

Index

- 1942 (arcade game), 13
 2001: *A Space Odyssey*, 167
 50 Cent, 156, 401
7th Guest, The, 416
- Aarseth, Espen, 228
 Abbate, Carolyn, 251, 252–3
 Abbott, Chris, 26
 Ace Attorney (series), 187
Acidjazzed Evening, 45
 acoustic ecology, 177, 265
 adaptive music. *See* dynamic music, composing and implementing
Adventures of Tintin: The Secret of the Unicorn, The, 78
Aerobics Studio. *See* *Dance Aerobics*
 Aerosmith, 401
 affect. *See* emotion, game music and
 albums of game music, xxiv, xxviii, 35, 52, 57–8, 72, 225, 257, 378, 386, 389–90, 397, 413–15, 424–5, 427
 aleatoric music, 121, 218
 Alf Lyra wa Lyra (Capcom house band), 378
 algorithmic music. *See* procedural and generative music
Along the Navajo Trail, 334
 Altice, Nathan, 19, 22, 28
 Ambassadors of Funk, 392
 ambient music, xxiv, 85, 89, 97, 102, 124, 127, 313
 ambient sound, 281
 Amiga. *See* Commodore Amiga
Amplitude, 144
 Anderson, Colin, 35–6
 anempathetic music, 106
 anime, relationship with game music, 368, 370–1
 Appalachian music, 123, 324
 Aqua Jet, 107
 archives of game music, 12, 46, 48
 Arnheim, Rudolf, 96
 arousal, game music and, 285–9
 arrangement of game music, 175, 378, 382, 389–91, 407, 409–23, 426, 427–8, 429
 Arsenaull, Dominic, 24, 74
 art music. *See* classical music, game music and
 Assassin's Creed (series), xxxiii–xxxv, 78, 84, 324, 359
 asynchrony. *See* synchronization
 Atari 2600, 13, 18, 19, 29. *See also* TIA (chip)
 Atari VCS. *See* Atari 2600
 Atrium Carceri, 103
 attention, game music and, 160–2, 264, 289–91
Audiosurf, 144, 227
 auditory icons, 107, 177, 180–1, 188, 267
 Austin, John L., 239
 Austin, Michael L., 321
 autoethnography, applied to game music, 162, 168–70, 174, 175
 avatars, music and, xxxiii, 61, 68, 70, 101, 102, 107, 108, 130, 132, 144, 156, 161, 181, 255, 285, 293, 295, 296, 298–9, 303, 321, 331–9, 341
 Aversa, Andrew 'zircon', 411, 414, 415, 416
- Bach, Johann Sebastian, 169, 319, 348, 349, 350, 353
 Baldur's Gate (series), 351
Ballblazer, xxiv
BandFuse: Rock Legends, 147
Banjo-Kazooie, 416
 Baranowsky, Danny, 416
 Barnabas, Andrew, 22, 426
 baroque music, 320, 347–9, 350, 351, 353, 357
 Barthes, Roland, 181
 Bartle, Richard, 85
Bastion, 159–74
Batman: Arkham Knight, 89
 battle music. *See* combat music
 Battlefield (series), 116
Battlestar Galactica, 199
 Beanland, Robin, 413
 Beastie Boys, 156
Beat Fever, 399
Beat Saber, 399, 406, 407

- Beatles, The, 404
Beatmania, xxvii, 141, 143, 321
 Beck, 12, 50
Beep (documentary), 4, 9, 379
Beep (magazine), xxiv
 Beethoven, Ludwig van, 165, 222, 353
 Bemani, xxvii, 143
Beneath a Steel Sky, 322
 Bessell, David, 175
Big Bang Theory, The, 151, 393
Binding of Isaac, The, 416
 biofeedback, game music and, 302–18
Bionic Commando, 376, 378, 380, 384–6, 388,
 See also Commando
Biophilia (Björk), 392
 biosensors and biosensory data, 310–13
 BioShock (series), 92, 267, 322, 401
Bit.Trip Runner, 189
 Bizzy B., 8
 Björk, 392
 Blur (band), 373
 BoA (singer), 368
 body, virtual and physical. *See* embodiment
 Bohlman, Philip V., 218
 bootlegging (of music), 46–9
Borgias, The, 350
 Bowie, David, 373, 402
 brain–computer music interfacing, 304–18
 Brame, Jason, 132
 branching. *See* dynamic music, composing and
 implementing
 BRECVEMA (framework), 293–5
 Brick, Andy, 425, 426
 Bridgett, Rob, 59
Brütal Legend, 401
Bubba Ho-Tep, 333
 budgets, 67
 Burial (artist), 392
- C.P.U. Bach*, 144
 C64. *See* Commodore 64
 Cage, John, 121
Call of Duty (series), 157, 405, 416
 Calleja, Gordon, 74, 265, 297
 Campbell, Donald T., 269, 279
Candy Crush Saga, 107–8
 Carlson, Marvin, 241, 242, 246
 Carlson, Rebecca, 360, 362, 374
 Carlsson, Anders, 9, 258, 259
 Cavanagh, Terry, 12
 CD-ROM format, game music and, xxvii, 16,
 17, 34, 35–6, 401
 Celtic music, 172, 345–58
- Centipede*, 403
 chant (liturgical), 320, 347, 353, 354
 Charli XCX, 392
 Chattaway, Jay, 383
 Chemical Brothers, The, xxvi, 16, 35, 397
 Cheng, William, 135, 137, 169, 186, 188,
 411
 Chion, Michel, 77, 88, 96, 106, 179, 273
 chiptune
 adaptations of, 45, 416, 418, *See also* albums,
 of game music *and* concerts, of game
 music
 and baroque style, 386
 baroque style and, 320, 347–9
 decline of use in games, 34–6
 definitions, 178
 history of, 12–32
 integrating music, sound effects and
 dialogue, 184–7
 as musical genre, xxii, xxiii, xxiv, xxv, xxviii,
 33–51, 258–60, 340, 391, 403
 as part of demoscene, 38–9
 overview, 5–11
 in popular music, 12, 45, 50, 391–2
 techniques of, 12–32, 53, 55–6, 258–60, 384,
 See also trackers (music programmes);
 sound drivers
 term, 17–21
 tuning and, 18, 348
- Chopin, Frédéric, xxii, 5, 319, 392
Chrono Cross, 425
Chrono Trigger, 392
 Cifaldi, Frank, 45
Circus, 319
Civilization IV, xxx, 320, 330–1, 352–3
Civilization V
 Gods and Kings, 353–7
 class, game music and, 322, 334
 classical music, game music and, 56, 57, 120,
 131, 132, 133, 196, 203, 319–21, 322,
 330–1, 347–58, 390, 392, 418, 428, 429,
 430
 cognition, game music and, 70, 75–6, 243–5,
 255, 264, 279, 285–301, 306, 307
- Cohen, Annabel, 75–6
 collaboration, in game music, xxxiii–xxxiv, 60,
 62, 64–73, 110–19, 120–30
- Collins, Karen, xxix, 2, 4, 8, 15, 25, 60, 99, 100,
 102, 103, 176, 179, 193, 265, 266, 380, 391,
 396, 397, 401, 405
- Collins, Phil, 402
 combat music, 61, 69, 77, 82, 85, 89, 91, 98, 116,
 184, 225, 234–7, 300

