

Index

- adaptation
 - task constraints, 141
 - the edge of chaos, 76, 144
- affordances and constraints, 5, 7, 37, 39, 45, 65, 73, 106, 132, 141, 160, 168, 228, 258
- artificial intelligence (AI)
 - consciousness as noncomputational, 247
 - superintelligence, 12, 240–242, 248–249
 - technical rationality, 12, 127, 249, 255
 - the “right-brain” advantage of humans, 202, 243
 - the Chinese room argument, 247, 252
- cave paintings, 36, 38, 42
- ceteris paribus, 7, 130, 176
- creativity
 - as a social process, 145
 - creative productivity, 2, 24, 33, 75, 85, 86, 91, 97, 98, 99, 149, 155, 163, 166, 167, 227
 - polymathy, 33, 143
- cultural evolution
 - cultural inheritance, 32, 134, 136, 146
 - cultural variation, 112, 134
 - passing on genes versus information, 116
 - the role of human language, 19, 108, 114, 115, 116
- culture
 - cultural niche constructions, 13, 33, 47–54, 66, 121, 126, 150, 201
 - norms and values, 49, 106, 109, 111, 116, 128, 134, 198, 248
- cultural evolution
 - the role of human language, 107
- developmental diversities
 - developmental psychopathology, 10, 167, 173, 176, 177, 199, 214, 217, 224
- developmental diversity
 - developmental criminology, 10, 88, 174, 176
 - divergent development, 11, 46, 81, 164, 217, 222, 233
- equifinality, 25, 89, 162, 175, 176, 218, 225, 234, 262
- multifinality, 25, 162, 175, 176, 234, 260, 262
- nonuniversal development, 27, 46, 66, 164, 171, 172, 186, 232, 255
- trajectories and pathways, 2, 27, 66, 81, 133, 157, 163, 174, 175, 199, 207, 219, 233
- developmental science
 - developmental functional history (DFH), 64, 197
 - evolving systems approach, 223
 - inductive developmental systems, 224
 - relational developmental system, 4, 5, 204, 218, 227
- developmental specificity
 - developmental progressions, 9, 91, 100, 103, 122, 166, 200
 - what, how, when, and where, 4, 25, 32, 129, 158, 165, 224, 226
- domains of talent
 - domain complexity, 50, 55, 56, 168, 185
 - embodied versus symbolic, 57
 - hybrid domains, 57, 59, 136, 137, 140, 159
 - instrumental versus meaning-making, 87–88, 137
 - production versus performance, 54, 57, 77, 86, 91, 137, 140, 142, 143, 159, 234
 - social leadership, 21, 50, 58, 136, 203
- ECT
 - as a metatheory, 154–155
 - as a theory of possibilities and constraints, 199
 - as an epistemology, 11, 33, 177, 216, 227
 - as “one long argument,” 25
 - counseling and guidance, use of, 176, 200, 211–214
 - identification and assessment, 178, 179
 - soft constraint satisfaction, 11, 219, 224–226
- effectivity motivation, 44

- emergence
 autopoiesis, 236, 237, 258
 contextual–temporal emergence, 10, 20, 22, 31, 32, 78, 86, 130, 219, 228, 231
 exaptation versus adaptation, 37
 excellence
 five levels of achievement, 138–146
 master versus maker, 10, 12, 139, 142, 146, 153, 248
 visionary versus technician, 202
 expertise
 plateau-dip-leap, 61, 97, 141
 reproduceable superior performance, 140, 234

 genotype versus phenotype
 reaction range versus norm-based range, 24–25
 reaction range versus norms of reaction, 6, 22, 43

 human development
 life cycle constraints, 88
 ontogeny versus phylogeny, 19, 37
 probabilistic epigenesis, 7, 12, 22–25, 43, 107, 132, 139, 160, 162
 human modernity
 behavioral versus anatomical, 35, 75

 Karenina principle, 139, 225, 258

 Matthew effects
 achievement gap, 261
 mentorship, 77, 98, 122, 211, 225
modus operandi, 50, 54, 55, 73, 75, 91, 92, 99, 138, 140, 143, 259
 motivation
 effectivity motivation, 29
 mythos versus *logos*, 202, 243
 personal enterprise, 8, 88, 92, 97, 99, 100, 131, 134, 136, 142, 188, 189, 214, 245

 nature–nurture debate
 GWAS, 18, 260
 polygenic index, 17, 18, 220
 variance partitioning, 3
 nomothetic idiographic
 ergodic switch, 177

 Oppenheimer paradox, 248
 opportunity structure, 9, 66, 81, 89, 110, 111, 117, 121, 157, 171

 Pareto principle, 151–153, 168, 191, 233, 261, 263
 personal action space (PAS)
 intentional arc, 68, 133, 142, 187, 211, 228
 selfhood, 64, 157
 self-identity, 250
 personal niche, 33, 69, 71, 78, 92, 97, 98, 100, 131, 188, 229, 244
 person-centered analysis versus variable-centered analysis
 intrapersonal changes, 186, 259
 Planck's principle, 86, 91, 263
 proximal versus distal factors, 264

 reification, 2, 165, 264
 relational developmental system
 dynamic system, 5, 19, 23, 236

 survivorship bias, 152

 talent
 classification
 polymath
 autodidactic, 144, 202, 225
 precocity, 30, 45, 85, 86, 88, 94, 122, 139, 232
 quota versus anomalous, 48, 112, 159
 savants versus child prodigies, 32, 138–139, 140, 223, 232
 scarce versus surplus, 48, 112, 159
 culturally defined versus bioecological, 26, 27, 37–38, 136, 178, 182, 206, 213
 foundations of
 bioecological foundations, 35
 sociocultural foundations, 81
 identification, 89, 161, 176, 178, 179, 181, 185, 203, 206
 talent development
 developmental timing
 onset and peak, 31, 32, 84, 170, 232
 windows and corridors, 31, 90, 117, 232
 developmental transitions, 10, 84, 85, 97, 101, 102, 146, 223
 exploration versus systematic development, 52, 77, 78, 88, 90, 100, 106, 148, 150, 174, 186, 191
 milestone event, 9, 10, 78, 86, 90, 91, 169, 181, 191, 206, 211
 primacy of action, 7, 24, 35, 38, 160, 162, 168, 261
 talent driver indicators, 10, 180, 187–191
 talent milestone indicators, 178
 talent PAS indicators, 10, 180, 186–187, 196
 typical versus optimal development, 8, 52
 the Needham Puzzle
 Da Vinci and Wang Yangming, 9, 118, 125, 128
 threshold effects, 166, 264