

## INDEX

Years of birth and death given for most people who figure in *The Taming of Chance*.

- abduction, 8  
 Achenwall, Gottfried (1719–72), 24f, 31, 194  
 Ackernecht, F. H., 228  
 Agriculture, Board of, 26–8  
 Albert, prince-consort (1819–61), 113, 115, 128  
 Albrecht, Hans, 175, 247  
 Alembert, Jean le Rond d' (1717–83), 164f  
 Altenstein, K. S. F., Freiherr von Stein zum (1770–1840), 31f  
 Angeville, Adolphe, comte d' (1796–1856), 115–17, 235  
 anomie, 64, 68, 171  
*Anthropologie*, 131  
 anthropology, criminal, xi, 144, 155, 174–7; Congresses of, 155, 175, 185; 'bibliography' of, 247f  
 anthropometry, 174, 180–2, 198  
 antisemitism, xi, 18, 189–98  
 Aquinas, Thomas, 12, 65  
 Arago, Dominique-François-Jean (1786–1853), 87, 101, 229  
 Arbuthnot, John (1667–1735), 21, 40  
 Aristotle, 163f; 12, 160, 244  
 Arrow, Kenneth, 222; Arrow's paradox, 42  
 Augustine of Hippo, 65  
 Austin, J. L., 150f  
 average man, *homme type*, 105, 107f, 163, 178; averages, 116; Bernard's opposition to, 145; Neumann's opposition to, 191f  
 Babbage, Charles (1792–1871), viii, 52, 55–63, 194, 200, 224  
 Bacon, Francis (1561–1626), 127  
 Baconian science, 5, 61–3  
 Baer, Abraham Adolf (1834–1908), 175, 247  
 Baker, K. M., 220–2  
 Balbi, Adriano (1782–1848), 227, 235  
 Baldwin, Thomas, 243  
 Balzac, Honoré de (1799–1850), 82f, 133, 142, 228, 239, 244  
 Bardèche, M., 133f, 239  
 Bayes, Thomas (1702–61), 42; spelled 'Blayes', 96, 231; Bayesian inference, 89, 96  
 Bayle, Pierre (1647–1706), 154  
 Behre, Otto, 218f  
 Belhomme, Jacques-Etienne (1800–80), 228  
 Benedikt, Moritz (1835–1920), 175, 246f  
 Beneke, Friedrich Wilhelm (1824–82), 254  
 Benn, Alex, 252  
 Benoiston de Châteauneuf, Louis-François (1776–1856), 134  
 Bernard, Claude (1813–78), 71, 85, 242; against statistics, 142; use of *déterminisme*, 152  
 Bernoulli, Jacques (1654–1705), theorem of, 101–4; Bernoullian inference, 97f  
 Bernoulli, Johann (1710–90), 20, 25, 218  
 Bertillon, Alphonse (1853–1914), 182, 187, 249  
 Bertrand, Alexis (1850–1923), 241  
 Berzelius, Jöns Jacob (1779–1848), 57  
 Bessel, Friedrich Wilhelm (1784–1846), 253; law of large numbers, 104; probable error, 107; personal equation, 204  
 Bichat, Marie-François-Xavier (1771–1802), 14, 39, 70, 145, 218  
 Bienaymé, Irenée Jules (1796–1878), 95, 103f, 135, 231f  
 biopolitics, 21, 192  
 biostatistics, 194  
 births, statistics of, 15, ratios of 24f, 60, 77; illegitimate, 60; Jewish, 60, 195f  
 Bismarck, Otto Eduard Leopold, Prince von (1815–98), 143, 197  
 Bissett-Hawkins, F., 223  
 Blainville, Henri Ducrotay de (1770–1850), 245  
 Bleuler, Eugen (1857–1939), 175, 247  
 Boeckh, Richard (1824–1907), 196–8, 219f, 251  
 Boehlich, W., 250  
 Boltzmann, Ludwig Eduard (1844–1906), 8, 11, 36, 181  
 Bonfigli, Clodomiro (1838–1919), 175, 247  
 Boole, George (1815–64), 207f, 254  
 Borda, Jean-Charles de (1733–99), 42  
 Bos, H. J. M., 224  
 Boscherini, Giancotti, 243  
 Bosovich, Roger Joseph (1711–87), 254  
 Bourdin, Claude-Etienne, 70f, 226