- Commando*, 23–4, 376, 380, 383–4. *See also*
Bionic Commando
- Commodore, 64, xxiii, 14, 17, 19–21, 26, 380–1,
See also SID (chip)
- Commodore Amiga, xxv, 15, 20, 21, 22, 23, 29,
 34, 259, 260. *See also* Paula (chip)
- Commodore Music Maker, 7, 15
- Conan series (fantasy), 349
- concerts, in games, xxxi
- concerts, of game music, xxv, xxix, 57, 72, 170,
 178, 378, 390, 418, 424–32
- Consalvo, Mia, 361–2, 364
- conversions, of games between platforms. *See*
 ports and versions, music of
- Cook, James, 320
- Cook, Karen, 320, 330, 331, 352
- Cook, Nicholas, 251
- Cool Japan (government initiative), 365
- copyright, 37–51, 150–1, 397
- Corliss, Jonathan, 360, 374
- Coulton, Jonathan, 402
- crackers and cracktros, 7, 37–51, 258. *See also*
 demoscene
- Crash Bandicoot*, 107
- Crazy Taxi*, 107
- Creatures*, 38
- cutscenes, music for, 132, 178, 333, 335, 337,
 368
- Daft Punk, xxx
- Daglish, Ben, 45, 348
- Dance Aerobics*, xxv, 142–3, 149
- Dance Central*, 143, 398
- Dance Dance Revolution*, xxvii, 2, 104, 141, 143,
 149
- dance games, 142–4, 149, 151
- Dancing Stage*. *See* *Dance Dance Revolution*
- Dandy Warhols, The, 373
- danger, game music and, 78, 101, 164, 234, 236,
 237, 286, 287, 290, 302. *See also* *combat*
music
- DAWs. *See* Digital Audio Workstations
- Day After Tomorrow (band), 369
- DDR. *See* *Dance Dance Revolution*
- de Vol, Frank, 383
- Dead Space*, 100–1
- Deal with the Devil*, 175
- Def Jam Rapstar*, 145, 150
- Def Jam Vendetta*, 156
- Delta*, 25
- demoscene, 7–8, 33–51, 258, 259
- Derivière, Olivier, 92
- Devo, 146
- dialogue, as part of game soundscapes, 111,
 128, 176–8, 181–2, 183, 187
- diegetic music, xxviii, xxxiv–xxxv, 35, 109, 124,
 132, 169, 178, 193, 267, 347, 350, 400–1,
 402
- difficulty, game music and, 288
- Digital Audio Workstations (DAWs), 14, 420
- Dirty Dozen, The*, 383
- disability, game music and, 323
- Discord, 4, 123, 421
- Dishonored (series), 76, 85, 267
- DJ Hero*, xxx, 149, 321
- Donkey Kong*, 131, 403
- Donkey Kong Country* (series), 12, 413,
 416
- Donkey Kong Jungle Beat*, 148
- Donkey Konga*, 52, 148
- Donnelly, K.J., 62, 87, 166–7
- Doom*, 402
- Doom* (2016 game), 88
- Dragon Quest* (series), xxiv, xxv, 184–7, 349,
 366, 367, 389, 390, 425
- Dragon Warrior* (series). *See* *Dragon Quest*
 (series)
- Drake, 12, 392
- drivers. *See* sound drivers
- DRM (Digital Rights Management), 39, 50
- DropMix*, 149
- Dungeons & Dragons*, 349
- Dwelling of Duels, 416
- dynamic music
 and the CD-ROM format, 36
 composing and implementing, xxv, 60, 61,
 62, 65, 67–71, 74–93, 94–109, 114, 115
 early examples, 5
 and psychophysiological responses,
 304–18
 signification of, 77, 161, 225, 226, 234
 terminology, 60, 99, 193
- dys4ia*, 122
- EA Sports (brand), music in, 397–8, 402
- Eagleton, Terry, 327
- earcons, 107, 180–1, 182, 188–92, 267
- education, games and music, 58, 147
- Ekman, Inger, 294
- Elder Scrolls, The* (series), 76, 82, 99, 228–37
- electronic dance music, xxii, xxiii, xxvi, 8, 45,
 50, 53, 56, 57, 259, 365, 372, 373, 390, 397,
 418, 419
- Electroplankton*, 145
- Elliott, Jake, 120–30
- Ellis, Carolyn, 168

