experiences, 186. *See*
 autoscapy
- Parkinson disease, PD, 63, 141
- Paul, Saint, 21–23, 44, 58, 102, 167,
 168, 191, 229
- PCI. *See* Phenomenology of
 Consciousness Inventory, PCI
- PET. *See* positron emission tomography,
 PET
- peyote, 132, 134. *See also* Huichol
 Indians
- Phenomenology of Consciousness
 Inventory, PCI, 149–150
- phylogenetic relationships, 252
- Poe, Edgar Allan. *See* possession, the
 double
- positron emission tomography, PET,
 60–62, 107–124
- possession, 167–192
 demonic possession, 4, 66–70, 170,
 173, 191. *See also* spirit
 possession, negative form of
 and divided Self, 70
 demons. *See also* loa
- Mahasona (the great demon of the
 graveyard), 183
- Riri Yaka (Blood Demon), 183
- obeahman, 181
- spirit possession, 26, 167, 171. *See also*
 dissociation
 as a cultural universal, 170
 features of, 172–173
 Haitian voodoo as a modern
 account of, 171–172. *See also*
 Umbanda
 masking rituals and, 170–171
 sacredness of mask makers, 171
 triggering of decentering, 171
 negative forms of
 and decentering, 179
 decentering and, 184
 negative state of, 168, 173–174
 as a breakdown in decentering,
 174
 brain disorders and, 169
 case studies of negative spirit
 possession, 177–184
 positive state of, 168, 173
 the double, 191. *See also* doppelganger
 as the immortal soul, 190
 Dostoevsky's novel *The Double*, 190
 Edgar Allan Poe's *William Wilson*,
 190
- Possible World Box, 48–49, 50, 57
 decentering and, 47
 placing self-concept in suppositional
 space and, 50
 reduction in agency and, 49
 posterior cingulate cortex, PC, 61
 practical reasoning system, 47
 precuneus, 61
 prefrontal cortex, 60, 61, 140–143
 executive role of the right, 62. *See also*
 anterior temporal cortex
- pretend play, 238
- pretense, 47–48
- primary motor cortex, PMC, 62
- Propp, Vladimir
 folktales structure and motifs, 51
- psilocybin. *See* religious experiences,
 brain
- Quiché Maya. *See* dreams, in traditional
 societies

INDEX

297

- religion
 adaptation, 248–251
 features, 248
 design complexity of the trait, 249
 proximate mechanisms, 249
 attachment and, 54
 brain and
 dysfunction. *See* religious expression, disorders
 in healthy individuals, 106
 cultural evolution, 255
 models of, 252
 cladistic methodology, 252
 phylogenetic analysis, 253
 phylogenetic relationships, 252
 ecstatic, 132–137
 role of shamanism in, 132–134
 evolution of, 248
 evolutionary models and schizophrenia, 94–96
 functions of, 10–14
 individuation, 163–164
 social cooperation, 163–164
 reason and, 6–9
 Kierkegaard on, 9
 reverse engineering mechanisms of, 10
 Self and, 1–5. *See also* Self, and religion
 overlap of anatomy, 256
 theories of, 4–7
 Bulbulia's theory of religious cognition, 73–74
 promoting cooperation, 30–32
 universal human trait, 9
 universality of, 249
 warfare and, 32
 religiosity. *See also* executive cognitive functions, ECF
 acquisition of, 231
 adolescence, 242
 association with specific brain networks, 250
 children and, 229–231
 course of religious development
 contrasted with play development, 238
 development of self, 241–242
 executive self, 230, 240
 impulse control, 230
 supernatural beliefs effortlessly acquired, 249
 teleology, 233
 toxic forms of, 231
 design complex, 250
 genetics and, 232
 healing and, 165–166
 music and, 242
 neurochemical model of, 143–144
 neuroimaging studies of, 107–130
 neurologic model of, 105–106, 127–130
 d'Aquili and Newberg on neuropsychologic models, 129
 Persinger on seizures and religious experiences, 129
 religiousness circuit, 129
 old age, 245
 partial heritability, 250
 transition to adulthood, 244–245
 religious cognition. *See also* religion, theories of, Bulbulia's theory of religious cognition
 brain localization, 80–81
 cognitive features of religious experiences, 15–16
 religious emotion, 53. *See also* decentering
 religious experiences
 brain, 2
 LSD, 128
 Serafetinides on the site of action of, 139
 mescaline, 128
 methylenedioxyamphetamine, 128
 N, N-dimethyltryptamine, 128
 psilocybin, 128
 regions, 6, 128
 serotonin, 128
 cognitive features of. *See* religious cognition
 creative process as a model for, 18
 decentering and, 58
 due to entheogens, 137–139
 Pahnke on, 137
 in people with brain damage, 17

