

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

Index

- Aboriginal peoples, 197
- aesthetics. *See also* art
 and art, 85–87, 99, 104–106
 and emotion, 114
 and material world, 5
 and senses, 105–106
- affordances, 167
- Africa, 193–194, 204–205. *See also*
 individual African countries/
 regions
- agency. *See also* material agency
- agriculture, 48–50, 57–59, 67, 94,
 200–211
- altered states of consciousness, 102,
 124–125
- analytic philosophy, 14
- Amazon, 78–79
- Anatolia, 35–37, 135, 137
- Ancestral Beings, 104
- ancient DNA, 208
- Andes, 63–64, 78–79
- animals
 in art, 33–37, 103, 125
 domestication of, 94, 134, 146, 156,
 197–202, 204
 in evolutionary studies,
 185–189
 tool use in, 212–216
- anthropology, 225, 229
 and aesthetics, 104–106
 and archaeology, 228
 of art, 139
 biological, 198–199
 and the body, 65–70, 80–81
 and cognitive science, 70, 87–92,
 227–228
- and deconstruction of symbolic
 approaches, 27, 38–39, 47–50,
 83–87
- ecological, 17, 76–81, 145, 151
 and emotions, 110, 112
 and evolution, 182, 198–199
 and experience, 87, 91–93
 and idealism, 13, 77
 and language, 44, 87–94
 and linguistics, 12
 and material culture, 17–19, 22, 44,
 93–94, 140, 152, 227
 medical, 27, 65, 68–70
 and post-modernism, 179
 and the senses, 97–98, 122–124
 structuralism and, 32–33, 39, 48
 and the superorganic, 15–16, 84
 textual metaphor in, 12, 44,
 92–93
- apes. *See also* primates
- archaeology, 8–9, 225–226, 229. *See also*
 geoarchaeology; Chalcolithic
 period; Iron Age; Mesolithic
 period; Neolithic period;
 Palaeolithic period
- ages in, 147–148
 and ancient mounds, 6, 94–96,
 135–136
 and anthropology, 228
 and the body, 65
 and cognitive science, 227–228
 and dualistic thinking, 17
 and emotion, 112
 and material agency, 140
 Maya, 125–126
 and phenomenology, 27, 93–96

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

258

INDEX

- archaeology (*cont.*)
 post-processual, 1, 4, 10–12, 15, 17,
 19–22, 34–41, 44–46, 100
 and post-modernism, 179
 processual, 10, 17
 role of in study of material culture,
 19–20, 85, 147–148, 178, 227
 semiotics in, 40–41
 and senses, 94–104
 and social aspects of technology,
 152–153
 structuralism in, 33–38, 44–46
 archaeological science, 4
 architecture. *See* houses; construction
 Aristotle, 24, 108
 art. *See also* rock art
 and agency, 139–140
 and Ancestors/deities, 104–105
 and cognition, 219
 deconstruction of term, 99–100
 and emotion, 114–115
 materiality of art, 77, 106
 as practical activity, 83, 85–87
 and technology, 147
 artefact. *See* material culture
 Artificial Intelligence. *See* cognition
 ashmounds, 94–96
 auspiciousness, 4, 7, 130, 133
 Australia, 104–105, 113, 197,
 210
 automobile, 170–172
 Auschwitz, 149
Australopithecus, 191–192

 Baktaman, 48–51, 88–89,
 119–121
 Balathal
 archaeological site, 1
 red patch in houses, 2–3, 8
 village, 1–9, 54–55, 82–83, 94, 104,
 127, 130–134, 207
 Barth, Fredrik, 48–51, 88–89, 119–121
 baseball, 72–73
 Baudrillard, Jean, 38
 behavioural ecology, 190
 being-in-the-world, 67, 91–92
 Bender, Barbara, 19
 betel bag, 116
 Biersack, Aletta, 151
 birth, 47, 132–133
Bir'yun, 114–115
 Bloch, Maurice, 59, 85–91
 Boas, Frans, 200

 body. *See also* mind, and body
 biological properties of, 16, 229
 domestication of, 28, 198–200, 202
 and emotion, 70–71, 107–113
 etherealization of, 16, 66–67, 98,
 155
 evolution of, 28–29, 181, 192–202
 and experience, 89–93, 95–97,
 104
 lack of attention to, 15–16, 66
 and material world, 25–26, 167–168,
 177
 –mind split, 14, 65–66, 68–69, 98,
 113
 and practice, 84–86, 89–93
 as a recent topic of interest, 65–73
 size, 196–197, 199
 social construction of, 66, 155
 symbolic meaning and, 36, 39,
 47–48
 Bourdieu, Pierre, 4, 65, 67, 89–90, 130,
 163–164, 229
 brain. *See* mind
 Britain, 36–37
 Brooks, Rodney, 75
 Buchli, Victor, 19
 Byrne, Richard, 212–216

 calabashes, 10–11
 Callon, Michel, 176–178
 Canada, 19
 car, 118
 cassowary bird, 48
 Çatalhöyük, 35–37, 135, 137
 cathedral, 156–157, 159
 cattle, 37, 94–96, 106, 145, 204, 208
 caves, 99–100
 ceramics. *See* pottery
 chairs, 167
 Chalcolithic period, 1, 6, 131,
 134–138
 Chalmers, David, 218
 Chandler, Alfred, 173–174
 Chandler, Daniel, 32
 Chartres cathedral, 156–157, 159
 Christian, 104
 civilisation, origins of, 199
 Clark, Andy, 72–74, 217–219, 228
 Classen, Constance, 78–79
 Classical world, 97
 circulation of objects, 116
 clay. *See* soils
 clothing, 79, 115, 117, 118, 176, 186

