

Index

- Abbe, Ernst Karl, 55–57, 101, 107, 426
 death, 521
 on Frege's Habilitationsschrift, 100–1
 political views, 424
 support for Frege, 180, 194, 266–67
- Aristotle, 128, 225, 299
- arithmetic. *see also* equinumerosity; number
 Husserl's account of, 426–29
 identity in equations, 325–29, 400
 in *Begriffsschrift*, 113–14
 in *Grundgesetze der Arithmetik*, 399–405
 in *Grundlagen der Arithmetik*, 204–6,
 232–35
 Kant on, 213–14, 217–18
 reference of arithmetical terms, 399–400
 relation to geometry, 626–27
 special status of concept-functions, 134,
 217–18, 298
- Arndt, Meta, 262, 424–25, 514–15, 529,
 604–5
 after Frege's death, 616–18
- Auerbach, Felix, 426
- Bad Kleinen, 604–5
- Ballhorn, Maria Elisabeth, 25
- Balzac, Honoré de, 167
- barber paradox, 483–85
- Bassermann, Ernst, 423
- Bauch, Bruno, 63, 542, 606
- Bauer, Wilhelmine Lina, 527
- Beaney, Michael, 69, 512–13
- Begriffsschrift*
 appeal to arithmetic, 113–14
 as precursor to *Grundgesetze*, 376
 axioms, 143–51
 contraposition, 145–46
 identity law, 145–46
 logical addition, 144
 universal instantiation, 146
- concept and outline, 112–14
- concepts as functions, 120–25
- Frege's lectures on, 161–62, 182–83,
 415–16, 494, 497–98, 633
- Kerry's criticisms, 304–5
- lectures based upon, 182–83
- names, 286–87
- negation, 122–23, 125, 577–78, 585–86
- notation, 116–18, 125, 144–47, 151–55,
 381, 385–86
 conditionality, 141, 595–96
Inhaltsstrich, 119, 560–61, 563–64
 negation sign, 124–25, 585–86
Urteilsstrich, 145–46
- printing, 114–15
- publication, 111–12
- purpose, 149–51
- reception, 180, 191
 lack of comprehension, 198–99,
 272, 375
- significance, 164–65
- structure, 116–20
- term negation, 122–23
- use in Frege's later pedagogy, 161–63
- Begriffsschrift des Herrn Peano und meine
 eigene. Über die*, 423
- Begründung meiner strengeren Grundsätze des
 Definierens*, 423
- Bialloblotzky, Johann Heinrich
 Siegfried, 25
- Biermann, Lorenz, 432–33

- Binswanger, Otto, 521
 Bismarck, Otto von, 263
 Bolzano, Bernard, 340–41
 Bombelli, Rafael, 66
 Boole, George, 77, 123, 127
 “Boole’s Logical Formula-Language and My
 Concept-Script”, 585–86
 Braumüller, Wilhelm, 541
 Braunschweig, 526
 Brentano, Franz, 126, 216, 428
 Brix, Walter C. G., 274, 275–76
 Brouwer, L. E. J., 444–45
 Brunshaupten, 539
 Button, O., 426
 Bynum, Terrell Ward, 98, 155, 166, 174, 198,
 262, 408
- calculus, 46
 Cantor, Georg, 80, 226, 248, 249, 261
 Frege’s criticism of, 274
 review of *Grundlagen*, 440
 Cappeller, Carl, 615
 Carnap, Rudolf, 184–85, 186, 494
 Church, Alonzo, 499
 Clebsch, Rudolf Friedrich Alfred, 59–60
 cog (ship type), 13–14
 colloquial language, 361–63
 complex numbers, 66, 74–76
 compound thoughts
 classification, 594–95
 extensionality principle, 596–97
 “Concept and Object, On”, 287–88, 304–9
 semantic compositionality, 311–13
 “Concept of Number, On the”, 432–33
 concept-functions (Fregean), 112–14,
 276–78, 281–83, 313–14
 arithmetic, 134, 217–18
 special status of, 298
 as Platonic form, 315–17
 distinct from objects, 220–21
 Husserl’s concepts and, 435
 object-argument and, 307–9
 reduction of second-level to first-level,
 300–1
 single-argument, 282–85
 concepts (Husserlian), 435