- religious experiences (*cont.*)
 phenomenology of, 14–17, 148–151.
See also decentering
 Wildman and Brothers on,
 148–149
 quest aspect, 18
 role of neurotransmitters, 139–141
 truth value of subjective reports of,
 14–18
- religious expression, 127
 disorders, 3–4
 demonic possession, 4
 hyperreligiosity, 3
 obsessive-compulsive disorder
 (OCD), 4
 schizophrenia, 3
 Temporal Lobe Epilepsy (TLE), 3
- religious fanaticism, 57–58
- religious language
 Austin on, 208
 characteristics of, 206–207
 decentering and, 208–210
 Xavante peoples, 208
 function of, 207–208
 liturgy, 209
 narrative, 210–211
 Rappaport on, 209
 speech acts and, 208–210
 transformation of the Self and,
 209–210
- religious life
 growth, 17–19
- religious practices
 acquisition of executive cognitive
 functions and, 162–163
 and the transformation of Self,
 148–156
 decentering and, 53–54
 Bowlby and emotional attachment
 in, 54
 yoga, 53–54
- religiousness
 unpredictability and, 165
 retrosplenium, 61
- Riri Yaka. *See* possession, demons
- rites of passage, 242
- ritual
 canonical messages, 220
 decentering and, 53
 technical intelligence, 227
 features, 214
 goal demotion, 214
 historical consciousness and, 223–226
 Humphrey and Laidlaw on, 214
 in traditional societies, 213, 221–223
 indexical signs, 221
 initiation rites, 221
 intentionality and, 42
 Lawson and McCauley on, 215
 Liénard and Boyer on, 214
 neurobiology of, 216–217
 phylogeny of practices, 253
 politeness theory, 217
 Rappaport on, 214
 reproductive strategy, 226–227
 sacrifice and, 221–223
 saving face, 217–219
 self-referential messages, 220
 signaling behaviors, 216–217
 temporal cognition, 224–225
 multiplicative function for
 apparent duration, 224
 tools and, 228
 totem, 226
 transcendent order, 225
 types, 214–215
 doctrinal mode, 214
 imagistic mode, 215
 special agent rituals, 215
 special patient rituals, 215
 Whitehouse on, 214
- ritualization, 16, 216, 257
 dopamine and, 216–217
 roots in Self, 257
- schizophrenia, 3, 69, 94–99, 139–141,
 170, 187, 196, 244. *See also*
 hyperreligiosity; limbic system;
 religious expression, disorders
 adolescent onset of, 244
 and evolutionary models of religion,
 94–96
 Bulbulia's theories in relation to, 97
 McClenon on schizophrenic traits
 and religion, 95
 neuroanatomy, 96–97
 amygdala, 96
 Brüne on, 96
 Crow on, 95
 hippocampus, 96

INDEX

299

- limbic system, 96–97
- nucleus accumbens circuit (NAC), 96
- torque effect, 95
- Polimeni and Reiss on schizophrenic traits and religion, 95
- positive delusions, 94
- religiosity in, 94–97
- religious delusion in, 94
- Stevens and Price on schizophrenia as adaptation, 95
- scientist as lone hero, 7
- script elaboration system, 50
- scrupulosity. *See* obsessive-compulsive disorder (OCD)
- Segregation distortion. *See* meiotic drive seizures. *See* epilepsy
- Self. *See also* behaviors
 - agency, 5, 26–28, 38–39
 - cognitive models, 70–74
 - forward models of volition, 71–74
 - Dennett on, 27–28
 - Searle on, 39
 - arbiter, 38
 - as a signaling system, 247
 - co-evolution of language and, 255
 - construct of the, 6, 46, 53, 60, 192, 256
 - cultural achievement, 38, 254
 - current, 41, 47, 49, 50
 - development of, 241–242
 - divided, 22–24, 26, 29–30. *See also* demonic possession; James, William
 - von Balthasar on, 22–23
 - evolution of, 254–255
 - mosaic evolution, 257
 - executive, 5, 6, 28–29, 31, 40, 44–47, 78, 79, 165. *See also* decentering; agent intellect
 - as a cultural achievement, 146–147
 - as belief, desire and decision-making function, 48
 - breakdown of the executive Self, 64–70
 - alien hand syndrome, 65
 - delusions of control. *See* demonic possession
 - environmental dependency syndrome, 65–66
 - children and, 230
 - debunkers of, 146–147
 - evolutionary function of, 246–248
 - evolutionary functions of, 28–29
 - future, 24
 - ideal, 24–26, 41–43, 44–55, 58, 146, 151, 187, 192
 - Campbell on, 51
 - identity
 - constraints on search process, 51
 - stock of existing identities, 50
 - multiple drafts account, 27–28
 - narrative, 24
 - neurology of the, 59–79
 - optimal, 50
 - overlap of anatomy with religion, 256
 - perceptual device, 6
 - personalist idea, 1
 - Berdyaev on the, 1
 - platform for new cognitive capacities, 6
 - possible, 24–26, 45, 50, 53
 - prerequisite for God concepts. *See* God concepts
 - reflexive, 23
 - religion and, 1–5
 - reproductive fitness, 29–30
 - ritualization, 257
 - schemas, 24, 46
 - scientific study of the, 59
 - self-deception and the, 30, 73
 - self-regulation and the, 24, 25, 26, 156, 162, 213
 - sense of, 16, 17, 24, 26, 45, 56, 71, 74, 85, 86, 88, 107, 130, 132, 147, 180, 220, 238, 240, 241, 246, 257
 - brain correlates of, 60
 - cerebral torque, 255
 - inner speech, 255
 - theory of, 24–26
 - transformation of the, 1–2, 148. *See also* executive cognitive functions, ECF; religious practices
 - as a function of religion, 147–156
 - role in Islamic mystical practices, 152–154

