

Language Index

Where possible, entries are accompanied by their classification one level higher within parentheses. Classifications may differ across various sources, since language genealogy often depends on the kinds of historical evidence considered. The reader is advised to refer to historical linguistic studies for argumentation which falls outside the purview of this volume. A good source is the website *Ethnologue*.

- Akan (Kwa), 98
 Angas (Chadic), 63
 Ashuku (Mbembe), 61
 Atlantic (Niger-Congo), 63
- Bade (Chadic), 208
 Bambara (Mande), 28
 Bamileke (Grassfields Bantoid), 135
 Dschang, 97, 98
 Feʔfeʔ, 63
 Bantu (Benue-Congo), 9, 28–30, 32, 37,
 63, 98–99, 105, 127, 183, 193, 195,
 201, 212
 Bariba (Mande), 62
 Baule / Baoulé (Kwa), 232
 Bengali (Indo-Aryan), 46
 Bolanci (Chadic), 201
 Boshan (Jilu/Shandong Mandarin), 131,
 224–225
 Burmese (Ngwi-Burmese), 204–206
- Cantonese, Standard-/Hong Kong/
 Guangzhou (Yue), 8, 9, 30, 47–48,
 51, 62, 63, 67–68, 95–97, 144, 146,
 156, 158, 202, 207, 221, 226,
 227–230, 255, 256, 259–260, 262,
 263, 271, 272–273
 Chadic (Afro-Asiatic), 22, 26, 63, 201,
 208
 Cham, Eastern (Malayo-Sumbawan), 211
 Changsha (Xiang), 56–57, 156, 158, 220,
 255
 Changting (Hakka), 239, 240
 Chaozhou / Shantou / Teochew (Min),
 64, 67–68, 79–81, 83–84, 85–87, 90,
 99, 103, 144, 149, 202, 207, 238,
 239, 255, 257–258
 Chatino (Otomanguean), 63
 Chengdu (Southwest Mandarin), 64
 Chichewa (Bantu), 140–141, 144, 155, 273
 Chickasaw (Muskogean), 46–47
 Chimwiini (Bantu), 9
 Chinantec (Ojitlan), 62, 63
 Chinese, Standard (Mandarin), 2–3, 5, 9,
 10–15, 16, 17, 21, 40, 42, 54, 56, 59,
 87, 90, 110–113, 115, 119, 131, 132,
 142, 158, 181, 188–189, 193, 198,
 207, 219–221, 222, 224, 232,
 236–239, 258–260, 261–262, 264,
 268, 269–270, 271, 272–274
 Malaysia, 116
 Singapore, 116
 Taiwan, 8, 113–116, 272
 Chizigula (Bantu), 28–30, 51, 144, 146
 Cilungu (Bantu), 127, 129, 144, 155,
 162–164
 Cupeño (Uto-Aztecan), 172
 Cushitic (Afro-Asiatic), 8, 63
- Dagara-wule (Gur), 201
 Dan (Mande), 61
 Danish (North Germanic), 231
 Dezhou (Jilu/Shandong, Mandarin), 145
 Digo (Bantu), 30, 201
 Dinka (Nilotic), 262
 Dogon (Gur), 63
 Dongbei Mandarin (Mandarin), 198
 Dongguan (Yue), 87
 Dongshi (Hakka), 130, 131
 Dumi (Kiranti), 213

Language Index

317

- Ebira (Nupoid), 63
 Ebrié (Kwa), 98, 201
 Efik (Delta-Cross Bendi), 98
 Engenni (Edoid), 104–107
 English
 Belfast (West Germanic), 46, 47
 British (West Germanic), 47, 94, 264–268
 Hong Kong, 49–51, 226–228, 229–231, 232, 235, 248
 Singapore, 41–42, 94, 231–232
 Standard (West Germanic), 1–2, 6, 9, 15, 16, 31–32, 44–46, 47, 51, 59, 93–95, 110, 157, 204–205, 207, 210, 212, 215, 226, 227–230, 232–233, 251, 264, 268–269, 270, 271, 272–274
 Ewe/Ėwé (Kwa), 63, 81–82, 83, 84, 85, 90, 99, 103, 144, 201, 263

