

Index

- 180-degree rule, 69
2600 (magazine), 160, 172, 187
404 (Jodi), 216–217
404 error, 65–66, 216–217
414 hacker group, 153
7–11 (email list), 211, 215
8-track cassette, 68
- Access, 172. *See also* Possibility
Acid Phreak, 168
ACK (acknowledge), 43–44
äda 'web, 188n36
Adelaide, Australia, 192
Adleman, Leonard, 112
Advanced Research Projects Agency
(ARPA), 5
Afghanistan, 204
AIDS, 178–181, 184
AIDS (virus), 181
AIDS II (virus), 181
“AIDS Information Introductory
Diskette Version 2.0,” 180
Airline system, 31
AKSHUN, 235
Algorithm, 22, 165
Alphabet, 73
Al Qaeda, 201, 204
- Althusser, Louis, 25n42, 88, 91n28
American Institute of Electrical Engineers (AIEE), 126
American National Standards Institute
(ANSI), 124, 127–130
American Sign Language, 164
American Standard Code for Information Interchange (ASCII), 67
Anonymity, 69, 83
Apple II, 68, 181
Application layer. *See* Layer, application
Archaeology of Knowledge, The (Foucault),
83
Architecture. *See* Modern architecture
Armani, Giorgio, 227
ARPAnet, 4–5, 26, 48, 182
Arquilla, John, 30n2, 196, 204
Ars Electronica, 19, 214, 227
Art. *See* Internet art
Artificial intelligence, 17, 102–103
Artificial life, 12, 82, 98, 107–110,
112, 177
ASCII art, 219
Assembly language. *See* Programming,
assembly
“As We May Think” (Bush), 59
AT&T, 26–27, 123, 156, 200n65

- Atkins, Robert, 233
- Atomic bomb. *See* Nuclear attack
- Auction art, 233–238
- Austin, J. L., 165
- Autonomous agents, 47, 160, 164, 201
- Avalos, David, 227n32
- Avant-garde, 194, 232
- Babbage, Charles, 188
- BackOrifice, 152n11
- Baker, Fred, 123
- Baker, Rachel, 195
- Bandwidth, 219–220, 225
- Baran, Paul, 4–5, 30n2, 35, 120, 127, 140n43, 200, 204n71
- Barbie Liberation Organization, 228
- Barlow, John Perry, 168, 229
- Barratt, Virginia, 192
- Barthes, Roland, 18, 92, 143
- Baudrillard, Jean, 58, 69
- Baumgärtel, Tilman, 216, 219
- Bazin, André, 18, 69, 78
- Being Digital* (Negroponte), 18
- Bell, Daniel, 17
- Bell Telephone Laboratories, 123, 182
- Benkler, Yochai, 40
- Bentham, Jeremy, 31
- Berkeley, University of California at, 124. *See also* Unix, Berkeley Software Distribution
- Berlin, 225–226
- Berlin Wall, 26
- Berners-Lee, Tim, 10, 39, 137–139, 142, 242, 246. *See also* World Wide Web (WWW)
- Bertillon system, 13, 111
- Best Current Practice (BCP), 136
- Betamax, Sony, 68, 125
- Beuys, Joseph, 81
- Bey, Hakim, 18, 33, 151, 158, 161
- Biometrics, 113
- Biopolitics, 12–13, 81, 85–87, 161
- Biopower, 12, 17, 69, 84–87
- “Bitch Mutant Manifesto” (VNS Matrix), 195
- Blanchot, Maurice, 91n28
- Bodies INCorporated* (Vesna), 229
- Body, 188, 190–191, 193–195, 229
security of, 179
- Boggs, J. S. G., 227n32
- Braden, Bob, 142–143
- Brain, relationship to computers, 103
- Brand, Stewart, 152n10, 160, 169
- Britain, 181
- British Standards Institution (BSI), 129
- Brecht, Bertolt, 55
- Bretton Woods agreement, 26
- Broeckmann, Andreas, 197n61
- Browser, 75–76, 218
- Bug, computer, 185–186, 224
- Bukoff, Alan, 235
- Bunting, Heath, 219, 225–226
- Burden, Chris, 227n32
- Bureaucracy, 121, 205
- Bureau of Inverse Technology, 195, 228–229
- Burger, Ralf, 179
- Bush, Vannevar, 18, 58–60
- Byfield, Ted, 47, 50
- C, 123–124. *See also* Programming
- C++, 108, 123–124, 167. *See also* Programming
- California Institute of the Arts, 235
- Canter, Laurence, 119
- Čapek, Karel, 102, 107n88
- Capital* (Marx), 87–102
- Capital, 227–228, 232
structure of, 56