- embodiment, 142, 143, 182, 187, 249, 252–5, 256, 261, 266, 271, 285, 292, 294, 295, 296–9, 301, 323, 332, 333
- emotion, game music and
 cognitive approaches, 291–6
 density of cues, 114–16
 feedback and, 78, 83, 98, 102
 identity and, 130, 341
 immersion and, 266
 physiological responses, 302–18
- emulation, 10, 13, 410, 413
- environment
 fictionality and music, 137, 184, 229, 234, 267, 324, 345–58, 400, 404
 geographic settings, game music and, xxxiv–xxxv, 55, 102, 127, 229, 267, 320, 324–5, 347, 353, 363, 366, 400
 landscape, game music and, 16, 103, 268
 realities, sound and presence, 94, 95, 96, 100, 118, 179, 265, 283, 299
 sonic stimuli and, 285, 289, 295
 soundscapes, 134, 176, 177
 spatial qualities, game music and, 61, 70, 77, 84, 98, 99, 101, 108, 109, 214, 216, 217, 225, 226, 263–8, 315
 virtuality and music, 95, 96, 97, 100, 101–3, 188, 189, 224, 263–8
- environment, sound and, 280–2, 283
- environments
 geographic settings, game music and, 178
- Epic Mickey*, 84
- ergodic texts, 228, 298
- esports, xxxi, 405–6, 414
- Eternal Sonata*, 392
- ethics, game music and, 129, 315
- exoticism, 324, 352, 353, 363
- Fahrenheit 3000*, 348
- Fallout (series), 135, 169, 227, 267, 359
- Famicom. *See* Nintendo Entertainment System, music and technology of
- fandom, 7, 12–13, 47, 51, 72, 137, 151, 155, 247, 251, 258–60, 390, 391, 409–23, *See also* demoscene; chiptune, as musical genre, and demoscene
- Fantasia: Music Evolved*, 150
- fantasy (genre), 187, 228, 345–58
- Far Cry (series), 76, 79, 322
- Fechner, Winfried, 426
- Feldman, Morton, 121
- Fez*, 416
- FIFA 2005*, 402
- film music, relationship with game music, 2, 54, 58, 59, 64, 66, 70, 74, 75–6, 79, 81, 84, 87, 101, 111, 112, 116, 121, 131–2, 159, 176, 177, 193, 214, 219, 229, 231, 267, 302, 322, 331, 333, 334, 343–6, 349–51, 358
- Final Fantasy (series), 170, 366, 367, 375, 429, *See also* *Final Symphony* (concert and album)
Final Fantasy IV, 133
Final Fantasy IX, 321
Final Fantasy VI, 135, 322, 323, 415
Final Fantasy VII, 414
Final Fantasy XV, 83, 359
- Final Fight*, 376
- Final Symphony* (concert and album), 427–8, 430, 431
- first-person shooters, 176, 265
- Fischer-Lichte, Erika, 242, 249
- Flower*, 189
- FM synthesis, 6, 20, 29, 34, 384, 386
- FMOD. *See* middleware
- folk music, 124, 127, 128, 130, 229, 324–5, 346
- Follin, Tim, 23, 376, 384–6, 387
- formal analysis, 196–202
- Fortnite*, xxxi, 166
- Frankie Goes to Hollywood, 146
- Frequency*, 144
- Fritsch, Melanie, 137, 419
- Frogger*, xxiii, 29, 403
- Fujita, Harumi, 376, 381, 384–6
- Furtado, Nelly, 45
- Gabriel Knight 2: The Beast Within*, 392
- Gabriel, Peter, 146
- Galaga*, 6
- Galaga 3*. *See* *Gaplus*
- Galway, Martin, 6, 24, 26
- Game Boy, xxviii, 19, 21, 50
- Game Boy Advance, 17
- Game Music Initiative, Inc.*, 417
- Games Convention (Leipzig), xxix, 425–6, 427
- Gaplus*, 52, 54, 57, 389
- Gates, Bill, 40–2, 47, 49
- gender, game music and, 151, 322–3, 333, 338, 339, 342, 376–88, *See also* masculinity, game music and
- General Instrument (chips by), 5, 13, 29
- generative music. *See* procedural and generative music
- Genesis (console). *See* Sega Mega Drive/Genesis
- genre of games, and music, 61, 62, 65, 79