 Fuzhou (Northern Min), 209, 255

 Ga'anda (Chadic), 63
 Gaa (Kwa), 273
 Gaoba Dong (Kam, Tai-Kadai), 60
 Gbaya bokta (Niger-Congo), 201
 German (West Germanic), 9, 16, 42–45, 232, 274
 Greek (Hellenic), 46, 54
 Gur (Niger-Congo), 63, 98, 124, 125, 201

 Haikou (Hainan, Southern Min), 255
 Hailu (Hakka), 142
 Hakha Lai (Kuki-Chin, Tibeto-Burman), 138–139, 184–187, 190, 193
 Hangzhou (Northern Wu), 71–73, 75, 87–90, 91, 144, 146, 155, 157, 255
 Hausa (Chadic), 22–24, 28, 135, 155, 157, 236, 263
 Hefei (Mandarin), 64
 Hindi (Indo-Aryan), 109
 Huojia (Mandarin), 131

 Igala (Yoruboid), 7–8
 Igbo (Igbo), 98
 Igede (Idomoid), 62
 Ikalanga (Bantu), 201, 203–204, 205, 206
 Isixhosa (Bantu), 201

 Japanese, Standard (Japonic), 1–2, 19–20, 21, 142, 172, 234–236, 248, 264–268
 Central Honshu, 8
 Kagoshima, 235
 Jian'ou (Min), 64, 156, 158, 255

 Jiaoxian (Jilu/Shandong Mandarin), 144, 145, 155, 156, 174–177, 182
 Jinan (Jilu/Shandong Mandarin), 64, 145
 Jingpho (Kachin), 208

 Kalami Kohistani (Dardic), 236, 269
 Kammu (also Khmu, Khmutic), 211
 Kasem (Gur), 63
 Kera (Chadic), 22, 26–27, 155, 238
 Kerewe (Bantu), 144, 193–195
 Khaling (Kiranti), 213–214
 Kikuyu (Bantu), 99, 135
 Kimatumbi (Bantu), 37–38, 40, 42, 241
 Kirimi, Cahi- (Bantu), 105
 Kinga (Bantu), 234
 Kiowa (Tanoan), 9, 24, 155, 236
 Kirundi (Southwest Bantoid), 127, 144
 Kishambaa (Bantu), 98, 128, 144
 Konni (Gur), 125
 Kotoko (Chadic), 63
 Kpelle (Mande), 63
 Kporo (Mbembe), 61
 Krachi (Kwa), 105
 Kukuya (Bantu), 32–33, 35, 40, 51, 235
 Kunama (Nilo-Saharan), 30

 Laarim (Southwest Surmic), 125
 Lanzhou (Mandarin), 87–90
 Lao (Tai-Kadai), 273
 Leling (Jilu/Shandong Mandarin), 130–131, 156, 165–166
 Liancheng (Hakka), 158
 Limbu (Kiranti), 213
 Lingxi (Southern Min), 74, 75, 144, 156
 Logo (Central Moru-Madi), 63
 Lokaa (Uppercross Benue-Congo), 144, 146–147
 Longyan (Southern Min), 149, 156, 239
 Lü (Tai), 144
 Luo (Nicolitic), 172
 Luoyang (Mandarin), 74

 Malay (Malayo-Polynesian), 9, 215, 231
 Mande (Niger-Congo), 22, 32, 61, 62, 63
 Mang (Hmongic)
 Shuijingping, 209
 Zongdi, 209
 Mankon (Grassfields Bantoid), 105–107
 Margi (Chadic), 22, 34–36, 40, 42, 51, 71, 75, 155, 157, 158, 159–162, 164, 190
 Mazatec, Soyaltepec (Otomanguean), 63
 Mbay (Chadic), 63
 Meixian (Hakka), 64, 255