- Capitalism, 75, 92–93, 244
late, 24
- Castells, Manuel, 11, 24, 33, 61, 158
- Cauty, Jimmy, 227n32
- CD-ROM, 211, 221, 226, 234
- Centralized network. *See* Network, centralized
- Cerf, Vinton, 122–123, 136–137
- Checksum, 46, 139
- Children’s Defense Fund, 13
- Clausewitzian military strategy, 205n72
- Clerk-Maxwell, James, 110
- Client, 39
- Clinton, William, 156
- Cobol, 68
- Code, 164–167, 170, 213, 244
protocol as, 7
source, 64
- Codrescu, Andrei, 228
- Cohen, Frederick, 176–180
- Cold War, 4, 29–30, 147, 197
- Collaborative filtering, 113–115
- Commodore, 68
- Communist Manifesto, The* (Marx and Engels), 97, 160
- Community, production of, 191
- Computer, 3, 22, 103
as medium, 19
- Computer virus. *See* Virus, computer
- Computer Fraud and Abuse Act, 153n14, 183
- Conceiving Ada* (Hershman), 188n36
- Conceptual art, 164, 215, 217–219
- Consensus, 128
- “Constituents of a Theory of the Media” (Enzensberger), 56
- Contingency, 42, 196, 243
- Continuity, 64–69
- Control, 81, 114–115, 141–143, 147, 243. *See also* Society, control; “Post-script on Control Societies” (Deleuze)
- Control society. *See* Society, control
- Core War, 182
- Cornell University, 182–183
- Ćosić, Vuk, 211, 219, 226
- Crary, Jonathan, 103
- Crash, 67, 156, 213, 220–221, 224
- Creeper, 182
- Critical Art Ensemble (CAE), 4, 19, 150, 157, 160–161, 175–176, 187, 242
- Crocker, Steve, 122, 140
- Cross, Rosie, 195
- CTHEORY*, 19
- Cuba, 226
- Cuckoo’s Egg, The* (156)
- Cult of the Dead Cow, 152n11
- “Cyberaids” (virus) 181
- Cyberfeminism, 184–196
- “Cyberfeminist Manifesto” (VNS Matrix), 187, 192–193, 195
- Cybernetics, 18, 59–60, 106–107
- “Cybernetic Serendipity,” 210n7
- Cyberspace, 169, 194
- Dadaism, 194
- Daggett, Mark, 178
- Daines, Michael, 234–235
- Dalal, Yogen, 137
- da Rimini, Francesca, 192–194
- DARPA, 136, 200n65
- DARPAnet. *See* ARPAnet
- Datagram, 44
- Davies, Donald, 5n7
- Day66* (Jodi), 220
- Decentralized network. *See* Network, decentralized