- Bourguet, Marie-Noëlle, 222  
 Boussinesq, Joseph (1842–1929), 155  
 Boutroux, Emile (1845–1921), 157–9, 177, 214, 243  
 Bowditch, Henry P., 184  
 Boyle, Robert, (1627–91), 13; Boyle lectures, 21  
 Braithwaite, R. B., 258  
 Braunstein, J.-F., 222, 245  
 Bravais, Auguste (1811–63), 249  
 Brewster, Sir David (1781–1868), 55, 58f, 224  
 British Association for the Advancement of Science, 57–61, 77; Devonshire A.A.S., 104  
 Broca, Paul (1824–80), 174  
 Broussais, François-Joseph-Victor (1772–1838), ix, xi, 70, 81–4, 222, 226, 228, 244f; and Balzac, 82f, 133, 145; Broussais's principle, 160, 164–8, 175  
 Buckle, Henry Thomas (1821–62), x, 77, 123–32, 146, 237f, 241  
 Bulwer, Henry Lytton, Baron Dalling and Bulwer (1801–72), 77, 79, 227  
 Burke, Edmund (1729–97), 28  
 Burks, Arthur, 207, 254  
 Burrows, George Man (1771–1846), 64–72, 225f  
 Busching, Anton Friedrich (1724–93), 20, 23, 25  
 Butterfield, Sir Herbert, 61, 225  
 Cabanis, Pierre-Jean-George (1757–1808), 35, 43  
 Canguilhem, Georges, 145, 241, 244  
 Carnap, Rudolph, 237  
 Carus, Paul (1852–1919), 200, 252  
 Cassirer, Ernst (1874–1945), xi, 150–5, 242  
 Cato the Younger, 65  
 causes, medical kinds of, 68f; petty independent, 111–13, 177, 184f; cause/motive of suicide, 75; causality eliminated (Karl Pearson), 188  
 Cavendish, Henry (1731–1810), 55  
 Cazauvieilh, Jean-Baptiste (1801–49), 70, 226  
 census, 2; Pressian, 19f, 195, colonial, 17  
 Chaillou, F. H., 226  
 Chebyshev, Pafnuty Lvovich (1821–94), 104, 233  
 Cheyne, George (1671–1843), 225  
 Cheysson, Emile (1836–1910), 139, 240  
 cholera, 80, 84  
 chi-squared, 182  
 Civiale, Jean (1792–1867), 80, 85f, 229  
 Code pénale, 80, 87; article 351, 91f  
 Cohen, Hermann (1842–1918), 193, 250  
 Colajanni, Napoleone (1847–1921), 175, 247  
 Colbert, Jean-Baptiste (1616–83), 17  
 Coleman, William, 9, 85, 145, 217  
 Collins, Mortimer (1827–76), 248  
 Comte, Auguste (1798–1857), x, 5; historicism, 39, 78, 81, 241, 244f, 221f, 229; Le Play, 127; against probability theory, 143–5; normal state, 160, 162; Broussais, 160, 167f; Bernard, 153; Durkheim, 158f, 170; *see also* social physics, positivism  
 Condorcet, Antoine de Caritat, marquis de (1743–94); *Sketch of Progress*, 39, 42, 78; moral science, 38–40, 43f, 46, 88f, 170; on jury, ix, 42, 87–90, 96; and Laplace on probability, 42; Malthus, 22; Le Play, 137; K. Pearson on, 40, 188; death of, 42f; cited 220f, 228f  
 confidence limits, 98, 210  
 Conring, Hermann (1606–81), 23  
 constants, 55–63, 200, 214  
 Cooter, Roger, 236  
 correlation, 181, 187f  
 cost of living index, 140  
 Cournot, Antoine-Augustin (1801–77), 8, 12, 231f; on kinds of probability, 96, 126; on jury, 104; on confidence limits, 210  
 Courtenay, Thomas Peregrine (1782–1841), 59, 224  
 Cousin, Victor (1792–1867), 83f, 167  
 Cromaziono, Agotopisto (i.e. Appiano Buonafede, 1716–93), 65, 225  
 Crombie, A.C., 6, 216  
 Cromwell, Oliver (1599–1658), 28  
 Cruikshank, George (1792–1878), 236  
 Crystal Palace, 77, 115, 146  
 Cullen, Michael, 225  
 Cuvier, Georges, baron (1769–1832), 39  
 Dally, Eugène (1833–77), 175, 247  
 Daquin, Joseph (1732–1815), 227  
 Darwin, Charles (1809–82), 8, 107, 174  
 Daston, Lorraine, 9, 39, 88, 96, 139, 217, 221, 231  
 Daunou, Pierre-Claude-François (1761–1840), 35, 37, 43f, 167, 245  
 Dechambre, Amédée (1812–86), 242  
 degeneracy, French, 17; causes of, Le Play, 137, Durkheim, 172; in Upper Silesia, 192  
 Delboeuf, Joseph-Rémi-Léopold (1831–96), 153  
 Delessert, Benjamin, baron (1773–1847), 50  
 Deleuze, Gilles, 147, 241  
 De Moivre, Abraham (1667–1754), 12f, 103, 106, 217  
 De Morgan, Augustus (1806–71), 126f, 237  
 Deparcieux, Antoine (1703–68), 223  
 Derham, William (1657–1735), 219

