



THIS MACHINE KILLS SECRETS

How WikiLeaks, Cypherpunks, and
Hacktivists Aim to
Free the World's Information

ANDY GREENBERG



DUTTON

PART THREE THE FUTURE OF LEAKING 169
CHAPTER 5 THE PLUMBERS 171
CHAPTER 6 THE GLOBALIZERS 226
CHAPTER 7 THE ENGINEERS 272
CONCLUSION THE MACHINE 315

CONTENTS

CHARACTERS xi
PROLOGUE THE MEGALEAK 1
PART ONE LEAKER PRESENT, LEAKER PAST 9
CHAPTER 1 THE WHISTLEBLOWERS 11
PART TWO THE EVOLUTION OF LEAKING 47
CHAPTER 2 THE CRYPTOGRAPHERS 49
CHAPTER 3 THE CYPHERPUNKS 94
CHAPTER 4 THE UNION ROUTERS 135
SOURCES 325
ACKNOWLEDGMENTS 357
THE PUZZLE CONTAINED IN THIS BOOK 359
INDEX 361

TIM MAY

Intel physicist, libertarian, and crypto-anarchist thinker who would cofound the cypherpunks in 1991 and create a thought-experiment prototype for cryptographically anonymous leaks called BlackNet.

PHIL ZIMMERMANN

Applied cryptographer whose Pretty Good Privacy program (PGP) brought free, strong encryption to the masses. His investigation by the U.S. Justice Department from 1993 to 1996 ignited a debate over users' right to uncrackable encryption.

DAVID CHAUM

Inventor and academic whose anonymity systems, including DC-Nets and Mix Networks, would inspire the cypherpunks and lead to tools like anonymous remailers and Tor.

ERIC HUGHES

Mathematician, cryptographer, and cofounder of the cypherpunks who ran one of the Internet's first anonymous remailers.

JOHN GILMORE

Former Sun Microsystems programmer who would cofound the cypherpunks as well as the Electronic Frontier Foundation.

JOHN YOUNG

Architect, activist, and cypherpunk who founded Cryptome.org in 1996, a leak-focused site that has published thousands of names of intelligence agents and their sources, along with hundreds of secret encryption- and security-related documents.

JULF HELSINGIUS

Finnish systems administrator and privacy advocate, Helsingius created the Penet anonymous remailer and faced legal pressure from the

CHARACTERS

(IN ORDER OF APPEARANCE)

JULIAN ASSANGE

Founder of WikiLeaks, former hacker, cypherpunk, and activist who demonstrated the power of digital, anonymous leaking by publishing record-breaking collections of secret corporate and government material.

DANIEL ELLSBERG

Military analyst who from 1969 to 1971 exfiltrated and leaked the top secret Pentagon Papers to *The New York Times* and seventeen other newspapers.

BRADLEY MANNING

Army private who, at the age of twenty-two, allegedly leaked a trove of secret military and State Department documents to WikiLeaks that would become the largest-ever public disclosure of classified materials.

ADRIAN LAMO

A former hacker and homeless wanderer to whom Manning confessed his leak. Lamo turned Manning in to army investigators.

Church of Scientology that demanded he turn over the identity of one of his users.

JIM BELL

Engineer and libertarian whose 1997 essay "Assassination Politics" described a system of using encryption to facilitate anonymous, untraceable, and crowd-funded contract killings.

JACOB APPELBAUM

Activist, hacker, and developer for the Tor anonymity network who befriended Julian Assange and became the WikiLeaks' primary American associate.

PAUL SYVERSON

Logician and cryptographer in the Naval Research Laboratory who is credited with inventing the anonymous communications protocol known as "onion routing."

NICK MATHEWSON AND ROGER DINGLEDINE

Two MIT researchers who worked with Syverson to develop onion routing into a usable tool and then a nonprofit known as the Tor Project.

PEITER "MUDGE" ZATKO

Former "gray hat hacker" who served as a spokesperson for the hacker group the L0pht. Now leads the cybersecurity division of the Pentagon's Defense Advanced Research Projects Agency, including its program to find a method of rooting out rogue insiders known as CINDER or Cyber Insider Threat.

AARON BARR

Former chief executive of HBGary Federal, a small D.C. security firm that touted his methods for unmasking anonymous hackers and leakers.

THOMAS DRAKE

National Security Agency whistleblower who was threatened with prosecution under the Espionage Act for communicating with a reporter regarding alleged financial fraud and waste at the agency.

BIRGITTA JÓNSDÓTTIR

Icelandic member of parliament, poet, and activist who worked with WikiLeaks and is pushing a collection of radical transparency bills through Iceland's legislature known as the Icelandic Modern Media Initiative.