- Deconstructing Beck*, 228
- DeLanda, Manuel, 19
- Deleuze, Gilles, 3–4, 16–17, 21, 33–34, 81, 86–87, 105, 219, 242
- Dement, Linda, 195
- Demon, 110
- Dennett, Daniel, 17, 102
- Department of Defense, U.S., 4n4, 5
- Derrida, Jacques, 91n28, 97, 100n65, 210
- de Saussure, Ferdinand, 73
- Desktop, computer, 221, 224
- Dewdney, A. K., 182
- Diagram, 196–197
- Digital Millennium Copyright Act (DMCA), 172
- Digital Subscriber Line (DSL), 68n25, 127
- Disciplinary society. *See* Society, disciplinary
- Discipline and Punish* (Foucault), 21, 31
- Discourse, in Marx, 91
- Discourse Networks, 1800/1900* (Kittler), 18, 22
- Dispositif, 25
- Distributed Denial of Service (DDoS), 214
- Distribution
and control, 47
as diagram, 197
and management, 110, 243
network (*see* Network, distributed)
- Dividual (Deleuze), 86
- DNA, 26, 111
computer, 112
- Documenta X, 187
- Doll Yoko. *See* da Rimini, Francesca
- Domain Name System (DNS), 5, 8–10, 12, 47, 49–50, 141, 143, 218
- Dominguez, Ricardo, 175, 214
- Double helix, 111
- Dreyfus, Hubert, 17, 102
- Dr-K, 171
- Drucker, Peter, 17
- Druckrey, Timothy, 19, 211–212
- Drummond, Bill, 227n32
- DVD, 126, 172
- Dyer-Witheford, Nick, 33
- Ebay, 233–238
- Edison, Thomas, 126
- Eisenstein, Sergei, 89–90, 102
- Electronic Disturbance Theater (EDT), 175, 214, 217, 234
- Empire, 158
- Empire* (Hardt and Negri), 24–26, 209n1
- Engelbart, Douglas, 106n84
- Entropy, 103–105
- Enzensberger, Hans Magnus, 16, 18, 56–58, 209
- Ethernet, 127
- Etoy, 9–10, 219–232, 234
- eToys, 229, 232
- Eugenics, 85n13
- Expanded Cinema* (Youngblood), 210n7
- Experiments in Art and Technology (EAT), 210n7
- Exploits, 167–168, 186. *See also* Possibility
- Extensible Markup Language (XML), 81
- Feedback, 59–60, 68, 106
- Feinler, Jake, 147
- Feminism. *See* Cyberfeminism
- Feng, Patrick, 245
- Fetishism, 99, 100n65
- Feuerback, Ludwig, 87, 91

- Film, 19, 210, 212
- First Cyberfeminist International, 187
- Flash, 219
- Flexibility, 30, 42, 46, 128, 142, 159, 201, 243
- Floodnet*, 214
- Flusser, Vilém, 72–73, 83, 104
- Fluxus, 195, 235
- Formalism, 209, 216
- Form art, 219, 225
- Form of appearance, 100–102
- Fortran, 68
- Font, protocol of, 77–78
- Foucault* (Deleuze), 16, 21
- Foucault, Michel, 3, 12, 21, 31, 69, 81–87, 190, 244
- Fragmentation, 44–46
- Frankenstein* (Shelley), 102
- Frankfurt School, 23, 56
- Free Software Foundation, 171
- French Revolution, 21
- Frye, Northrop, 165
- Fuller, Matthew, 218
- Future Combat Systems (FCS), 200n65
- FYI, 136
- Galison, Peter, 200
- Game, video, 211, 219, 233
- Garcia, David, 175
- Garrin, Paul, 10, 218
- Gashgirl. *See* da Rimini, Francesca
- Gates, Jeff, 234
- Geek Girl, 195
- General Course in Linguistics* (de Saussure), 73
- General Motors, 159n28
- Gibson, William, 27
- Gnutella, 201
- Goux, Jean-Joseph, 69
- Gržinić, Marina, 19, 213
- Guattari, Félix, 33–34, 219, 242
- Guggenheim Museum, 227
- Gulf War (1991), 27, 204
- Hacker/hacking, 151–164, 167–172, 213–214
- allegory of, 157
- ethic, 152, 171
- etymology of, 151n7
- as libertarian, 151
- as terrorist, 151, 157, 180
- “Hacker Manifesto” (The Mentor), 156, 213
- Hackers for Electronic Arts (HEART), 214
- Hafner, Katie, 122
- Haifa, 179
- Hale, Thomas, 201
- Hall, Stuart, 88
- Handshake, TCP, 42–43. *See also* Transmission Control Protocol (TCP)
- Hanhardt, John, 209
- Haraway, Donna, 59, 106n84, 112
- Hardt, Michael, 24–26, 150, 158, 161, 176, 209n1
- Hart, Gary, 205n72
- Hayles, Katherine, 165
- Hegel, Georg Wilhelm Friedrich, 87, 99
- Hershman Leeson, Lynn, 188n36, 194
- Hierarchy, 205–206, 242
- History of Sexuality, Vol. 1, The* (Foucault), 13, 21, 84–85, 190
- Hock, Louis, 227n32
- Hollywood, 69, 75
- Hookway, Branden, 12, 18, 33, 110
- Hopper, Grace, 185, 189
- HOSTS.TXT, 48. *See also* Domain Name System (DNS)
- Hybris (virus), 186