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

INDEX

259

- co-evolution, 186, 191–192, 202, 216. *See also* niche construction
- cognition, 24, 26, 29, 90–92, 94. *See also*
 cognitive evolution; cognitive science; intelligence; mind
 anticipatory, 216–217
 Artificial Intelligence studies of, 62, 72, 74–75, 227
 connectionist model of, 88
 and development, 71, 220–224
 embodied, 52–56, 65–81, 93, 107
 emotional aspects of, 70–71, 106–111
 and external environment, 74–81, 217–224
 and metaphor, 47–64
 not like language, 87–91
 and perception, 74–76
 plasticity of, 220–224
 and representation, 216
- cognitive evolution, 75, 77, 181–182, 190–191, 193. *See also* intelligence
 in humans, 216–220
 and learning, 214–216
 and material culture, 212–220
 and nest-building, 214
 in primates, 212–216
- cognitive science, 93–94, 225, 229. *See also* cognition
 and anthropology, 27, 122–126
 and emotion, 70–71, 108–109, 114, 122–126
 and language, 70–71, 87–91
 and material culture, 227
 recent trends in, 26, 65, 70–73
 and ritual, 122–126
- collectives, 176–178
- colour
 and aesthetics, 106
 material culture and, 38, 120, 131
 symbolism, 6–8, 37, 47, 54, 95
- commensalism, 201–202
- commodities. *See also* material culture
 alienation from, 117, 119
 inalienable, 118
- communication, 6, 89, 97
- cooking, 2, 6–7, 153, 196
- construction. *See also* houses
 of buildings, 157
 of cathedrals, 156–157
 of technological systems, 173–174
- Corn, Joseph, 22–23
- cosmology, 4, 26, 78–79. *See also* sign systems
- Costall, Alan, 18
- Cowan, Ruth Schwartz, 174–176
- cow dung, 94–96
- critique of representation, 92, 94, 97
- Csordas, Thomas, 92–93
- cultural construction. *See also*
 emotion, social construction of;
 social construction
 of the senses, 98
- cultural ecology, 145
- cultural heritage, 230–231
- cultural materialism, 145, 151
- cultural niche construction. *See also*
 cognitive evolution; stone tools
 and Bergmann's and Allen's rules,
 197
 and climate, 196–197
 and genetic change, 202–211, 220
 in hominids, 190–197
 lack of attention to, 189–190
 and material culture, 189–197,
 204–220
 in the Neolithic, 197–211
 and testable hypotheses, 196–197
- culture
 in American anthropology, 12
 definition of, 15–16, 226
 and the organic, 47–48
 as the superorganic, 15–16, 47–48,
 64, 84
 textual model of, 12
- cultural ecology, 17
- cultural studies, 93
- Czech Republic, 183
- Damasio, Antonio, 108–109, 113, 228
- dancing, 69, 96
- Darwin, Charles, 182–183
- Deacon, Terrence, 191–192, 216
- death, 7
 and the house, 35–37, 132–133,
 163
 and material possessions, 114,
 117–120
 and memory, 118–121
 and symbolism, 47
 and tombs, 36
- Deccan Plateau, 94–96, 101–102,
 152–153
- Derrida, Jacques, 32, 34
- Descartes, René, 14, 65

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

260

INDEX

- design, 27, 156–158
of bridges, 170–172
determinism. *See* ecological determinism; technological determinism
development, 220–224
diabetes, 205–206, 208–211
Diamond, Jared, 208–211
Dietler, Michael, 162–163
disease, 68–70, 204–211
distributed persons, 116. *See also* personhood
domestic group cycle
domestication, 28, 94, 134, 146. *See also* self-domestication
of animals, 94, 134, 146, 156, 197–202, 204
of cattle, 208
of house sparrow, 202
in mice, 202
models of, 201–202
of plants, 94, 134–135, 146, 156, 197–198, 204
social, 35–36, 198
Donald, Merlin, 222–223
doorways, 54–55, 57
Dornan, Jennifer, 125–126
Douglas, Mary, 21, 32, 39, 43–46, 65
Durkheim, Emile, 16, 43, 48, 122
ecological determinism, 76, 78, 51, 166, 184–185
ecological embodiment, 74–81
Electric Bond and Share Company, 174
Ellul, Jacques, 143–144
emotion, 83, 92. *See also* material culture, emotional aspects of; cognition, emotional aspects of; and body, and emotion
and the body, 47–48, 106–107, 110–111
lack of attention to, 15
and the material world, 9, 47–48, 111–122, 181
and memory, 118–121
and metaphor, 52, 70–71
rationality of, 107–109
and ritual, 80, 89, 119–126
and the senses, 113–114, 119–122
social construction of, 16, 46, 110–111
Enlightenment, 9, 14, 16, 92, 97
embodiment. *See* body
embryology, 222
energy systems, 172–173
environment
degradation of, 230–231
and development, 220–224
and emotion, 78, 108, 112
and evolution, 183–187, 191, 194, 200, 203, 206
impact on cognition, 18, 74–81, 56
impact on society, 145, 151, 178–179
and senses, 74–81, 98
ethnoarchaeology, 1–9, 54–55, 82–83, 94, 104, 130–134, 207
epigenetic effects, 222–223
Europe, 62–63, 152, 156–157, 207–208, 210. *See also* individual countries/regions
northern, 202
western, 124–125
evolution, 28–29, 225. *See also* cognitive evolution; evolutionary; gene; Neo-Darwinism; self-domestication; self-made species; niche construction
biological, 75, 77, 180–182, 190, 193, 199–202
cultural, 193, 199
and emotion, 108, 111
and history, 28–29
and hunting, 196
and material culture, 180–182, 185, 190, 193, 227
and meat eating, 196
and medicine, 203–206, 208–211
rates of, 203, 211
recent genetic, 202–211, 220
social, 145–146
versus history, 199
evolutionary. *See also* evolution; gene; Neo-Darwinism; self-domestication; self-made species; niche construction
anthropology, 182, 190, 198–199
biology, 28, 182–184
psychology, 190
synthesis, 182–183
theory, 181–90