 conditionality, 118–20
 Begriffsschrift notation, 141, 595–96
 compound thoughts as, 588
 truth-values of conditional statements,
 578–79, 592–93
 Congrès International de Philosophie, 425
 conjunction, 588, 590–92
 Corcoran, John, 128
 Couturat, Louis, 425
 currency inflation, 533
- Darmstaedter, Ludwig, 603
 Dedekind, Richard, 189, 246–47, 248, 396–97
 definite descriptions, 334
 demonstrative terms, 573–76
 Descartes, René, 86, 610, 632, 637
 Deutsche Akademie der Naturforscher, 107
 Deutsche Mathematiker-Vereinigung, 108
 Dingler, Hugo, 606
 Dirichlet, J. Peter Gustav Lejeune-, 58
 Domgemeinde Schwerin, 18
Dozent, 52
 Dummett, Michael, 26, 159, 407, 513
 on Frege’s embitterment, 628
 on Frege’s later philosophical position, 619
 on Frege’s reaction to Russell’s paradox,
 463, 470–71
 on Russell’s invitation to Frege to
 Cambridge, 516
- Eggeling, Heinrich von, 529–30
 equinumerosity, 232–34, 252–56, 328
 as co-extensionality of predicate
 extensions, 328
 as one-one pairing, 234–35, 252–56
 number and, 235–38
 Erdmann, Benno, 388–90
 essentialism, 225
 Eucken, Rudolf Christoph, 535
- Faerber, Carl, 532
 “Fido”-Fido theory of reference, 348
 Fischer, Kuno, 53–54, 83
 formalism, 444–45, 462–63
 Fortlage, Carl, 101, 180
 Franco-German War (1870–71), 163
 Frege, Auguste Wilhelmine Sophia
 Bialloblotzky, 10, 25–27, 73–74, 175
 moves out of Frege’s house (1896), 418
 Frege, Cäsar Emanuel, 23
 Frege, Cäsar Friedrich Arnold, 10, 11, 19–20,
 27–29, 175, 424, 617

- Frege, Christian Gottlob Emanuel, 23, 526–27
- Frege, Friedrich Ludwig Gottlob
- appearance, 170–72, 269–70, 638–40
 - birth, 10
 - bust of, 107
 - career, 173–75, 180–90
 - advancement, 105, 193–94, 195–96, 198, 264–67
 - as *Privatdozent*, 107–9
 - aspirations, 57–58
 - at Pfeiffer Institut, 188
 - lack of students, 182–84, 186–88
 - later, 414–16, 546
 - political machinations against, 523–24
 - promotion to assistant professor, 194–96
 - promotion to ordinary professor, 419
 - salary, 178, 198, 264, 419, 425, 532–35
 - teaching *Begriffsschrift* material, 161–62, 182–83, 415–16, 494, 497–98, 633
 - teaching style, 184–86, 187–88, 195–97
 - character, 22, 72–73, 269–70, 391, 407, 440
 - dedication to truth, 633–34
 - sense of superiority, 22, 629
 - sorrow at lack of recognition, 411–12, 628–31
 - tenacity, 631–32
 - citizenship of Jena, 422
 - correspondence, 420–21, 606
 - with Brix, 274
 - with Couturat, 425
 - with Hilbert, 442–47, 495
 - with Hönigswald, 472
 - with Husserl, 343, 429–33
 - with Léon, 422
 - with Peano, 421–22
 - with Russell, 451–53, 459–66, 471, 515–17
 - with Wittgenstein, 540–46, 550–52, 604–5, 606
 - death, 610–12
 - early life, 10–12, 19
 - character, 22
 - funeral, 612–15
 - health, 20, 521–23, 554–55, 608–9
 - houses
 - Bad Kleinen, 604–5
 - Jena, 175, 268–69, 608
 - legacy, 636–38
 - logicism, 76
 - anti-psychologistic character of, 116
 - genesis of, 96–100, 108–9
 - marriage, 174, 262, 267–68, 269
 - mathematical aptitude, 73–74
 - military service, 163
 - pension, 607–8, 611, 615
 - philosophical hiatus, 504–7
 - philosophical positions, 448
 - anti-psychologism, 89–90, 388–89, 427–28, 567–71
 - externalist theory of mind, 571–76
 - Platonism, 315–16, 355–56