- Descartes, René (1596–1650), 12, 56, 254  
 Desfontaines, René-Louiche (1750–1833), 65  
 Despine, Prosper (b. 1812), 175, 247  
 Desrosières, Alain, 216  
 determinism, 11–15, 114–16, 150–9;  
 erosion of, 1, 5, 9f, 147, 179; Hume, 13;  
 Laplace, 14, 150; Maxwell, 153, 155f;  
 Renouvier, 156f; Boutroux, 157f,  
 Durkheim, 158f; the word  
 ‘determinism’, 151–4; *see also* fatalism  
 Dewey, John (1869–1952), 200, 252  
 diallele, 213  
 Diard, Henri, 227  
 Dickens, Charles (1812–70), 61, 117–19,  
 143, 145  
 Diderot, Denis (1713–84), 165  
 Dieterici, Carl Friedrich Wilhelm  
 (1790–1859), 32f, 193, 250  
 Disraeli, Benjamin (1804–81), 143, 145  
 Dohna, F. F. Alexander, Graf zu  
 (1771–1832), 31–3  
 Donagan, Alan, 242  
 Donkin, Bryan (1768–1855), 53  
 Donne, John (1572–1631), 65  
 Dostoyevsky, Fyodor Mikhaylovich  
 (1821–88), x, 125, 146, 237, 241  
 Double, François Joseph (1776–1842), 228  
 Douglas, Mary, 219, 245  
 Dreyfus affair, 198  
 Drobisch, Moritz Wilhelm, 131  
 Du Bois-Reymond, Emil Heinrich  
 (1818–96), 150–4, 242  
 Du Pont de Nemours, Pierre Samuel  
 (1739–1817), 44  
 Ducpetiaux, Edouard (1804–68), 139  
 Dulong, Pierre-Louis (1785–1838), 228  
 Duméril, André-Marie Constant  
 (1774–1860), 134  
 Durkheim, Emile (1858–1917), xi, 64, 68,  
 132, 163, 243–8; and Boutroux, Comte  
 and Renouvier, 158f;  
 normal/pathological, 163, 170–3, 176–9;  
 compared to Galton, 170, 177–9; crime,  
 172–7  
 Duvillard de Durand, Emmanuel-Etienne  
 (1775–1832), 41, 44–6, 221f  
  
 East/West contrast, 36, 128  
 Eco, Umberto, 249  
 Edgeworth, Francis Ysidoro (1845–1926),  
 187  
*Edinburgh Medical Journal*, used by  
 Quetelet, 109–13  
 Eisele, Carolyn, 252  
 Eliot, George (1819–80), 194  
 Ellis, Robert Leslie (1817–59), 127, 237  
 Elster, Jon, 246  
 Eluard, Paul, 149  
 emergentism, 157, 178  
 Encke, Johann Franz (1791–1865), 204,  
 253  
 Engel, Ernst (1821–96), 32–4, 129, 132,  
 189f, 220, 238, 240f, 250f; household  
 budgets, 139–41; Engel’s law, 140f; and  
 Neumann, 195–8  
 Epicurus, 11, 203  
 errors, theory of 69, 110–14, 146, 184,  
 203–10, 253  
 Esquirol, Jean-Etienne-Dominique  
 (1772–1840), 64–7, 191, 225  
 Etoc-Demazy, Gustave-François  
 (1806–93), 70, 226  
 eugenics, 22, 120, 182f  
 Euler, Leonhard (1707–83), 93  
 explanation by statistics, 180f, 184–6  
 Eyster, John M., 223, 235  
  
*facilité*, 97, 208, 254  
 Falret, Jean-Pierre (1794–1870), 67–70, 76,  
 225  
 families, types of in Le Play, 137  
 Farr, William (1807–83), 53f, 84, 115,  
 118–21, 128, 132, 223, 239f  
 fatalism, statistical, 37, 114–31, 196;  
 Quetelet and French writers, 114–23;  
 Farr, 115, 118f; phrenology, 121–3;  
 Buckle, 123–7; Venn and English  
 writers, 126f; Knapp and German  
 writers, 125, 129–32; Dostoyevsky, 146;  
*see also* determinism  
 Fechner, Gustav Theodor (1801–87), 8,  
 250f, 253  
 Ferri, Enrico (1850–1929), 175, 246f  
 fiducial limits, 98  
 fiducial probability, 232  
 Finlaison, John (1783–1860), 8, 47–53, 222f  
 Fircks, G. von, 251  
 Fisher, Sir Ronald, 232, 255  
 Flavigny, countess, 77  
 Forrest, D. W., 249  
 Forster, Thomas Ignatius Maria  
 (1789–1860), 236  
 Foucault, Michel, 21f, 217, 219  
 Fouillée, Alfred (1838–1912), 153  
 Fourcroy, Antoine-François (1775–1809),  
 35  
 Fourier, Jean-Baptiste-Joseph (1768–1830),  
 97, 227, 232  
 Franksen, Ole Immanuel, 224  
 Frederick I (1657–1713), king of Prussia  
 1701–13, 19  
 Frederick II (the Great) (1712–86), king of  
 Prussia 1740–86, 22, 25, 29, 193  
 freedom of the will, 15, 116, 159; *see also*  
 fatalism  
 frequency theory of probability, 96f, 127,  
 200, 207f

