CORAL - THE NEXT TWIST OF FATE

World history is the greatest story ever told. It starts with the gods and ends here and now, with us. We all want to know what happens next. Looking back we see a rich tapestry of good and bad actors – Buddhists, Jews, Christians, Muslims, Communists, Nazis, and the heroes of Apollo. It is truly a tale of triumphs and tragedies.

Spiral dynamics is a color scheme for understanding history by tracing the evolution of complexity from humble origins. How we rose from surviving as naked apes to living as smart nodes in a globalized ecosystem is a story well worth telling in color. The tale has an amazing twist in the next chapter – the coral step in the spiral.

J. Andrew Ross is a writer and philosopher based in Germany. He blogs at www.andyross.net

Andy Ross thinks, and thinks for himself.

Ted Honderich


HISTORY

ROVER

A ROVER BOOK
Notes

Most readers should skip these notes. They may be of use to historians, who can also go to my blog for more. Readers who just want the facts can easily find most of them online. We have tools in Google and Wikipedia that make writing a book like this an order of magnitude easier than it was a generation ago, and I have used them freely to speed up my work. Still, over the years I have read many more relevant books than I can cite here.

Who, What, Why


Genesis

18. On spiral dynamics, see (Graves 2005, Küstenmacher 2010) and the relevant parts of (Wilber 2000).
19. For an old Jewish attempt to find the meaning of life, see (Berg 2003). For a new Christian attempt, see (Warren 2002).

Gaia

21. For a heavy but intriguing review of the anthropic principle, see (Barrow 1986).
22. On our early ape heritage, see (Diamond 1991).
25. On Ötzi the Iceman, see the entry in Wikipedia.
28. The story of Egypt here reflects multiple online sources.
29. The Einstein quote, translated, forms the title of (Pais 1982).
30. On psychophysics, see the relevant essays in (Ross 2009).
   On how the Answer came to be 42, see (Adams 1979).
34. On Gaia and global mind, see (Lovelock 1979, Bloom 2000).
Gods

35. On the axial age, see (Jaspers 1949). On a conjectured origin of consciousness, see (Jaynes 1976). On both, see (McGilchrist 2010).
36. On India and its religions, see (Wood 2007).
38. On the young Buddha, see (Hesse 1922, Rooks 1972).
40. On the emperor Ashoka, see (Sivan 2001).
41. On classical Greece and Rome, see (Hornblower 1998).
   On Greek science, see (Ronan 1983).
44. On Alexander the Great, see (Stone 2004).
46. On everyday life in ancient Rome, see (Heller 2006).
48. For a taste of stoic philosophy, see (Aurelius 2006).
50. On the ancient world of the Bible, see (Coogan 1998). On Moses, see (Freud 1937).
52. On Zoroaster or Zarathustra, see (Nietzsche 1887). On Nietzsche, see (Safranski 2000).

Christians

55. On the canonical gospels, see (Sanders 1993, Ehrman 2009).
56. On New Testament scholarship, see (Schweitzer 1906), for which the full text of the translation by W. Montgomery is available online.
57. On Qumran, see (Golb 1995, Thiering 2006).
60. For the apocryphal gospels, see (Ehrman 2005).
64. For personal views of the mystic Jesus, see (Gibran 1928, Harvey 1998).
   On Jesus’ possible travels in India, both before and after the crucifixion, see (Kersten 2001).
65. The Tibet story is related in (Notovitch 2004).
66. For an extremely traditional view of Jesus, see (Ratzinger 2007, 2011).
69. For the story of Bede Griffiths, see (Griffiths 1954, Boulay 1998).
72. Tolstoy’s gospel is (Tolstoy 1896).
86. For the acts of Thomas, see (Ehrman 2005).
87. For the story of Yuz Asaf, see (Kersten 2001).
89. On Caligula, see (Guccione 1979).