- gestalt approaches, 96, 248, 249, 250, 253, 256, 257
- Get Even*, 92
- Ghostface Killah, 156
- Ghosts 'n Goblins*, 376, 386
- Ghouls 'n Ghosts*, 376, 380, 386–7
- Giacchino, Michael, xxvii
- Gibbons, William, 132, 134, 294, 319, 321, 348, 349, 418
- (G)I-dle, 405
- glitches, 70, 71
- Goehr, Lydia, 194
- Gone Home*, 323
- Gorbman, Claudia, 75, 177
- Gothic*, xxviii
- Grammy Awards, xxx
- Gran Turismo (series), 371–4
- Grand Theft Auto (series), xxviii, 2, 35–6, 107, 314, 321, 400–1, 402
- Grandia II*, 132
- Grandmaster Flash, xxx
- Graves, Jason, 101
- Grimshaw-Aagaard, Mark, 265, 266, 294, 297
- Guitar Hero*, xxix, 2, 78, 104, 132, 133, 136, 141–2, 147, 148, 150, 151, 152, 156, 173, 241, 244, 246, 249, 252, 253, 323, 398, 399, 408, *See also Rock Band*
- guitar, signification of, 333–8
- Gun Fight*, xxii, 5
- Gyruss, 18, 29
- Half-Life 2*, 92
- Halo (series), 69, 99
- Halo 3*, 225–6
- Hamauzu, Masashi, 427, 431
- Hamurabi*, 343
- Hardanger fiddle, 346
- Harmonix, 398–9, *See also Guitar Hero and Rock Band*
- Hataya, Naofumi, 372
- hermeneutics, applied to game music, 162, 163–7
- Hero Quest*, 23
- Hershey, John, 44
- Hibino, Norihiko, 416
- hip-hop, xxii, 22, 142, 145, 149, 151, 155–6, 321, 340
- historical music in games, xxxiv–xxxv, 343–58
- history, of game music, 12–32, 388
- Höltgen, Stefan, 9, 10
- Hosono, Haruomi, xxiv, 52, 56, 57, 389, *See also Yellow Magic Orchestra*
- How to Train Your Dragon (series), 345
- Hubbard, Rob, 6, 9, 14, 23–4, 26, 27, 376, 383–4
- Hülsbeck, Chris, xxiv, xxix, 6, 7, 8, 9, 259, 424, 431
- Human Race, The*, 25
- Husserl, Edmund, 170, 171, 173
- Hyper Light Drifter*, 416
- I Am Alive*, 82
- IBM, 41–2
- identity, game music and, 127, 130, 182, 298, 299, 327–42, *See also avatars, music and, and embodiment*
- immersion, 2, 79, 94, 95, 100, 102, 116, 265–7, 276, 277, 296–9, 306–7, 316, 317
- immersive fallacy, 265
- iMUSE, xxv, 69, 314
- incorporation (Calleja), 284, 295, 296, 297, 299, 301
- indeterminacy, musical, 61, 68, 74, 88, 92, 121, 133–5, 193–219
- indie games, music for, 120–30
- informative sound. *See auditory icons and earcons*
- Inside*, 117–18
- interactive music. *See dynamic music, composing and implementing*
- intermedial relationships, of game music, 343–58
- intersubjectivity, 332, 337, 342, *See also avatars, music and*
- Ivănescu, Andra, 267, 322
- Iwabuchi, Koichi, 362, 364, 367, 370, 371
- Iwai, Toshio, xxv
- Jackson, Michael, xxvi, 137, 146, 401
- Jamiroquai, 402
- Jarre, Jean-Michel, 22
- Järvinen, Aki, 295
- jazz, 24, 194, 348, 365, 390, 392
- Jenkins, Henry, 409, 419, 420
- Jørgensen, Kristine, 181, 263, 267
- Journey* (1983 video game), xxiii
- Journey* (2012 game), xxx, 80
- Journey (band), xxiii, 146, 401
- Journey Escape*, 392, 401
- J-pop, 365, 368, 369, 370, 371
- JRPG. *See role-playing games*
- Just Dance*, 143
- Juul, Jesper, 409
- K/DA (band), xxxi, 405–6
- Kaae, Jesper, 98
- Kai, Toshio, 52

- Kamp, Michiel, 135, 268
 Kanaga, David, 121, 122
 karaoke games, 145, 149, 151
Karaoke Revolution, 145, 149
 Kärjä, Antti-Ville, 396, 402
 Katamari (series), 362–6, 369
Katamari Damacy, 52
 Kaufman, Jake, 416–17
 Kawaguchi, Hiroshi, xxiv
 Kawamoto, Tamayo, 376, 383–4, 386–7
 Kawashima, Motohiro, xxvi
 Keino, Yuriko, 6, 52, 389
 Kemenczy, Tamas, 120–30
Kentucky Route Zero, 120–30, 324
 kinesonic synchresis, 179, 266
 Kingdom Hearts (series), 430
 Kinnunen, Teijo, 259
 Kirkhope, Grant, 413, 416
 Knight, Mark, 34, 38, 39
 Knorr, Geoff, 353–7, 358
 Kondo, Koji, 6, 24–5, 31, 256, 257, 288, *See also*
Mario (game character and series) and
Legend of Zelda, The (series)
 KORG DS-10, 145
 Koshiro, Yuzo, xxvi, 52, 424
 Kotlinski, Johan, xxviii
 K-pop, xxxi, 405
 Kraftwerk, 50
Krakout, 348
 Kramer, Jonathan, 174
 Kramer, Lawrence, 164
 Kravitz, Lenny, 374
 Kyd, Jesper, 8