 - realism, 355–56
 - about mathematical truth, 445–46
 - return to Kantianism in later years, 619–27
 - political views and activity, 422, 423–24, 518–21, 536
 - anti-semitism, 519
 - post-bereavement slump, 511–15, 548–50
 - retirement and later life, 604–9
 - school days, 28–29, 30, 33–35
 - graduation from school, 38–40
 - study at Göttingen, 60–63
 - dissertation, 66–69
 - Habilitationsschrift, 81
 - Lotze's lectures, 63–66
 - study at Jena
 - decision to attend, 42–43
 - electrodynamics, 47–49
 - Habilitation interview, 101–7
 - mathematics programme, 43–46
 - philosophy, 52–55, 89
 - postdoctoral studies, 88–90, 92–93, 100–1
 - study with Abbe, 55–57
 - third semester, 49–52
 - Wittgenstein and, 535–40
 - lack of comprehension of Wittgenstein's work, 543–44
 - writing, 163, 415–20
 - “Suggestions for an Electoral Law”, 608
 - Begriffsschrift*, 84, 110–20
 - Begründung meiner strengeren Grundsätze des Definierens*, 423

- Frege, Friedrich Ludwig Gottlob (cont.)
 “Boole’s Logical Formula-Language and My Concept-Script”, 585–86
 essays, 274
 “Function and Concept”, 278–80
 Habilitationsschrift, 92–93, 95–96, 100–1, 110, 173
 “Logic in Mathematics”, 550–51
 “Logik”, 423, 584, 602–3
Logische Mängel in der Mathematik, 424
 “Notes for Ludwig Darmstaedter”, 584–85, 603
 “Numbers and Arithmetic”, 603–4, 622
 “On Sense and Reference”, 271–72
 “On the Concept of Number”, 432–33
 paper on geometry, 417–18
 post-*Grundgesetze*, 506–7, 517–18, 548–50
 posthumously published, 597–604
 review of Husserl’s *Philosophie der Arithmetik*, 426–29, 434–36, 437–38
 review of Thomae, 531–32
 “Über das Trägheitsgesetz”, 432
Über die Begriffsschrift des Herrn Peano und meine eigene, 423
Über die Zahlen des Herrn H. Schubert, 425
- Frege, Karl Alexander, 10, 11, 24–25
 death, 37–38
- Frege, Margarete, *see* Lieseberg, Margarete
- Frege, Paul Otto Alfred, 262–63, 268, 524–29, 550
 adoption timeline, 513
 after Frege’s death, 616–18
 as Frege’s literary executor, 597–99
 education and later life, 525–26
 family background, 527–29
- Freudenthal, Hans, 443
- Frische Grube, 17
- Fuchs, Alfred, *see* Frege, Paul Otto Alfred
- Fuchs, Elsa Ella Toni, 527
- Fuchs, Karl Julius Alfred, 527
- Fuchs, Martha Anna Klara, 527
- “Function and Concept”, 278–80, 285–86
 arithmetical function chaperones, 295–96
 identity and function values, 284–88
 identity as logical relation, 302–4
 Julius Caesar paradox revisited, 292–97
 mathematics as language, 283–84, 285–86
 negation, 299–301
 single-argument functions, 280–83
- Gauss, Carl Friedrich, 47, 48, 66, 74, 75
- Geach, P. T., 425
- Gedanken*, *see* thoughts (Fregean)
- geometry, 83–84, 417
- Gerland, Heinrich, 615
- German Mark, 533
 Bank Act (1909), 534
 hyperinflation, 605–6, 607–8
- Geuther, Anton, 43–44, 101
- Giese, Dr., 554
- Gillies, D. A., 623–24
- Gödel, Kurt, 499
- Göttingen Mathematics Institute, 58–60
 Frege’s study at, 60–63
 dissertation, 66–69
 Habilitationsschrift, 81
 Lotze’s lectures, 63–66
- Göttingen, University of, 59
- Große Stadtschule Wismar, 27–28, 31–33
 Septima program, 33–34
 Sexta program, 34
- Grundgesetze der Arithmetik*, 369, 448
 afterword response to Russell’s paradox, 474–75, 509–10