Muslims

94. For translations of Augustine’s words, see (Augustine 1963, 1972).
95. On Einstein and Gödel on time, see (Yourgrau 2005).
97. On Muhammad, see (Armstrong 2006).
99. For the “six pillars” and on Sufism, see (Shah 1968).
NOTES

100. On the militant side of Islam, see (Armstrong 2000).
101. On Islamic science, see (Ronan 1983).
108. The El-Arabi verse is from (Shah 1968).
109. On the crusades and the wider picture, see (Lewis 2003). On Mongols, see (Bodrov 2007).
119. For an appreciation of Rumi’s poetry, see (Harvey 1994). The Rumi verse is from (Shah 1968).

Scientists

121. On the story of the rise of modern science from Galileo to Einstein, see (Boorstin 1983, Ronan 1983).
123. On Galileo’s astronomy, see (Galilei 1610).
126. On the story from Copernicus to Newton, but especially on the roles of Brahe and Kepler, see (Koestler 1959).
127. On Luther, see (Till 2003). On Protestantism, see (Lilla 2007).
129. The source for Newton’s cosmology is (Newton 1683).
132. The Feynman quote is from (Feynman 1963).
136. Darwin’s ideas are well glossed in (Dennett 1995).
139. On Otto, Diesel, and other German scientists and engineers, see (Watson 2010).
142. On entropy and information, see (Baeyer 2003, Lloyd 2005).
143. The Feynman quote is from (Feynman 1963).
145. On the role of disease in the colonization of America, see (Diamond 1997).
146. For a wide view of the expansion of European civilization, see (Kennedy 1988). On the founding of the United States of America, see (Ferguson 2004).

Communists

147. On the glories of the British Empire, see (Ferguson 2003).
148. On Marx the man, see (Wheen 1999). Engels’ classic report is (Engels 1845).
149. Kant’s classic is (Kant 1781). On Kant, see (Scruton 2001). Hegel’s classic is (Hegel 1807). On Hegel, see (Taylor 1977).
151. For Marxist economic theory, see (Marx 1867).
154. On the Potemkin mutiny, see (Eisenstein 1925).
155. Lenin’s atrocious book on materialism is (Lenin 1909).
157. The Reed quotes are from (Reed 1919). On Reed’s coverage of the revolution, see (Beatty 1981).
160. The Russell quote is from (Russell 1920). On the Great War, see (Keegan 1998).
161. On the Second Reich, see (Mann 1958).
165. On the British role in the Arab revolt, see (Lawrence 1926, Lean 1962).
168. The Churchill quotation from (Churchill 1948).

**Holocaust**

169. On Hitler’s war, see (Ferguson 2006, Burleigh 2010). On Churchill as warlord, see (Deighton 1993, 2010; Corrigan 2006; D’Este 2009).
171. The Heck quote is from (Heck 1985).
172. The original Spengler book is (Spengler 1918).
173. The manifesto Hitler dictated is (Hitler 1923).
174. On Churchill’s life, there are so many sources it seems random to give only a few, but see (Manchester 1983, Jenkins 2001, Hastings 2009).
178. The translations of Heidegger’s words are from Wikipedia.
   On Heidegger and his philosophy, see (Heidegger 1993, Safranski 1994).
179. On life in the Third Reich, see (Burleigh 2000).
183. This and other Churchill quotes are from (Churchill 2004).
184. On the Battle of Britain, see (Churchill 2004).
185. On the personal friendship between Winston and Franklin, see (Meacham 2003).
189. On Turing, see (Hodges 1983). On Enigma, see (Bauer 2000).
194. On the Allied bombing campaign, see (Grayling 2006). On the Lancaster, see (Iveson 2009).
198. On Operation Valkyrie, see (Singer 2008).
201. A badly outdated history of the bombing of Dresden is (Irving 1963).
   The Churchill quote is from the UK National Archives, accessed via Google. On Auschwitz, see (Rees 2005).
202. On the Holocaust (Shoah), see (Gilbert 1986, Spielberg 1993).
204. On the last days in the bunker, see (Hirschbiegel 2004).
205. Churchill’s classic history of the war is (Churchill 1948).
   On its composition, see (Reynolds 2004).
206. For Nietzsche’s ideas, see (Nietzsche 1887). For Darwin’s ideas, see (Darwin 1859).
207. A bold attempt to reconstruct Hitler’s view of the war is (Irving 1977).
   A good Judeo-centric view of history is (Dimont 2004). For a lighter view of Jews, read (Goldstein 2010).
210. Feynman’s role at Los Alamos is well covered in (Gleick 1992). The Oppenheimer story is told in the context of physics in (Pais 1986).
NOTES