DANIEL DOMSCHEIT-BERG

German former WikiLeaks associate who worked closely with Assange but was pushed out of the group in the fall of 2010. He has since engaged in a bitter feud with Assange and founded his own digital whistleblower group known as OpenLeaks.

ATANAS TCHOBANOV AND ASSEN YORDANOV

Two Bulgarian investigative reporters who founded the independent media outlet Bivol and were inspired by WikiLeaks to create the Bulgaria-focused leak site BalkanLeaks.

ANDY MÜLLER-MAGUHN

Former member of the board of the German hacker group the Chaos Computer Club. Müller-Maguhn worked with WikiLeaks and served as an intermediary in the dispute between Assange and Domscheit-Berg.

THE ARCHITECT

Secretive and pseudonymous engineer who worked with Assange and Domscheit-Berg to set up a revamped submission system for WikiLeaks in late 2009 and 2010. After a falling-out with Assange, he joined Domscheit-Berg at OpenLeaks.

INDEX

- Afghan War, 2, 14–15, 175, 295, 296
 - Al Jazeera, 230, 291
 - American Indian reservations, 268
 - Ames, Aldrich, 30, 220
 - Anderson, Mark, 188
 - AnonLeaks, 213, 214
 - AnonNews, 215
 - anonymity
 - and "Assassination Politics," 117, 121–22
 - Barr on abuse of, 217–18
 - and Cypherpunk Mailing List, 114
 - of Ellsberg, 36–37
 - key role of, 6
 - of Manning, 39–40, 43, 45–46
 - required by government agencies, 139
 - technologies of, 6–7, 39, 66–70, 76–77, 79–80 (*see also* encryption and cryptography; remailers; Tor) and whistleblowing, 7
 - Anonymous
 - arrests of members, 215–16
 - on Bologna scandal, 316
 - and the Church of Scientology, 185–86
 - described, 183
 - and HBGary Federal, 192–95, 210–15
 - leak site of, 213, 214
 - victims of, 183–84
 - and WikiLeaks, 184–85
- AOL, 266
- Appelbaum, Jacob
 - activism of, 135–38
 - and Assange, 163–64
 - background of, 152–56, 160–62
 - BlockFinder tool of, 137
 - and Chaos Computer Club, 162–63
 - on copycat sites, 230
 - and Cypherpunk Mailing List, 154
 - on Domscheit-Berg, 288
 - government harassment of, 151
 - investigation of, 266–67
 - keynote address of, 151, 167–68
- MAID system of, 163
- on May, 91–92
- and OpenLeaks, 278
- privacy paranoia of, 137, 138
- threat of indictment, 151
- and Tor, 136, 150–51, 155, 167
- and WikiLeaks, 138–39, 151–52
- the Architect
 - anonymity of, 287, 322
 - and OpenLeaks, 292–94, 297