 as culmination of previous work, 272–74, 369
 axiomatic principles, 401–2
 Axiom V, 394–96, 449–50, 452, 458–59
 draft version, 398–99
 foreword, 383–92
 identity relations in, 321
 impact of Russell’s paradox, 455–59
 Frege’s answer, 477–82
 logical exposition, 399–405
 notation, 398
 proof formalization, 393–94
 publication, 371–75
 division into two volumes, 377
 essays as preparatory to, 378
 typesetting and printing, 381
 Volume I, 274–75, 380–83
 Volume II, 452–53, 542
 purpose and aims, 373, 392–99
 reception, 405–11, 412
 Volume I, 408–9
 rejection of Dedekind, 396–97

- Volume I, 380–83
Volume II, 412–13
Volume III, 471–72, 510, 547–48
Grundlagen der Arithmetik, 168, 199, 203–6
aim and purpose, 168–69, 203–6
as precursor to *Grundgesetze*, 273, 375–77
basic principles, 212–13
 concept-object distinction, 220–21
 non-psychologism, 213–18
 semantic holism, 218–20
definition of natural numbers, 245–48
 circularity of, 252–56, 317–18
errors and omissions, 251–57
Julius Caesar problem, 238–41
logical analysis of number, 232–35
nature of number, 241–45
on competing systems, 221–23, 285–86
 Mill's inductivism, 223–24
 number as objects with properties, 226–28
 numbers as sets, 228–30
 presentation of topic, 211–12
 reception, 248–51, 261, 272
 significance, 257–60
Gutzmer, August, 426, 523
Gymnasium system, 31–33
- Habilitationsschrift, 92–93, 95–96, 100–1, 110, 173
Hadamard, Jacques, 434
Haeckel, Ernst, 99–100
Hamilton, William Rowan, 67, 126
Hanseatic League, 12–13
 member cities, 14–15
Hansen, John, 529
Haussner, Robert, 523
Herbart, Johann Friedrich, 525
Heron of Alexandria, 66
Hilbert, David, 159, 218, 285–86, 442–43, 462–63
 correspondence with Frege, 442–47, 495
 on Russell's paradox, 494–95
Hinter dem Chor, 17
Hoffmann, Arthur, 606
Hofrat, 63–64
Hönigswald, Richard, 455
Hoppe, Reinhold, 156, 248, 405
Hume, David, 243, 244, 451
- Husserl, Edmund, 64, 159, 248
 correspondence with Frege, 429–33
 Logische Untersuchungen, 431
 Philosophie der Arithmetik, 426–29, 437–38
 psychologism, 430
- identity, 242–43, 276–78, 284–88 *see also* equinumerosity
 assumptions inherent in, 348–52
 in arithmetical equations, 325–29, 400
 in “Function and Concept”, 302–4
 in “Sense and Reference”, 320–25
 Leibnizian principle of, 355–56
 mixed identity statements, 341–42
 of names vs. of objects, 321
 self-identity, 352–55
 sense-determining content of, 337–38
imaginary numbers, 66–67, 74–76
impredicative constructions, 488–89
indexical terms, 573–76
inductivism, 223–24
Inhaltsstrich, 119, 560–61, 563–64
intuition (mathematical), 437–39
irrational numbers, 246–47
- Jacquette, Dale, 356
Jahoda and Siegel, 541
Jena (city of), 422
Jena Literary Museum, 190–91
Jena University
 electrodynamics course, 47–49
 Frege's study at
 mathematics program, 43–46
 philosophy, 52–55
 postdoctoral studies, 88–90, 92–93, 100–1
 study with Abbe, 55–57
 third semester, 49–52
Frege's study at Habilitation interview, 101–7
Frege's teaching career at, 173–75, 180–90
 1891–1892 period, 414–15
 1892–1893 period, 415–16
 advancement, 105, 193–94, 195–96, 198, 264–67
 as *Privatdozent*, 107–9
 lack of students, 182–84, 186–88
 political machinations against, 523–24

- Jena University (cont.)