L.A. Noire, 137, 153, 267
 landscape. *See* environment, landscape, game
 music and
 Langston, Peter, xxiv
 Lanier, Jaron, xxiii
 Laroche, Guillaume, 3, 132, 238
Last of Us, The, 116, 331–9
Lazy Jones, 12, 45
League of Legends, xxxi, 404, 405–6
Left 4 Dead (series), 76, 264
 Leftfield, xxvi, 35, 397
 Legend of Zelda, *The* (series), 132, 134, 151,
 393, 430
Breath of the Wild, 300
Legend of Zelda, The (1986 game), 24, 284,
 287, 296
Ocarina of Time, 69, 137, 146, 154–5
Skyward Sword, 133
Twilight Princess, 264

 leitmotif, xxxiv, 76, 313, 314, 333–8
 timbre as, 333–8
Lemmings, 35
 Lerner, Neil, 131
 Lewin, David, 195, 210, 212, 213–14, *See also*
 neo-Riemannian analysis
 Lewis, Leona, 402
Limbo, 89, 117–18
LIPS, 149
Little Nightmares, 89
 Little Sound DJ. *See* LSDJ
 Lloyd Webber, Andrew, 391
 Lloyd, David. *See* OverClocked ReMix
 localization, musical approaches to, 359–62
Loom, 146
 looping, as game music technique, xxiii, 31, 61,
 67, 68–9, 98, 138, 268, 290–1, 315, 320,
 348, 366, 390
Loot Hound, 118
 Lord of the Rings (films), 212
Lord of the Rings Online, 137
 Lord of the Rings, *The* (books), 351
Lost World: Jurassic Park, The, xxvii
 LSDJ (Little Sound DJ), xxviii
 LucasArts. *See* iMUSE
 Ludacris, 156
 ludic music, 74–93, 164
 ludomusicology, 3, 238, 239, 240
 ludonarrativity, 78, 81, 82, 93, *See also* ludic
 music, *See also* narrative, game music and
 Lunar (series), 132

 Machaut, Guillaume de, 353–7
 Mafia (series), 401
Make My Video, 147
 Mario (game character and series), 30, 133,
 138, 188
 Automatic Mario videos, xxix
Mario Kart 8, 188
Mario Paint Composer, 144, 153, 391
Super Mario Bros., 6, 23, 24–5, 31, 132, 175,
 181, 183, 184, 253–7, 288, 289, 297, 392,
 393
Super Mario Galaxy, 189–92, 195–219
Super Mario RPG, 412
Super Mario World, xxix
 Marley, Damian, 79
 Marshall, Dominic J., 392
 masculinity, game music and, 333, 334, 336, *See*
 also gender, game music and
 mass (sacred musical composition), 353–7
 Mass Effect (series), 416
 Master System. *See* Sega Master System

- Matsumae, Manami, 15, 376
 Matsuura, Masaya, xxvii
 Mattel Intellivision, 13
 Max Payne (series), 92, 402
 May, Brian, 401
 McAlpine, Kenneth B., 24, 25
 McCartney, Paul, 402
 McDermott, Joe, 416
 McGurk effect, 271–2
 medieval music. *See* medievalism
 medievalism, 321, 324, 345–58
 Medina-Gray, Elizabeth, 134, 173
 Mega Drive. *See* Sega Mega Drive/Genesis
 Mega Man (series), 15, 297, 298, 414, 415
 Merregnon (albums), 424
 Messiaen, Olivier, 122
 Metal Gear Solid (series), 392, 416
 Metallica, 398, 402
 Metroid, 296
 Mickey-Mousing, 78, 80, 82, 99, 256
 Microsoft, 37, 40–2
 Middle Ages. *See* medievalism
 Middle Earth: Shadow of Mordor, 82
 middleware, 14, 59, 60, 67, 89, 94, 99, 114, 225, 313
 MIDI, xxiii, xxv, xxvi, 6, 14, 35, 410
 Miller, Kiri, 136, 151, 241–2, 321, 400, 408
 Minecraft, 166
 Mini Metro, 61
 minimalist music, 127
 Miracle Piano Teaching System, 147
 Missing in Action, 383
 mixing of game music, 111–19
 Miyake, Yuu, 52
 MOD format, xxv, 16, 259
 Monkey Island (series), xxv, 30, 69, 315
 Monroe, Bill, 124, 130
 Monty on the Run, 26
 mood. *See* emotion, game music and
 Moondust, xxiii
 Moonwalker (game), xxvi, 146, 401
 morality, game music and, 135
 Mori, Ayako, 376, 386–7
 Morrowind. *See* Elder Scrolls, The (series)
 Mortal Kombat (series), 157, 416
 Moseley, Roger, 3, 138, 196, 238
 motif. *See* leitmotif
 Mozart, Wolfgang Amadeus, 353
 mukokuseki, 370–1
 Murray, Janet, 165
 Music (1998 programme), 144
 Music Construction Set, 144
 music engine. *See* middleware
 music games (genre), xxvii, xxix, xxx, 2, 135–7, 140–58, 241, 249, 323, 398–400, 404
 music, as part of game soundscapes, 178, 182–92
 musicking. *See* Small, Christopher
 musification, of data, 312
 Musika, 146
 muzak, 291
 My Singing Monsters, 153
 Namco compilation albums, xxiv, 52, 257, 389
 Namco, in-house music at, 6, 13, 23, 52–8
 narrative, game music and, xxxv, 70, 74–93, 116, 125, 127, 128, 153, 155, 159–60, 161–2, 165, 174, 193, 200, 202, 284, 302, 307, 309, 314, 333, 335, 346, 348
 Nasenbluten (group), 8
 NBA Street, 156
 Need for Speed (series), 402
 Nelly, 156
 neo-Riemannian analysis, 133, 204, 210–18
 NES, 21, *See* Nintendo Entertainment System, music and technology of
 neuropsychological response, 304–18
 neurosympathetic responses, 314
 Nevermind, 303, 315
 NEXT Music, 399
 Nico Nico Douga, xxix
 Nilsen, Spencer, 372
 Nine Inch Nails. *See* Reznor, Trent
 Nintendo 64, 17
 Nintendo DS, 17, 142, 145
 Nintendo Entertainment System, music and technology of, 6, 13, 15, 17, 19–21, 23, 24–5, 30, 183, 184–7, 348, 349, 385, 390
 Nintendo Fusion Tour, 405
 Nintendo Wii, 19
 Nishikado, Tomohiro, 5
 No Man's Sky, xxix, 61
 No One Lives Forever, 69
 non-player characters (NPCs), 76, 81, 82, 91, 156, 335, 338, 347
 nostalgia, xxxi, 229, 233–4, 237, 267, 321, 339–40, 345, 385, 391, 401, 411
 NPCs. *See* non-player characters (NPCs)
 O'Donnell, Martin, 80
 Obarski, Karsten, xxv, 7, 15, 16, 259
 Oblivion. *See* Elder Scrolls, The (series)
 OC ReMix. *See* OverClocked ReMix
 Ocean, Frank, 340
 Ocean Software, in-house music at, 26
 Offspring, The, 107