- Hypertext Markup Language (HTML),
26, 51–52, 65, 76–77, 137–138,
141, 218, 225
- Hypertext Transfer Protocol (HTTP),
51–52, 137–138, 216
- Identity, 66, 69, 113–114, 188, 194
- I Love You (virus), 187
- Inclusion, 142, 147
- Incorporations*, 103
- Information, 72–73, 104, 139
- Information age, 111
- “Information” (exhibition), 210n7
- Information science, 110–111
- Information Age, The* (Castells), 24
- Ingold Airlines, 227n32
- Innen, 195
- Institute of Contemporary Arts (London), 210n7
- Institute of Electrical and Electronics Engineers (IEEE), 122, 126–127, 130
- Institute of Radio Engineers (IRE), 126
- Intel, 121
- Interface, 191
- “Interior Scroll” (Schneemann), 195
- Intermedia network (Youngblood), 78
- International Electrotechnical Commission (IEC), 129–130
- International Organization for Standardization (ISO), 39, 124, 129–130
- International Telecommunications Union (ITU), 129–130
- Internet, 29–30
as distributed network, 4, 38
layer (*see* Layer, Internet)
origins of, 4, 29
as sculpture, 216–217
as standard, 6
- Internet Architecture Board (IAB),
131–134
- Internet Activities Board. *See* Internet Architecture Board
- Internet art, 209–238
corporate aesthetics of, 219, 227–232
net.art, 211–226, 233–238
- Internet Corporation for Assigned Names and Numbers (ICANN),
121, 131n24, 141
- Internet-Draft, 134–136
- Internet Engineering Steering Group (IESG), 131–135
- Internet Engineering Task Force (IETF), 6, 130–134, 138, 142
definition of, 133
- Internet Protocol (IP), 5, 8, 26, 44–46,
124, 136–137, 143, 244
address, 65
- Internet Research Task Force (IRTF), 132
- Internet Society (ISOC), 6, 131–132
- Internet Standard, 134–136, 140
- Interpretation, 52, 139
- Interstate Highway System, 35, 38
- Ippolito, Jon, 201, 204
- Irigaray, Luce, 188
- Jameson, Fredric, 23–24, 168
- Java, 108. *See also* Programming
- Javascript, 220
- Jencks, Charles, 26
- Jeremijenko, Natalie, 16n24
- Jerusalem virus, 179–180
- Jevbratt, Lisa, 217
- Jewish Museum (New York), 210n7
- Jodi, 211, 216–217, 219–224
- Johnson, Steven, 221
- Joint Technical Committee, 130
- Jordan, Ken, 243
- Joy, Bill, 124
- Judicial system, U.S., 31
- JVC, 125–126

- Kaczynski, Theodore 16
 Kahn, Robert, 136
 Kaspersky, Eugene, 186
 Kassel (Germany), 187
 Kay, Alan, 186
 Kaye, Zina, 195
 Kelly, Kevin, 243
 Kernighan, Brian, 108n89
 K Foundation, 227n32
 Kittler, Friedrich, 18, 22, 73, 111, 165–166
 Klein, Yves, 227n32
 KLF. *See* K Foundation
 Knight Lighting, 153, 156, 161
 Kondratieff wave, 23
 Kubota, Shigeiko, 195
 Kunstlerhaus Bethanien (Berlin), 225–226
 Kurzweil, Ray, 17
 Kusahara, Machiko, 61
 Kwinter, Sanford, 103, 110
- LambdaMOO, 191
 Language, 50, 75, 164, 165, 195. *See also* Code; Programming, language
 Layer, 39–41, 129–130
 application, 40, 130
 Internet, 41, 130
 link, 41, 130
 transport, 41, 130
 Lazzarato, Maurizio, 61
 Leopoldseder, Hannes, 88, 103
 Lessig, Lawrence, 40, 120, 141
 Lévy, Pierre, 60, 169
 Levy, Steven, 151–153, 169–170
 LeWitt, Sol, 164–165
 Lialina, Olya, 219, 224–225
 Licklider, J. C. R., 106n84
 Lind, William, 205n72
 Life, 12, 84, 103–113, 244. *See also* Artificial life
 as aesthetic object, 111, 113
 management of, 13
 as medium, 110–115
 nonorganic, 86
 Link, 66
 Link, dead. *See* 404 error
 Link layer. *See* Layer, link
 Linz, Austria, 214, 227
 Ljubljana, 212
 Lovelace, Ada, 185, 188–189
 Lovink, Geert, 17–18, 175–176
 Lyon, Matthew, 122
- Madness and Civilization* (Foucault), 21
 Malraux, André, 113
 Mann, Omri, 179
 Manovich, Lev, 19, 40, 52n29, 73–74
 Mandel, Ernst, 23–24
 Marx, Karl, 4, 87–102, 110, 113, 160
 and “species being,” 13
 Massachusetts Institute of Technology (MIT), 151, 169, 182
Masters of Deception (Slatalla and Quittner), 164
 Mattelart, Armand, 241–242
 Max Planck Institute, 112
 McKinsey & Company, 159
 McLuhan, Marshall, 10, 18, 106n84, 212
 McNamara, Robert, 205n72
 Media, dead, 68
 Mediation, 68
 Melissa (virus), 184, 187
 Memex (Bush), 59
 Menlo Park (California), 48
 Mentor, The, 156, 213

