

Index

- Adaptation, to inverting lenses, 9, 91–96
- Affordances, 21, 103, 105–106
- Albers, J., 123, 125–126
- Alhazen (Ibn Haythem), 41, 237n12
- Al-Kindi, 40–41, 237n11
- Ambient optic array, 21, 85, 103–105, 109, 155
- Ames room, 81, 241n4
- Amodal perception (completion), 67–69
- Angelone, B. L., 238n27
- Angelucci, A., 227
- Animals, and concepts, 182, 184–187, 246n10
- Animate vision. *See* Ballard, D.
- Anscombe, G. E. M., 189
- Appearances, 79, 81–85, 88, 107, 123, 139, 144, 154, 164, 165, 199, 228
as objective, 85, 144
- Argument from illusion, 80
- Aristotle, 40–41, 106–107, 237n10
- Armstrong, D. M., 82, 188
- Art, 175–179
- Atomicity problem, 134–136
- Attitude
engaged, 166
natural, 72
- Audition, 160–161
- Auditory visual sensory substitution
(the Voice), 158, 161
- Austin, J. L., 80, 164, 213
- Autonomy
of levels of description in visual theory, 24–25
of perceptual modalities and the body, 112
- Ayer, A. J., 80, 164
- Bach-y-Rita, P., 26, 103, 111, 113, 158, 235n19, 245n6
- Ballard, D., 17, 23, 24
- Behaviorism, 32, 89, 138–139, 235n20
- Bennett, M. R., 28, 44
- Berkeley, G., 17, 96–98, 100–101, 242n17
- Bermúdez, J-L., 233n3
- Berthoz, A., 17
- Billock, V. A., 147
- Binocular rivalry, 240n42
- Blackmore, S., 49, 54, 57, 239n33
- Blakeslee, S., 248–249n10
- Blindness, 3–7, 100, 114
color, 244n8
experiential, 3–10, 91
experiential, as support for enactive approach, 10
and paralysis, 12–14
restoration of sight, 4–6, 100–103
- Blindsight, 234n11
- Blind spot, 3, 38, 46–48, 54–55, 67–68, 80, 238n21
and Dennett, 47–48, 54, 238n21
as occluder, 68

- Block, N., 4, 32–33, 94, 113–115, 235n19, 243n22, 244n4
- Bompas, A., 156–158
- Borges, J. L., 225
- Botvinick, M., 242n15
- Boyson, S., 187
- Bridgeman, B., 19, 37, 47–48, 236n2, 238n23
- Broackes, J., 127, 143, 153, 155, 244–245n8
- Brooks, R. A., 22, 50, 62, 234n14
- Bruce, V., 18, 109
- Buchel, C., 226
- Budd, M., 246n10
- Byrne, A., 150–153, 242n13, 244n6
- Camera obscura, 40, 236n5
- Campbell, J., 242nn10, 13
- Cantor, G., 198
- Carnap, R., 207
- Cassam, Q., 233n3
- Cavanah, P., 236n2
- Chabris, C. F., 52–53
- Chalmers, D. J., 124, 215, 220–221, 243n25
- Change blindness, 51–52, 58–59, 62, 191–193, 217–218, 239n35
- Chauvinism, sensorimotor, 26–28
- Cheney, D. L., 184
- Cheselden, 102
- Chomsky, N., 25
- Churchland, P. S., 17, 21
- Clark, A., 17, 26, 112, 215, 220–221, 234n13, 238n25, 239n36, 248n12
- Clark, J. J., 51, 62, 130, 156–158, 191, 238nn25, 26
- Clarke, T., 76
- Cohen, J., 242n15
- Cohen, L. G., 226
- Cole, J., 12–14
- Color, 123–161
- color-critical conditions, 127, 129, 132, 143, 199
 - concepts of, 190, 194–198
 - contrasted with shape, 127–128, 133, 141
 - forbidden or impossible, 145–147
 - not sensation, 148–149
 - novel, 156–160
 - as objective, 144–149, 151, 156
 - as phenomenal, 143–144, 151–152, 154–155
 - as physical, 150
 - as relational, 144, 149, 154
- Color aspect profile, 132
- Concepts
- of color, as formal, 197–198
 - and criteria, 186, 200
 - observational, 117, 200–202, 206–207
 - perceptual demonstrative, 194, 197–199
 - and sensorimotor skills, 31, 117, 183, 199–201
- Conceptuality thesis, 184, 188–189, 190, 201
- Constancy, color, 34, 127–128, 201–202, 243–244n2
- Content
- representational, 5, 17, 82, 129, 168–169, 183, 240–241n43
 - vehicles of, 221
 - virtual, 50, 66–67, 134, 193, 215–216, 218
- Content, of perceptual experience
- conceptual/nonconceptual, 181–208, 247n5
 - depends on possession of sensorimotor skill, 1, 3, 6, 9, 17, 75, 84, 90, 102, 117
 - factual versus perspectival, 168–169, 202–203, 205
 - has dual aspect (two-dimensional), 163–164, 167–168, 202, 204
 - is indeterminate, 71–72, 165, 192–193
 - is intentional, 189
 - is perspectival, 34, 64, 86, 163, 168, 170, 172–173