Globorg

213. On Gandhi, see (Duncan 1971, Attenborough 1982).
217. The Einstein quote is translated from a letter now archived at the Hebrew University of Jerusalem (and accessible online).
219. The Teller-Ulam design for an H-bomb appears in Wikipedia.
230. Numerous mutually reinforcing online sources together provide the story of the development of information technology.
233. On the physics of the big, the small, and the complex, see (Davies 1989). On the history of work at the LHC, see (Close 1987).
234. The Feynman quote is from (Feynman 1985). For a magisterial review of deep physical theory, see (Penrose 2004).
236. The story of globalization and technology is from (Ross 2010).
240. On life, see (Schrödinger 1944). On DNA, see (Watson 1968).
241. On genes, see (Dawkins 1976, 1982).
244. On the interdependence of all life, see (Wilson 1992).
246. By and on Descartes, see (Descartes 1637, Williams 1978). For a personal view of the wider history of philosophy, see (Russell 1946).
251. The literature on consciousness is vast, but try starting with (McGinn 1999; Chalmers 2002, 2010).

Revelation

255. On Iran, see (Baer 2008).
257. On Arab activist psychology, see (Atran 2010).
258. On China, see (Clayre 1984, Bertolucci 1987).
259. For a scientific biography of Einstein, see (Pais 1982).
262. On gravity and spacetime, see Wheeler 1999). On how to know God, see (Chopra 2000).
263. The ego bubble idea was inspired in part by the string of beads image for worlds of consciousness in (James 1902); see (Ross 2009). On the glass bead game, see (Hesse 1943).


265. Weininger’s book is (Weininger 1903). Frege’s great masterpiece is (Frege 1893, 1903). Russell’s book is (Russell 1903).

266. Tolstoy’s personal gloss on the gospel story is (Tolstoy 1896). Dostoyevsky’s novel is (Dostoyevsky 1880). Wittgenstein’s first book and doctoral thesis is (Wittgenstein 1922).

269 Malcolm is quoted in (Monk 1990).

270. The first Kripke quote is from (Kripke 1982). The second is from (Kripke 2006).

271. Wallace’s *Bildungsroman* is (Wallace 1987). On Wallace on Markson’s novel, see the introduction to (Wallace 2010). Wallace’s review of the novel is in (Wallace 2012).

272. Wallace’s book on mathematical logic is (Wallace 2003). The quoted review is (Rucker 2004); Rucker’s book on the topic is (Rucker 1982). For Wilber’s ideas, see (Wilber 2000) and check his online presence.


274. On scientific methodology, see (Popper 1963).

275. On academic bullshit, see (Frankfurt 2005).

277. Borg drones are fictional beings from the future world of Star Trek.

280. On futurology, see (Kurzweil 2005).

One could add a lot more scholarly detail or commentary. If the response to this book is big enough, I may post further notes online, at:

www.andyross.net/coral_notes.htm
References

Atran, Scott (2010): Talking to the Enemy. Allen Lane
Attenborough, David (2009): Charles Darwin and the Tree of Life. BBC
   Penguin
Baer, Robert (2008): The Devil We Know. Three Rivers
   Oxford UP
Bronowski, Jacob (1973): The Ascent of Man. BBC
Burleigh, Michael (2000): The Third Reich. Macmillan
Carroll, Sean (2010): From Eternity to Here. Dutton