- Friedrich Wilhelm I (1688–1740), king of Prussia, 1713–40, 19  
 Friedrich Wilhelm II (1744–97), king of Prussia 1786–97, 29, 32  
 Friedrich Wilhelm III (1770–1840), king of Prussia 1797–1840, 27  
 friendly societies, 48–51, 222  
 Fries, Jakob Friedrich, 127, 237  
 functional explanation, 171, 176–8, 245
- Galileo, Galilei (1574–1642), 5, 56  
 Gall, Franz-Joseph (1758–1828), 122, 152, 242  
 gallstone, 85f, 219  
 Galton, Sir Francis (1822–1911), xi, 2, 60, 119, 180–8, 216, 235, 248–50; explaining phenomena by statistical law, 184, 186; compared to Durkheim, 170, 177–9; and anthropometry, 180, 198  
 Garber, Daniel, 9, 217  
 Garnier, F., 221  
 Garofalo, Raffaele, 175, 247f  
 Gauss, Carl Friedrich (1777–1855): ‘Gauss-Laplace synthesis’, 106; *see also* theory of error  
 Gelfand, A. E., 95, 231  
 genealogy, 182f  
 Georget, Etienne-Jean (1795–1828), 69, 122, 226  
 Gergonne, Joseph Diez (1771–1859), 230  
 Géricault, Théodore (1791–1824), 69  
 Gibbs, Josiah Willard (1839–1903), 8, 11  
 Giddens, Anthony, 244  
 Gille, Bernard, 221  
 Gillispie, Charles Coulson, 217, 222  
 Ginzburg, Carlo, 249  
 Glatter, Eduard (1813–76), 251  
 Glenny, Mr, of the Royal Union, 50f  
 Godwin, William (1756–97), 22  
 Goethe, Johann Wolfgang von (1749–1832), 16, 18f, 25, 67, 150, 218  
 Goldstein, Jan, 225, 236  
 Gondinet, Pierre-Edmond-Julien (1828–88), 241  
 Good, I. J., 7, 211, 216, 255  
 goodness of fit, 113, 182  
 Göttingen statisticians, 24  
 Gouhier, Henri, 245  
 Gould, S. J., 183, 244  
 Gratry, Auguste-Joseph-Alphonse (1805–72), 206f, 254  
 Grattan-Guinness, I., 97, 277, 232  
 Graunt, John (1620–74), 16, 20, 66  
 Gravesande, Wilhelm Jacob s’ (1680–1742), 254  
 Gray, Ernest, 219  
 Great Exhibition, 33, 78, 115, 146  
 Grob, Gerald N., 218
- Guerry, André-Michel (1802–66), 8, 73–81, 104–6, 112, 131, 226, 235  
 Guibert, J., 233  
 Gumpowicz, Ludwig (1838–1909), 175, 247  
 Gurney, Edmund (1847–88), 254
- Haarlem, Academy of 43  
 Haeblerli, Laurent, 225  
 Hall, Roland, 242  
 Hamann, Johann Georg (1730–88), 197  
 Hamilton, Sir William, (1788–1836), 152, 242, 254  
 Hamm, Ernst Peter, 220  
 Hampshire, Sir Stuart, 244  
 Hardenburg, Karl von (1750–1822), 32  
 Harman, Gilbert, 207  
 Hartley, David (1705–57), 254  
 hat sizes, London and Edinburgh, 109  
 health care as a social responsibility, 191  
 Hegel, Georg Friedrich Wilhelm (1770–1831), 39  
 Heidelberger, Michael, 205, 253  
 Hempel, C. G., 249  
 Henry, Joseph (1797–1878), 59  
 Herbart, Johann Friedrich (1776–1803), 15, 197, 218  
 Herschel, Sir John (1792–1871), 58, 107, 126, 184, 207, 234, 249  
 Heyde, C. C., 103, 232  
 hidden variables, 181  
 Highland Society, 27, 50–3, 223  
 Hilgard, Julius Erasmus (1825–91), 185  
 Hiltz, Victor, 207, 249  
 Hobbes, Thomas (1858–1879), 36  
 Hoffmann, Johann Gottfried (1765–1847), 31–3, 59, 192  
 Holbach, Paul Heinrich Dietrich, baron d’ (1723–89), 154  
 holism, 36, 158, 191  
 Hollerith, Herman (1860–1927), 53  
 Holmes, Sherlock, 187  
 Holton, Gerald, 6  
 Hugo, Victor (1802–85), 120  
 human nature, xi, 161–3  
 Humboldt, Wilhelm, baron von (1767–1835),  
 Hume, David (1711–76), 13–15, 65, 122, 144, 148, 197, 200, 215, 216, 218, 251, 254, argument from design, 148  
 Hunter, Graeme, 243
- idéologues*, 38, 43, 46, 83  
 Institut de France, Institut national, 35, 43, 80, 229  
 insurance, health, 36; sickness, 47–50; unemployment, 36; Fourier 73, Duvillard de Durand, 44–6; English companies, 50–2; in Germany, 129f

