Index

Acheson, Dean, 123, 124–125
Adversary perspective analysis, 20–22
Aerial reconnaissance
  atomic bomb, 117
  Cuban missile crisis, 144, 145
  Soviet strategic weapons, 137–141
Aerial warfare
  bombing, strategic, 99–104
  Luftwaffe, estimation of strength of, 69–77
Afghanistan, Soviet invasion of, 154, 155–160
cognitive biases, 159
drivers, 157
hindsight bias, 159
indicators, 155–159
intelligence collection, 159–160
risk, threat analysis, 157
Airline tragedies, 229–232
Air Ministry (Britain), 70–71
Allied bombers, targets for, 99–104
al Qaeda, 251–258
Ames, Aldrich, 161–164
Analysis of Competing Hypotheses (ACH), 18
  Anchoring bias, 110, 159, 236–237
  Anthrax, 234, 259–263
  Antiballistic missiles (ABMs), 139–140
  Arnold, Benedict, 56
Athenian campaign on Sicily, 35–38
Atomic bomb spies, 115–120
  Bentley, Elizabeth, 116, 117
  Fuchs, Klaus, 115, 116, 117–118
  Gold, Harry, 117–118, 119
  Gouzenko, Igor, 115
  Greenglass, David, 118, 119
  Rosenberg, Julius/Ethel, 116, 118, 119
  Venona, 116, 117–118
  Atta, Mohamed, 251, 252, 260
  Aum Shinrikyo, 233–237
  Availability bias, 6
  Baldwin, Stanley, 69, 70
  Battle of Britain, 75
  Bentley, Elizabeth, 116, 117
  Bin Laden, Osama, 251–258
  Biological, chemical weapons
    anthrax, 234, 259–263
    Aum Shinrikyo, 233–237
    Iraq, 201–202
  Soviet strategic weapons, 137–141
  Bisons, 137–138
  Blitzkrieg, 76
  Blunt, Anthony, 82
  Bomber gap, 137–138
  Bombing, strategic, 99–104
  Bounding the problem (problem
  restatement), 9–10
  Brezhnev doctrine, 157
  Britain, Caesar's campaigns in, 41–43
  Bush, George W., 197–198, 253
  Business
    Japanese cars, 281–283
    new Coke, 277–278
    overview, 269
  Caesar's campaigns in Gaul, 39–44
  Cali cartel, 240–241, 243
  Capone, Al, 220, 242
  Carter, Jimmy, 183, 185–186
  Castro, Fidel, 143
  Central Intelligence Agency (CIA, United States), 113, 123, 128, 137–138, 161–164
Challenges
- bureaucratic, political environment, 8
- deception (See denial, deception)
- errors, 6, 277–278
- heuristics, 5–6
- intelligence collection (See intelligence collection)
- intelligence cycle (See intelligence cycle)
- mindset, 6–7
- overview, 3, 5
- surprise (See surprise)
- uncertainty (See uncertainty)
- Chamberlain, Neville, 74
- Chertoff, Michael, 226
- Chief Intelligence Directorate (Russia), 79
- China
- Korean War, 123–129
- SARS, 271–275
- Chronologies (timelines), 9–10, 11, 226, 231
- Churchill, Winston, 71–72, 75, 81–82
- Cocaine trafficking, 239–245
- Cold War, 113
- Cole, USS, 256
- Columbian drug cartels, 239–245
- Commentaries on the War in Gaul (The War in Gaul) (Caesar), 39
- Competing hypotheses. See also information, multiple sources
- Aum Shinrikyo, 236–237
- Caesar's campaigns in Gaul, 40
- Iraqi WMDs, 206
- Lindbergh kidnapping, 219–224
- nuclear weapons testing, 189–194
- overview, 17–18, 19
- strategy, origin of, 217
- Sun Tzu, 47
- V-weapon, 106
- Washington, 56–57
- Yom Kippur War, 173–181
- The Concept, 176, 177
- Concrete warheads, 203
- Condon, John, 221–222
- Confirmation bias, 127, 159, 179, 204–205
- Context, providing, 9–10, 11
- Contingencies, 24
- Cost-benefit analysis. See risk, threat analysis
- Counterespionage, 247–250