287
Chopra, Deepak (2000): How to Know God. Harmony
Close, Frank; Marten, Michael; Sutton, Christine (1987): The Particle Explosion. Oxford UP
Darwin, Charles (1859): The Origin of Species. John Murray
Descartes, René (1637): Discours de la Méthode. French
Diamond, Jared (1991): The Rise and Fall of the Third Chimpanzee. Radius
Diamond, Jared (1997): Guns, Germs and Steel. Cape
Dostoyevsky, Fyodor (1880): The Brothers Karamazov. Trans. Gutenberg
Dummett, Michael (1973): Frege: Philosophy of Language. Duckworth
Duncan, Ronald, ed. (1971): The Writings of Gandhi. Fontana
Eisenstein, Sergei, dir. (1925): Battleship Potemkin. Goskino
Engels, Friedrich (1845): Die Lage der arbeitenden Klasse in England. German
Ferguson, Niall (2003): Empire. Allen Lane
Ferguson, Niall (2004): Colossus. Allen Lane
REFERENCES

Freud, Sigmund (1937): *Der Mann Moses und die monotheistische Religion*. German
Galilei, Galileo (1610): *Sidereus Nuncius*. Latin
Gibran, Kahlil (1928): Jesus. Knopf
Gilbert, Martin (1986): The Holocaust. Collins
Goldstein, Rebecca (2005): Incompleteness. Norton
Graves, Clare W. (2005): The Never Ending Quest. ECLET
Greene, Brian (2004): The Fabric of the Universe. Knopf
Haffner, Sebastian (1978): *Anmerkungen zu Hitler*. German
Harris, Sam (2004): The End of Faith. Norton
Harvey, Andrew (1994): The Way of Passion. Frog
Harvey, Andrew (1998): Son of Man. Putnam
Hegel, G. W. F. (1807): *Phänomenologie des Geistes*. German
Hesse, Hermann (1922): *Siddharta*. German
Hesse, Hermann (1943): *Das Glasperlenspiel*. German
Hirschbiegel, Oliver, dir. (2004): *Der Untergang*. German. NDR/WDR
Hitler, Adolf (1923): *Mein Kampf*. German, 2 vols. NSDAP
Hodges, Andrew (1983): Alan Turing. Hutchinson
Hofstadter, Douglas (2007): I Am a Strange Loop. Basic
Holland, James (2010): The Battle of Britain. Bantam
Howard, Ron; Grazier, Brian; Hanks, Tom (1998): From the Earth to the Moon. HBO
Irving, David (1977): Hitler’s War. Viking
Iveson, Tony; Brian Milton (2009): Lancaster. Deutsch
    Dover
James, William (1902): The Varieties of Religious Experience. Longmans
Jones, Steve (1999): Almost Like a Whale. Doubleday
Kant, Immanuel (1781): Kritik der reinen Vernunft. German
Kershaw, Ian (2008): Hitler. Allen Lane
Kersten, Holger (2001): Jesus Lived in India. Penguin
    Blackwell
Kripke, Saul A. (2006): The First Person. CUNY
Kuhn, Thomas S. (1962): The Structure of Scientific Revolutions.
    Chicago UP
Kurzweil, Ray (2005): The Singularity Is Near. Duckworth
    German. Gütersloh
Lawrence, T. E. (1926): Seven Pillars of Wisdom. Doubleday
Lean, David, dir. (1962): Lawrence of Arabia. Columbia
    Collected Works, vol. 13
Lloyd, Seth (2005): Programming the Universe. Cape
Manchester, William (1983): The Last Lion. Michael Joseph
REFERENCES