 promotion to assistant professor,
 194–96
 promotion to ordinary professor, 419
 retirement, 546
 salary, 178, 198, 264, 419, 425, 532–35
 teaching *Begriffsschrift* material,
 161–62, 182–83, 415–16, 494,
 497–98, 633
 teaching style, 184–86, 187–88, 195–97
 mathematics program, 43–46, 181–82
 modern-day, 77, 80–81
- Jena, Mathematical Society of, 56
- Jenaer Literaturzeitung*, 163
- Jenaische Gesellschaft für Medizin und
 Naturwissenschaft, 108, 176–78,
 278–80
- Jenaische Zeitung*, 423
- Julius Caesar problem, 238–41, 292–97
- Kaiserlich Leopoldinisch-Carolinische
 Deutsche Akademie der
 Naturforscher, 422
- Kambartel, Friedrich, 443
- Kant, Immanuel, 111, 115
 Frege's study of, 54, 83
 influence on Frege, 84–85, 623–24
 on geometry, 417
 philosophy of arithmetic, 213–14, 217–18
 pure form of perception, 213–14
- Kenny, Anthony, 26, 620–21
- Kerry, Benno, 304–5, 310–11
- Klement, Kevin C., 221
- Königsberger, Leo, 167
- Kontore*, 12
- Köppelsdorf, 521
- Kreiser, Lothar, 33, 38–39, 44–45, 179,
 432, 526
 on Frege's finances, 534
 on Wittgenstein, 538
- language
 mathematics as, 285–86
- Laßwitz, Kurd, 156, 180, 194, 248
- Leibniz, Gottfried Wilhelm, 47
 identity of indiscernibles, 360
- Leipzig Society of Sciences, 420
- Léon, Xavier, 422
- Leśniewski, Stanislaw, 460, 500
- Lieseburg, Heinrich Georg Johann, 424
- Lieseburg, Margarete, 174, 262–63,
 264–71, 424
 death, 503, 513
- Linsky, Leonard, 364
- Lipschitz, Rudolf, 227
- logic
 Aristotelian, 77–78, 120–21
 Boolean, 123–24, 127
 conditionality, 118–20
 negation
 as function, 120–21
 notation
Urteilsstrich, 117
Logic in Mathematics, 550–51
 logical addition, 144
 logical notation, 116–18, 125, 47, 151–55, 381,
 385–86
 conditionality, 141, 595–96
Inhaltsstrich, 119, 560–61, 563–64
 negation sign, 124–25, 585–86
Urteilsstrich, 145–46
- logicism, 76
 anti-psychologistic character, 215–18,
 306–7
 application to geometry, 620–23
 circularity of definition of number, 317–18
 Frege's devotion to, 207–10, 497–502
 genesis of, 96–100, 108–9
 necessity of explicitness, 393–94
 “Logik”, 423, 584, 602–3
 “Logische Mängel in der Mathematik”, 424
Logische Untersuchungen, 556–62, 609
 compound thoughts, 587–95
 continuity with earlier work, 559–60
 “Negation”, 561, 576–78
 “Thought”, 559–61, 577
 truth theory, 568–71
- Lotze, Hermann, 63–66, 86
- Lübeck conference, 442–44
- Lüpké, Dr. Johannes Eberhard Burghard
 von, 528, 618
- Lüroth, Jakob, 193–94
- Luther, Martin, 35, 209
- Macbeth, Danielle, 239
- Marty, Anton, 192
- Mathematische Annalen*, 60
- Mecklenburger Tageblatt*, 612–13

- Meinong, Alexius, 362
 Melanchthon, Philip, 26
 Mendelsohn, Richard L., 438–39, 519
 Michaëllis, C. T., 156–57, 405
 Mill, John Stuart, 222, 335
 inductivism, 223–24
 on proper names, 335, 336–37
 Montesson Torpedo Arsenal, 527
 Morse, Samuel, 48
- Nationalliberale Partei (NLP), 422, 518–21
 natural numbers, 204–5, 211–12, 244
 0 (zero), 212, 245–46
 1 (one), 231–32, 245–46
 definition, 245–48
 negation
 in *Begriffsschrift*, 122–23, 577–78, 585–86
 in “Function and Concept”, 299–301