- Counterinsurgency
- Afghanistan, Soviet invasion of, 154, 155–160
- Iraq, violence in, 209–214
- Malaya, 130, 131–134
- Vietnam War, 148, 149–153
- Counterintelligence
- atomic bomb, 115–120
- moles, finding, 161–164
- Crime scene investigation, 219
- Cruise missile, 110
- Cry wolf syndrome, 179
- Cuban missile crisis, 142, 143–147
- drivers, 143, 144–145, 157
- intelligence collection, 144, 145
- Curveball, 202, 205
- Czechoslovakia, German invasion of, 74
- Daschle, Thomas, 260
- Dayan, Moshe, 176, 178–179
- DC snipers, 265–268
- Decision (hypotheses) tree, 25–26
- Denial, deception
- Athenian campaign on Sicily, 35–38
- bombing, strategic, 103
- Caesar’s campaigns in Gaul, 40–41
- Cuban missile crisis, 144, 146
- Hitler’s air power doctrine, 76
- Iraqi WMDs, 201–206
- Khan proliferation network, 195–198
- nuclear weapons testing, 189–194
- overview, 5
- Pearl Harbor, 89–98
- reduction, approaches to, 22–23
- Shah, fall of, 185
- Soviet strategic weapons, 137–141
- Stalin’s assessment of Hitler, 86
- Sun Tzu, 46
- technology assessment, 75–76
- V-weapon, 108
- Washington, 57–58
- Yom Kippur War, 177–178, 179–180
- Department of Defense (DoD, United States), 113, 123
- Department of Energy (DOE), 247–248
- Directorate of Intelligence (DI, United States), 128
- Directorate of Military Intelligence (AMAN, Israel), 173–181
- Director of Central Intelligence (DCI, United States), 144–145
- Division of Territorial and Political Intelligence, 65
- Douhet, Giulio, 69
- Dowding, Hugh, 72
- Drivers
- Afghanistan, Soviet invasion of, 157
- Allied bombers, targets for, 99, 100, 102
- atomic bomb spies, 116, 117
INDEX

cocaine trafficking, 240
Cuban missile crisis, 143, 144–145, 157
Iraq, violence in, 209–214
Iraqi WMDs, 203–204, 205
Japanese cars, 281–283
Khan proliferation network, 197
Korean War, 124, 125–126
Luftwaffe size estimation, 69, 70, 71–72, 74–75
Paris peace conference, 63–64, 66
Pearl Harbor, 89–90, 91
projections, making, 23
Shah, fall of, 183, 184–185
Soviet strategic weapons, 137–138, 139–140
Stalin's assessment of Hitler, 79–80, 86
Vietnam War, 149
V weapon, 107, 108–109
Yom Kippur War, 175, 177
Drug trafficking
Columbian drug cartels, 239–245
organized crime, 226–228
Economy assessment, 139
Egesta (Segesta), 35–38
Eisenhower, Dwight, 102
Elazar, David, 178–179
Elizabeth I (Queen of England), 49–53
Enigma (Ultra), 81–82
Escobar, Pablo, 240, 242, 243
Espionage
atomic bomb, 115–120
Iraqi WMDs, 202, 205
Lee, Wen Ho, 247–250
Moses sending spies into Canaan, 31–33
nuclear weapons testing, 189–194
satellite (imagery) collection (See satellite (imagery) collection)
Soviet strategic weapons, 138, 139–141
Spanish Armada, 50, 51
spies, finding, 161–164
Stalin's assessment of Hitler, 79, 81–82, 83–84
Sun Tzu, 45–48
Ultra (Enigma), 81–82
V-weapon, 107
Washington, 55–59
Yom Kippur War, 176–177
Event flow charts, 12, 13, 226
Evidence assessment
Afghanistan, Soviet invasion of, 154, 155–160
Caesar's campaigns in Gaul, 39–44
Cuban missile crisis, 144
Lindbergh kidnapping, 219–224
Luftwaffe, estimation of strength of, 69–71
Moses sending spies into Canaan, 31–33
overview, 4
SARS, 271–275
Soviet strategic weapons, 137–141
Stalin, 80, 81, 82, 83–84
Sun Tzu, 47