- the Architect (*cont.*)
 WikiLeaks' digital custody dispute with, 297-98, 299-300, 302, 303-4, 307, 310
 WikiLeaks tenure of, 287, 292-98
 Assange, Julian
 appearance of, 286
 and Appelbaum, 163-64
 and the Architect, 294-98
 background of, 102-8
 and BalkanLeaks, 263-64
 on bank leak, 1-2, 3-4, 178, 319
 and Bourbaki concept, 156, 317
 and Cablegate security breach, 305-6
 charges against, in youth, 112, 113
 "Conspiracy as Governance" essay, 127-29, 300, 312
 criticisms of, 320-21
 and Cypherpunk Mailing List, 96, 114, 125, 127
 and cypherpunks, 96, 98, 113-14
 distrust of power, 105-6
 and Domscheit-Berg, 229, 274-77, 285-88, 295, 296-98, 299, 303, 312-13
 and Domscheit-Berg's wife, 288-90
 early days of WikiLeaks, 156-60, 164-66, 285-86
 education of, 94-96, 127
 on fear of leaks, 178-79, 189
 house arrest of, 177, 320
 in Iceland, 257-58
 and ideology of anonymous whistleblowing, 7
 and IMMI legislation, 228
 as inspiring figure, 317
 investigation of, 266
 jail sentence of, 177
 and Jónsdóttir, 257-58
 leaks theory of, 128-29, 300
 manifesto of, 127-29
 and Manning, 4, 39-40, 43
 May on, 92
 megaleaks of, 2-3, 174-79 (*see also* Afghan War; Cablegate; Iraq War)
 "Mendax" hacker persona of, 103, 106-8, 112
 paranoia of, 286-87, 302
 Rubberhose, 126-27, 163, 164
 sex crimes allegations, 4, 177
 and Suburbia ISP, 112-13, 114
 threat of indictment, 139, 177, 178, 224, 320
 on Tor, 138
 Twitter data of, 138-39
 and Young, 130-32
 and Zatkó, 174, 201-2
 and Zimmermann, 113
 "Assassination Politics," 117, 119-22, 123-24, 125, 133-34
 Bahnhof ISP, 237-38
 Baker, Stewart, 101
 BalkanLeaks, 231-35, 261-62, 268-69
 Bank of America, 2, 4, 178, 179, 214, 304
 Barlow, John Perry, 186, 254-56
 Barr, Aaron
 on abuse of anonymity, 217-18
 and Anonymous, 187, 192-95, 210-15
 background of, 202-6
 Paranoia Meter proposal of, 218-20
 social media analysis of, 179-83, 205-6
 Belarus, 300
 Bell, James Dalton
 and Assange, 128
 "Assassination Politics" concept of, 117, 119-22, 123-24, 125, 133-34
 convictions of, 124-25
 interview with, 132-34
 libertarianism of, 119, 120
 and Young, 123-24, 125
 Berg, Daniel. *See* Domscheit-Berg, Daniel
 BGP (Border Gateway Protocol) hijacking, 207, 208
 Biden, Joe, 73-74, 84, 176
 Binney, Bill, 220-21
 BitTorrent, 318
 Bivol, 231, 233, 241-42, 260-63.
See also BalkanLeaks
 black hats, 137-38, 183, 216-17.
See also Anonymous
 BlackNet concept, 89-92
 blind signatures, 67-68
 BlockFinder, 137
 Borisov, Boyko, 246, 264-65
 Clarke, Richard, 206-7
 classified information, 5, 40, 45, 189
 Clinton, Hillary, 140
 Clinton administration, 84-85, 88
 Clipper Chip, 84-85, 86, 88
 Cohen, Bram, 318
 Collateral Murder video
 discussion of, in *Soldiers*, 311
 at Hackers on Planet Earth conference, 168
 and Jónsdóttir, 258
 Manning's discovery of, 28-29
 perpetrators of, 43
 release of, 34
 Collins, Susan, 38
 Columbia University Occupation of 1968, 108-9, 110
 Computer Fraud and Abuse Act (1986), 197
 Cottrell, Lance, 118-19, 144
 Crowley, P. J., 31, 308
 "Crypto-Anarchist Manifesto" (May), 76-77, 79, 122
 Crypto Anarchy game, 79-81
 crypto-anarchy movement
 and "Assassination Politics," 119-22
 and Chaum's concepts, 69-70, 79-80
 coalescence of, 81 (*see also* cypherpunks)
 manifesto of, 76-77, 79, 122
 on secrecy, 90-91
See also cypherpunks; May, Tim
 cryptography. *See* encryption and cryptology
 Cryptome
 Berg's support of, 284-85
 on Bologna scandal, 316
 and Cablegate security breach, 307
 Domscheit-Berg's memoir on, 297
 information leaked by, 100-101, 129-30
 model of, 131
 news featured on, 122, 125
 security of, 101-2
 WikiLeaks' communications leaked on, 157-58, 159-60, 285
 cybersecurity industry, 187-91
 Cypherpunk Mailing List
 and Appelbaum, 154
 archives of, 92
 Assange's participation in, 96, 114, 125, 127

- Bright, Arthur, 267
 Brooke, Heather, 300
 Bulgaria, 231-35, 241-46, 252-54, 259-65, 268-71
 Bush (G. W.) administration, 223-24
 Byrne, William, 41
 Cablegate
 and BalkanLeaks, 261-65
 files on Manning's computer, 39
 influence of, 3
 information leaked by, 28, 176
 Pentagon Papers compared to, 14-15
 responses to, 176-77, 189
 security breach at WikiLeaks, 300, 305-9, 321
 Central Intelligence Agency (CIA), 91
 Chao Computer Club
 Appelbaum's participation in, 162-63
 Camp of, 272-74, 276, 277-82, 290-92, 299, 303
 congresses of, 162, 284, 286
 and Domscheit-Berg, 284, 298-99, 301-2, 303, 310
 and OpenLeaks' penetration test, 274, 276, 278, 292, 303
 Chaum, David
 background of, 65-66
 crypto-conference of, 77
 DigiCash company, 119
 Hughes's employment with, 78
 Mix Network concept of, 79-80, 82, 117, 118-19, 139, 141
 transaction system of, 66-70, 76, 89, 119
 Cheney, Dick, 101
 China, 150
 Church of Scientology
 Anonymous' attacks on, 185-86
 and Assange, 114
 and Helsingius's Penet remailer, 116, 125-26
 and Suburbia ISP, 113, 114
 and WikiLeaks, 166, 186
 CINDER (Cyber Insider Threat) initiative, 173-74, 187-88, 190-91, 216-17, 218-20
 Citizens' Movement, 251-52