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

INDEX

261

- exchange, 95
 experience. *See also* aesthetics;
 emotion; rock art; senses
 bodily, 68, 70
 and circulation of goods, 116
 and emotion, 70–71, 109–111,
 119–122
 and fieldwork, 127, 83–85, 87, 91–94,
 127
 of identity, 116
 and material world, 27, 80, 86, 93–94
 and meaning, 39–40, 47–48
 and metaphor, 52–64, 70–71
 and phenomenology, 27, 67, 87,
 91–97, 124–126, 229
 and productive activity, 8–9, 146
 ritual and, 8–9, 84–85, 88–90, 94–96,
 119–122, 124–126
 shapes concepts, 26, 86
 understanding of, 34, 70–71
- famine, 206, 209–210
 fatness. *See* obesity
 Feld, Steven, 78
 Feldman, Marcus, 188
 Fertile Crescent, 202
 festivals, 7, 54, 68
 fetishism, 104, 129
 feudalism, 62
 fieldwork, 90–91, 229
 Fiji, 33
 Finland, 165
 fire, 41, 94–96, 195–196
 fishing, 204
 floors. *See* houses, plastering of
 Foi, 77–78
 food
 and evolution, 194, 200, 202,
 205–211
 and industrialisation, 175–176
 and primate evolution, 214–216
 processing technology, 62–64
 redistribution, 68, 210
 in ritual, 8–9
 and senses, 79
 storage, 206–207
 structuralist analysis of, 33, 37
 forms, 13, 21, 23–24
 fossils, 191–19, 1973
 France, 33–34, 100, 157, 159, 189
 Frank, Arthur, 65
 Freedberg, David, 114
 Freund, Peter, 66
 Fruth, Barbara, 214
 Fuegians, 197
 Fuller, Dorian, 153
 Gabra, 164
 Gallese, Vittorio, 114
 Gärdenfors, Peter, 216–217
 Geertz, Clifford, 12
 Gell, Alfred, 16, 56–59, 77–78, 87,
 138–141, 124
 gender, 10–11, 84–85, 162–164
 and labour, 174–177
 structuralism and, 33–37, 117
 symbols of, 41
 genes, 180, 183–184. *See also*
 evolution; evolutionary;
 Neo-Darwinism;
 self-domestication; self-made
 species; niche construction
 as a blueprint, 184–185
 brain, 220
 cattle, 208
 and development, 220–224
 for diabetes, 208–211
 for lactose-tolerance, 206–209
 for malaria resistance, 204–205
 for obesity, 205–207
 and organisms and environments,
 184–187, 224
 recently evolved, 203–211, 229
 selfish, 184, 221
 thrifty, 208–211
 genetics, 28, 181, 184, 225, 229. *See*
 also ancient DNA; genes
 and cultural selection, 195, 200,
 202–211, 220
 origin of discipline, 183
 genotype, 183, 221
 geoarchaeology, 1, 4, 130
 geography, 93, 151, 178
 Gibson, James, 74–77, 167
 global village, 142
 globalisation, 162–164, 230–231
 Goldhahn, Joakim, 100–101
 gothic. *See* cathedral
 goods. *See* material culture
 Gosden, Chris, 112
 Gottlieb, Gilbert, 222
 Graves-Brown, Paul, 18–19
 gravestones, 118–119
 great apes. *See* primates
 growth, 49
 Guinea, 215