Metabolic, 93, 96
 Metz, Christian, 69
 Michelson, Annette, 89–90
 Microsoft, 120–121, 244–245
 Microsoft Outlook, 187
 Mind, epistemological condition of, 102
 Minsky, Marvin, 17, 102
 Mitnick, Kevin, 170
 Mockapetris, Paul, 5, 48
 Modem, cable, 68n25
 Modern, 108, 158
 Modern architecture, 26
 Modularity, 52n29
 MOO, 191
 Moon, Robert, 113
 Moravec, Hans, 17
 Morris, Robert, 182–184
 Morris, William, 209n1
 Morse code, 164
 Motion Picture Association of America (MPAA), 172
 Mueller, Milton, 18
 Multitude, 161
 Mumford, Lewis, 18
 Museum of Modern Art (New York), 210n7
 Mystification, 98–100

 Name server, 47, 49–50. *See also* Domain Name System (DNS)
Name.Space (Garrin), 218
 NASDAQ, 227, 232
 National Bureau of Standards. *See* National Institute for Standardization and Technology (NIST)
 National Institute for Standardization and Technology (NIST), 127–128
 Nature, 93n33, 101
 processes of, 98

 Negri, Antonio, 16, 21, 24–26, 150, 158, 161, 176, 209n1
Negotiations (Deleuze), 21
 Negroponte, Nicholas, 18
 Net. *See* Internet
 Net.art. *See* Internet art, net.art
 Net criticism, 18
Nettime, 19, 193, 211–212, 215, 238
 Netwar, 196
 Network, 196–206, 218–219
 and art, 220–226, 233–238
 all channel, 32n4
 centralized, 11, 30–31, 204, 206
 decentralized, 11, 24, 31–32, 49
 distributed, 3, 11, 24, 30, 32–35, 38, 46, 204
 and struggle, 175, 205, 244
 and terrorism, 201, 206
 Neue Slowenische Kunst, 227n32
 New media art, 210–211. *See also* Internet art
Newsweek, 153, 179
 New York (city), 201
 Next 5 Minutes, 19
 Next-hop, 45
 Nike, 227
 “Nine Evenings” (EAT), 210n7
 Nixon, Richard, 26
 Nomadic, 161
 “Non-Site Gallery” (Jevbratt), 217
 North American Aerospace Defense Command (NORAD), 29–30
 Nuclear attack, 29, 107, 200–201

 Object, 73–74
 Object-oriented. *See* Programming, object-oriented
On Distributed Communications (Baran), 30n2, 140n43
 Op art, 224