- Jacob, Ludwig Heinrich (1759–1827), 30  
 Jacobs, Joseph (1854–1916), 198f, 249, 252  
 James, Henry (1843–1916), 206  
 James, William, (1842–1910), 153–5, 214, 243  
 Jarvis, Edward (1803–84), 218  
 Jastrow, Joseph (1863–1944), 205, 253  
 Jefferson, Thomas (1743–1826), 43  
 Jeffrey, R. C., 249  
 Jelgersma, Gerbrandus (1859–1942), 175, 247  
 Jencks, Christopher, 241  
 Jenner, Edward (1749–1823), 45  
 Jerwood, James (d. 1877), 233  
 Jews, statistics of 23, 189–99;  
   anthropometry of, 182, 198f;  
   immigration of, 189, 194–7  
 John, Vincenz (1838–1900), 219  
 Junkersfeld, M. Julienne, 217  
 juries, 87–104; Scottish, 89, English, 89f,  
   for brigands, 90–2; revolutionary  
   tribunals, 103  
 Kant, Immanuel (1724–1804), 12, 15, 18,  
   30, 217f, 220, 242, 254; *determinismus*,  
   151  
 Kelvin, William Thomson, Baron  
   (1824–1907), 60, 211, 224  
 Keverberg de Kessel, Charles Louis  
   Guillaume, baron de (1768–1841), 238  
 Kevles, Daniel, 120, 183, 236  
 Keynes, John Maynard, 237  
 Kieffer, Bruce, 219  
 Kirn, Ludwig, 175, 247  
 Knapp, Georg Friedrich (1842–1926), 125,  
   131f, 178, 237, 239  
 Knies, Carl Gustav Adolf (1821–98), 25,  
   218  
 Knyveton, John (1729–1809), 219  
 Kries, Johannes von (1853–1928), 237  
 Krug, Leopold (1770–1843), 29–33, 220  
 Krüger, Lorenz, xiii, 9  
 Kruskal, William H., 216  
 Kuhn, T. S., 5, 60f, 81, 216, on  
   measurement, 224f  
 Kurella, Hans (1858–1916), 246  
 Labiche, Eugène (1815–88), 142, 241  
 La Bissachère, Pierre Jacques Lemmonier  
   de (1764–1830), 80, 227  
 Lacassagne, Alexandre (1843–1924), 175,  
   247  
 Lacroix, Silvestre (1765–1843), 80, 91,  
   227  
 Lafayette, marquis de (1757–1834), 44  
 Lagrange, Joseph-Louis, comte de  
   (1736–1813), 42, 254  
 Lakanal, Joseph (1762–1845), 162  
 Lakatos, Imre, 6  
 Lambert, Johann Heinrich (1728–77), 40,  
   221  
 Lamennais, Félicité de (1782–1854), 167  
 Lammetrie, Julien Offray de (1709–51),  
   154, 243  
 Laplace, Pierre-Simon, marquis de  
   (1749–1827), determinism of, 11–14, 123,  
   150–4, 188; on jury, 87f, 91–4, 100;  
   criticized by Poisson, 95, 99; subjective  
   approach and *facilité*, 96f, 208;  
   confidence limits, 210; proportions of  
   birth, 59; cited, 217f, 227, 229f, 232, 234,  
   254  
 Larrey, Dominique-Jean, baron  
   (1766–1842), 228  
 Lasker, Eduard (1829–84), 193  
 Laudan, Larry, 255  
 Lavoisier, Antoine Laurent (1743–94), 35  
 law of large numbers, 85, 98–104, 156  
 law of mortality, Lambert's, 221  
 laws, as opposed to rules and regularities,  
   128–32, 153  
 Lecuyer, B.-P., 249  
 leeching, 82f  
 Lehmann, E. L., 210, 255  
 Leibniz, Gottfried Wilhelm (1646–1716), 9,  
   18f, 123, 139, 154, 217, 243, 254  
 Léonard, J., 228  
 Le Play, Frédéric (1806–82), x, 8f, 133–41,  
   145, 239f  
 Lesage, G. L. (1724–1803), 254  
 Leuret, François (1797–1851), 71, 226  
 Lewis, W. Bevan (1847–1929), 175, 247  
 Lewontin, R. C., 244  
 Lexis, Wilhelm (1837–1914), 113, 210, 235,  
   237  
 Le Yaouanc, M., 239  
 Lisle, Pierre-Egiste, 71, 78, 136, 226f  
 Liszt, Franz von (1851–1919), 175, 247  
 Locke, John (1632–1704), 13, 28  
 Loening, Hermann, 219  
 Lombroso, Cesare (1836–1909), 155,  
   174–6, 246–8  
 London, Bills of Mortality, 16, 66  
 Loria, Achille (1857–1943), 175, 247  
 Lorry, Anne-Charles (1726–1873), 67, 225  
 Lottin, Joseph, 121, 221, 227  
 Louis, Pierre-Charles-Alexandre,  
   (1787–1872), 84f, 228  
 Lucretius, 11  
 Lukes, Steven, 245f  
 Lyell, Sir Charles (1797–1875), 58  
 Macaulay, Thomas Babbington (1800–59),  
   244  
 MacKenzie, Donald, 9, 183, 187, 217, 249f  
 MacQuat, Gordon, 250  
 Magendie, François (1783–1855), 84, 228  
 Maistrov, L. E., 230