- picture-like character of, 33, 35, 39–40, 48–49, 57–58, 72, 75
 richness/fineness of grain, 183, 190–192
 sensational properties of (*see* Qualia)
 veridical/nonveridical, 80, 92, 168–169
 Cortical dominance vs. cortical deference, 248n11
 Cosmides, L., 186
 Cotteril, R. M. J., 17
 Crane, H., 146
 Crane, T., 182
 Crick, F., 210
 Cussins, A., 167, 182, 203–205

 Da Vinci, L., 40, 43, 45, 48, 236n5
 Damasio, A., 213
 Davidson, D., 182
 Dawkins, R., 249n15
 De Condillac, E. B., 242n17
 Dennett, D. C. D., 25, 28–29, 30, 44, 47–48, 54, 56, 58–59, 150, 221, 235n15, 238n21, 239n30, 249n15
 on the computer model of the mind, 28–29
 on distinction between personal and subpersonal levels, 30
 on filling in, 47, 48, 54, 56, 238n21
 on the homunculus fallacy, 44
 and Marilyn Monroe wallpaper, 55–56
 and the new skepticism, 54, 58–59
 Dependencies, counterfactual supporting, 169. *See also* Perception, causal theory of
 Descartes, R., 40–41, 44–46, 213, 215, 237–238n19, 238n20
 Diderot, D., 242n17
 Dispositionalism, about color, 141–143, 148, 150
 Ditchburn, R. W., 13
 Dorsal stream, 11, 19
 Dreaming, 213–214, 247n3
 Dretske, F., 51, 240n43, 246n4
 Dreyfus, H., 62, 65–66, 234n14, 248n7
 Durgin, F., 68

 Ecological approach to visual perception, 17, 20, 104, 155
 Edelman, G., 54
 Eliminativism, about color, 124
 Enactive approach to perception
 basic statement of, 2, 8, 17
 differentiated from other approaches, 12, 19
 some implications of, 2
 Environment, 143–144, 150, 155, 158, 164, 211–212, 214, 218, 220, 222–224, 228
 Euclid, 40, 75, 236n8
 Evans, G., 17, 87–88, 99, 100–102, 182–183, 185, 188, 190, 242nn10, 17
 Experience
 of color, the qualia theory, 123–124, 133
 ineffability of, 149
 Experience, perceptual. *See* Perceptual experience
 Explanatory gap, 219, 226, 231
 Externalism, 215, 217, 219, 221, 224, 248n5
 Extromissionism, 40

 Filling in, 38, 46–48, 54, 69–70, 80, 147, 236n4, 238n21, 240nn40, 41
 at the blind spot, 38, 46, 54, 80, 240n41
 of color, 147
 and illusory contours, 69–70, 80
 Fodor, J. A., 20–21, 25, 30, 104, 243nn19, 20
 Frege, G., 148, 182, 189, 241n6
 Functionalism, 114