 in *Grundgesetze*, 400–1
 in “Logik”, 584
 in *Logische Untersuchungen*, 561, 576–78
 internal and external, 576–77
 of thoughts, 581–83
 truth-functional, 576–78
 Neumann, Carl, 60
 Newton, Isaac, 242
 Nietzsche, Friedrich, 35
 “Notes for Ludwig Darmstaedter”, 584–85, 603
 number, *see also* arithmetic; complex numbers; equinumerosity; imaginary numbers; irrational numbers; natural numbers
 as concept, 217–18
 as Platonic object, 228–29
 as property of physical reality, 224–26
 as set, 228–30
 identity of (equinumerosity), 232–34, 242–44
 logical definition of
 circularity, 317–18
 ontological status of, 241–45, 295–96, 603–4
 “Numbers and Arithmetic”, 603–4, 622
 Nye, Edgar Wilson, 381
- object-arguments
 concept-function and, 307–9, 310–11
 distinction from concepts, 220–21
 Ogonecyk, House of, 26
 one–one pairing relation, 253–56
ousiology, 225
- Papineau, David, 490–91
 Pastow, 529
 Peano, Giuseppe, 127, 248
 correspondence with Frege, 421–22
 on Russell’s paradox controversy, 470
 review of *Grundgesetze*, 405, 406–7
 Peirce, Charles Saunders, 127, 170–72
 Pfeiffer Institut, 188
 Pfeiffer, Ernst, 188
 phenomenism, 568
 photographs, 10–12, 638–40
 Plato, 316
 Platonic objects, 315–17
 number as, 228–29
 Pohle, Hermann, 373, 378–79, 382
 Poincaré, Henri, 434
 prime numbers, 78–79
 printing, 115
 Prinz, Henriette Charlotte, 23
Privatdozent, 91–92
 proof (mathematical)
 by *reductio ad absurdum*, 78–79
 Frege’s early opinion on, 70–71
 Hilbert’s and Frege’s views contrasted, 446–47
 proper names, 298, 324, 325–26
 customary and indirect reference, 346–48
 definite descriptions and, 334
 definition, 329–30
 reference, 329–33, 565
 sense, 330–31, 336, 344–46, 355–58
 properties
 names of, 348
 of numbers as objects, 226–28
 propositions, *see also* thoughts (Fregean)
 full meaning of, 340–41
 in *Gedanken*, 559–61
 Protestantism, 34–35
 work ethic, 88
 psychologism, 215–18, 306–7, 367–68, 388–89
 Frege’s opposition to, 567–71
 Husserl’s, 427–28, 433–41
 Pythagoras’s theorem, 572

- quaternions, 67
 Quine, Willard Van Orman, 67, 483–84
 quotation, 358–60
- realism, 355–56
 reference, 278 *see also* sense–reference distinction
 customary and indirect, 346–48, 358–64
 determined by sense, 334–39
 disquotational theory of, 348
 identity relation as co-referentiality, 323–25
 of arithmetical terms, 399–400
 problems in colloquial language, 361–63
 proper names, 329–33, 565
Revue de Métaphysique et de Morale, 422
 Riecke, Eduard, 62
 Riemann, Bernhard, 58–59
 Rosser, J. Barkley, 499
 Russell, Bertrand, 127, 159, 248, 250–51
 correspondence with Frege, 459–66, 471
 invites Frege to Cambridge, 515–17
 political views, 520–21
 Principles of Mathematics, 453–54, 508, 509
 Wittgenstein and, 537–38
 Russell's paradox
 Frege's reaction to, 318
 Frege's response, 633–34
 in *Grundgesetze* Afterword, 474–75
 in later writings, 600–1, 636–37
 Frege's restatement of, 475–77
 further correspondence on, 460–62
 impact on Frege personally, 494–97
 Leśniewski's solution, 469
 outline, 454–55
 resolution, 482–90