- Ogata, Masafumi, 372
 Ohira, Isamu, 373
 Ohnogi, Nobuyuki, 52, 57
Old City: Leviathan, The, 102–3
Omikron
 The Last Nomad, 402
 Orbital (band), xxvi, 16, 35, 397
 orchestras, game music and, xxiv, xxv, xxvii,
 xxix, xxx, 34, 56, 57, 71–2, 110, 229, 390,
 424–32
 orchestrator, 72
 Othering, game music and, 328, 329, 330, 332,
 See also stereotyping, game music and
Otocky, xxv, 144
OutRun, xxiv
 OverClocked ReMix, 409–23
 Ozawa, Junko, 6, 9, 13, 23, 52–8, 389
- Pac-Man*, 6, 183, 213, 396
Pac-Man Fever, xxiii, 391, 403
 Page, Jimmy, 252
PaRappa the Rapper, xxvii, 142
 participatory culture, 7, 175, 247, 258, 391, 416,
 420, 422
 Paul, Leonard J., 9, 260
 Paula (chip), 5, 7, 20, 21, 22, 34
 PC speaker, 30
 Peirce, Charles Sanders, 220–1
 perception, game music and, *See also* phe-
 nomenology, applied to game music
 cognition, 285–301
 emotion and, 305–7
 semiotics and, 227
 sound and reality, 269–83
 synchronization, and, 94–109
 performance, of games and music, 238–61, *See*
 also music games (genre)
 Phantasy Star (series), 366
Phase: Your Music Is the Game, 150
 phenomenology, applied to game music, 109,
 162, 170–4
 Phillips, Winifred, 59, 68, 379
 physiology, game music and, 265, 285–301,
 302–18
 piracy, 37–51
 Plank, Dana, 323, 391
Plants vs. Zombies, 104–6, 166–7
 platform studies and chip music, 19–23
 play, of games and music, 3, 137–8, 140, 152,
 191, 238–61
 PlayStation, xxvi, 16, 17, 34, 35, 340
 PlayStation 2, music on, 373
 PlayStation 3, 19
 PlayStation 4, 16
 PlayStation, music on, 397
 Poets of the Fall, 402
 POKEY (chip), 5, 34
Pong, xxii, 5, 182
 Portal (series), 133, 201, 402
 ports and versions, music of, 19, 29, 52, 148,
 359–75, 376–88
Power Factory Featuring C+C Music Factory,
 147
Power Gig: Rise of the SixString, 147
 presence, and sound in virtual worlds, 263,
 269–83
 preservation, of game music, 9–10
Pressure Cooker, 18
 procedural and generative music, xxiv, xxv,
 xxix, 61, 70, 93, 152, 304, 314, 316
 production, of game music, xxxiii–xxxiv, 55–7,
 60, 62, 64–73, 110–19, 120–30
 programmable sound generators (PSGs). *See*
 chiptune
Proteus, 61, 121
 PSGs. *See* chiptune
 psychology, game music and, 265, 285–301,
 302–18, *See also* perception, game music
 and, *See also* cognition, game music and
 synchronization, 94–109
Punch Out!!, 322
 punk rock, 48, 107, 323
 Pycha, Petr, 425, 426
- Quake*, 97, 102, 401
Quest for Fame, 141
Quo Vadis (film), 344
 quotation, musical, 319–21
- race, game music and, 321–2
 racing games, xxiv, 227, 264, 371–4, 397
 radio broadcasts of game music, xxx, 18, 28,
 225, 390, 426
Rally-X, 29
 Ramsdell, D. A., 281
 Randel, Don Michael, 194
 Raveonettes, The, 53
 Raybould, Dave, 267
Rayman Legends, 79
Rayman Origins, 85, 156
 reactive music. *See* dynamic music
 Reale, Steven, 137, 138, 364
 realism, 267, 276, 277, 282, 297, 298
Recordshop Tycoon, 147
 Red Book (audio standard), 16
Red Dead Redemption, 88

