

Index

For purposes of alphabetization, the backslash character `\` is ignored at the start of an entry. Otherwise, the ordering is by the ASCII sequence.

Bold page numbers indicate the place where the command or concept is introduced, explained, or defined. *Slanted* page numbers refer to the Command Summary, Appendix G.

The keyword index is set up with main and two subentries. If a keyword cannot be found as a main entry, one should try to find it as a subentry to some more general term. Such major topics are

AMS-L^AT_EX, bibliographic database, bibliography, box, command, command (user-defined), cross-reference, error messages, exercises, file types, float, fonts, footnote, formula, hyphenation, L^AT_EX, L^AT_EX counters, letter, line breaking, lists, package, page breaking, page formatting, page numbering, page style, picture, PostScript, programming, sectioning, slides, spacing, style parameter, symbols, tabbing, table, table examples, T_EX, text.

- ! (MakeIndex), **223**, 467
- \!, **146**, 280, 467
- !’, 27, 467
- " (BIB_TE_X), 229, 467
- " (MakeIndex), **224**, 467
- ", 26, 467
- \" (˘ accent), 27, 468
- ##, **202**, 468
- \#, 27, 416, 468
- #, 21, **187**, 416, 420, 468
- \$\$, 122
- \\$, 21, **27**, 30, 31, 406, 468
- \$, 21, **121**, 406, 416, 417, 468
- \%, 27, 30, 31, 83, 468
- %, 21, 26, 62, 82, **83**, 468
- \&, 27, 468
- &, 21, **106**, **107**, 140, 283, 285, 416, 417, 468
- \’ (tabbing), **103**, 468
- ’’, 26
- ’, 26
- \’ (˘ accent), 27, 468
- ((BIB_TE_X), **230**, 468
- \(, **121**, 409, 416, 469
- (, **134**, 468
- ((picture), **298**, 468
-) (BIB_TE_X), **230**, 468
- \), **121**, 409, 469
-), **134**, 468
-) (picture), **298**, 468
- \+ (tabbing), **102**, 103, 413, 469
- \,, **32**, 125, 145, **146**, 280, 469
- \- (tabbing), **102**, 103, 413, 469
- \- (hyphenation), **38**, 44, 418, 425, 469
- , 26, 469
- , 26, 469
- , 26, 469
- \. (˘ accent), 27, 469
- \/, **30**, 469
- /, **134**
- \:, **146**, 280, 469
- \;, **146**, 280, 469
- \< (tabbing), **102**, 409, 413, 469
- \= (tabbing), **101**, 102, 103, 412, 469
- \= (˘ accent), 27, 469
- \> (tabbing), **101**, 102–104, 413, 470

560 INDEX

- ?‘, 27, 470
- @ (BIBTeX), 230-231, 470
- @ (MakeIndex), 223, 470
- \@, 32, 470
- @-expression, 106, 110, 119
- \@date, 357
- \@evenfoot, 356
- \@evenhead, 356
- \@for, 439
- \@ifnextchar, 439
- \@ifstar, 439
- \@ifundefined, 438
- \@latexerr, 429
- \@namedef, 438
- \@nameuse, 438
- \@oddfoot, 356
- \@oddhead, 356
- \@warning, 429
- \[, 122, 126, 409, 416, 470
- [, 22, 134, 417, 470
- \\, 34, 35, 55, 68, 69, 101, 104, 106, 109, 114, 282, 307, 345, 412, 416, 425, 470
- *, 34, 290, 470
- \], 122, 126, 409, 470
-], 22, 134, 470
- \^, 27
- ^, 21, 123, 124, 416, 470
- \^ (˘ accent), 27, 470
- _ , 27, 407, 470
- _ , 21, 123, 124, 407, 416, 470
- \‘ (tabbing), 103, 471
- ‘, 26
- ‘‘, 26
- \˘ (˘ accent), 27, 471
- {, 21, 22, 230, 416, 471
- \{, 27, 122, 134, 471
- |, 128, 134, 281, 471
- | (MakeIndex), 224, 471
- \|, 128, 129, 134, 281, 471
- \| (table), 106
- }, 21, 22, 230, 416, 418, 419, 471
- \}, 27, 122, 134, 471
- ˘, 21, 26, 32, 471
- \˘ (˘ accent), 27, 471
- 10pt option, 41, 63
- 11pt option, 41, 63
- 12pt option, 41, 63
- 8r.enc, 246, 248
- _ , 26, 32, 467
- \a’ (tabbing), 103, 471
- a4paper option, 42, 353, 437
- a5paper option, 42
- \a= (tabbing), 103, 471
- \a‘ (tabbing), 103, 471
- \AA, 27, 472
- \aa, 27, 472
- abbrv bibliography style, 229
- abbrvnat bibliography style, 218, 229
- \abovedisplayshortskip, 149, 472
- \abovedisplayskip, 149, 472
- Abrahams, P. W., 557
- abstract, 57
- abstract environment, 57, 475
- \abstractname, 441, 472
- accents
- in tabbing environment, 103
- in other languages, 27
- mathematical, 131
- Acrobat, 16, 247, 249, 254, 259
- Acrobat Distiller, 249, 251, 333, 335
- \Acrobatmenu (hyperref), 259, 338
- \acute, 131, 472
- \addButton (pdfscreen), 338
- \addcontentsline, 61, 62, 173, 418, 426, 472
- \adddialect (babel), 267
- \addlanguage (babel), 267
- \address (letter), 345, 346, 347, 350, 472
- \addtoartlength (seminar), 325
- \addtocontents, 61, 62, 173, 418, 426, 472
- \addtocounter, 24, 81, 97, 182, 183, 411, 472
- \addtolength, 184, 198, 472
- \addtoslidelength (seminar), 325
- \addtoslideset (color), 330
- \addvspace, 184, 472
- Adobe Systems Inc., 28, 241, 244, 248, 259, 380
- \AE, 27, 473
- \ae, 27, 473
- .afm file, 246
- Afrikaans, 264
- afterpage package, 171, 387
- \aleph, 129, 473