- Mallarmé, Stéphane (1842–98), 10, 217, 241, 256  
 Malthus, Thomas Robert (1766–1834), 8, 22, 43, 193  
 Manchester school, 129f, 190, 193  
 Marr, Wilhelm (b. 1819), 193  
 Marro, Antonio (d. 1913), 175, 247  
 Martin, Edouard (1828–66), 142, 241  
 Marx, Karl (1818–83), 8, 39, 132  
 materialism, 82–5  
 Maudsley, Henry (1885–1918), 175, 247  
 Maxwell, James Clerk (1831–79), 8, 11, 36, 107, 123, 234, 237, 243; on determinism, 153–6  
 medicine as a social science, 191  
 Mehring, Franz (1846–1919), 130  
 Mendel, Gregor Johann (1822–84), 8  
 Mendelsohn, Moses (1729–86), 30  
 Merriman, Mansfield, 234  
 Merton, R. K., 224  
 midwifery, 119  
 Mill, James (1773–1836), 244  
 Mill, John Stuart (1806–73), 203, 254  
 Miquel, Antoine (1796–1829), 83f, 228  
 Mitchell, M., 223  
 Moleschott, J. (1822–93), 125  
 Mommsen, Theodor (1817–1903), 193  
 monomania, 64f  
 Montaigne, Michel de (1533–92), 65  
 Montesquieu (1689–1755), 65, 139  
 Montyon, Antoine-Jean-Baptiste-Robert-Auguet, baron de (1733–1820), 80; Montyon prize, 80; to Guerry, 76; to Civiale, 85, 229; to Le Play, 135f; to Lisle, 136  
 moral sciences, 35–46, 77, 88, 98, 104, 106, 112, 170; Academy of 43f; moral analysis, 78  
 Moreau, M., 236  
 Morselli, Enrico Agostino (1852–1929), 238  
 Mosteller, Frederick, 216  
 Myers, Frederick William Henry (1843–1901), 254  
 Napoleon Bonaparte (1769–1821), viii, 2, 16, 35, 43, 64, 92  
 Napoleon III (1808–73), Emperor of the French, 1852–70, 139f  
 National Debt, British, 47  
 Navier, C.-L.-M.-H. (1785–1836), 229  
 necessity, doctrine of, 11–15  
 Neumann, Salomon (1819–1908), 8, 189–98, 250; on public health, 190–3; on Jewish immigration, 193–8  
 Newton, Sir Isaac (1643–1727), 13, 36, 42, 46, 55f, 103, 254; Newtonians on statistical stability, 147  
 Neyman, Jerzy, 206, 210, 232, 255  
 Nietzsche, Friedrich (1844–1900), x, 3, 147–9, 241f  
 Nightingale, Florence (1820–1910), 8, 52  
 normal, xi, 82, 160–9; Broussais and Comte, 160, 164–8; Durkheim and Galton, 168f, 178f; normal school, 162; the word, 160–4, 249; in Balzac, 166  
 Normal law or curve, xi, 106–10, 180–6  
 nosology, nosometry, 53  
 Nossig, Alfred (1864–1943), 198, 252  
 Novalis (i.e. Friedrich Leopold von Hardenberg, 1772–1801), 147, 241  
 numerical method, 84  
 Nye, Robert A., 218  
 Oberschall, Anthony, 138f, 240  
 Oliphant, Charles, 50–2  
 Ostrogradsky, Mikhail Vasilevich (1801–62), 93f, 101, 230f  
 papal infallibility, 206  
 Paris and the Seine: *Recherches statistiques* 73f, 83  
 pathology, 64, 82–5; 160–9  
 Pearson, E. S., 206, 210, 232, 255  
 Pearson, Karl (1857–1936), 22, 39, 119, 141, 182, 187f, 221, 224, 243, 248, 250; on end of causality, 187f  
 Peirce, Benjamin (1809–80), 213, 256  
 Peirce, Benjamin Osgood (1854–1914), 210  
 Peirce, Charles Sanders (1839–1914), xi, 9, 11, 57, 200–15, 217, 248, 251–6; absolute chance, 200, 203f, 214f; as measurer, 202–4; psychophysics, 204–7; randomization, 205f; hypothesis, method of, 206f; induction, 206–13; statistical inference, 208–10; frequency theory of probability, 207f; subjective theory, log-odds, 211; charity, faith and hope, 211f; truth and self-correction, 212f; evolutionary love, 213–15; and Nietzsche, 147f; and Renouvier, 157, 201, 214  
 pellagra, 68, 225f  
 Petty, Sir William (1623–87), 17f, 218  
 photography, 182  
 phrenology, 69, 84, 121–3  
 physiological school of medicine, 81–6, 133; *see also* Broussais  
 Pinel, Philippe (1745–1826), 43, 65  
 Pitt, William (the Younger, 1759–1806), 26  
 Podmore, Frank (1856–1910), 254  
 Poggendorf, Johann Christian (1796–1877), 57  
 Poincaré, Henri (1854–1912), 180  
 Poisson, Siméon-Denis, (1781–1840), ix, 42, 81, 85, 228, 231–4; jury, 88, 95f, 99–104, 112; on kinds of probability, 96;