Expertise, paradox of, 186
Federal Bureau of Investigation (FBI, United States), 116, 161–164
Foreign Intelligence Advisory Board (United States), 140
Framing bias, 159, 179, 236–237
Franco, Francisco, 74
Freeh, Louis, 226
Fuchs, Klaus, 115, 116, 117–118
German Air Ministry, 69–70
Giuliani, Rudolf, 226
Goebbels, Joseph, 81
Goering, Hermann, 73
Gold, Harry, 117–118, 119
Gorbachev, Mikhail, 168–170, 171
Gouzenko, Igor, 115
Greenglass, David, 118, 119
Groupthink, 180
Guernica raid, 74
Hale, Nathan, 55
Hanjour, Hani, 252
Hanssen, Robert, 161–164
Hatfill, Steven, 262
Hauptmann, Bruno, 222–223
Hazmi, Nawaf al-, 251–252, 256–257
Hanzawi, Ahmad al-, 259
Hearts and minds strategy, 131–134, 150, 212–213
Hess, Rudolph, 82
Heuer, Richards, 18
Heuristics, 5–6
Hindsight bias
Afghanistan, Soviet invasion of, 159
described, 76
Pearl Harbor, 97
September 11, 2001 attacks, 257
Stalin's assessment of Hitler, 83–84, 85
Hoover, Herbert, 220
INDEX

Hussein, Saddam, 201–206, 210–211
Hypotheses (decision) tree, 25–26

Imagery collection. See satellite (imagery) collection
Improvised explosive devices (IEDs), 210, 213
India, 189–194
Indian People’s Party (Bharatiya Janata Party, BJP), 192

Indicators
Afghanistan, Soviet invasion of, 155–159
anthrax, 259–263
Aum Shinrikyo, 233–237
Churchill, 71–72
Cuban missile crisis, 144
Iraqi WMDs, 201–202, 205
Khan proliferation network, 196–197
Korean War, 125–126, 127
Lindbergh, 73–74
Luftwaffe strength estimation, 70–71, 72, 76
Moses sending spies into Canaan, 31–33
nuclear weapons testing, 189–194
overview, 19
Pearl Harbor, 91–95
September 11, 2001 attacks, 251–258
social, 168
Soviet Union collapse, 167–172
Spanish Civil War, 74
spies, finding, 161–164
Stalin’s assessment of Hitler, 80, 82–85
Yom Kippur War, 177, 178
Industrial Intelligence Centre (Britain), 71, 75–76

Information, multiple sources.
See also competing hypotheses
atomic bomb spies, 116
Luftwaffe size estimation, 70–71, 72
Paris peace conference, 65, 66
Vietnam War, 149
V weapon, 105, 107–108
Information dominance (information preparation of the battlefield), 213–214
The Inquiry, 63–64, 66
Intelligence, strategic vs. tactical, 51, 53
Intelligence analysis
decision making in, 1
defined, 1
developments in, 19–20th century, 61–62
Kent, 128–129
Intelligence collection
Afghanistan, Soviet invasion of, 159–160

celebrity status as benefit to, 73–74
challenges in, 7–8, 16–17
courtroom prosecution considerations in, 256
history of, 29, 30
Korean War, 127–128
Luftwaffe, estimation of strength of, 70–71, 72
Medellin cartel, 242, 244
Moses sending spies into Canaan, 31–33
nuclear weapons testing, 189–194
Pearl Harbor, 90–91, 92–95, 96–97
Shah, fall of, 183–188
Soviet strategic weapons, 137–141
Soviet Union collapse, 167–172
Sun Tzu, 45–48
Vietnam War, 148, 149–153
Wilson/Paris Peace Conference, 63–66
wiretaps, 226
Yom Kippur War, 173–181
Intelligence cycle
overview, 7
Pearl Harbor, 97
Wilson/Paris Peace Conference, 63–66
Intercontinental ballistic missiles (ICBMs), 110, 138, 142
Intermediate range ballistic missiles (IRBMs), 143–147
Iran, 183–188
Iraq
violence in, 209–214
weapons of mass destruction (WMDs), 201–206
Irey, Elmer, 221
Israel, 173–181
Ivins, Bruce, 262
Japanese cars, 281–283