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

262

INDEX

- Hallam, Elizabeth, 62, 118, 120
 Harris, Marvin, 145
 Harrison, Simon, 80
 Heilbroner, Rober, 150–151
 Herlich, Ingrid, 162
 hermeneutics, 11, 12
 history, 13, 27, 97, 140, 152, 210, 229.
See also technology, history of
 of architecture, 156–157
 and the body, 65
 versus evolution, 199
 historical materialism, 146
 historical particularism, 145
 Hockey, Jenny, 62, 118, 120
 Hodder, Ian, 10–11, 34–36, 39–40,
 44–46, 198
 Hohmann, Gottfried, 214
 Holocene, 28, 134. *See also* Neolithic
 and cultural evolution, 199,
 202–211, 220
 hominid, 181, 196–197, 206, 216
Homo
 brain size, 191, 206
 erectus, 196
 habilis, 181, 196
 evolution of, 192–197, 206
 sapiens, 182, 193–194, 199
 Hong Kong, 25
 Hopewell mounds, 95
 Hoskins, Janet, 116
 houses, 229, 232
 and cognition, 85–86, 220
 construction materials and, 1–8,
 82–83, 130–134, 162–164, 166–168
 and emotion, 111–112
 and gender, 35–36, 175–176
 and human domestication, 198, 202
 plastering of, 1–7, 54–55, 82–83,
 131–133, 135, 162–163
 prehistoric, 6–7, 35–36, 126, 131,
 134–136
 symbolism of, 1–8, 35–36, 82–83, 90,
 127, 130–131, 134–135, 163–164,
 198
 temporal rhythms and, 5, 131–133
 household technology. *See* technology
 Hughes, Thomas, 174–175
 Huichol, 104
 Hume, David, 108–109
 Hungary, 231
 hunter-gatherer, 48, 205–206
 Husserl, Edmund, 170
 hybrids, 176, 180
 icon, 41. *See also* sign
 idealism
 and body, 16, 67
 and emotion, 111
 and material culture, 21, 129, 155
 and symbolic analyses, 32
 versus materialism, 17, 24, 77, 125
 in Western thought, 13–15, 129, 146,
 151, 179, 182, 226
 identity, 112, 115
 Ilchamus tribe, 10–11
 image, 99–100, 104, 125
 index, 41–42. *See also* sign
 India
 anthropology of, 1–9, 54–55, 82–83,
 94, 104, 130–134, 145, 207, 225
 prehistory of, 94–96, 101–102,
 152–153
 rice cultivation and, 57–59
 water pipes in, 164, 166, 168
 Ingold, Tim, 46, 156, 158, 178, 199
 Innis, Harold, 140, 142–143
 Indonesia, 116
 intelligence. *See also* cognition
 Machiavellian (social) 190,
 212–216
 and tool use, 214–216, 218–219
 technical, 214–216
 interdisciplinarity, 227–230
 interpretive archaeology. *See*
 archaeology, post-processual
 Iron Age, 62
 irrationality, 107
 Isherwood, Baron, 21, 43–44
 isotope analysis, 208
 Jackson, Michael, 15–16, 18, 67–68,
 84–88, 92
 James, John, 156
 Joerges, Bernward, 21
 Johnson, Mark, 50–53, 60, 62, 65, 68,
 70–71
 Jordan, 7, 139
 Jürgensen, Christian, 147
 Kagawa, Yasuo, 206
 Kaluli, 77–78
 Kenya, 10–11, 31, 162–164, 166, 176,
 217
 Kingdon, Jonathon, 192–196
 Kirmayer, Laurence, 65
 Klein, Richard, 220
 Kodi, 116–117

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

INDEX

263

- Kuranko, 67–68, 84
Kujungka, 104–105
- laboratory, 74, 108–109
lactose-tolerance, 206–208
Lakoff, George, 50–53, 60–62, 65, 68, 70–71
landscape, 25, 94, 100–102
 social construction of, 151
Laksmi, 2, 4, 8, 82, 104
Laland, Kevin, 188–190, 197, 203, 211
Lambert, Helen, 54
language, 77
 and art, 114
 and cognition, 86–90, 218, 223
 and construction of reality, 32, 168–169
 and development, 222
 and emotion, 110
 and environment, 77–78, 227
 evolution of, 190–192, 216, 220
 and metaphor, 50–53, 60–62, 67–68, 70–71
 over-emphasis on, 13–15, 17, 92–93, 228
 as a sign system, 12–13, 30–32
Latour, Bruno, 176–178
Laughlin, Charles, 124
Law, John, 176–178
Leach, Edmund, 32–33
Leach, Helen, 198–202
learning, 98
 in children, 67, 88, 130, 221
 in human evolution, 193
 and practice, 4, 67–68
 prenatal, 222
 in primates, 214–216, 223
 and ritual, 121
Lechtman, Heather, 152
Lemonnier, Pierre, 22
Leroi-Ghouran, André, 33–34, 100
Lévi-Strauss, Claude, 12, 32–33, 39, 43, 62
Lewis-Williams, David, 124–125
Lewontin, Richard, 184–187, 220, 222
lifecycle, 5, 80, 132–133
light, 33, 36, 96, 100–101
liminality, 7, 53–55, 133
linear perspective, 97
linguistic turn, 12–15, 151, 226
linguistics, 12–13, 26, 30–32, 50–53, 60–62, 70, 179, 227
literacy, 97
literary criticism, 13
Lock, Margaret, 68
Long Island, 170–172
Luo, 162–163, 166
Lutz, Catherine, 110
Lyon, Margot, 110
- Maasai, 31
Machiavellian intelligence hypothesis.
 See intelligence
Madagascar, 85
malaria, 204–205
marriage, 86, 132–133
Marx, Karl, 27, 104, 146–147, 151–152, 154, 178
mastery of nature, 129, 156–160, 201
material agency, 27–28. *See also*
 technology, role in shaping society
 of art objects, 139–140
 of communicative technology, 140–144
 controversy over, 129, 152, 154–156
 and evolution, 181–182, 191–211
 and fetishism, 104–105, 129, 139–140
 and houses, 131–138
 and human agency, 138, 141, 158–160, 165, 167–168, 177–178
 and intention, 140
 and Marx, 146–147, 151–152, 154
 in the Neolithic, 6, 131, 134–138
 secondary, 139–141, 156, 168
 and soil, 131–138
material culture. *See also* cultural niche construction; evolution, and material culture; material agency; technology
 analysis of term, 21, 76
 biography and, 116
 circulation of, 116
 definition of, 25–26
 difference between words and, 40, 45, 55–56, 127, 155
 effect of globalisation on, 162–164, 230–231
 emotional aspects of, 27, 93–94, 111–122, 127, 181, 227, 229, 232
 and identity, 31, 112, 115–117
 lack of attention to, 16–19, 93, 98, 127–128, 179–180, 225–226, 232
 and memory, 62, 117–121

