

Index

- ACTION 19, 39-41, 47-51
Actor-Network Theory 158
affordances 157
Agre, Philip 114, 241
Akrich, Madeleine 82, 92, 110
algorithmic 75, 77, 112, 125-137, 211-215, 222, 245-247
 culture 16
 exceptionalism 233, 245, 246
 society 249
 thought 21, 251
algorithms 50, 57, 66, 75, 76, 87, 117-119, 125-137, 222, 233, 245-252
 as black boxes 20, 139-142
Anderson, Chris 14, 172, 236
Anscombe, Francis John 119, 120
Application programming interfaces (APIs) 14, 20, 61, 112, 147-153, 174, 242
Association of Internet Researchers 189, 201

Beer, David 112
Berry, David 13, 20, 26, 27, 109, 111, 114, 122, 171, 184
bias 104, 112, 172, 175-177, 212, 222, 247
 algorithmic 222
 linguistic 222
 social 212, 247
Big data research 19, 21, 172, 177, 179, 183-186, 190-194, 197, 198, 233
Bordwell, David 41-44
Bourdieu, Pierre 62
Bowker, Geoffrey 142, 171, 216, 222, 224
boyd, danah 15, 172, 175, 189, 211, 236
Bucher, Taina 112, 139, 149

calculation 33, 34, 105, 155, 173, 214, 219, 220, 222
Casey, Michael 39, 50, 51
Cinemetrics 39-51
close reading 33, 55, 173n, 227
Communication Studies 57, 58
computational methods 15, 17, 30, 33, 35, 52, 58, 110-113, 115, 122, 178
computational turn 13-16, 19, 91, 109
computer science 56-58, 121, 252
computer simulation 63, 65, 171
constructivist 30
Couldry, Nick 15, 155, 172, 211, 221, 235-238
Crawford, Kate 15, 139, 172-175, 189, 222, 236
crawling 76
Cultural Analytics 29, 39-41, 47-51, 55, 56, 60-62, 67, 69, 93, 109, 119, 185, 212
cultural production 126, 128, 131, 185, 233, 241, 263

Daston, Lorraine 18
data 11-21, 31, 172, 175-177, 183-190, 193-198, 201-208, 211-214, 219-227, 236
bias and discrimination 21, 172, 175-177, 211-214, 219-222, 227, 236
ethics 17, 21, 175, 183-190, 193-198, 201-208, 224, 225
 point 21, 61, 66, 72, 130, 185, 233, 241-243
 practice 12-21, 31, 183-185, 219
data point critique 233, 241-243
data visualization 30, 39-41, 44, 46, 48-51, 155, 157, 171, 179, 218, 219, 223
datafication 11-16, 220-224
dataveillance 222
De Certeau, Michel 40, 52
Declaration of Helsinki 184, 188, 189, 197, 201
deep data 227, 228
democracy 14, 95, 99, 247
digital Bildung 20, 111, 114, 115, 117, 122
digital data analysis 20, 173-178
digital humanities 15, 16, 19, 26-29, 31-34, 55-60, 109, 111-114, 121, 122, 173, 18-186
digital methods 20, 27, 30, 75-79, 91-93, 97, 99, 101, 103, 109-114, 123, 139, 184, 197, 201, 224
digital rhetoric 238
discourse analysis 83, 249
distant reading 93, 173
Drucker, Johanna 16, 25, 29-32, 34, 45, 51, 112, 173, 176

empiricism/empiricist 15, 32, 39, 171
 fallacies of empiricism 15
epistemic/epistemology 15, 18-20, 25-31, 39, 40, 76-79, 87, 92, 109, 111-113, 116-119, 122, 125-127, 190, 212, 222-224, 246
ethical 21, 175, 184, 186-190, 193-198, 201-208, 225, 228
 decision-making 189, 194, 201, 207, 208
 guidelines 21, 175, 184, 186, 188, 193, 196, 197