 Gallagher, S., 233n3
 Ganzfeld, 4, 135

- Gibson, J. J., 4, 17, 20–21, 23, 30, 35, 81, 85, 103–105, 150, 155, 209, 226, 243nn18, 19
- Gilchrist, A., 131, 243n1
- Ginsborg, B. L., 13
- Gleason, G. A., 147
- Gombrich, E., 163, 165–166, 175
- Goodale, M. A., 11, 18–19
- Grand illusion. *See* Perception, as a grand illusion
- Green, P. R., 18, 109
- Gregory, R. L., 5–6, 36, 43, 241n4, 242n17
- Grice, H. P., 106, 170, 240–241n43
- Grimes, J., 49
- Gursky, A., 72
- Hacker, P. M. S., 28, 44, 241n3
- Hallucination, veridical, 168, 213, 238n17
- Hamilton, R., 226, 248n9
- Hardin, C. L., 137, 145–149, 151, 153
- Harman, G., 172, 240–241n43
- Harris, C., 90, 92–95, 115
- Hayes, A., 177
- Heck, R., 183, 191–193
- Heidegger, M., 66, 234n14
- Hellie, B., 242n24
- Helmholtz, H. L. F., 242n17
- Hilbert, D., 150–153, 242n13, 244n6
- Hochberg, J. E., 4
- Homunculus fallacy, 28, 44, 96, 238n20
- Hume, D., 163, 198, 207
- Humphrey, N., 18, 113–116, 229–230, 234n10
- Hurley, S. L., 2, 8–9, 17, 27, 103, 111–113, 159, 172, 182, 185–187, 218, 221, 226–227, 231, 233n1, 234n12, 235n20, 242nn12, 16, 244n7, 247n2, 248nn5, 11
- Hurvich, L., 146, 148
- Husserl, E., 17
- Hyman, J., 236n7, 237n17, 238n19, 241n5
- Illusion, Müller-Lyer, 188
- Illusory contours, 69–70, 80, 147
- Implementation, of perceptual algorithms, 24–26, 28
- Impressionism, 167, 179
- Inattentional blindness, 52, 58, 191
- Infants, and concepts, 182, 184–187
- Input-output picture, 3, 4, 6, 18
- Intentionality, 116, 189
- Internalism, 210, 213–214, 219, 223–224
- Internal representation, 178, 238n20 and the brain, 2, 235n15 and change blindness, 52 in perception, 2, 22, 24, 37, 178, 236n4
- Intromissionism, 40
- Invariant, 85, 127
- Inverted spectrum hypothesis, 94, 124, 133, 149, 242nn13, 14
- Inverting lenses, 7–11, 91–96, 242n12
- Isomorphism, sensorimotor, 27, 113, 160
- Ittelson, W. H., 241n4
- Jackson, F., 133
- James, W., 242n17
- Järvillehto, T., 17
- Jasper, H., 211
- Jeannerod, M., 17
- Johnston, M., 124, 151
- Jonas, H., 17
- Kamitami, Y., 238n21
- Kaniza, G., 61, 69
- Kant, I., 11, 99, 164, 181–182, 188, 194
- Kaufman, S., 249n15
- Kaufman, T., 3
- Keeley, B., 110–111, 243n21