- material culture (*cont.*)
- methodological diversity and, 227–230
 - as personal possessions, 114, 116–117, 118
 - personal value of, 114, 116–120
 - and personhood, 112, 115–117
 - pervasiveness of, 225–226
 - physicality of, 4–6, 20–22, 26, 100–103, 129, 142, 166–168, 226
 - power of, 4, 9, 55, 104, 115, 120
 - sensual aspects of, 86–87, 93–94, 96, 98–106, 112–114, 127, 181, 227, 229
 - as social marker, 21, 37, 43–45
 - specialism and, 160, 226
 - strategic use of, 4, 10, 36
 - and style, 115
 - as surface, 20–21
- material culture studies, 18–19, 228
- material meaning, 30. *See also* metaphor
- anthropology and, 20, 31–33, 38, 43–44, 47–50, 99–100
 - archaeology and, 1, 6, 10–12, 19–20, 33–41, 44–46, 62–64, 100, 136–137
 - contextual analyses of, 35–37
 - critique of over-emphasis on, 6–9, 20–23, 30, 43–46, 82–88, 93–97, 155, 179
 - and emotion, 114–115
 - ethnoarchaeological study of, 2–9, 130–133
 - motivation of, 26–27, 38–43, 46–50, 81
 - semiological model of, 30–32, 39–41
 - semiotic model of, 40–42
 - structuralist analysis of, 32–39, 43–46
 - textual model of, 10–11, 20, 38–40, 44
- materialism, 24, 148, 168–178. *See also* idealism
- cultural, 145–151
 - historical, 146
- materiality. *See also* material culture, physicality of
- definition of, 26
- matter. *See* material culture
- Mauss, Marcel, 65
- Maya, 125–126
- McGrew, Bill, 215
- McLuhan, Marshall, 27, 140–142–144, 164
- meaning. *See* material meaning; symbolism
- medieval, 62–63, 156–157
- Mediterranean, Eastern, 6–7, 134–138, 202
- megaliths, 95
- Melanesia, 116–118
- memory, 92, 109, 112. *See also*
- material culture, and memory and cognition, 218
 - concepts of, 62
 - construction of, 118
 - and emotion, 118–121
 - and life-transforming events, 117
- Mendel, Gregor, 182–183
- Merleau-Ponty, Maurice, 65–67, 92
- Mesolithic period, 200
- metaphor, 97, 108
- linguistic, 50–53, 60–62, 67–68, 70–71
 - material and experiential basis of, 40, 47–64, 67–68, 70–71
 - material culture and, 40, 53–56, 60–64
 - of self, 115
 - soil as a, 137
 - spatial, 52–53
 - and subsistence, 56–61, 67–68
 - and cognition, 47–64, 67–68, 70–71
 - and technological history, 61–64
- methodological individualism, 176
- Middle East, 202
- Middle Stone Age. *See* Palaeolithic, Middle
- Miller, Daniel, 18–19
- milling, 175–176
- milk, 10, 39, 207–209
- mind, 14–15, 17, 23, 26–27, 100. *See also* body-mind split; cognition; cognitive evolution
- and brain, 70–71, 108–109–126, 229
 - evolution of, 28, 181–182
 - extended, 217–219
 - and body, 64–73, 80–81, 111–112
 - and matter, 23–25, 105, 228–229
 - metaphors of the, 60–64
 - models of, 14, 22, 26
 - modern, 182
 - and structuralism, 43
 - versus matter, 14, 21, 23, 107