- law of large numbers, 85, 95, 101–5, 181;  
 Poisson distribution, 98; medical  
 statistics, 81, 85f, 142; fiducial argument,  
 97f; confidence limits, 210;  
 Ostrogradsky, 94  
 political arithmetic, 16  
 Popper, Sir Karl, 122  
 Porter, Theodore M., 9, 121, 217, 234–6,  
 238  
 positivism, 78, the word, 5, 144  
 Price, Richard (1723–91), 49–51, reasoning  
 on mortality law, 223  
 Prins, Adolphe, 175, 248  
 probability, kinds of: *probabilité*, *chance*,  
 in Cournot and Poisson, 96–8; objective,  
 subjective, 96f  
 probable error, 98, 107, 113, 204, 208f  
 prostitutes, 120, 175  
 Prout, William (1785–1850), 57  
 Prussia, Central Statistical Commission,  
 33  
 Prussia, early censuses, 19f  
 psychological research, 206, 208f  
 psychophysics, 204f  
 puerperal fever, 119
- quantum of happiness, 16, 51, 170; of  
 sickness, 51; quantum theory, 2, 10, 181  
 Québec, first census, 17; model society,  
 says Le Play, 138  
 Quetelet, Adolphe, (1796–1874), ix, xi, 39,  
 59, 62, 73, 104–14, 116, 118, 121, 130,  
 136, 139, 177, 225f, 233, 235–7, 239;  
 decisive contribution of, 108;  
*Queteletism*, 113, 125–7, 130f; the  
 quiet, 139; and Galton contrasted, 185–8;  
*see also* average man, fatalism
- random sampling numbers, 149;  
 randomized experiments, 205f, 253  
 rank-order statistics, 77f  
 Raux, Paul, 175, 248  
 Registrar-General of England and Wales,  
 53, 143  
 Reid, Thomas (1740–96), 242  
 Renouvier, Charles-Bernard (1815–1903),  
 153–7, 177, 201, 243  
 risk portfolio, 22  
 Roche, Louis-Charles (1790–1875), 83f,  
 228  
 Roget, P. M., 236  
 Roncaroni, P., 175, 248  
 Rumelin, Gustav (1815–89), 24, 127, 131,  
 219, 239  
 Ruppín, Arthur (1876–1943), 198, 252
- Sachse, W., 219  
 Saint-Simon, Henri, comte de (1760–1825),  
 39
- Saint-Venant, Adhémar Jean Claude Barré  
 de (1797–1886), 155  
 Salmon, W. C., 249  
 Salpêtrière, 65, 80  
 sampling, 6  
 sanitary movement, 119  
 Sauvages, de la Croix, François Boissier de  
 (1706–67), 66  
 Scheutz, Georg (1785–1873), 53, 223  
 Schliemann, Heinrich (1822–90), 190  
 Schlözer, A. L. (1735–1809), 25, 219  
 Schmeitzel, Martin (d. 1747), 24  
 Schoen, H. H., 235  
 Schols, C. M., 250  
 Schöne, W., 218  
 Schwarz, Otto, 220  
 Schweber, S. S., 234  
 Scotland, *Statistical Account of*, 26, *General  
 Report of*, 28  
 Seboek, T. A., 249  
 Segerstrale, Ullica, 244  
 Semmelweis, Ignatz Philip (1818–65), 119  
 Seneta, E., 103, 232  
 Shafer, Glenn, 229, 231  
 Sheynin, Oscar B., 95, 231, 233f  
 Sieyès, Emmanuel Joseph (1748–1836), 44  
 Sigwart, C. W. von (1789–1844), 152, 242  
 Silesia, typhus epidemic in Upper, 192  
 Sinclair, Sir John (1754–1835), 16, 26–8, 50,  
 77, 137, 170, 219f  
 Smith, Adam (1723–90), 171, 220  
 Snell, Christian Wilhelm (1755–1834), 242  
 social physics, social mechanics, in Comte  
 and Quetelet, 39; social science, in Le  
 Play, 137; ‘sociology’, 144  
 Solomon, Herbert, 95, 231  
 Spencer, Herbert (1820–93), 174  
 Spottiswoode, William (1825–83), 249  
 Spurzheim, Johann Christoff (1716–1832),  
 122, 152, 236, 242  
 Staël, Madame de (Anne Louise Germaine  
 Necker, Baronne de Staël-Holstein,  
 1766–1817), 41, 222  
 Stark, John, 244  
 Statistical Congresses, International, 115,  
 190  
 statistical offices of cities: Berlin, 196;  
 Leipzig, 128; some dates of  
 establishment, 33  
 statistical offices, centralized: Prussia as  
 model, 19–34, 128; Austria, 25; France  
 136; Germany, 196; Saxony, 128;  
 Württemberg, 24, 34, 131  
 statistical stability, 103, 112  
 statistics, the word, 16, 24f; not used by Le  
 Play, 137  
 statistics: conjugal (Balzac), 135, 144;  
 criminal, 88; convictions 98; deaths, 15,  
 40, 49, 77; divorce, 41, 71; education,