- Kelly, S. D., 166, 201–202, 203, 243–244n2
- Kenny, A., 28, 44
- Kepler, J., 40–45, 48, 237n17
- Kercel, S., 111
- Kinesthesia, 14, 93, 95
- Kirch, M., 19
- Knowledge, sensorimotor. *See* Sensorimotor knowledge
- Koch, C., 209–210, 213, 218
- Koenderink, J., 17, 75, 77, 131, 198
- Kohler, I., 7–10, 91, 156, 244n7
- Krauskopf, J., 13, 146
- Kuppers, R., 242n22
- LaBerge, S., 247n3
- La Mettrie, J. O. de, 242n17
- Langer, M. S., 131
- Leibniz, G. W., 101, 242n17
- Levi, D. M., 68
- Levin, D. T., 51, 191, 238n26, 27, 239n35
- Lewis, C. I., 75
- Lewis, D., 166, 235n17
- Lindberg, D., 41, 236nn5, 7, 8, 237nn9, 11, 12, 13, 15, 16, 18
- Locke, J., 100, 242n17
- Mach, E.
 conception of experience, 35–37, 39, 49, 50, 57, 67, 192, 247n5 (*see also* Snapshot conception of experience)
 drawing of the visual field, 35–36, 72, 235n1, 247n6
- Mack, A., 191, 239n28
- MacKay, D. M., 239n36
- Marr, D., 20–22, 24, 29–30, 39, 177, 236n4
- Martin, M., 108, 240–241n43
- Maturana, H., 17
- McClintock, M. K., 110
- McDowell, J., 30, 80, 181, 183, 190, 193–195, 197, 199
- Meijer, P., 158
- Merleau-Ponty, M., 1, 17, 35, 73, 246n9
- Merzenich, M., 227
- Metamerism, 151–152
- Metzger, W., 4
- Mill, J. S., 79, 86
- Milner, A. D., 11, 18, 19
- Minsky, M., 50, 62, 234n14
- Mittroff, S. R., 238n27
- Modalities, sensory (the senses), 96, 98, 102, 107, 109, 112–113, 159
 proper-objects theory, 107
 the qualia theory, 106
- Molyneux's question (Molyneux), 100–103, 110
- Murakami, I., 236n2
- Myin, E., 239n38
- Nakayama, K., 23, 29, 238n21
- Nanay, B., 242n11, 248n6
- Neisser, U., 52
- Neuroscience, enactive approach to, 2, 225–227, 233–234n4
- Newton, I., 141, 144
- Nishida, S., 238n21
- Number, 159, 195–196
- O'Callaghan, C., 161, 245n4
- Occlusion, 20, 63, 83–85, 109, 132, 140, 161, 165
- Optic ataxia, 11, 18
- Optic flow, 20, 109
- Optics, inverse, 20
- Ordinary language, 164
- O'Regan, J. K., 8, 17, 22–23, 27, 30, 32–33, 49, 50–53, 62, 64, 103, 111, 113, 117, 129–130, 134, 140, 156–159, 191, 207, 226, 228, 233n1, 233–234n4, 234n14, 238nn24, 26, 239nn28, 29, 34, 36, 239–240n38, 244nn3, 7, 248n38
- O'Shaughnessy, B., 16, 98, 100, 114, 233n3

- Painting, 175–179, 222–223
 Palacios, A., 17, 155
 Pallas, S. L., 227
 Palmer, S., 38, 47, 67, 94, 124, 125, 148, 240n41
 Paradiso, M. A., 238n21
 Paralysis, not a form of blindness, 12–14
 Pascual-Leone, A., 3, 226, 248n9
 Peacocke, C., 82, 106, 120, 128, 133, 142, 148, 183, 184, 189, 190, 194, 202, 206, 241n2, 243n23, 243–244n2, 246nn10, 3, 247n5
 Peano axioms, 198
 Penfield, W., 211
 Perception
 attention-dependence, 51–52, 59
 causal theory of, 34, 169–175
 contrasted with judgment, 182, 188–190
 contrasted with sensation, 15–17, 33, 101, 113–116, 234n10, 249n3
 depends on sensorimotor knowledge, 1–3, 6–9, 12, 15, 75, 84, 90
 direct, 21, 34, 85, 189, 207
 enactive approach defined, 1–3, 8, 17
 as a grand illusion, 53–55, 59, 60, 62, 66, 239n29, n35
 is perspectival (*see* Content, of perceptual experience, is perspectival)
 photographic model of, 2, 17, 35, 117
 proper objects of, 106–107
 touch-like character of, 17, 72–73, 96–100
 as a two-step process, 82, 164
 and understanding (*see* Understanding, and perception)
 Perceptual experience
 belief-independent, 188
 neural substrate of, 209–210
 not judgment, 188–190
 sensational properties of (*see* Qualia)
 transparency of, 72, 106, 165, 175
 veridicality, 168
 virtual vs. occurrent aspects of, 135, 215
 Perceptual presence, 59–65, 77, 78, 118, 207
 as absence, 61, 128–129, 217
 as access, 63, 192, 215–216
 amodal, 67, 128
 contrasted with other forms of presence, 60, 64–65, 118
 explanations of, 60, 63
 problem of, 59–60, 67, 77
 virtual, 50, 63, 67, 193, 216–217
 Perceptual world, 156
 Personal vs. subpersonal, 28, 30–31, 130, 201
 and Dennett, 30
 distinction not sharp, 31
 and filling in, 68, 240n40
 and Fodor, 30
 and McDowell, 30
 and sensorimotor dependencies, 130, 201
 Perspectival (P-)properties, 83–84, 86, 89, 103, 133, 139, 164, 166–167, 198, 241n6
 as objective, 83
 as relational, 83
 Perspectival self-consciousness, and perception, 2, 233n3
 Pessoa, L., 22, 47, 238n22, 239nn30, 31, 32, 34, 37, 240n40, 247n1
 Pettit, P., 88, 123–124, 132–133, 138–139, 242n14, 244n7
 Phenomenalism, 79, 81, 85, 141, 163
 Phenomenal objectivism, 141, 148, 150, 153
 Phenomenology, 33, 39, 56, 59, 62–63, 66–67, 69, 72, 84, 100, 114–116, 124, 138, 165, 175–176, 179, 184, 192, 210, 217, 219, 226–227
 Phosphene, 211
 Physicalism, 114