- Miocene, 214
 mirror neurons, 114
 Misa, Thomas, 161–162, 166
 Moalan Island, 33
 mode of production, 146–147
 modern humans. *See* *Homo sapiens*
 modernity, 98
 molecular genetics. *See* genetics
 momentum. *See* technological momentum
 monkeys. *See* primates
 monuments, 95–96, 120, 219
 Moore, Henrietta, 19, 44
 Morgan, Lewis Henry, 146–147
 morphology. *See* body
 Morphy, Howard, 113–114
 Moses, Robert, 170–172
 Mumford, Lewis, 144, 148, 153
 Muria Gonds, 57–59
 museums, 99–100, 225–226
 music, 49, 77, 78, 101, 122–123
 mutualism, 202

 natural selection. *See* selection, natural
 Naura, 208–211
 Nazism, 149–150
 Ndembu, 38–39, 47–48
 Neanderthals, 197, 199
 Near East, 6
 Needham, Rodney, 122–123
 Neel, James, 205
 Neo-Darwinism, 183–184
 critique of, 184–187
 Neolithic period. *See also*
 domestication; Holocene
 and biological evolution, 28, 198–202
 and genetic change, 202–211
 and material culture change, 6, 134–139, 152–153, 197–202, 207
 ‘package’ 200
 ritual in the, 94–96
 rock art in the, 101–102
 and social change, 197–199
 and soil, 5–7, 134–138, 162
 symbolism in the, 35–37
 nest-building, 185–186, 188, 214
 networks, 28, 176–178
 neurophenomenology, 27, 87, 122–126, 227
 neuroscience, 70–71

 New York, 170–172
 niche construction, 28, 225, 227, 229
 in ants, 186, 188
 in birds, 185–186
 definition of, 187–188
 in earthworms, 186, 188
 and evolution, 186–190
 in humans, 186, 189. *See also*
 cultural niche construction
 and origins of theory, 185–187
 in plants, 186
 in spiders, 186–187
 Niger, 98
 Nilotes, 106
 Nuba, 34

 Oaxaca, 45
 obesity, 205–206, 208–211
 object. *See* material culture
 objectivity, 15, 17, 20, 97
 Odling-Smee, 188
 Oldowan period, 216–217, 219–220
 Olsen, Bjørnar, 22
 Ong, Walter, 97
 ontogeny. *See* development
 Osvath, Mathias, 216–217
 Ouzman, Sven, 102–103
 order, 8, 13–16, 83

 Pacific, 33, 116, 208–211
 Palaeolithic period, 136
 and biological evolution, 191–197, 199–202, 216–217
 Middle, 192–195, 204
 and rock art, 33–34, 100, 124–125
 and thrifty genes, 205
 pandanus fruit, 48
 Papua New Guinea, 48–50, 57–59, 77–78, 119–121
 Parker Pearson, Mike, 36
 participant–observation, 90–91, 229
 Peirce, Charles Saunders, 40, 42
 Pels, Peter, 104–105
 Pelto, Pertti, 165
 perception, 74–76, 92, 101
 percussion, 101–103, 122–123
 personhood, 98, 112, 115–117
 Pfaffenberger, Bryan, 152, 155
 phenomenology, 27, 67, 87, 91–97, 127–128, 229
 phenotype, 183–184, 203, 205, 221

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

266

INDEX

- philosophy. *See also* phenomenology; technology, as philosophy
 and the body, 65–66, 77
 and cognition, 70, 77
 and emotion, 108–109
 and language, 13–15
 and material culture, 140, 226
 phonological iconism, 76–78
pili mitti, 2–4, 7–8, 82, 104, 132
 place, 94–95, 100–102, 137
 placebo effect, 69
 plan. *See* design
 plants, 137, 183
 domestication of, 94, 134–135, 146, 156, 197–198, 204
 in human evolution, 196
 primate use of, 214–215
 species successions, 186
 plastering, *see* houses
 Plato, 13, 21, 92, 174
 Pleistocene, 193, 199, 202
 Pliocene, 193
 Plummer, Thomas, 217
 political organisation, 172–174
 post-modernism, 13, 179, 225
 post-processual archaeology. *See* archaeology
 post-structuralism, 11, 12, 32, 34, 92
 pottery, 6, 36–37, 45, 63, 133–137, 139, 146, 148, 208
 practice, 12, 34, 41, 44, 86, 89–91, 93
 prehistory. *See* archaeology
 primatology, 28, 190, 212–216
 primates, 192–193, 225
 and cognition, 212–216
 family tree, 213
 learning in, 214–216
 and representational thinking, 215–216
 and social environments, 176, 190, 212–216
 and tool use, 212–216
 production, 36, 146–147, 173–174
 psychoanalysis, 104
 psychology, 18, 93
 and cognition, 70, 72–76, 222–223
 evolutionary, 190
 and material culture, 227
 methods of, 122–123
 psychoneuroimmunology, 69–70
 purity, 4, 34, 130, 133
 processual archaeology. *See* archaeology
 racism, 170–172
 radical empiricism, 91
 Rajasthan. *See* Balathal
 Rappaport, Roy, 145
 rationality, 15, 17, 75, 91, 97, 107–109, 156
 reason. *See* rationality
 red soil. *See* *pili mitti*
 red patch in houses, 2–4, 7–8, 82–83
 relics, 104
 religion. *See* ritual
 Renaissance, 97
 Rendille, 164
 representation, critique of. *See* critique of representation
 Richards, Colin, 36
 ringing rocks, 101–102
 rites of passage, 53–55
 ritual performance, 119–121
 ritual,
 domestic, 8–9, 82–83, 130, 132–133, 163–164
 emotional and sensual aspects of, 88–90, 94–96, 101–104, 119–126
 and environment, 80, 145
 healing, 69–70
 initiation, 84–85, 120–121
 motivation of signs used in, 38–39, 47–50
 and neurophenomenology, 125–126
 and percussion, 101–103, 122–123
 structuralist analysis of, 33, 35–36
 and time, 59
 and understanding abstract ideas, 48–50
 robots, 62, 75, 227
 rock art, 27, 33–34, 98–106, 124–125, 181–182
 Rosaldo, Michelle, 110
 Sahara, 204
 Sahlins, Marshall, 33, 43–44
 San, 102–103
 Sapir-Whorf hypothesis, 32, 223
 Saussure, Ferdinand de, 12–13, 30–32, 34, 39–41
 scale, 49, 114–115, 187
 of analysis, 161–165
 of technological system, 160, 170–174
 of transformations to material world, 136–179
 Scandinavia, 101