Jarrah, Ziad, 251, 252, 259
Kamel, Hussein, 201–202, 205
Kennedy, John, 145, 146
Kennedy, Robert, 145–146
Kent, Sherman, 1, 128–129, 144
Khan, A. Q., 195–198
Khan proliferation network, 195–198
Khomeini, Ruhollah, 185, 186
Khrushchev, Nikita, 143–147
Kim Il Sung, 123, 127
Kindleberger, Charles, 100
Korean War, 118, 122, 123–129
Acheson, 123, 124–125
drivers, 124, 125–126
indicators, 125–126, 127
Kim Il Sung, 123, 127
MacArthur, 124, 126–127
Mao Zedong, 123, 125, 127
mirror imaging, 123–129
rational actor model, 127
Kurds, 209–214
Laird, Melvin, 139–140
Langer, William, 128
Lansing, Robert, 65
Law enforcement, domestic
airline tragedies, 229–232
anthrax, 234, 259–263
Aum Shinrikyo, 233–237
cocaine trafficking, 239–245
DC snipers, 265–268
Lindbergh kidnapping, 219
organized crime, breaking, 225–228
overview, 217–218
pizza connection, 226–228
Leadership analysis
Afghanistan, Soviet invasion of, 154, 155–160
Hitler, 76, 79–86
Shah, fall of, 183–188
Spanish Armada, 50–51, 53
Stalin assesses Hitler, 79–86
Sun Tzu, 47
League of Nations, 65–66
Lee, Wen Ho, 247–250
Libya, 197
Lindbergh, Charles, 73–74
Lindbergh kidnapping, 219
competing hypotheses, 219–224
evidence assessment, 219–224
indicators, 73–74
Link (network, association) analysis
Medellin cartel, 242, 244
organized crime, breaking, 226
origin of, 217
overview, 14–16
Saddam Hussein, 210–211
Lippmann, Walter, 64
Luftwaffe, estimation of strength of, 69–77, 78
aerial warfare, 69–77
drivers, 69, 70, 71–72, 74–75
evidence assessment, 69–71
indicators, 70–71, 72, 76
information, multiple sources, 70–71, 72
intelligence collection, 70–71, 72
mirror imaging, 75–76
political cherry-picking, 70–71, 73–74
Spanish Civil War, 74
Stuka dive bomber, 74
technology, 74
MacArthur, Douglas, 124, 126–127
Mafia, breaking, 225–228
Malaya, 130, 131–134
Malvo, Lee, 265–268
Mao Zedong, 123, 125, 127
Marshall Plan, 123
Marwan, Ashraf, 176–178, 180
Matrices
overview, 13, 14
stoplight, 20
TWA flight 800, 231
Washington, 57, 58
McCarthy, Joseph, 117
McCone, John, 144–145
Medellin cartel, 240–243, 244
Medicine, 269, 271–275
Medium range ballistic missiles (MRBMs), 143–147
Meir, Golda, 178–179
Messerschmitt 109 fighter, 74
Mihdhar, Khaled al-, 251–252, 256–257
Mirror imaging
Afghanistan, Soviet invasion of, 159
cocaine trafficking, 244
Cuban missile crisis, 146
described, 6–7
Iraqi WMDs, 204–205
Korean War, 123–129
Luftwaffe size estimation, 75–76
nuclear weapons testing, 189–194
Pearl Harbor, 95–96
Vietnam War, 152–153
Moles, finding, 161–164
Money laundering, 227
Montgomery, Bernard, 110
Morison, Samuel Eliot, 64
Moses sending spies into Canaan, 31–33
Moussaoui, Zacarias, 256
Muhammad, John, 265–268
Multiple independent reentry vehicles (MIRVs), 139–140
Musharraf, Pervez, 197–198
National Intelligence Estimates (NIEs), 137–138
National Security Act of 1947, 113, 123
National Security Agency (NSA, United States), 128
INDEX

National Security Council (NSC, United States), 113, 123
Naval warfare, 49–53
New Coke, 277–278
Nuclear weapons
  Khan proliferation network, 195–198
  Lee, Wen Ho, 247–250
  Soviet strategic weapons, 137–141, 146
testing, 189–194
Office of National Estimates (ONE, United States), 128–129, 144