Facebook 14, 63, 128, 147, 149-153, 185-187, 207, 222, 225, 241, 251
 data 147, 150-152, 187, 222
 pages 187, 207
 statistics 63, 187
 study 185-187, 225
 terms of use 187, 225
filter bubble 77
Foucault, Michel 212, 223
Fry, Ben 174, 176

Galison, Peter 18
gatekeepers 131-133
Gelernter, David 19, 171

- Gephi 117, 118, 145, 155, 159, 177
 Gerlitz, Carolin 21, 100, 102, 151, 177, 212, 233, 241-243
 Gillespie, Tarleton 127, 128, 131, 214, 219
 Google 14, 20, 58, 64, 72, 75-77, 79-81, 83, 87-93, 127, 128, 139, 149, 174, 222, 250, 251
 algorithms 75, 77, 87, 127, 139, 251
 flu 64, 75, 81
 terms of service 90n
 Google Pagerank 76, 87
 Greenpeace 78, 79
- hashtag 20, 95-105, 242
 ethnography 105n
 politics 96, 99, 102
 publics 99-102
 stream 20, 95-99
 Heidegger, Martin 133-136
 hermeneutic(s) 19, 28, 41, 48, 50, 93, 125, 184, 237
 humanists 19, 26-31, 33, 34, 48, 56, 58, 60, 112, 114, 115, 121
 digital 27, 29, 33, 56, 60, 112, 114, 121
 Humanities 11-17, 19-21, 25-35, 47, 55-58, 60-63, 65, 109, 111-114, 122, 136-139, 149, 168, 171, 173, 184-186, 197, 241, 253
 digital 15, 16, 19, 26-29, 34, 55-58, 60, 109, 111, 114, 173, 184-186
- Iliad 21, 155-168
 ImagePlot 29, 48-51
 Informed consent 21, 175, 184-188, 191-198, 203, 204, 225
 Instagram 14, 20, 48, 55, 58-61, 63-66, 69, 71, 72, 149, 150, 185, 241-243
 photos 20, 58-61, 72, 185
 issue crawler 98
 issue networks 20, 95-100, 103, 104
- Kitchin, Rob 11, 15, 17, 29, 32, 34n, 171-173, 177
 Knorr Cetina, Karin 25n, 46, 140, 141
 Kuhn, Thomas 41n, 109
- literacy 118, 135, 139, 168
 long data 66
- machine learning 33, 50, 64, 65n, 113, 127, 133
 manga 61, 119, 120
 Manovich, Lev 19, 29, 33, 39, 48-51, 59, 61, 69, 93, 119, 120, 128, 173, 175, 185, 212
 Markham, Annette 21, 175, 184, 188-190, 194
 Marx, Karl 62, 63, 66, 142, 237
 Merleau-Ponty's, Maurice 143, 144
 metadata 49, 76, 99, 100, 151, 176, 185, 206, 223
 Methodenstreit 110
 methodology 19, 27, 39-41, 47-51, 95, 110-118, 121, 156, 172, 201, 202, 208, 224, 225
 metrics 100, 118, 121, 152, 155, 168, 177, 178, 214-217, 219, 223, 235, 241-243
 bio 214-217, 223
 socio 118, 121
 Moretti, Franco 50, 156, 168, 173
 Morozov, Evgeny 21, 212, 233, 245
- narrative affordances 157
 Negroponte, Nicholas 77
 Netflix 130
 network analysis 20, 95, 117, 118, 155-157, 167, 168, 259
 network visualization 21, 98, 112, 117, 118, 145, 155, 159, 168
 N-Gram viewer 58
- objectivity 13, 18, 25, 30, 63, 112, 127, 131, 172, 178, 190, 214, 219, 220, 227
 On Broadway 20, 61, 66, 69-73
 ontology 11, 132, 190, 211
 open data 15, 69, 148, 149, 203
- Pariser, Eli 77
 Pasquale, Frank 15, 211, 219, 222
 personalization 77, 80, 127, 132-135
 Petric, Vlada 41, 43
 Photosynth 134-136
 politics of association 95-99, 104
 politics of circulation 112
 positivism/positivist 19, 25, 30-33, 39, 51, 63, 66, 122
 Positivismusstreit 110
 power-knowledge 212
 predictive analytics 127
 privacy 149, 150, 175, 184-186, 194, 195, 202-207, 216, 222
 programming 16, 48, 111, 114-118, 121, 122, 131, 148, 149, 153, 177, 212, 251
 language 149, 153
 skills 115, 121, 122
- qualitative 27, 55, 98, 110, 111, 125, 173, 177, 184, 190, 192, 246
 quantitative 16, 25, 27, 30, 39-43, 47, 55, 62, 92, 109-111, 125, 156, 173, 214, 219, 221, 224
 queries 77, 80-83, 87-89, 92, 93, 98
 ambiguous 87-89
 search 81, 93, 98
 unambiguous 87-89, 93
 query design 20, 80-82, 87-89, 92-94, 212
- Redfern, Nick 44n, 45
 regression 116, 120
 repository 11, 118
 research design 151, 190, 194, 195, 198
 Rieder, Bernhard 20, 29, 109-112, 115, 139, 140, 145, 151, 171, 185, 241, 242
 Rogers, Richard 20, 85, 95-98, 185, 212
 Röhle, Theo 20, 29, 109-111, 139, 140, 145, 171, 185
- Salt, Barry 41-47, 50
 sampling 93, 150, 151, 177