- Mende (Mande), 22, 32–33, 35, 40, 70–71,
 75, 125, 135, 144, 146, 152, 155, 157,
 162, 190, 235
 Miao (Hmongic), 60, 61
 Mixtec (Otomanguean)
 Ayutla, 233, 235, 248
 Coatzacoapan, 99
 Peñoles, 99, 106–107
 San Miguel el Grande, 202–203
 Miya (Chadic), 201
 Mong Leng (Hmongic), 209
 Mooré (Gur), 124, 126–128, 144, 152,
 155, 164
 Nanchang (Gan), 64, 220, 255
 Nanning (Yue), 255
 Navajo (Apachean), 22, 24, 155, 236
 Ngamambo (Grassfields Bantoid), 61, 98
 Ngizim (Chadic), 135, 200–202, 203, 206
 Nguni (Bantu), 264
 Nilo-Saharan, 30, 63
 Norwegian (North Germanic), 14, 231
 Nubi (Arabic-based creole), 234
 Nupe (Nupoid), 201–202, 206
 Papago, 38
 Pingyao (Jin), 77, 91
 Po-ai (Tai-Kadai), 63
 Punjabi (Indo-Aryan), 211
 Puyi (Tai-Kadai), 62
 Rimi (Bantu), 128, 144, 156, 164
 Russian (Slavic), 209, 274
 Sanskrit (Indo-Aryan), 54, 236
 Serbo-Croatian (South Slavic), 236
 Sesotho (Bantu), 273
 Shanghai (Wu), 144, 255
 Shangxian (Mandarin), 131
 Shexian (Hui), 255
 Shicheng (Hakka), 264–268
 Shona (Bantu), 128–129, 144, 146, 155,
 164, 190, 262, 263, 269
 Shuangfeng (Xiang), 64, 156, 158
 Siswati (Bantu), 201
 Siya (Kwa), 201
 Slave (Athapaskan), 27
 Slovene (South Slavic), 14, 236
 Somali (Cushitic), 8, 9, 30
 Songjiang (Wu), 70, 79–80, 82, 90, 202,
 207, 211
 Songling (Wu), 211
 Sukuma (Bantu), 29–30, 51
 Supyire (Gur), 98
 Suzhou (Wu), 64, 220, 255
 Swedish (North Germanic), 14, 231, 274
 Tachoni (Bantu), 195–197
 Tai, Wu Ming (Tai-Kadai), 263
 Taishan (Yue), 63
 Taiwanese (Min), 86, 87, 140–142, 144,
 145, 170–173, 176–180, 181, 182,
 220, 238, 239, 255, 274
 Taiyuan (Mandarin), 64
 Taoyuan (Mandarin), 5–6
 Thai (Tai-Kadai), 6–8, 14, 24–26, 42,
 48–49, 51, 77, 232, 257–262, 263,
 264, 264, 269, 272, 273, 274
 Tianjin (Mandarin), 77–78, 137, 140,
 143, 144, 148, 152, 156, 181, 182,
 189–191, 193, 195, 236, 238
 Tibetan
 Balti (Bodish), 231
 Lhasa (Bodish), 231
 Rebkong Amdo (Bodish), 231
 Tokpe Gola (Bodish), 231
 Ticuna (Tichuna-Yuri), 62
 Tiv (Southern Bantoid), 98
 Tohono O'odham (Uto-Aztecan), 38–40,
 42, 240–241
 Toura (Mande), 63
 Trique, (Otomanguean), 62
 San Andrés Chicahuaxtla, 60
 San Juan Copala, 60–61, 63, 68, 87–88
 Tunxi (Hui), 255
 Urumqi Han (Mandarin), 144, 148, 236
 Vietnamese (Viet-Muong), xix, 15–16,
 19, 56, 221, 232, 262, 264, 268, 269
 Wai-tau (Yue), 228
 Wàpà (Junkun-Mbembe-Wurbo), 6–8
 Weert (West-Limburgian Dutch), 209
 Wenbao (Hakka), 156, 158, 167–169
 Wenzhou (Wu), 64
 Wuhan (Mandarin), 64
 Wuxi (Wu), 142
 Xi'an (Mandarin), 64
 Xiamen/Amoy (Min), 140, 144, 145, 182,
 240–241, 255
 Xiangtan (Xiang), 255
 Yangjiang (Yue), 64, 158
 Yangzhou (Mandarin), 64
 Yao (Mienic), 61
 Yay (Tai-Kadai), 63
 Yoruba (Defoid), 6–8, 9, 36–37, 63, 125,
 128, 144, 146, 156, 181, 272, 274
 Zinza (Bantu), 183–184, 187, 193
 Zulu (Bantu), 263