Operation Overlord, 102
Organized crime, breaking, 225–228
Pahlavi, Reza, 183–188
Pakistan
  Khan proliferation network, 195–198
  nuclear weapons testing, 189–194
Pan Am Flight 103, 229–230
Paradox of expertise, 186
Paris Peace Conference, 63–66
drivers, 63–64, 66
information, multiple sources, 65, 66
Partnership strategy, 212–213
Pattern bias, 6, 204–205
Pearl Harbor, 89–98
drivers, 89–90, 91
hindsight bias, 97
indicators, 91–95
intelligence collection, 90–91, 92–95, 96–97
intelligence cycle, 97
mirror imaging, 95–96
risk, threat analysis, 90, 91, 97
technology, 95
Penkovsky, Oleg, 145
People Persecuted by Pablo Escobar (Perseguidos por Pablo Escobar (Los Pepes)), 242–243
People’s Commissariat for Internal Affairs (Russia), 79
Phily, Kim, 82
Philip II (King of Spain), 49–53
Pizza connection, 226–228
Plato, 36
Political cherry-picking
  Churchill, 71–72
  Iraqi WMDs, 203
  Luftwaffe size estimation, 70–71, 73–74
  MacArthur, 124, 126–127
Shah, fall of, 187
Stalin’s assessment of Hitler, 79, 84, 86
Vietnam War, 151–152
Yom Kippur War, 176–177
Problem restatement (bounding the problem), 9–10
Projections, making contingencies, 24
decision (hypotheses) tree, 25–26
drivers, 23
Sun Tzu, 46
“What if?” analysis, 23–24
Qaddafi, Muammar, 197
Racketeer Influenced and Corrupt Organization (RICO) Act of 1970, 226
Rational actor model
  Afghanistan, Soviet invasion of, 159
  Cuban missile crisis, 146
described, 6–7
  Iraqi WMDs, 204–205
  Korean War, 127
  Stalin’s assessment of Hitler, 85–86
  Yom Kippur War, 178–179
Reagan, Ronald, 140, 241
Revolutionary Armed Forces of Colombia (Fuerzas Armadas Revolucionarias de Colombia (FARC)), 240–241
Ring, Culper, 55
Risk, threat analysis
  Afghanistan, Soviet invasion of, 157
  Cuban missile crisis, 144
  Moses sending spies into Canaan, 31–33
  overview, 19–20
  Pearl Harbor, 90, 91, 97
  procedures, 19–20
  Soviet strategic weapons, 139
  Soviet Union collapse, 167–172
  strategic bombing, 100
  Sun Tzu, 46–47
  V-weapon, 105–111
Washington, 56–57
Yom Kippur War, 173–181
Roosevelt, Franklin, 81, 89–98
Rosenberg, Julius/Ethel, 116, 118, 119
Rostow, Walt, 100
Royal Air Force (RAF), 70, 75, 99–100
Rural pacification program, Vietnam, 150
Sadat, Anwar El, 173–181
Sarin gas, 234–236
SARS, 271–275
INDEX

Satellite (imagery) collection
Iraqi WMDs, 202, 205
nuclear weapons testing, 189–194
Soviet strategic weapons, 138, 139–141
TWA flight 800, 231
Scenarios quadrant, 24, 26
Scouting
aerial reconnaissance (See aerial reconnaissance)
Caesar, 43
Search and destroy missions, 150
Secret Intelligence Service (SIS, Great Britain), 105
September 11, 2001 attacks, 251–258
Serial killings, 265–268
Shah, fall of, 183–188
denial, deception, 185
drivers, 183, 184–185
political cherry-picking, 187
The Shape of Things to Come, 69
Sharon, Ariel, 176
Shehhi, Marwan al-, 251, 252
Shiites, 209–214
denial, deception, 185
drivers, 183, 184–185
political cherry-picking, 187
Soviet Union
collapse, 167–172
strategic weapons, 137–141
(See also Afghanistan, Soviet invasion of; Cuban missile crisis)
Spanish Armada, 49–53
espionage, 50, 51
leadership analysis, 50–51, 53
surprise, 52
Spanish Civil War, 74
Sparta, 35–38
Special National Intelligence Estimates (SNIEs), 137–138