- scientific 16, 18, 30, 39-43, 46-52, 56, 63, 65, 97, 109, 140, 141, 149, 150, 228
 - accuracy 18
 - image 18, 46, 47
 - realism 41, 52
 - self 18
- scientism 18, 26, 39, 46, 48, 50, 141
- scraping 21, 29, 76, 183, 191, 194
- search engine 14, 75, 77, 80, 81, 87, 250
- Shannon, Claude 119
- Simondon, Gilbert 122, 123, 250, 251
- social computing 19, 55-62, 65
- social graph 223
- social media 14, 57, 60, 64, 66, 71, 96, 99, 104, 105, 112, 131n, 147-152, 172-175, 177, 185, 188, 235, 236, 241-243, 245, 252
 - content 57, 96, 104, 152
 - data 64, 150, 172-175, 241-243
 - metrics 152, 177, 242
- social networks 55-61, 65, 149, 156, 167, 177, 184, 187, 198
- social science 11, 60, 63, 66, 109-116, 148-151, 168, 185, 197, 198, 238
- social sorting 77, 80, 89, 212-217, 222
- sociology 14, 60, 62, 110, 140, 185
- software studies initiative 29, 48, 55, 59, 71
- SPSS 116
- statistical subjects 219-221
- statistics 29, 45, 62, 64, 110, 116-122, 168, 176, 177, 218, 221
- style analysis 39-44, 47, 48, 52
- Sustein, Cass 77
- techno-images 18
- the Nuremberg Code 184, 188, 189, 197, 201
- Thompson, Kristin 42-44
- Time magazine 61
- trained judgement 18
- transparency 20, 29, 30, 139-145, 178, 195, 219, 222
 - practical 140-145
- Tukey, John 50, 111, 160
- Turow, Joseph 77
- Twitter 14, 20, 55-58, 66, 69-72, 100-103, 105, 145, 147-153, 174, 206, 241, 242
- unambiguous queries 87-89, 93
- Underwood, Ted 59
- user-generated content 56, 58, 61, 65
- Utrecht Data School 9, 17, 183
- Van Dijck, José 13, 172, 221, 223, 225, 241
- Vis, Farida 172, 175
- Weltbild 133, 135, 136
- wide data 66, 67, 69
- Wikipedia 75, 76, 80, 89, 92, 134
- Williams, Raymond 82, 83, 92
- YouTube 14, 55, 57, 59, 80
 - video 57, 80