Marx, Karl (1867): *Das Kapital*. German

McGilchrist, Iain (2010): The Master and His Emissary. Yale UP


Meacham, Jon (2003): Franklin and Winston. Granta

Metzinger, Thomas (2009): The Ego Tunnel. Basic


Newton, Issac (1683): *Philosophiæ Naturalis Principia Mathematica*. Latin

Nietzsche, Friedrich (1887): *Also sprach Zarathustra*. German

Notovitch, Nicolas (2004): The Unknown Life of Jesus. Trans. Linden


Penrose, Roger (2004): The Road to Reality. Cape


Reed, John (1919): Ten Days that Shook the World. Boni & Liveright

Rees, Laurence. dir. (2005): Auschwitz. BBC

Reynolds, David (2004): In Command of History. Allen Lane


Ross, J. Andrew (2012): Philosopher. Rover


291
Sanders, E. P. (1993): The Historical Figure of Jesus. Allen Lane
Schweitzer, Albert (1906): Von Reimarus zu Wrede. German
Sivan, Santosh, dir. (2001): Asoka the Great. India
Stone, Oliver, dir. (2004): Alexander. Warner
Till, E., dir. (2003): Luther. Eikon
Tolle, Eckhart (1999): The Power of Now. New World
    Weidenfeld & Nicolson
Wallace, David Foster (2010): Fate, Time, and Language. Columbia UP
Wallace, David Foster (2012): Both Flesh and Not. Little, Brown
Weininger, Otto (1903): Geschlecht und Charakter. German
Williams, Bernard (1978): Descartes. Harvester
Wittgenstein, Ludwig (1922): Tractatus Logico-Philosophicus.
    German original. 1998 ed. Suhrkamp
Wood, Michael (2007): The Story of India. BBC
Index

Abbasid caliphate 101
Abraham ben Moses ben Maimon 108
Abraham, patriarch 50, 97
Abu Bakr, caliph 99, 104
Academy, Athens 42
Adam and Eve 23, 95
Adams, Douglas 30, 275
Agrippa, ruler 90
Ahura Mazda 52
Akbar the Great 113
Akhenaten, pharaoh 50
Aksumite empire 93
Al-Bukhari, Muhammad 99
Aldrin, Buzz 225
Alexander the Great 28, 44, 52
Alexandria 40, 53, 61
Al-Hallaj, Mansur 108, 264
Ali, caliph 99, 104, 118
Al-Khwarizmi, mathematician 101
Allah 17, 97, 117, 120, 253
Allen, Paul 231
Amman Message on Islam 120
Apollo Project 224
Apollo, son of Zeus 47
Apple Corporation 232
Arab Spring 257
Archean era 13
Aristotle, philosopher 43-44, 122, 125, 133, 246
Armstrong, Neil 225, 226
Arpanet 226, 230
Ashoka, emperor 40, 61
Atatürk, Kemal 119
Atlee, Clement 205
Augustine of Hippo 93-95, 125, 207
Augustus Caesar 45
Aurelius, Marcus 48
Auschwitz 202
Austro-Hungarian Empire 160
Ayyubid dynasty 109, 110
Babur, emperor 112
Baghdadi, Junayd 107
Bahya ibn Paquda (Bakuda) 108
Baldwin, Stanley 184
Ballistic missiles 227
Bastami, Bayazid 107
Battle of Berlin 196
Battle of Britain 184-185
Battle of the Bulge 200
Benz, Karl 140
Berlin airlift 217
Berlin wall 229
Berners-Lee, Tim 232
Big Bang 11, 21
Bismarck, battleship 186
Bismarck, Otto von 161
Blue Brain Project 235
Boggsie loop 253, 259, 261
Boltzmann, Ludwig 141
Booth, William 153
Bormann, Martin 173
Bormann, Martin 173
Brahe, Tycho 126
Braun, Eva 173, 204
Braun, Karl Ferdinand 143
Braun, Wernher von 199, 225
INDEX