Speer, Albert, 103
Spying, spies. See espionage
SS-9 missile, 139–140
Stalin, Joseph, 79–86, 127
Stalin’s assessment of Hitler, 79–86
denial, deception, 86
drivers, 79–80, 86
espionage, 79, 81–82, 83–84
hindsight bias, 83–84, 85
indicators, 80, 82–85
leadership analysis, 79–86
political cherry-picking, 79, 84, 86
rational actor model, 85–86
Sorge, Richard, 83–84
Timoshenko, Semyon, 84, 85
Zhukov, Georgy, 84, 85
Status quo thinking, 171, 186, 214, 237, 257
Stoplight matrix, 20
Stuka dive bomber, 74
Sunnis, 209–214
Sun Tzu, 45–48
denial, deception, 46
evidence assessment, 47
intelligence collection, 45–48
leadership analysis, 47
projections, making, 46
risk, threat analysis, 46–47
uncertainty, 46
Surface to air missiles (SAMs), 143–147
Surprise
adversary perspective analysis, 20–22
Caesar’s campaigns in Gaul, 41
indicators (See indicators)
overview, 4–5
reduction, approaches to, 18–22
risk, threat analysis (See risk, threat analysis)
scenarios quadrant, 24, 26
Spanish Armada (See Spanish Armada)
stoplight matrix, 20
Washington, 57–58
SWOT matrix, 13, 14
Technology
Allied bombers, targets for, 99–104
assessment of, 75–76
Great Britain, 72
Luftwaffe, 74
Pearl Harbor, 95
V-weapon, 105–111
Terrorism
anthrax, 234, 259–263
Aum Shinrikyo, 233–237
Pan Am Flight 103, 229–230
September 11, 2001 attacks, 251–258
Tet offensive, 150
Timelines (chronologies), 9–10, 11, 226, 231
Timoshenko, Semyon, 84, 85
Treaty of Versailles, 65–66, 69
Truman, Harry, 117, 123, 126
Turner, Stansfield, 185–186
TWA Flight 800, 230–231
Ultra (Enigma), 81–82
Uncertainty
assumption checking in, 17
Caesar’s campaigns in Gaul, 39–44
competing hypotheses (See competing hypotheses)
context, providing, 9–10, 11
Cuban missile crisis, 142, 143–147
data collection, 16–17
event flow charts, 12, 13, 226
flow, process approaches, 12
matrices (See matrices)
models (generalizations) of activity, 10–12
overview, 3–4
reduction, approaches to, 9–18
Shah, fall of, 183–188
Soviet Union collapse, 167–172
Sun Tzu, 46
value chain analysis, 12–13
United Self-Defense Forces of Colombia (Autodefensas Unidas de Colombia (AUC)), 241
U.S. Army Air Force (USAAF), 100
Value chain analysis, 12–13
Vance, Cyrus, 185–186
Venona, 116, 117–118
Vercingetorix, 43
Vietnam War, 148, 149–153
drivers, 149
information, multiple sources, 149
intelligence collection, 148–153
irregular forces, estimation of, 151
mirror imaging, 152–153
political cherry-picking, 151–152
rural pacification program, 150
search and destroy missions, 150
V-weapon, 102–103, 105–111
denial, deception, 108
drivers, 107, 108–109
espionage, 107
information, multiple sources, 105, 107–108
risk, threat analysis, 105–111
technology, 105–111
VX gas, 235
Walsingham, Francis, 49–53
Warsaw Pact, 157
Washington, George, 55–59
Weapons of mass destruction (WMDs)
anthrax, 234, 259–263
Aum Shinrikyo, 233–237
Iraq, 201–206
Soviet strategic weapons, 137–141
Westmoreland, William, 152
“What if?” analysis, 23–24
Wilson, Woodrow, 63–66
Wiretaps, 226, 241–242
Yom Kippur War, 173–181
drivers, 175, 177
espionage, 176–177
indicators, 177, 178
political cherry-picking, 176–177
rational actor model, 178–179
Zeira, Eli, 173–181
Zhou Enlai, 125, 126
Zhukov, Georgy, 84, 85