- Cyberpunk Mailing List (*cont.*)
 and "Assassination Politics," 117
 and evolution of cryptographic
 anonymity, 114
 Helsingius's participation in, 115, 116
 and May's BlackNet concept, 89
 origins of, 81
 cyberpunks
 and Assange, 96, 98, 113-14
 beginnings of, 79, 80-81
 and Clipper Chip, 85, 88
 code-writing maxim of, 82, 118, 148
 Crypto Anarchy game of, 79-81
 legacy of, 321
 libertarian emphasis of, 78, 82, 121
 mailing list of (*see* Cyberpunk
 Mailing List)
 manifesto of, 82-83, 122
 and Manning's documents, 98
 and May's BlackNet concept, 89-92
 meetings of, 81-82
 remailer of, 82, 92, 118
 shooting club of, 82
 WikiLeaks' connection to, 102
 and Young, 111, 122-25
 and Zimmermann, 85, 86
See also Hughes, Eric; May, Tim
- Data-Leak Prevention (DLP) industry,
 187-90
- DC-Net (Dining Cryptographers Network),
 68-69
- de Vries, Benjamin Spock, 193, 214
- Digital Encryption Standard (DES), 86
- Dingledine, Roger, 141, 146-48, 149-50, 155
- Domscheit-Berg, Anke, 288-90
- Domscheit-Berg, Daniel
 and the Architect, 287, 294
 and Assange, 229, 274-77, 285-88, 295,
 296-98, 299, 303, 312-13
 background of, 282-85
 and Cablegate security breach, 306-8
 and Chaos Communication Camp,
 273-76, 299
 and Chaos Computer Club, 284,
 298-99, 301-2, 303, 310
 in Iceland, 257-58
- marriage of, 288
 memoir of, 88, 277, 297, 303
 and Müller-Maguhn, 299-300, 301-2
 and OpenLeaks, 273-76, 277-82,
 309-12
 professional appearance of, 286
 WikiLeaks' digital custody dispute with,
 178, 297-98, 299-300, 302, 303-4,
 307, 310
 WikiLeaks tenure of, 229-30, 276,
 285-88, 296-98, 300
 Donchev, Angel, 233, 270
 Drake, Thomas, 220-25
 Dreyfus, Sulette, 103, 126
 Dubois, Phil, 75, 84, 86
- Egypt, 138
- Electronic Frontier Foundation, 83-84, 85,
 149, 230, 266
- Ellsberg, Daniel
 activism of, 53-55
 attempts to discredit, 41
 background of, 15-18
 conversion to dissident, 45
 copying of documents, 11-13
 and ideology of anonymous whistle-
 blowing, 7
 and Manning, 14-15, 44, 45
 on nature of secrets, 18
 and Nixon administration, 40-42, 46
 Pentagon Papers released by, 34-37
 trial of, 41
 and Vietnam War, 21-26
 and WikiLeaks, 131
 wiretapped phones of, 41
 e-mail, 71
 encryption and cryptography
 and activism, 71, 74-75, 126
 and anonymity tools, 6, 80
 and Biden's S.266, 73-74, 84
 and censorship circumvention, 149
 Chaum's Mix Network encryption,
 79-80, 82
 and Chaum's transaction system, 66-71
 and Clipper Chip, 84-85, 86, 88
 cryptographers (*see* Chaum, David; Merritt,
 Charlie; Zimmermann, Philip R.)