- Openness, 128, 136, 142
- Open source, 171
- Open Systems Interconnection Reference Model, 39, 129–130
- Operating system, 221
- Organic, 93, 96
- OSS (Jodi), 221, 224
- Outlook. *See* Microsoft Outlook
- Packer, Randall, 243
- Packet-switching, 5
- Palestine Liberation Organization (PLO), 180
- Panama, 181
- Pandemonium* (Hookway), 18, 110
- Panopticon, 13, 31
- Patrick, Neal, 153
- PC Business World*, 180
- Peer-to-peer communication, 46
- Peppermint, Cary, 238
- Performance, 226–227, 232
- Perl, 167
- Peters, Tom, 158–159
- Petzold, Charles, 81, 105n81
- Phrack*, 153, 159, 161
- Pierce, Julianne, 192–193
- Plane of Immanence (Deleuze), 105
- Plant, Sadie, 19, 185, 188–191, 193, 195–196
- Popp, Joseph, 181
- Possibility, 52–53, 56, 167–172, 210, 244
- Postel, Jon, 121–122, 137
- Postmodern, 20, 24, 108, 158
- “Postscript on Control Societies” (Deleuze), 3, 12, 21, 86. *See also* Society, control
- Powell Doctrine, 205n72
- Privacy, 113
- Programming
 - assembly, 166–167
 - language, 65 (*see also* Language)
 - object-oriented, 33, 108–109
- Proprietary, 121, 126, 172, 175
- Protocol, 74–75, 140–143, 241–246
 - as algorithm, 30
 - as dangerous, 245
 - and distributed networks, 38
 - etymology of, 7, 29
 - failures of, 120
 - as formal apparatus, 55
 - immanence of, 50
 - and life forms, 17
 - logic of, 212
 - as management style, 3, 242
 - nested, 10
 - as object, 74
 - and patriarchy, 189–190
 - politics of, 81
 - as sculpture, 216–217
 - as standard, 39
- Quittner, Joshua, 161
- Radai, Yisrael, 179–180
- Radio, 55–56
 - Net, 211
- Rajchman, John, 88
- Rakavy, Yuval, 179
- Rand Corporation, 4–5, 35, 127, 140n43, 200n65, 204
- Ray, Tom, 109, 160, 178
- _readme* (Bunting), 225
- Reaper, 182
- Recode*, 215
- Record, 72
- Redcode, 182
- Refresh* (Shulgin), 215–216

Reid, Brian, 147
 Request for Comments (RFC), 6, 38, 133–137, 140
 editor (*see* RFC editor)
 “Requiem for the Media” (Baudrillard), 58
 Resistance, 16, 105, 147, 150, 158, 160–161, 176, 244
 Resolution (DNS), 9, 47. *See also* Domain Name System (DNS)
 Resolution, low, 67
 Reverse engineer, 172
 RFC editor, 121–122, 132, 134–135
Rhizome, 19, 47, 49, 215, 238
 Rhizome (diagram), 24, 33–34, 46, 61, 197, 206
 Ritchie, Dennis, 108n89, 123
 Robot, 107n88
 Robustness, 42–44, 46, 243
 Ronfeldt, David, 30n2, 196, 204
 Root server, 9–10, 49. *See also* Domain Name System (DNS)
 Ross, Andrew, 170
 Ross, David, 209
 Routing, 44–45
 RTMark, 219, 228, 235
Ruling the Root (Mueller), 18
R.U.R. (Čapek), 102
 Rushkoff, Douglas, 229

 Salus, Peter, 124
 Schneemann, Carolee, 195
 Schöpf, Christine, 75
 Searle, John, 17, 165
 Seattle, 120
 Second nature, 87–102, 113
 Seigel, Martha, 119
 Semantic Web. *See* World Wide Web, Semantic
 September 11 (2001), 201
 Server, 39, 217
 SETI@home, 178
 Shelley, Mary, 102
 Shulgin, Alexei, 211, 215–216, 219, 225
 Sisco, Elizabeth, 227n32
 Situationism, 194
 Slatalla, Michelle, 161
 Smith, David, 184
 Social sculpture, 81
 Social Security Act, 13
 Society
 control, 3, 81, 86
 disciplinary, 21, 23, 25, 86
 sovereign, 21, 23 (*see also* Sovereignty)
 “Society Must Be Defended” (Foucault), 82
 Software, 219
 and art, 226–238
 “Software” (exhibition), 210n7
 Sony. *See* Betamax, Sony
 Source code. *See* Code, source
 Sovereign society. *See* Society, sovereign
 Sovereignty, 82
 Space, 190–191
 Spacewar, 169–170
 Spam, 120, 178
 Specificity, internet, 213, 216, 220
 Specters of Marx (Derrida), 91n28, 97, 100n65
 Speech act theory, 165
 Speed, 67
 Spontaneity, 101
 Sputnik, 4
 Stahle, Wolfgang, 233–234
 Stallman, Richard, 170
 Standard, establishment of, 126. *See also* Internet Standard