Subject Index

- Absolute pitch, 268, 269
 Accent, 2, 5, 8, 19, 21, 22, 26, 43, 44–45,
 54, 56, 57, 58, 82, 125, 172,
 234–236, 243, 247, 261, 262, 268
 Acoustic, 1, 2, 3, 10, 12, 15, 19, 25, 110,
 111, 123, 134, 136, 143, 221, 231,
 250, 271
 Acquisition, xix, 152, 177, 271–274, 275
 Adduction, 4–5
 Allotone, 172
 Amplitude, 12, 14, 51, 208, 251
 Amusic, 257, 269
 Anti-faithfulness, 172–173, 176, 177,
 178, 182
Anudātta, 54
 Arytenoid cartilage, 4
 Aspiration, 57, 83, 211, 235
 Assimilation, 110, 144, 145, 146, 149
Aṣṭādhyāyī, 54
 Atom, 53–54, 58, 69, 73, 85, 91
 Autosegment, 29, 31, 32–34, 36–38, 40,
 42, 44, 45, 51, 75, 80, 85, 93, 126,
 201, 206

 Backtracking, 190, 191
Bareia, 54
 Bleeding, 192, 193
 Boundary, 30, 31, 38, 40, 42, 43, 44, 49,
 51, 111, 139, 226, 232, 240, 241
 Brain lateralization, 269
 Breathy voice, 5, 15
 Broca's area, 269

 Carry-over effect, 118
 Case
 absolute, 9
 genitive, 8, 139
 nominative, 8, 215
 vocative, 8
 C-command, 40, 101
 Chain shift, 140–141, 145, 170, 172,
 173–175, 180, 182

 Chinese dynasties, 55, 56, 132,
 214–218, 219–221, 222, 223, 224,
 244, 246
Chinese–English Instructor, 228, 230
 Comparative markedness, 172, 176,
 182, 195
 Complex tone, 64–66, 87, 112, 212
 Conspiracy effect, 158, 159
 Constituency, 73–74, 75–76, 142, 189,
 239
 Contour, 12, 43, 44, 46, 51, 51, 70, 71,
 75–78, 79, 84, 85–87, 90, 103, 112,
 118, 119, 121, 130–131, 137, 173,
 177, 207, 212, 262, 270, 272
 Contrastive focus, 241
 Counterbleeding, 192–193, 196
 Counterfeeding, 192–193, 196
 Creaky voice, 5, 16, 204

 de Rhodes, Alexandre (1591–1660), 56
 Depressor consonant, 201–202,
 203–204, 205–207
 Derivational economy, 187, 191
 Derived environment, 172
 Diminutive, 30, 146
 Dionysus Thrax (second to first century
 BCE), 54
 Dissimilation, 110, 144, 145
 Distinctive feature, 66, 83, 223
 Downdrift, 95–100, 102
 Downstep, 36, 98–103, 105–106,
 126–129, 144, 152, 155, 162–165,
 207
 Downtrend, 93–98
 Duan Yucai (1735–1815), 223

 Electroglottography (EGG), 12

 Factorial typology, 167, 169
 Faithfulness, 137, 157, 158, 167, 170,
 171, 173, 182, 185, 186, 191, 195,
 238