- reductive analysis, 133, 202–10
 Reed-Danahay, Deborah, 168
 Reese, Emily, xxx
 Reich, Steve, 22
 Renaissance music, in games, 321, 347, 350, 353
Resident Evil 4, 132
Return of Video Game Music, The (1985 album), 57, 389
Revolution X, 401
Rez, xxviii, 144, 408
 Reznor, Trent, 97, 401
Rhythm Heaven/Rhythm Paradise, 142
 Richardson, John, 177
Ridge Racer, 16
 Riemann, Hugo. *See* neo-Riemannian analysis
 Right Said Fred (band), xxvi
Rio Bravo, 334
 Riot Games, xxxi, 405–6, 407
 riot grrrl, 323
Rise of the Robots, 401
Robin Hood (2010 film), 345
Rock Band, 136, 141–2, 148, 151, 156, 323, 398, 404
Rock Manager, 147
Rock Star Ate My Hamster, 147
Rocksmith, xxx, 147, 156
 Rockstar Games, 400–1
 Roget II, Wilbert, 416
 Rohan, Emma, xxxv
 Roland sound technology, 22, 29, 30
 role-playing games, xxxi, 61, 84, 99, 161, 170, 184–7, 228, 295, 298, 313, 324, 325, 349, 366–71, 376
Rolling Thunder, 52
 Rószka, Miklós, 343
 Roth, Arnie, xxix
 Ryerson, Liz, 122
- Saint-Saëns, Camille, xxv
 Sakuraba, Motoi, 368–71
 Salen, Katie, 265
Samba de Amigo, 148
 Sanger, George, 3, 59, 350, 416
 Saunders, Jesse, xxiii
 Schartmann, Andrew, 6, 132, 256
 Schell, Jesse, 248
 Schenker, Heinrich, 194, 202–10
 Schnur, Steve, 397–8
 Schules, Douglas, 366, 367
 Scott, Derek, xxxiv
 Scott, Travis, xxxi
Scott Pilgrim vs. the World, 393
 Sega Master System, 29
 Sega Mega Drive/Genesis, 20, 21, 29
 Sega Saturn, 17
 Sega Sound Team (SST), xxv
Shadow of the Colossus, 134
Shantae, 416
 Shaw, Adrienne, 339, 341, 342
 Shimomura, Yoko, 6, 376, 377, 382
Shovel Knight, 416
 Shultz, Peter, 133
 SID (chip), xxiii, 5, 7, 13, 20, 21, 23–4, 25–6, 29, 30, 31–2, 34, 45
 High Voltage SID Collection, 12, 46, 48
 silent film music, relationship with game music, 131
Silent Hill (2006 film), 393
Silent Hill (series), 84, 188, 393
Silver Surfer, 23
Simon (1978 game), 141, 143, 146
 Sims, The (series), 402
 SingStar (series), 145, 372, 373
 Skrillex, 79, 402
Skyrim. *See* Elder Scrolls, The (series)
 Slater, Mel, 274, 275, 276
Sly 3: Honor Among Thieves, 77
 Small, Christopher, 251, 259
 Smetana, Bedřich, 222
Sniper Elite V 2, 82
Sole, 416
SongPop, 146, 152, 153
 Sonic the Hedgehog (series), xxvi, 372, 392
 sonic virtuality, 271–4
 sonification, of data, 312
 Sony PlayStation. *See* PlayStation
 SoulCalibur (series), 416
 Sound Blaster, 29
 sound drivers, 25–8, 31, 32, 44, 46, 52, 55–6
 sound effects, defining in games, 179–81
 sound effects, relationship with music, 1, 25, 89, 92, 95, 111–19, 182–92, 287, 290, 295, 297, 298, 300
 sound, defining, 270–4
 sound chips, 5–11, 12–32
 sound chips, modern emulations and reconstructions, 12–13, 31, 413
South Park, 151
Space Channel 5, xxvi, 142
Space Invaders, xxii, 1, 5, 17, 29, 31, 294
Spacewar!, 28, 343
 Spectrum 128, 13
 speech. *See* dialogue, as part of game soundscapes
Spice World (game), 142
Spider-Man (2018 game), 78, 91