- statistics *cont.*  
   77f, 81; marriage, 15; medicine, 81–6; *see also* births, suicide  
 Stein, Henrich Friedrich Karl, Baron von und zum (1757–1831), 27, 30f, 220  
 Stewart, Dugald (1753–1828), 254  
 Stigler, Stephen M., 9, 97, 106, 211, 217, 231f, 234f, 248, 253, 255  
 Storrs, Robert, 119, 236  
 Struve, Burkhard Gotthelf (1671–1738), 24  
 styles of reasoning, 6f, 10  
 Sue, Eugène (1804–57), 78  
 suicide and insanity, 65–73; as a social indicator, 64f, 170–3, 177; suicide statistics in France and Britain, 64–80; in Geneva 64; in Saxony, 129  
 superstition of the vulgar, chance as a, 1, 13  
 Süßmilch, Johann Peter (1707–67), 20f, 23, 40, 66, 218f  
 Szeleter, S. R. S., 216  
  
 Tarde, Gabriel (1843–1904), 175, 246, 248  
 Thevenot, Laurent, 216  
 Tippett, L. J. C., 149, 242  
 Titchener, Edward Bradford (1867–1927), 253  
 Tocqueville, Alexis Henri Charles Maurice Clérel, comte de (1805–59), 77  
 tontines, 49, 227  
 Topinard, Paul (1830–1911), 175, 248  
 Tracy, Antoine Claude Destutt, comte de (1754–1836), 43  
 Trade, Board of, 28  
 Treitschke, Heinrich von (1834–96), 194  
 Turati, Filippo (1857–1932), 175, 248  
 Turgot, Anne-Robert-Jacques (1727–81), 38  
 Turnbull, William, 224  
 Turner, Edward (1798–1837), 57  
  
 United States of America, name of 49; Supreme Court ruling on juries, 95, Bureau of Standards, 57; Coast Survey, 202f, 212  
  
 Val-de-Grâce, 82, 84  
 Vargha, Julius, 175, 248  
 vaudeville, x, 142  
 Venn, John (1834–1923), 126f, 208, 237  
 Vernet, Madame, 43  
 Vieta, François (1540–1603), 56  
 Villermé, Louis (1782–1863), 74, 114–16  
 Virchow, Rudolf (1821–1902), 190f, 250  
 Virgilio, Gaspare (1836–1908), 175, 248  
 Voltaire (1694–1778), 65  
 von Neumann, John, 116  
  
 Waddington, C. H., 244  
 Wagner, Adolph Heinrich Gotthilf (1835–1917), 130, 196, 238  
 Walker, H. M., 234  
 Wargentín, Per (1717–83), 222  
 Weber, Max (1864–1920), 132, 139  
 Welby, Lady Victoria (1837–1912), 253  
 Westergaard, Harald, 25, 219, 221  
 Whewell, William (1794–1866), 207  
 Wildavsky, Aaron, 219  
 will, freedom of, 1, 15; *see also* determinism, fatalism  
 Willich, Anthony Florian Madinger, 242  
 Wilson, Edwin Bidwell, 210, 255  
 Wilson, E. O., 244  
 Wise, Norton, 36, 220  
 Wittgenstein, Ludwig, 237  
 Wright, Carroll D., 241  
 Wundt, Wilhelm (1832–1920), 2, 128, 216, 238  
  
 Young, Arthur (1741–1820), 25f  
 Young, Robert, 122, 236  
 Young, Thomas (1773–1829), 236  
  
 Zabell, Sandy, 9, 217  
 Zunz, Leopold (1794–1886), 194, 251; Zunz Foundation, 198