- Self (*cont.*)
 unified, 25, 29–30, 146
 unified vs. disunified, 28–29,
 246–247
 warfare and, 32
 self-awareness
 evolution of, 254
 Self-concept, 24, 57
 the Possible Worlds Box and,
 47
 self-consciousness, 22, 23, 239, 246,
 247, 256
 self-monitoring, 27, 60, 158
 self-transcendence, 139
 temperament and character
 inventory, 139
 Cloninger on, 139
 self-transformation. *See* Self,
 transformation of the
 semantic memory, 45, 47, 50, 151,
 215
 sense of Self. *See also* Self
 serotonin. *See* neurotransmitters, *See*
 religious experiences,
 brain
 shamanism, 132–134
 use of rock and cave art, 134
 shared traits, 252
 social intelligence, 157
 sociopaths, 159
 sola scriptura, 8
 stone tool technologies, 227
 Sufis. *See* Islamic mystical practices
 supernatural agents, 3, 52, 53, 167, 169,
 175, 192, 194, 201, 204, 215,
 244, 249
 supplementary motor area, SMA, 62–64,
 160
 Temne. *See* dreams, in traditional
 societies
 temporal cognition. *See* ritual, temporal
 cognition
 temporal consciousness. *See* ritual,
 totem
 temporal lobectomy. *See* epilepsy
 theologians, Jewish, Christian and
 Muslim, 7
 theory of mind, 16, 20, 85, 126, 156,
 159, 161, 168, 173, 233, 240,
 249. *See also* executive
 cognitive functions, ECF
 circuit, 20
 theory of possible selves, 24. *See also*
 Self, possible
 theory of Self. *See* Self, theory of
 theory of self-regulation, 24. *See also*
 Self, self-regulation and
 the
 Tikopia. *See* dreams, in traditional
 societies
 Torah, 227
 Toraja. *See* dreams, in traditional
 societies
 torque effect. *See* schizophrenia,
 neuroanatomy, torque effect
 totem animal, 226
 Tourette's syndrome, 176
 transcortical motor aphasia, 63
 Tud peoples. *See* ritual, initiation rites
 Tukolor weavers. *See* ritual, tools
 ultimacy experiences. *See also* religious
 experiences
 Wildman and Brothers on, 148–149
 Umbanda, 172
 ma'maro ritual, 172
 updater box, 52
 values
 hierarchy of, 42
 VMAT2. *See* religiosity, genetics and
 volition. *See* Self, agency, cognitive
 models, forward models of
 volition
 voluntary acts
 anatomy of, 62–64
 voodoo. *See* possession, spirit possession
 WADA test. *See* intracarotid amobarbital
 test
 Will, 22, 26–27
 divided, 22–24
 Kierkegaard on, 22–23
 free, 27, 38–40, 42, 65, 74, 78. *See also*
 Aquinas, Saint Thomas
 William Wilson (Edgar Allan Poe). *See*
 possession, the double
 Wilyaru. *See* ritual, initiation rites
 working memory, 25

INDEX

301

Xavante. *See* religious language,
decentering and

Yansi. *See* dreams, in traditional
societies

yoga. *See* religious practices

Yogasutra of Patanjali, 54

Yukatec Mayan children. *See* theory of
mind, abilities in children

Zuni. *See* dreams, in traditional
societies