- export laws on, 72, 74, 75, 86-87
 government regulation of, 72, 73, 75, 83
 and May's BlackNet concept, 89-92
 military applications of, 72
 one-time pads, 61-62
 and political change, 131
 private (symmetric) key encryption,
 62-63, 145-46
 and remailers, 80-81, 82
 and Rubberhose code, 126-27
 Secure Sockets Layer encryption, 157
 vulnerabilities of, 125-26
See also PGP (pretty-good privacy);
 public key encryption
- Espionage Act, 36, 44, 223-25
- Facebook, 7, 192, 251, 266
- Federal Bureau of Investigation (FBI)
 on dangers of encryption, 73
 and Hanssen, 191
 and Lamo's hacking, 33
 Manning investigation, 42
 Pentagon Papers investigation, 37
 and Tor, 140
 and Young's Cryptome site, 101, 130
 Ferguson, Thomas, 38
 Filasto, Arturo, 318-19
 file-sharing programs, 317-18
 Finney, Hal, 118
 First Amendment, 36, 87
- Galison, Peter, 5
- Gardner, Martin, 62-64, 71, 79
- Gates, Robert, 175
- Gerard, David, 113
- German Privacy Foundation, 278-79
- Gilmore, John
 and Cyberpunk Mailing List, 81-82, 92
 libertarianism of, 255
 on May's influence, 89
 and *New York Times* magazine story, 122
 and OpenLeaks, 280
 party of, 78
 globalization of secrets control, 236
 Gonggrijp, Rop, 155, 258, 266-67
 Google, 266
 Gorman, Siobhan, 222-23
- Greenwald, Glenn, 182-83, 215
- Guantánamo prison, 14, 39, 285
- The Guardian*, 262-63, 276, 300, 305, 307
- Hackers (Levy), 199
- Hackers on Planet Earth conference*, 151,
 167-68
- Hackers Wanted* (unreleased documentary),
 33-34
- Hanssen, Robert, 30, 191, 220
- HBGary, 179-83, 187, 192-95, 210-15,
 218-20
- helicopter airstrike footage. *See* Collateral
 Murder video
- Helsingius, Johan "Julf," 114-17, 125-26, 321
- Hoglund, Greg, 194-95, 212, 215
- Hubbard, L. Ron, 166
- Hughes, Eric
 and Chaum, 78
 code-writing maxim of, 82, 85, 148
 and mailing list, 92
 manifesto of, 82-83, 122
 and May, 78-79
 and *New York Times* magazine story, 122
 and origins of Cyberpunks, 79, 80-81
 remailer of, 82, 118
- Iceland, 226-28, 240-41, 250-52, 255-59,
 265-66, 304
- Icelandic Digital Freedom Society, 255
- Icelandic Modern Media Initiative (IMMI),
 228, 235, 236, 240-41, 258, 265-66,
 267
- information market concept, 59-60,
 64-65, 89
- Ingólfsson, Mordur, 240-41
- insider threats, 189, 209-10, 216-17
- Intel, 49-52, 85
- intellectual property, 76-77
- International Subversives, 106-7, 111-12, 321
- International Traffic in Arms Regulations
 (ITAR), 72, 74, 87
- Internet, 255, 268-69
- Iraq War
 culture of secrecy in, 311
 exit of troops from Iraq, 3
 Grizzly Plow used in, 95

- Iraq War (cont.)*
 helicopter airstrike footage from, 28–29, 34, 43, 168, 311
 megalack of Manning from, 2, 14–15, 175, 295
 security in, 37–39
 Ivanov, Vassil, 234
- Johnson, Lyndon, 22, 25
 Jones, Rich, 316–17
 Jónsdóttir, Birgitta
 on the Architect, 287
 and Assange, 257–58
 background of, 226–27, 246–52
 at Chaos Communication Camp, 273
 and Collateral Murder video, 258
 and IMMI legislation, 228, 236, 240, 255
 investigation of, 266–67
 and OpenLeaks, 279, 282
 and WikiLeaks, 296, 321
- Kapor, Mitch, 255
 Karlung, Jon, 237–38
 Karn, Phil, 86–87
 Kaupthing Bank, 256
 Kehler, Randy, 26
 Kenyan leaks, 165
 Kissinger, Henry, 17–18, 24, 40
- Lamo, Adrian
 and Appelbaum, 167, 168
 background of, 29–30, 32–34
 Manning informed on by, 31–32, 40, 42–43, 46, 142, 168
 Manning's conversations with, 34, 37–39, 42–43
 on Manning's imprisonment, 30–31
 Laurie, Ben, 131, 157
 Leaks.org, 127
 Leavy, Penny, 213–14
 Leigh, David, 305, 307
 Lewman, Andrew, 140
 Libya, 137, 138
 Liddy, G. Gordon, 41
 Lieberman, Joe, 176–77, 189
 L0pht, 198–202, 206–9
- MAID (mutually assured information destruction), 163
 Manning, Bradley
 acquisition of documents, 14–15
 anonymity attempted by, 39–40, 43, 45–46
 Anonymous' defense of, 186, 214
 army career of, 21, 27
 arrest of, 43–44
 and Assange, 4, 39–40, 43
 background of, 18–21
 and Ellsberg, 14–15, 44, 45
 and future military leakers, 312
 and helicopter airstrike footage, 28–29, 34, 43, 168, 311
 imprisonment of, 30–31, 44, 321
 investigation of, 266
 Lamo's conversations with, 34, 38–39, 42–43
 Lamo's informing on, 31–32, 40, 42–43, 46, 142, 168
 and leaker profile, 26–27, 45
 on military security, 37–39
 motivation of, 27–29
 prosecution of, 224
 Tor used by, 39, 139
 upload of documents to WikiLeaks, 39
- Markov, Georgi, 234
 Marshall, Róbert, 251
 Mathewson, Nick, 135–36, 147–48, 149, 155
 Mati, Mwalimu, 165–66
 May, Tim
 background of, 55–59
 and Bell's "Assassination Politics," 121–27
 BlackNet concept of, 89–92
 career at Intel, 49–52
 and Chaum's transaction system, 65, 69–70
 and Clipper Chip, 85
 gun interests of, 56, 82
 and Hughes, 78–79
 and information market, 59–60, 64–65
 and interview with, 52, 88–89
 libertarianism of, 57–58, 70, 76, 91–92
 and mailing list, 92
 manifesto of, 76–77, 79, 122
 and *New York Times* magazine story, 112
 and origins of Cypherpunks, 79, 80–81