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

INDEX

267

- Scheper-Hughes, Nancy, 68
 seasonal affective disorder (SAD) 80
 Second World War, 149–150, 209
 sediments. *See* soils
 sedentism, 6, 94, 134, 137–139, 164, 198–206
 selection. *See also* cultural niche construction
 natural, 183, 199–202
 rates of, 203, 211
 unconscious, 201–202
 self-domestication, 28, 136
 in archaeological theory, 197–198
 biological, 198–202
 genetic evidence for, 202–211
 and houses, 198, 202
 self-made species, 28, 190–202, 223
 semiology, 30–32, 39–41
 semiotics, 11, 27, 40–42, 92–93, 106
 senses, 91–92, 96–107. *See also* rock art; sound; vision
 and cosmology, 78–81
 and emotion, 113–114
 and language, 76–78
 and perception, 74–77
 and ritual, 89, 94–96, 119–121
 and technology, 141–142
 Seremetakis, Nadia, 98
 shamans, 125
 Shanks, Michael, 34–38, 45–46
 Shaw, William, 154–155
 shopping, 20
 Sierra Leone, 67–68, 84
 sign, 92. *See also* sign systems
 arbitrariness of the, 26, 31–32, 38, 41
 models of the, 31–32, 40–42
 referential properties of the, 31
 immateriality of the, 32, 37–38
 relational properties of the, 31–32, 34–35, 38
 sign systems, 11, 30–32, 34–35, 38–39, 42–44
 abstraction of, 42–46
 material basis of, 46–50, 56–64, 78–81
 signified. *See* sign
 signifier. *See* sign
 Sillar, Bill, 62–64, 152
 singing, 69, 78, 96
 Skolt Lapps, 165
 sleep, 214
 Smith, Barry, 76
 Snow, Charles Percy, 228–229
 snowmobile, 165
 social archaeology. *See* archaeology, post-processual
 social behaviour, 108–109
 social change. *See also* transformations, social and communicative technology, 140–144
 and economic change, 198
 and evolution, 194, 196
 and material culture, 162–164
 in the Neolithic, 197–199
 and technology, 143–150, 153, 175–176
 social codes, 36, 43
 social competition, 37, 176
 social construction, 16–17. *See also* cultural construction; emotion, social construction of
 of the body, 46, 155
 of concepts of society, 43–46, 48
 of landscape, 151
 of meaning, 13
 of technology, 152–156, 162, 166–168, 170, 174, 176
 social intelligence hypothesis. *See* intelligence
 social organisation, 6, 229. *See also* primates
 and communicative media, 142–143
 and emigration, 210
 and environment, 145
 and material culture, 33, 36–39, 106, 140, 181
 in prehistory, 6, 36–37, 136, 206
 and structure, 33–37
 and symbolic systems, 48
 social power
 in primate societies, 176
 and ritual, 126
 and technology, 170–173
 social relationships
 and emotion, 47, 110
 experience of, 47, 67–68
 as a grid, 46
 reproduction of, 130, 162–164
 and technology, 164, 178
 sociobiology, 190
 sociology, 65, 93, 140, 227
 of science, 176–178
 soils, 1–8, 41, 82, 131–138, 142, 162
 soil micromorphology, 1–2, 131, 134
 solar energy, 172–173