- about color, 124, 151–155
- Piantinida, T. P., 146
- Pictures, 177–179
in vision, 35–40, 177, 236n4 (*see also*
Retinal image; Snapshot conception
of experience)
- Pinker, S., 43, 177, 246n10
- Pisella, L., 18
- Plasticity, perceptual/neural, 92, 226–227
- Plato, 40
- Poincaré, H., 17, 75, 199–200, 202
- Presence, perceptual. *See* Perceptual
presence
- Price, H. H., 164
- Priest, S., 246n9
- Profile, sensorimotor. *See* Sensorimotor
profile
- Proper objects of perception, 106–107
- Proprioception, 2, 14, 93, 95, 100, 233n3
- Ptolemy, 40, 236n8
- Putnam, 79, 81, 118, 142, 155, 171,
213, 246n1
- Pylyshyn, Z., 11, 21, 104
- Qualia, 82, 85, 106, 123–124, 133–136,
138, 142–143, 149, 206, 231. *See also*
Content, of perceptual experience,
sensational properties of; Experience,
sensational properties of
- Qualities, primary vs. secondary, 141
- Ramachandran, V. S., 17, 21, 248n10
- Reddish-green, 145–147
- Reid, T., 116, 234n10
- Rensink, R., 50, 57, 191, 238n26
- Representation, internal. *See* Internal
representation
- Representation, virtual. *See* Virtual rep-
resentation
- Retinal image, 36–38, 41–45, 116,
236n5
deficiencies of, 36–38
inversion of, 42–44
pictorial nature of, 39–42, 45–46
problem of the cyclopean image, 43,
45
- Riggs, L. A., 13
- Rock, I., 191, 239n28
- Rosch, E., 17, 233n1, 234n13
- Ross, J., 177
- Rossetti, Y., 18
- Rowlands, M., 218, 248n5
- Ruskin, J., 126, 167, 175, 176
- Ryle, G., 30, 164
- Sabra, A. I., 236n7, 237n13
- Sacks, O., 5, 242n17
- Sadato, N., 226
- Sanford, D., 173
- Schone, H., 18
- Seaman, G., 4
- Searle, J., 28, 29, 44, 189, 209, 213,
219–222, 217, 233n2, 235n15,
248n7
and the homunculus fallacy, 28–29
- Sejnovsky, T. J., 17, 21
- Sellars, W., 181
- Sensa data, 79, 81–82, 85, 108,
164–166, 206–207
- Sensation, 1, 4–6, 8, 10, 12–17, 26–27,
31, 33, 79, 83–84, 86, 88, 101,
113–116, 140, 148–149, 150, 156, 160,
200, 208, 228, 238n19, 244nn3, 6
not sufficient for perception, 4, 15–17,
33, 101
- Sensational properties of experience.
See Qualia
- Sensorimotor contingencies. *See*
Sensorimotor dependencies
- Sensorimotor dependencies, 64, 77, 89,
102–103, 109, 110, 112, 156–157,
160, 227
- knowledge, mastery of (*see*
Sensorimotor knowledge)
- object- and movement-dependent,
64–65, 129–131, 157