Galilei, Galileo 44, 123-126, 129
Gallipoli, landing 165
Gandhi, Mohandas (Mahatma) 71, 213-217
Gates, Bill 231
Gaulle, Charles de 191
Gautama, Siddharta (Buddha) 35, 38-40, 62, 65, 71, 264
Genghis Khan 109-110
George VI, King 182
German Reich 161
Ghazan (Casanus) 110
Gladstone, William 152
Glenn, John 224
Gödel, Kurt 95, 248, 268, 272
Goebbels, Joseph 191, 192
Goering, Hermann 177, 184, 191
Google Corporation 232
Gorbachev, Mikhail 228, 229
Great Chain of Being 133, 136
Griffiths, Bede 69-70, 86
Groves, Leslie 210
Gundaphares, King 87
Gutenberg, Johannes 123
Haeckel, Ernst 161
Halifax, Lord 182, 216
Harris, Arthur 195, 196
Harris, Sam 9, 273
Harvey, Andrew 119, 273
Hastings, Max 201
Hawking, Stephen 129
Hayya Al-Sindhi, Mohammad 117
H-bomb 219
Heck, Alfons 171
Hegel, G. W. F. 148-149, 247, 253
Heidegger, Martin 178-179, 202
Heisenberg, Werner 212

Henry VIII, King 128
Herod Antipas 76
Herod the Great 54, 61
Hertz, Heinrich 143
Hess, Rudolf 173
Hesse, Hermann 263
Heydrich, Reinhard 188
Hillel, Rabbi 73
Himmler, Heinrich 188
Hindenburg, Paul von 177
Hiroshima, bombing 210, 211
Hitchens, Christopher 9
Hitler, Adolf 169-173, 177-182, 185-188, 193, 195, 198, 203-208, 216, 264, 269
HMS Beagle 134
HMS Dreadnought 144
Ho Chi Minh 220, 223
Holy Roman Empire 116, 121, 161
Homerite kingdom 95, 96
House of Wisdom 101, 102
House of Worship 113
Hulagu Khan 110
Human Brain Project 235
Human Genome Project 234
Hussein, Saddam 255-257
Hussein, Shia martyr 104, 118
Husserl, Edmund 178
IBM Corporation 230
Indian holy men 36
Intel Corporation 231
Iron Curtain 205, 217
Ismay, Hastings 190
Israel 213, 222, 255, 257
Jahan, Shah 113
Jainism 38
James, William 249
Jan III, King of Poland 116
Jaspers, Karl 35
Jaynes, Julian 35
INDEX