- Falling tone, 21, 22, 24, 26, 61, 62, 66–67, 80, 83, 87, 88, 117, 119, 122, 123, 130, 177, 190, 213–214, 258, 265, 272, 274
- Feature geometry, 85
- Feeding, 192, 193
- Fissure of Sylvius, 269
- Floating tone, 29, 100, 102, 106
- Foot, 22, 26–27, 30, 207, 242, 244, 246
- Freedom of analysis, 154
- Fundamental frequency (F0), 10, 19, 71, 251
- Glottal stop, 202–203
- Grammatical category, 8
- Gwoyeu Romatzyh, 56–57
- Hanyu Pinyin, 21, 110, 148, 259
- Harmonics, 251–254, 256
- Headship, 40, 262
 prosodic, 236–240, 242–243, 247
- Hertz (Hz), 10, 14, 113, 204, 251–254, 255
- Hesse diagram, 162, 164, 165, 166
- High tone, 5, 9, 19, 26, 28–30, 34, 37, 41, 44, 50, 66, 69, 71, 77, 82, 83, 96, 98, 99–100, 103–104, 117, 125–129, 139, 146, 159, 165, 195, 203–204, 205, 210, 211, 213, 214, 226, 234, 271, 274
- High-low quotient, 256–257
- Homophone, 1
- Iamb/iambic, 26, 27, 224, 243, 244, 246
- Intensity, 12, 14, 15, 16, 19, 51, 122, 210, 231, 232, 242, 249. *See also*
 Amplitude
- Intonation, 9–10, 15, 21, 42–43, 44–51, 59, 93, 95, 105, 226, 233, 250, 251, 268, 269, 271, 273
 phrase, 37, 43–44
- Jade Spoon Incantation, 55
- Larynx/laryngeal, 3, 62, 70, 82, 83, 94, 117, 118, 119, 202, 203, 208, 211
- Lexical government, 240
- Lexicalization, 148–149, 193, 198, 237, 239
- Low tone, 5, 22, 26, 30, 36, 37, 43–44, 69–71, 96–101, 102, 104–105, 117–118, 125, 128, 129, 146, 159, 176, 202, 203, 205, 211, 235, 236, 271, 272, 274
- Manner of articulation, 126
- Markedness, 68, 73, 161, 170, 171–172, 177, 180, 182, 185, 187, 190, 238, 273, 274
- Meeussen's rule, 127–129, 144, 181, 193–195
- Melody, 8–9, 12, 13, 22, 44–46, 75, 126, 137, 249, 250, 251, 259–262
- Mental grammar, 109, 110, 111, 142
- Meter, 214, 217, 243, 247–248
- Mobility, 29–30, 145
- Mora, 22, 24–27, 28, 49, 78, 87, 101–102, 148–149, 201, 205
- Morpheme, 9, 21, 22, 28, 30, 98, 107, 126, 172, 235, 237, 239, 273
- Musical genre, 263
- Musical interval, 59, 250, 254–257
- Nasal, 22, 31–32, 126, 203, 212, 213
- Neutralization, 83, 112, 115, 118, 129, 136, 139, 145, 150, 172, 176, 209, 211, 236, 237, 238, 240
- NoCP, 136–139, 143, 185–187
- Normalization, 12
- Numes, 54
- Obstruent, 77, 201, 202, 204–205, 206, 210–211, 212–214, 218, 221–224
- OCP (Obligatory Contour Principle), 38, 74, 125–132, 135, 137, 139, 143–144, 156, 158, 162–170, 181, 197, 238, 274
- Okseia*, 54
- Onset, 49, 56, 79, 81, 82–84, 90, 118, 119, 123, 200–207, 210–212, 218–219, 224, 225, 238, 246, 247, 272
- Opacity, 192–195, 196, 198
- Optimality Theory (OT), 153–155, 157, 159–161, 168, 169–170, 171, 183–187, 190, 191, 195–197
- Orthographic scripts, 54, 55–57, 215, 223
- Pāṇini (circa fourth century BCE), 54
- Penult/penultimate, 9, 28–30, 146
- Perception test, 112, 113
- Periodicity, 14, 15
- Periplus of Pseudo-Scylax*, 54
- Phonation, 5, 15, 16, 19
- Phonological phrase, 242
- Phonotactic, 64
- Pitch, 4–6, 9–10
- Place of articulation, 31, 218