- Sensorimotor dependencies (cont.)
 relation to the world mediated by, 64, 77, 87–88, 207, 216, 228, 231
- Sensorimotor knowledge, 1–2, 6, 8–10, 12, 15, 17–18, 25, 27, 63, 75, 77, 88, 90–92, 99, 117–122, 129, 140, 164, 194, 207, 248n12
- disrupted by inverting lenses, 8
- necessary for perception, 2, 7–9, 12, 15, 17
- practical not propositional, 65–66, 117–120
- Sensorimotor profile, 78–79, 87, 117, 124
- Sensorimotor skills, 11–12, 16, 18–19, 27–28, 31, 86, 87, 90, 93, 117, 119, 140, 183–184, 194, 199, 201, 224, 226
- as (non)conceptual, 31, 117, 183, 199–201
- Sensory stimulation. *See* Sensation
- Sensory substitution, 111, 145, 161. *See also* Auditory visual sensory substitution (the Voice); Tactile visual sensory substitution (TVSS)
- Seyfarth, R. M., 185
- Shapiro, L., 235n18
- Sharma, J., 227
- Shimojo, S., 238n21
- Shoemaker, S., 94, 124, 233n3
- Siewert, C., 240–241n43
- Simons, D. J., 51–53, 191, 238n26, 27
- Simultaneous contrast, 125, 154
- Skepticism, new, 53–55, 56–59, 62
- Skills, sensorimotor. *See* Sensorimotor skills
- Snapshot conception of experience, 35, 40, 48–49, 57–58, 72, 100, 192
- Snowdon, P., 80
- Sorites, 194
- Space, egocentric, 87
- Specular highlights, 125
- Sperling, A., 19
- Stanley, J., 120–122, 234n7
- Stimulation, sensory. *See* Sensation
- Stoljar, D., 240–241n43
- Stratton, G. M., 7
- Strawson, G., 136
- Strawson, P. F., 76, 81, 164, 170, 235n16
- Substitution, sensory. *See* Sensory substitution
- Supervenience, 209, 217–218, 222–223
- Sur, M., 227
- Surface spectral reflectance (SSR), 150–155
- Tactile vision. *See* Tactile visual sensory substitution (TVSS)
- Tactile visual sensory substitution (TVSS), 26–27, 110–116, 145, 226, 235n19, 243n22
- Taylor, J. G., 7, 91
- Théoret, H., 3
- Thompson, E., 17, 22–23, 47, 137, 145–146, 150–151, 153, 155, 158, 227, 233n1, 233–234n4, 234n13, 236n3, 239nn30, 31, 32, 34, 35, 240n40, 244n6, 247n1, 249n4
- Toombs, K., 234n8
- Toribio, J., 26, 113, 248n12
- Touch, 14, 96–100, 107–108
- Transcranial magnetic stimulation (TMS), 227
- Transparency of perceptual experience. *See* Perceptual experience, transparency of
- Triebel, W., 4
- Tripathy, S. P., 68
- Tsou, B. H., 147
- Two visual systems hypothesis, 11–12, 18–19
- Tye, M., 153, 240–241n43

- Ullman, S., 21
- Understanding
 concepts of, 31, 117, 181–208
 and perception, 1, 6, 15, 33, 63,
 77–79, 81, 88, 132, 169, 181, 184,
 189, 198, 207–208
 as at personal level, 31
- Valvo, A., 5
- Van der Heijden, A. H. C., 37, 47, 48
- Varela, F. J., 17, 155, 227, 233nn1, 4,
 236n13
- Velichkovsky, B. M., 37, 47, 48, 236n2
- Ventral stream, 11, 19
- Vienna Circle, 207
- Vighetta, A., 18
- Virtual representation, 50, 52
- Vision
 computational approaches to, 20–21,
 24, 28
 data for, 20–21
 subject of, 20
- Vision science
 fundamental problem for, 36
 orthodox approach to, 36–39, 50, 62
- Visual agnosia, 11, 18
- Visual field, 35, 36, 69, 71–72
 indeterminate, 71–72
 Mach's picture of, 35–36, 49
- Visual potential 77, 131–132
- Voice, the, 158, 161
- Vomeronasal system, 110–111
- Von Senden, 99, 100, 234n6, 243n20
- Waddell, D., 4
- Wade, N., 40, 43, 237n18
- Wallace, J. G., 5, 6
- Watterman, I., 13–14
- Weiskrantz, L., 234n11
- Westphal, J., 155
- White, S., 235n17, 245n1, 248n7
- Williamson, T., 120–122, 234n7
- Wittgenstein, L., 30, 72, 137, 167, 181,
 186, 195, 199, 219, 220, 235–236n1,
 236n1, 246nn2, 3, 247n6
- Wollheim, R., 241n8, 245n2, 246nn10,
 11
- World
 as external memory, 22, 50, 234n13,
 247n4
 as its own best model, 22, 50, 234n14
 perceptual, 156
- Yarbus, A. L., 13
- Zombies, 124, 133