- writing ambitions of, 76, 77–78
 and Zimmermann, 85, 88
 Mazzacone, Eric, 216
 McCarthy, Smári, 258, 268, 287, 300
 McGovern, George, 35, 36–37
 McNamara, Robert, 24–25
 Meredith, Daniel, 291–92
 Merritt, Charlie, 70–72, 75
 Metzger, Reiner, 281–82
 Microsoft, 101, 200–201
 Middle East, freedom fighting in, 135–38
 Minerva mainframe system hack, 102–4
 MIT, 148
 MIT Press, 87
 Mixmaster remailer, 118–19, 144
 Mix Network concept
 and Cottrell's Mixmaster remailer, 118–19
 and Cypherpunk Remailer, 82
 described, 79–80
 and remailers, 80–81, 82, 117
 and Tor, 139, 141, 144, 145–46
 Monsegur, Hector Xavier, 215–16
 Morozov, Evgeny, 4, 268–69
 Mubarak, Hosni, 138
 Mullen, Mike, 175
 Müller-Maguhn, Andy, 279, 299–300, 301–3, 305–7, 310
 Napster, 317–18
 National Security Agency (NSA)
 and Clipper Chip, 84–85, 86, 88
 and cryptography, 72
 and Drake's whistleblowing case, 220–24
 on leaked material, 101
 TEMPEST tool of, 123, 130
 wiretapping scandal of, 222–23
 and Young's Cryptome site, 130
- Natsios, Deborah, 100, 122
 Naval Research Laboratory, 139, 143–45, 149, 151
 Neij, Fredrik, 238–39
 NetWitness, 189
 network forensics, 189
Newsweek, 37, 225, 266, 296
The New Yorker, 159
The New York Times
 on AOL users' data, 266
- Oak Ridge National Laboratories, 90
 Obama, Barack, 3, 5, 44–45, 224–25
 Occupy Wall Street, 315
 Olsnik, Jon, 209–10
 onion routing, 143–46, 156. *See also* Tor
 Opasnie Novini ("Dangerous News") blog, 260–61
 OpenLeaks
 and the Architect, 292–94, 297
 and Chaos Communication Camp, 299
 digital custody dispute of, 310
 future of, 311
 goal of, 275
 headquarters of, 309–10
 Müller-Maguhn on, 302
 origins of, 297
 penetration test of, 274, 276, 278, 292, 303
 security of, 274–75, 278, 293–94
 test launch of, 273–76, 277–82, 310
 "owning" a target, 137–38
- Paller, Alan, 188
Paradox quarterly magazine, 94, 98
 Paranoia Meter, 218–20
 Pardew, James, 262
 Patriot Act, 268
 Penet remailer, 115–17, 321
 Pentagon Papers
 access to, 24–25, 36, 45
 contents of, 24–26
 copying of, 11–13
 legacy of, 270, 321
 release of, 34–37
See also Ellsberg, Daniel