- Splinter Cell*, 68
Spore, xxix, 61
 sports games (genre), 392, 397–8, 404
 Spotify, 399, 407
 St. Lunatics, The, 156
Stalker: Shadow of Chernobyl, 426
Star Trek: Klingon, 393
Star Wars (film), 199, 396
Star Wars: Galaxies, 137
 startup sounds, 339–40
 statelessness (aesthetic approach). *See* *mukokuseki*
 stems, 68, 69
 stereotyping, game music and, 322, 324, 331, 352, 362, 374
 Stevens, Richard, 267
 Stig Andersen, Martin, 117
 Stockburger, Axel, 263
Stories: The Path of Destinies, 84
 Strauss, Richard, 167, 174, 429
 Street Fighter (series), 376, 392, 413–14
 Streets of Rage (series), xxvi, 52
 Strötgen, Stefan, 250–1
 Sugiyama, Koichi, xxiv, xxv, 184, 425
Super Hexagon, 12
 Super Mario. *See* Mario (game character and series)
 ‘Super Mario Land’ (1992 song), 392
Super Meat Boy, 416
 Super Nintendo Entertainment System (SNES), 29
Super Xevious, 57, 389
Super Xevious (album), 52
 Švelch, Jan, 403, 404
 Sweeney, Mark, 137, 268
 Sweet, Michael, 59, 98, 188
 Swink, Steve, 248, 255
 SWIV, 22
 synaesthesia, 136
 synchresis, 96, 179, 273
 synchronization, 74–93, 94–109
 synthwave, xxiv
 Szczepaniak, John, 381
- Taiko Drum Master: Drum ‘n’ Fun*, 150
Taiko no Tatsujin, 141, 148
 Tales (series), 366–71
 Tallarico, Tommy, 418
 Tam, Nicholas, 3, 238
 Tamiya, Junko, 376, 381, 385–6
 Tanaka, Haruhisa ‘hally’, 9, 325
Tangledeep, 416
Tap Tap Revenge, 150
- TastemakerX*, 147
 teaching music through games, 147, 393
 Tel, Jeroen, 6
 television music, relationship with game music, 54, 58, 64, 66, 70, 71, 74, 81, 193, 214, 219, 302, 331, 349–51, 358, 368, 393, 403
 temperament of sound chips, 18, 348
 Tencent, 407
 Tessler, Holly, 397
Tetris, 68, 98, 165, 265, 324, 363
 ‘Tetris’ (1992 song), 391
 Texas Instruments (sound chips), 5, 20, 29
 The Flight (composers), xxxiv
 thematic analysis, 132, 133, 196–202, 228–37, 384, 385, 386, 387. *See also* reductive analysis
Thief (2014 game), 82
Thompson Twins Adventure, The, 392
Three Amigos, 334
Threes!, 416
 TIA (chip), 18, 19, 29, 34
 Timbaland, 45
 Tin, Christopher, xxx
 Tobin, Amon, 402
 Tokyo Machine, 12
Tom Clancy’s Splinter Cell. *See* *Splinter Cell*
 Tomb Raider (series), 77, 89
Top Score (radio programme), xxx, 390
 topic theory, 133
Tower of Druaga, The, 52, 53, 56, 57, 389
 trackers (music programs), xxiv, xxv, xxviii, 7–8, 14, 15–16, 29, 38, 259, 260
 traditional music. *See* folk music
 trailers, for games, 72, 403–5
 transformational analysis, 210–18
 transmediality, game music and, 403–7
 Tripod (band), xxxiv
 Troise, Blake, 9
 tuning. *See* temperament of sound chips
 Twitch Records (Sega label), 405
 Twitch.tv, 4, 407, 421, 422
 Tyndall, John, 270
- Uematsu, Nobuo, xxviii, 6, 424, 426, 430. *See also* Final Fantasy (series)
 Ultima (series), 246, 366
 Ultimate Band, 150
 Uncharted (series), 116
Undertale, xxx, 187
 Underworld, xxvi
- Valtonen, Jonne, 427
 van Elferen, Isabella, 132, 164, 266

- van Leeuwen, Theo, 187, 222
 variations, musical, xxvi, 68, 69, 99, 108,
 196–202, 207, 229–33
 versions, of games. *See* ports and versions,
 music of
Vessel, 78
 VGMix (website), 416–17
Vib-Ribbon, 16, 142
Video Game Music (1984 album), xxiv, 52, 389
 Video Games Live, 413, 418
 Viklund, Simon, 385–6
 virtual reality. *See* VR (virtual reality)
Virtual VCR: The Colors of Modern Rock, 147
 voice acting. *See* dialogue, as part of game
 soundscapes
 voice chat, 182
 VPick, 141
 VR (virtual reality), 274, 275, 277, 278, 311,
 313, 399, 406, 407
 Vreeland, Rich, 416
 vvvvvv, 12
- Wagner, Richard, 167, 392
 Walder, Colin, 91
 Wanamo, Roger, 427
Warcraft II, 351
Wargroove, 416
Watch Dogs, 76
 waveforms, xxiii, 6, 9, 13, 14, 18, 19–23, 26, 27,
 30, 31, 34, 38, 53, 55–6, 178, 182–4, 187,
 234, 348
 West, Kanye, 392
 Western (genre), 333, 334
Western Gun. *See* *Gun Fight*
 Whalen, Zach, 164, 165
 White, Jack, 252
 Whittaker, David, 12, 45
- Wii Fit*, 104
Wii Music, 142, 150
Wing Commander, 34
 Wintory, Austin, xxx, xxxiv, 80
Wipeout, xxvi, 16, 35, 397
 Wise, David, 12, 413, 416
Witcher 3, The, 82, 88, 91, 324, 346–7, 357, 359
 Wiz Khalifa, 392
 Wizardry (series), 366
Wizball, 24
Wolfenstein: The New Order, 267
World of Warcraft, 313
 Wright, Nigel, 391
 Wright, Tim, 35, 397
Wu-Tang: Shaolin Style, 156, 401
 Wwise. *See* middleware
- Xbox 360, 19
 Xbox One, 16
Xenoblade Chronicles, 133
Xevious, 57
Xevious (album), 57
- Yakuza (series), 362
 Yamaha, sound chips by, 6, 29
 Yannes, Robert, xxiii
 Yellow Magic Orchestra, xxii, 52, 56, 389, 403
Yooka-Laylee, 413
 Young, David, 372
 YouTube, game music on, 4, 72, 170, 175, 178,
 247, 390, 406, 407, 415, 421
- Zimmerman, Eric, 246, 247, 258, 265
 Zombie Nation, 12, 45
Zombies Ate My Neighbors, 416
Zone of the Enders, 416
 ZX Spectrum, 18, 19