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

268

INDEX

- Solomon, Robert, 108
 Somali, 164
 Songhay, 98
 sound, 76–79, 96, 98, 100–104,
 141–142, 122–124
 South Africa, 102–103, 195
 space, 82, 94–95. *See also* houses
 boundaries and, 7, 130, 136
 metaphor and, 52–56
 and practice, 44, 67
 in prehistory, 33–37, 126, 131,
 134–136
 structuralist analysis of, 33–37
 temporal rhythms and, 130–133
 use of, 1–2, 130–133
 space-binding media, 142–143
 spindle, 116
 Spinoza, Baruch, 108
 spirit world, 102–103–104, 122–123,
 125
 spiritual power, 103–104, 114, 126
 Stevanovic, Mirjana, 135
 Steward, Julian, 145
 Stoller, Paul, 91–92, 98
 stone. *See also* stone tools
 as environment, 185
 as a material, 41, 43, 99–104, 142,
 157
 stone tools, 148, 181, 212
 in animals, 185, 212
 and role in evolution, 191–195,
 216–220
 and language, 190–192
 Strathern, Marilyn, 116–117
 structuralism, 8, 11–12, 32–38, 39,
 43–46, 48–49, 62, 90, 100
 subjectivity, 13, 15, 20, 92
 and personhood, 116
 Sudan, 34, 106
 Sweden, 36, 101
 symbolism. *See also* houses,
 symbolism of; material meaning;
 ritual; sign; structuralism; ritual
 and art, 114, 139
 and cognition, 220
 and development, 222–223
 and ecological conditions, 145
 and memory, 120–121s
 in the Neolithic, 134–137
 in ritual, 33, 35–36, 38–39, 47–48
 system. *See also* sign systems;
 structuralism; technological
 systems
 and archaeology, 10
 calendrical, 59
 colour, 37, 47
 conceptual, 53–56
 cultural (symbolic), 31, 33, 39,
 47–49, 64, 81, 92. *See also* sign
 system
 kinship, 12, 15
 language-like, 13
 myth, 12
 religious, 125–126
 subsistence, 58
 Taçon, Paul, 104
 Tarlow, Sarah, 112
 technical intelligence hypothesis. *See*
 intelligence
 techniques, 18
 technology, 17–18, 20, 28, 98. *See also*
 cultural niche construction;
 material culture; Neolithic;
 stone tools; technological
 momentum; technological
 politics; technological system
 in animals, 212–216
 anthropomorphisation of, 117–118
 communicative, 140–143, 146,
 173–174
 and eras, 146, 147–148
 ethics of, 169–172
 as a ‘form of life’, 168–169, 171
 grinding and crushing, 63–64
 history of, 22–23, 140–144, 146–162,
 164–179, 227
 household, 174–177
 industrialisation and, 153, 175–176,
 179
 and Karl Marx, 146–147, 151–152,
 154
 maritime, 209–210
 metal and blade, 62–63
 and nature, 178–179
 and networks, 176–178
 pessimism towards, 143–144, 147,
 149–150
 as philosophy, 62–64, 152, 168
 and power, 170–173
 in prehistory, 136, 179–180
 prehistoric, 212
 print, 141–143
 and production, 146–147
 role in shaping society, 140–180
 runaway, 147, 149–150, 158–161

Cambridge University Press

978-0-521-87397-0 - Material Cultures, Material Minds: The Impact of Things on Human Thought, Society, and Evolution

Nicole Boivin

Index

[More information](#)

INDEX

269

- social aspects of, 4, 28, 144, 152–156, 161–166, 168–178
- transport, 141–142, 170–173, 210
- understanding of, 158–160
- technological determinism, 28, 144, 145, 174, 176
- in archaeology, 148
- critique of, 148–151, 168
- and law-like generalisations, 150–151
- and Marx, 151–152, 154
- and scale of analysis, 161–165
- technological momentum, 160–161, 169–170, 172–175
- technological politics, 170–176, 178
- technological systems, 160–161, 170, 173–176
- tells, 6–7, 135–136
- template, 157
- temporal rhythms, 5, 56–61, 80, 95, 130–134
- tents. *See* houses
- text. *See also* anthropology, textual model in; material meaning, textual model of; writing
- body as a, 66
- and cognition, 218, 223
- nothing outside of the, 32
- privileging of, 97
- versus memory, 121
- texture, 6, 79, 100–101, 131
- thing. *See* material culture
- thought. *See* cognition
- thrifty gene hypothesis, 205–206, 208–211
- Tilley, Chris, 11, 34–38, 40, 45–46, 54–56, 93, 100
- time, 49, 51–52, 56–61, 67. *See also* temporal rhythms
- time-binding media, 142–143
- Tishkoff, Sarah, 204
- tool use. *See* technology
- transformations, 7, 9
- life, 117
- and material culture, 54–56, 136
- social, 53–57, 96
- Turkey. *See* Anatolia
- Turnbull, David, 156
- Turner, Victor, 38–39, 47–48, 50, 88
- Tuzin, Donald, 124
- Umeda, 57–59, 77–78
- UNESCO, 164
- United States of America, 210, 170–172, 174–176
- in history, 36–37
- technology in the, 161
- Van Gennep, 53–54
- vision, 72, 77–79, 97–98, 141–143
- Varela, Francisco, 124
- Voight, Benjamin, 206–207
- Warnier, Jean-Pierre, 113
- water, 101, 167
- pipes, 164, 166, 168
- Watson, Christine, 104–105
- weddings 7, 54, 89, 117
- Weiner, James, 78
- Wells, Jonathon, 205–206
- Wengrow, Dave, 135
- Wessex, 36
- Western Desert, 104
- White, Leslie, 145
- Whitehouse, Harvey, 121
- Wilson, Peter, 136, 198
- Winner, Langdon, 147, 149–150, 154–155, 158–160, 165, 168–175
- Wittgenstein, 168–169
- wooden carvings, 85–86
- Wrangham, Richard, 196
- writing
- literacy and, 97, 120, 223
- material culture as, 38, 44
- systems, 146, 220
- Yentsch, Anne, 36–37
- Yolngu, 113
- Zafimaniry, 85–86
- Zambia, 38–39, 47–48