- PGP (pretty-good privacy)
 and activism, 71, 74–75
 distribution of, 74–75
 investigation of, 75, 83–84, 86–87
 MIT Press's publication of, 87
 origins of, 70–75
 passwords for, 306
 in remailers, 118
 and Young's Cryptome site, 101
PGP: Source Code and Internals
 (Zimmermann), 53, 83, 87
- Pietrosanti, Fabio, 318–19
- Pirate Bay, 238–39, 256, 305, 306, 318
- political dissidents, 136–38, 140
- PRQ (PeñiQuito AB), 238–40, 294
- public key encryption
 described, 62–64
 Manning's use of, 34
 and May's BlackNet concept, 89–92
 and Mix Network concept, 79–80
 RSA, 64, 70, 71, 79
 signatures in, 67
 and Tor, 145–46
 and Young's Cryptome site, 101
 See also PGP (pretty-good privacy)
- Qaddafi, Muammar, 3, 137
- Radack, Jesselyn, 225
- RAND, 11, 22, 24, 34, 36
- Reader's Digest*, 101
- Reagan administration, 55
 remailers
 and Chaum's Mix Network encryption,
 80–81, 82, 117
 Cottrell's Mixmaster remailer, 118–19,
 144
 cypherpunk remailer, 82, 92, 118
 Helsingius's Penet remailer, 115–17
 improvements to, 117–18
 and Young's Cryptome site, 102
Rolling Stone, 138
- Rosenkrantz, Richard, 109, 110
- RSA (MIT's public key encryption), 64, 70,
 71, 79
- Rubberhose, 126–27, 163, 164
- Russo, Tony, 11–13, 37
- Salin, Phil, 59–60, 64–65, 89
- satellite modems, 135–37
- secrets
 and crypto-anarchy, 90–91
 culture of secrecy, 311
 Domscheit-Berg on role of, 312
 globalization of secrets control, 236
 psychological effects of, 18, 225
Secrets (Ellsberg), 12, 24
 Secure Sockets Layer encryption, 157
 "Security without Identification" (Chaum),
 66–67
- Shamir, Israel, 262–63, 264, 300
- Sheehan, Neil, 35
- Shirky, Clay, 7, 235–36
- Smith, Vaughan, 177
- Soghoian, Chris, 141–42
- Somalian leak, 164–65
- Soviet Union, 55
- SQL injection, 211
- Steckman, Matthew, 181–82
- Stefanov, Ognyan, 234, 260–61
- Sterling, Bruce, 98
- Stoev, Georgi, 234
- S.266, 73–74, 84
- Suburbia ISP, 112–13, 114
- Sunde, Peter, 239
- Svartholm, Gottfrid, 238–39
- Sweden, 236–40, 292
- Syverson, Paul, 143–44, 146–47, 156
- Tamm, Thomas, 223
- Tchobanov, Atanas, 232–35, 241–42,
 252–53, 259–65, 269–70
- TEMPEST tool of the NSA, 123, 130
- text-message terrorism, 252–53
- Thinthread, 220–24
- Time* magazine, 37
- Tor
 anonymity ensured by, 7, 139–40
 and Anonymus, 184
 and Appelbaum, 136, 150–51, 155, 167
 the Architect on, 292–93
 Biwol's use of, 261
 Browser Bundle program, 150
 and copycat sites, 230, 231, 233
 development of, 139, 144–47, 149
- U.S. Department of Justice
 and Bank of America, 179, 181
 ethics violations leaks of, 225
 and NSA wiretapping scandal, 223
 PGP investigation, 87
 and Twitter data, 138–39
 and users' data, 266
- U.S. Department of State
 and Appelbaum, 139
 and crypto-export laws, 86–87
 and Tor, 139–40, 149
 and Tunisian revolution, 3
 See also Cablegate
- Usenet, 59, 74, 106, 197
- Viborg, Mikael, 239
- video clips, 315–16
- Vietnam War, 21–26, 36, 54. See also
 Pentagon Papers
- Wall Street Journal*, 230
- WarGames* (1983), 196–97
- Weinmann, Ralf-Philipp, 126, 163
- WikiLeaks
 anonymity of, 6, 157–58
 and Anonymus, 184–85
 and Appelbaum, 138–39, 151–52
 and the Architect, 287, 292–98, 300
 archives of, 164–66, 296, 297, 300, 302
 and BalkanLeaks, 263–64
 beginnings of, 96–98
 and Church of Scientology, 166, 186
 cloned sites of, 177
 and Collateral Murder video, 28–29, 34,
 43, 168, 311
 copycat sites, 229–35, 290–92, 318–19
 (see also OpenLeaks)
 cover traffic of, 293
 critics of, 4, 295–96
 cyberattacks on, 177, 182
 and cypherpunks, 102
 dismantled state of, 297–98, 302
 DNS service provider for, 177
- UKUSA agreement, 235, 236
- Underground* (Assange and Dreyfus), 103,
 106–7, 111, 112, 129
- University of Melbourne, 94–96, 106, 127
- U.S. Army
 and helicopter airstrike footage, 28–29,
 34, 43, 168, 311
 and Lamo, 40, 42
 Manning's acquisition of documents,
 14–15
 Manning's arrest by, 43–44
 Manning's career with, 21, 27
 security in, 37–39, 46
- U.S. Congress, 73–74, 83–84, 189, 207–8
- U.S. Defense Advanced Research Projects
 Agency (DARPA)
- GENDER initiative, 173–74, 187–88,
 190–91, 216–17, 218–20
- cybersecurity research team at, 171–74
 and governmental secrets, 139
- Trailblazer, 221–24
- Trax, 107, 112
- Trygsvadóttir, Margrét, 252
- Trynor, Mark, 192–94
- Tsonev, Tsoni, 231
- Twitter, 138–39, 266–67
- UKUSA agreement, 235, 236
- Underground* (Assange and Dreyfus), 103,
 106–7, 111, 112, 129
- University of Melbourne, 94–96, 106, 127
- U.S. Army
 and helicopter airstrike footage, 28–29,
 34, 43, 168, 311
 and Lamo, 40, 42
 Manning's acquisition of documents,
 14–15
 Manning's arrest by, 43–44
 Manning's career with, 21, 27
 security in, 37–39, 46
- U.S. Congress, 73–74, 83–84, 189, 207–8
- U.S. Defense Advanced Research Projects
 Agency (DARPA)
- GENDER initiative, 173–74, 187–88,
 190–91, 216–17, 218–20
- cybersecurity research team at, 171–74
 and governmental secrets, 139