 Russell's letter to Frege outlining, 450–54
 Russell's solution, 488–89
 Ryle, Gilbert, 348
- Sachse, Gustav Adolf Leo, 37, 42–43, 55
 Schäffer, Hermann, 43–44
 Schering, Ernst Christian Julius, 62
 Schmid, Eduard Oscar, 101
 Schmidt, Moritz, 101
 schools, 31–33
 Schröder, Ernst, 157, 158, 159, 279
 Schubert, Hermann, 425
 Schulte, Joachim, 544–45
- Seebeck, Moritz von, 103
 Seeger, Heinrich, 163
 self-identity, 352–55
 sense, 278
 content of identity statements and, 337–38
 determining reference, 334–39
 direct and indirect speech, 342–44
 of proper names, 330–31, 344–46
 “Sense and Reference, On”, 275–76, 319–20
 identity relation in, 320–25
 sense determining reference, 334–39
 sense–reference distinction, 331–33, 353
 in *Grundgesetze*, 400
 objections, 323–25
 set theory, 80, 229, 249, 410
 numbers as sets, 228–30
 pre-Cantor, 80
 Sluga, Hans, 21, 99
 Snell, Karl, 43, 44–45, 99, 174
 Stelzner, Werner, 194
 Strasburg, Eduard, 101
 Straubel, Rudolf, 426
 Stumpf, Carl, 167, 199
 substitution failure, 360
 Sweden, 37, 41
- Tannery, Paul, 156
 Taylor series, 68
 Taylor, Brooke, 68
 telegraphy, 48
 Thirty Years' War, 15
 Thomae, Johannes, 163, 193–94, 426, 523–24, 531–32, 535
 thoughts (Fregean), 122
 as predication, 563–67
 as truth-value bearers, 569–71
 compound, 587–95
 classification, 594–95
 extensionality principle, 596–97
 non truth-functional, 595–97
 conditional, 118–20
 distinction from other objects, 565–67
 indexical terms and, 573–76
 mind-independence, 572–73, 586–87
 negation, 581–84
 truth-values of, 579–83
 “Trägheitsgesetz, Über das”, 432
 transcendental reasoning, 213–14
 truth (ontological status of), 445–46, 568–71

- truth-tables, 593
 truth-values, 122
 as reference to truth objects, 399–400, 582
 conditional statements, 578–79
 ideas as bearers, 568
 identity statements and, 320–21
 of thoughts, 579–83
 Tuercke, August Freiherr von, 197
 Twain, Mark, 381
 type theory, 489–90
 typhus, 24
- Urteilsstrich*, 145–46
- Venn, John, 126, 156, 158–59
 Versammlung deutscher Naturforscher und
 Ärzte, 442–44
 Vollert, Max, 522, 529–31
 Voss, Aurel Edmund, 193–94
- Washoe the chimp, 409
 Weber, Max, 88
 Weber, Wilhelm, 47, 48
 Weiner, Joan, 512
 Westphalia, Peace of, 15, 37
 Weulles, Johann, 610
 White, Roger, 331
 Whitehead, Alfred North, 509
 Winkelmann, Adolf, 426
- Wismar, 12–14, 41
 architecture and layout, 17–19
 as *hanseatische Stadt*, 14–16
 as UNESCO World Heritage Site, 16
 city flag, 14
 Marienkirche, 18
 Wittgenstein, Ludwig, 117, 235–36, 254, 424,
 553–54, 634–35
 first visit to Frege, 535–39
 correspondence with Frege, 540–46,
 550–52, 604–5, 606
 correspondence with Russell, 543–44
 financial support to Frege, 604–5
 on Frege, 539
 Philosophical Investigations, 151, 569,
 570
 second visit to Frege, 539–40
 Tractatus Logico-Philosophicus, 541–42,
 552–53, 575–76, 593
- “Zahlen des Herrn H. Schubert, Über
 die”, 425
 Zalta, Edward N., 162
 Zamyatin, Yevgeny, 638
 Zeiss Corporation, 180, 193–94, 426, 504
 financial support for Frege, 193–94, 530,
 532–33, 546–47
 Zermelo, Ernst, 442
 zero, 212