Standards track, 134–135

Stanford Research Institute (SRI), 5, 48

Stanford University, 136–137

Starrs, Josephine, 192, 194–195

STD. *See* Internet Standard

Sterling, Bruce, 151, 158–160, 166, 183

Stimson, Blake, 215

Stocker, Gerfried, 75

Stockholm, 180

Stone, Allucquère Rosanne “Sandy,” 188, 190–191, 194, 196

Stroustrup, Bjarne, 108n89, 124

Sun Microsystems, 108

Sunshine, Carl, 137

Superbad.com, 47

Supreme Court, 31

Surrealism, 194

SYN (synchronize), 43–44

Syndicate, 215

Tactical media, 175–206, 213–214, 244
and effects, 175–176, 206

TCP/IP. *See* Internet Protocol (IP);
Transmission Control Protocol (TCP)

Television, 209–210

Temporary autonomous zone (TAZ), 161, 197

Terrorism, 197, 201, 204–206, 226
discourse of, 181

“There Is No Software” (Kittler), 166

Thermodynamics, 110

Thing, The (New York), 10, 233–234

Thompson, Ken, 123, 182

Thousand Plateaus, A (Deleuze and Guattari), 33, 206

Tierra (Ray), 109–110, 160, 178

Tiger teams, 158–164

Time, 153

Time-to-live, 45

Toffler, Alvin, 17

Top-level domain (TLD), 49. *See also*
Domain Name System (DNS)

Totality, 42, 83, 243

Toyotism, 159, 197

Toywar (Etoy), 227–232

Tralla, Mara, 195

Transmission Control Protocol (TCP), 6, 8, 26, 42–46, 124, 136–137, 244

Transparency, 128, 136, 171

Transport layer. *See* Layer, transport

Tree (diagram), 24, 48–49, 197, 242

Trojan Horse, 168, 177, 180, 217. *See also* Virus, computer

TT-100, 112

Turing, Alan, 18, 72

Turkle, Sherry, 108

Unabomber. *See* Kaczynski, Theodore

United Nations Children’s Fund (UNICEF), 85

Universalism, 142, 196, 243. *See also*
Totality

Universal Resource Identifier (URI), 137–138

Universal Resource Locator (URL), 137

Unix, 123–124, 176, 182
Berkeley Software Distribution (BSD), 5–6, 124
Unix Today!, 183–184
“Unknown Glitch, The,” 186

Usenet, 119–120

User Datagram Protocol (UDP), 43

USSPACECOM, 29–30

Utopia, 168–169, 171. *See also* Possibility

“Vagina Painting” (Kubota), 195

Vampire, 97

Vcards (Daggett), 178
 Vesna, Victoria, 229
 VHS, 125–126
 Video, 19, 209–211
 Virus, computer, 156–157, 175–188,
 221. *See also* Trojan Horse; Worm
 and terrorism, 178, 180, 184
 Vitalism, 90–91, 93, 96–97, 102
 VNS Matrix, 187, 189, 191–196

 Wark, McKenzie, 169
Watch The KLF Burn A Million Quid,
 227n32
 Web. *See* World Wide Web
Web Stalker, 75–76, 218
 Weibel, Peter, 104
 Whitney Museum, 228, 235
 Wiener, Norbert, 18, 58–60, 102,
 105–107
 Wilding, Faith, 187
Will-n-Testament (Lialina), 224–225
 “Will the Real Body Please Stand Up?”
 (Stone), 190
Wired, 188
 Women, and digital machines, 185. *See*
 also Cyberfeminism
 World Health Organization (WHO),
 180
 World Trade Center, 201
 World Trade Organization (WTO), 120
 World War II, 107, 129, 200, 204
 World Wide Web (WWW), 6, 10, 47,
 76, 137–139, 211, 215–216, 218,
 220, 224, 226, 233, 238, 246. *See*
 also Internet
 continuity, 64–69
 Semantic, 139
 server, 39, 217
 structure of, 61, 64

 World Wide Web Consortium (W3C),
 6, 138
 Worm, 177, 182–184. *See also* Virus,
 computer

 Xerox PARC, 182
 XML. *See* Extensible Markup Language
 (XML)

 Youngblood, Eugene, 78, 210n7
 Young Hegelians, 87

 Zapatista movement, 214
Zeros and Ones (Plant), 188–189
ZKP4, 212
 Zone Improvement Plan (ZIP), 113