Subject Index

321

- Poetry, 54, 214, 223–224, 243, 245
 Post-lexical phenomena, 207, 208
 Preservation of contrast, 172, 176, 177–182
 Production test, 112
 Productivity/productiveness, 139–142
 Prosodic prominence, 146, 230, 232, 235, 238, 241–242, 245, 247
 Prosody, 225, 235–242, 247, 274
- Qieyun zhizhangtu*, 219
- Reduplication, 74–75, 141–142
 Register, 49, 79–91, 98–99, 101–103, 200, 202, 206–207, 211–212
 Ricci, Matteo (1552–1610), 56
 Rime/rhyme, 22, 90, 214, 217–221, 246, 247
 Rising tone, 21, 24, 26, 30, 48, 49, 61, 63, 66, 67, 69–73, 77, 84, 88–90, 91, 112–115, 117, 119–124, 159–161, 177, 180–181, 190, 201, 204, 250, 262, 265, 272, 274
 Rule-ordering, 183–197
- Segment, 22–25, 28, 56, 58, 69, 70, 83–84, 85, 118, 146, 203, 208, 210, 212, 233, 237, 272, 273
 Shen Yue (441–513), 218–219, 247
Shuowen Jiezi, 215, 217, 223
 Singing, 2, 3, 12, 13, 58, 243, 249–250, 257–262, 268, 269
 Slack, 70, 82, 205–206
 Sonorant, 22–25, 200, 201, 203–206, 210, 212, 218, 225
 SPE (Sound Pattern of English), 85
 SSAnova, 11, 268
 Sternohyoid muscle, 4, 161
 Stiff, 70, 82–84, 205–206
 Stress, 2–3, 10, 15, 42, 44, 210, 226–227, 230–234, 235–238, 242, 243, 267, 273
 Stress accent language, 234–235
 Structural affinity (SA), 188–190
 Sukothai, 57
 Supralaryngeal, 118, 119, 208
 Suprasegment, 58, 125
 Surface form/representation, 110, 118, 145, 160, 172, 173–174, 178, 193
Svarita, 54
 Syllable, 21–30, 43, 47, 56, 58, 69, 77, 79, 87, 90, 112, 139, 145, 157, 206, 207, 209, 210–213, 219, 221–225, 230, 231, 233, 236–238, 246
- Tang verse, 243–248
 Target undershoot, 94
 TBU (tone-bearing unit), 24–27, 57, 75–78, 101, 102, 146, 201–202, 206
 Temperament, 250–257, 264
 Temporal sequence, 187, 189
 TETU (the emergence of the unmarked), 159
 Thyroid cartilage, 4
 ToBI (Tones and Breaks Indices), 43–44
 Tone
 absorption, 135
 category, 55, 122, 211, 212, 219–224, 244, 247
 circle, 140
 displacement, 145–146, 201
 doubling, 195, 273
 feature, 10, 51, 66–73, 79, 85–90, 118, 126, 131, 132, 137, 157–158, 201, 202, 205–206, 261–262
 group, 240–241
 inventory, 53, 63, 66–67, 68, 261
 language, 9, 15–16, 20, 42, 51, 59, 97, 207, 214, 231, 249, 250, 268, 271
 notation, 5, 6, 56–57
 polarity, 124–126, 128, 144
 reduction, 148, 193
 sandhi, 67, 108, 109–110, 115, 118, 122, 139–140, 143–146, 148–149, 158–159, 182, 187, 193, 238, 239
 sandhi domain, 240–242
 terrace, 92–103, 207
 transition, 116–118, 262–263
 value, 5–6, 59–61, 63, 66–67, 110, 134, 221, 222, 236
 Tone letter system, 59. *See also* Tone value
 Tonelessness, 25–26, 28–29, 37, 50–51, 71, 181, 203, 204, 227, 232, 233, 236–237
 Tonogenesis, 83, 200, 210, 211, 214, 223–226, 230, 245
 Transliteration, 229, 230
 Transparency, 187, 192–195
 Trochee/trochaic, 224, 238, 243, 246
 Truncation, 77–78
- Udātta*, 54
 Underlying form/representation, 26, 33, 34–36, 50, 111, 112, 125–127, 136, 145–147, 160, 170–173, 178, 195–198, 204, 238
 Upstep, 103–106, 129

Velar, 16, 31–32	Whisper, 5, 12–14, 20, 82
Vocal folds, 3–5, 10, 13, 70, 82, 94, 161, 202, 203, 249, 271	Word-level phenomena, 207, 234, 235
Voice/voicing, 20, 22, 28, 57, 70, 79–81, 82–83, 90, 126, 200–206, 208, 210–212, 224–225, 233, 247	Yang Xiong (53 BCE–18 CE), 215
Volume, 12, 15, 49, 232, 249. <i>See also</i> Amplitude	<i>Youxuanshizhe jue dai yushi bie guo fangyan</i> , 215
VOT (voice onset time), 211, 218–219	<i>Yunjing</i> , 218–219
Well-formedness, 187, 190–191	<i>Zhongyuan yinyun</i> , 219
Wernicke’s area, 269, 275	Zhou Deqing (1277–1365), 220