Moses, prophet 50-52, 97
Muawiyah, caliph 100, 104
Mughal Empire 113
Muhammad, the Prophet 87, 97, 106, 239
Mussolini, Benito 173, 180, 185, 194
Nag Hammadi 60
Nagasaki, bombing 210, 212
Nagel, Thomas 252
Napoleon, emperor 149
Nasir-ud-Din, Syed 88
National Aeronautics and Space Administration 224, 226
National Socialist German Workers Party 171
Neanderthal men 23
Nero Caesar 90
Neumann, John von 210, 230
Newton, Isaac 44, 128-130, 238
Nicodemus, friend of Jesus 78, 83
Nietzsche, Friedrich 178, 206
Nixon, Richard 222
Notovitch, Nicolas 65-66
Nuremberg laws 180
October Revolution 157, 166
Ohain, Hans von 198
OPEC cartel 222, 255
Operation Barbarossa 186
Operation Gomorrah 195
Operation Overlord 197
Operation Valkyrie 198
Oppenheimer, J. Robert 210, 211
Origen, historian 55
Otto, Nikolaus 139
Ottoman Empire 105, 114-116, 165
Ötzi the Iceman 25-26
Page, Larry 232
Palmerston, Lord 152
Parsons, Charles 143
Parthenon 45
Paulus, Friedrich 192
Pearl Harbor 188, 208
Pilate, Pontius 76, 79
Planck, Max 212
Plato, philosopher 41-44, 122, 133, 246
Plotinus, philosopher 49, 94
Pompey, general 54
Popper, Karl 274
Prophet’s daughter Fatimah 104, 118
Prophet’s uncle Abbas 100
Prophet’s wife Aisha 98
Ptolemaic cosmology 122
Ptolemy, cosmologist 47
Pythagoras of Samos 35, 41
Qumran 57-64, 66-67, 70, 90
Quran 87, 98, 106, 117
Rashidun caliphate 99
Reagan, Ronald 228-229
Reed, John 157, 158
Ricardo, David 150
Roman Empire 45-49, 91-92, 217
Rommel, Erwin 186, 190
Roosevelt, Franklin D. 185, 188, 193, 197, 201, 204
Roxelana, wife of Suleiman 115
Rumi, poet 105, 118
Russell, Bertrand 160, 247, 265-266, 269
Russo-Japanese war 154
Saladin, son of Ayyub 109
Salafists 117, 118
Salvation Army 153
Saturn rocket 225
Saud, Muhammad ibn 118
Saul of Tarsus (apostle Paul) 55, 84-86, 89, 274
Schrödinger, Erwin 212, 240
Schweitzer, Albert 56-57, 74
Selim the Sot 115
Shah, Idries 99, 103, 119
Shams Tabrizi 119
Sidney Street siege 175
Simon Peter, disciple 83
Smith, Adam 150
Socrates, philosopher 41-42
Solipsism 264, 268, 270-273
Space Shuttle 226, 228
Speer, Albert 203
Spengler, Oswald 172
Spinoza, Baruch 238
Stalin, Joseph 155, 157, 158, 166-168, 187, 191, 197, 201, 205, 206, 211, 218
Stalingrad 167
Stalingrad, battle 192
Stauffenberg, Claus Schenk Graf von 198
Stephenson, Robert 138
Stonehenge 26
Stratofortress, bomber 221
Suleiman the Magnificent 114, 115
Superfortress, bomber 209, 210, 211, 218
Taj Mahal 113
Tarmashirin Khan 110
Teller, Edward 219
Theodosius the Great 92
Thomas, disciple 86, 87
Tiberius Caesar 89
Tiger tank 193
Timur (Tamerlane) 111-112
Titus, son of Vespasian 90
Toba supervolcano 24
Tolle, Eckhart 273
Tolstoy, Leo 72, 267
Treaty of Versailles 165
Trotsky, Leon 158, 159, 166, 167
Truman, Harry 204, 211, 218
Turing machine 248-249
Turing, Alan 189-190, 248-249, 268
Umar, caliph 99
Umayyad dynasty 100
Union of Soviet Socialist Republics 159, 220, 229
United Nations 213
United States of America 49, 146, 163, 166, 188, 208, 220, 258
Universal Sufism 118
Urban VIII, Pope 125
Uthman, caliph 99
Vatican 82
VE Day 204
Venus 12, 46, 124
Vespasian Caesar 90
Victoria, Queen 144, 147, 152, 161
Vietnam war 220
VJ Day 210
V-weapons 198, 200
Wagner, Richard 172
Wagner, Siegfried 172
Wagner, Winifred 172, 173
Wahhab, Muhammad ibn Abd al 117
Walad, son of Rumi 119
Wallace, David Foster 270
Wannsee conference 188
Watson, James 240
Watson, Thomas J., Sr. 230
Watt, James 138
Webb, Beatrice 153, 155
Webb, Sidney 153, 155
INDEX

Weimar Republic 165, 172, 177
Weininger, Otto 265
Westmoreland, William 221
Whitehead, Alfred North 247
Whittle, Frank 198
Wilber, Ken 272-273
Wilhelm I, Kaiser 161
Wilhelm II, Kaiser 161, 163
Wilson, Woodrow 162, 164
Wittgenstein, Karl 264
Wittgenstein, Ludwig 264-271
World Trade Center 256
World Wide Web 232
Wozniak, Steve 232
Wright, Orville 144
Wright, Wilbur 144
Yahweh 8, 17, 28, 35, 49, 50, 51, 74
Yamato, battleship 209
Yom Kippur War 222
Yuz Asaf 87, 88
Zedong, Mao 218, 258
Zeppelin airships 165
Zimmerwald conference 156
Zoroaster (Zarathustra) 35, 52, 206