- distribution of, 149
- government backing of, 139, 140,
 144–45, 146, 149, 150–51
- Hidden Service feature, 140, 142, 157,
 278, 318–19
- leakers' acclimation to, 233
- Manning's use of, 39, 139
- mechanics of, 141
- MIT Hackfest, 135–36, 139
- name of, 141
- nodes of, 149, 150, 158–60
- and OpenLeaks, 278
- political applications of, 149
- and satellite modems, 135–37
- security of, 141–42
- and unencrypted files, 158–59
- uses of, 140–41
- and U.S. government, 139–43
- and WikiLeaks, 138, 157, 158–60,
 168
- Trailblazer, 221–24
- Trax, 107, 112
- Trygsvadóttir, Margrét, 252
- Trynor, Mark, 192–94
- Tsonev, Tsoni, 231
- Twitter, 138–39, 266–67
- UKUSA agreement, 235, 236
- Underground* (Assange and Dreyfus), 103,
 106–7, 111, 112, 129
- University of Melbourne, 94–96, 106, 127
- U.S. Army
 and helicopter airstrike footage, 28–29,
 34, 43, 168, 311
 and Lamo, 40, 42
 Manning's acquisition of documents,
 14–15
 Manning's arrest by, 43–44
 Manning's career with, 21, 27
 security in, 37–39, 46
- U.S. Congress, 73–74, 83–84, 189, 207–8
- U.S. Defense Advanced Research Projects
 Agency (DARPA)
- GENDER initiative, 173–74, 187–88,
 190–91, 216–17, 218–20
- cybersecurity research team at, 171–74
 and governmental secrets, 139

- WikiLeaks (*cont.*)
 document repository of, 159
 and Domscheit-Berg, 229–30, 276,
 285–88, 296–98, 300
 donations and funding for, 4, 34, 175,
 177, 182, 186, 264, 286, 319–20
 early days of, 156–60, 164–66, 285
 and HBGary Federal, 179–83, 214
 in Iceland, 256–59
 and IMMI legislation, 228
 leaks left unpublished by, 300, 302–4
 leaks released by, 2–3, 174–79, 285,
 295–96 (*see also* Afghan War;
 Cablegate; Iraq War)
 Cablegate; Iraq War
 leaks submitted to, 39, 164–66, 293–94,
 297, 298, 299–300
 nondisclosure agreement of, 300–301
 OpenLeakers' digital custody dispute
 with, 178, 297–98, 299–300, 301–5,
 307, 310
 operations of, 286
 partial shutdown of, 296–97
 prototype for, 113
 redactions of names, 295, 296, 309
 security breaches at, 300–301, 305–9
 servers of, 157, 177, 182, 237, 285, 294,
 297
 submission system of, 157–58, 168, 230,
 238, 297, 298, 300, 302
 supporters of, 4, 182–83
 and Tor, 138, 157, 158–60, 168
 transnational status of, 235–36
 web hosting for, 237–41, 294
 and Young, 102, 130–32, 157–58,
 159–60, 164–65, 285, 321–22
 World War II, 311
- Yordanov, Assen, 233–35, 241–46, 253–54,
 259–65, 270–71
- Young, John
 and Assange, 130–32
 background of, 108–11
 and Bell, 123–24, 125
 and Cablegate security breach, 307
 and cypherpunks, 111, 122–25
 interview with, 99–102
 libertarianism of, 109
 and WikiLeaks, 102, 130–32, 157–58,
 159–60, 164–65, 285, 321–22
See also Cryptome
- Zatko, Peiter "Mudge"
 and Assange, 174, 201–2
 background of, 195–202
 at Black Hat conference, 216–17
 GINDER initiative, 173–74, 187–88,
 190–91, 216–17, 218–20
 and *Forbes* article, 202
 and Lóphpt, 206–9
 role at Department of Defense, 171–74,
 190–91
- Zimmermann, Philip R.
 activism of, 53–55, 71, 84
 and Assange, 113
 background of, 60–62
 and Bell's "Assassination Politics," 122
 and Clipper Chip, 85, 88
 congressional testimony of, 83
 and cypherpunks, 85, 86
 encryption engine of, 70–75 (*see also* PGP)
 and export laws, 86–87
 interview with, 53
 investigation of, 75, 83–84, 86–87
 and May, 85, 88
 media coverage of, 85–86
 and Merritt, 70–72
 and *New York Times* magazine
 story, 122