- align environment (\mathcal{AMS}), 282, **285**, 475
- align page style (seminar), 328
- alignat environment (\mathcal{AMS}), 282, **286**, 475
- aligned environment (\mathcal{AMS}), **287**, 476
- \backslash allinethickness (eepic), 314
- \backslash allowdisplaybreaks (\mathcal{AMS}), **290**, 473
- alltt environment, **82**, 386, 476
- alltt package, 82, 386
- allversions* environment (seminar), 329
- \backslash Alph, 73, 96, **183**, 289, 473
- \backslash alph, 73, 96, **183**, 190, 191, 473
- alpha bibliography style, 228
- \backslash alpha, **127**, 473
- alphabetic page numbering, 48
- \backslash alsoname (makeidx), **441**, 473
- \backslash amalg, **127**, 473
- American Mathematical Society, 152, 269
- American spelling, 194
- amsart class, 269
- amsbook class, 269
- amsbsy package, 145, 191, 270–271
- amscd package, 270, 274, 293
- amsfndoc.tex, 269
- amsfonts package, 127, 295, 415
- \mathcal{AMS} - \LaTeX , 269–296
 - align environment, 282, **285**, 475
 - alignat environment, 282, **286**, 475
 - aligned environment, **287**, 476
 - \backslash allowdisplaybreaks, **290**, 473
 - arrows, extended, 274
 - \backslash binom, **276**, 484
 - binomials, 276
 - Bmatrix environment, **277**, 476
 - bmatrix environment, **277**, 476
 - \backslash boldsymbol, 145, **270**, 485
 - \backslash boxed, 143, **281**, 485
 - cases environment, **288**, 476
 - CD environment, 293
 - \backslash cfrac, **277**, 486
 - CM fonts, 294
 - commutative diagrams, 293
 - Cyrillic fonts, 294
 - \backslash dbinom, **276**, 490
 - \backslash ddddot, **274**, 491
 - \backslash dddote, **274**, 490
 - \backslash DeclareMathOperator, **279**, 293
 - \backslash dffrac, **275**, 492
 - \backslash displaybreak, **289**, 493
 - dots, 275
 - \backslash dots, **275**, 494
 - \backslash dotsb, **275**, 494
 - \backslash dotsc, **275**, 494
 - \backslash dotsi, **275**, 494
 - \backslash dotsm, **275**, 494
 - \backslash eqref, **289**, 495
 - equation* environment, **283**
 - falign environment, 282, **286**, 477
 - fonts, 293–296
 - fractions, 275
 - continued, 277
 - user-defined, 276
 - function names, 279
 - defining, 279
 - gather environment, 282, **284**, 478
 - gathered environment, **287**, 478
 - \backslash genfrac, **276**, 500
 - \backslash hdotsfor, **278**
 - \backslash idotsint, **272**, 503
 - \backslash iiiint, **272**, 505
 - \backslash iiint, **272**, 505
 - \backslash iint, **272**, 505
 - \backslash intertext, **271**, 505
 - \backslash leftroot, **280**, 508
 - limits
 - multiline, 272
 - special, 273
 - \backslash lVert, **281**, 511
 - \backslash lvert, **281**, 511
 - math symbols, 295
 - \backslash mathbb, 295
 - matrix, 277
 - matrix environment, **277**, 479
 - \backslash medspace, **280**, 514
 - \backslash mod, **279**, 514
 - \backslash mspace, **281**, 514
 - multiline equations, 281–288
 - page breaks, 289
 - multiple integrals, 272
 - multiline environment, **282**, 479
 - \backslash multlinegap, **283**, 515
 - \backslash negmedspace, **280**, 515
 - \backslash negthickspace, **280**, 515
 - \backslash negthinspace, **280**, 515
 - \backslash notag, **282**, 518
 - \backslash numberwithin, **288**, 518
 - options, 290

562 INDEX

- `\overleftarrow`, 274, 520
- `\overleftrightharpoon`, 274, 520
- `\overrightarrow`, 274, 520
- `\overset`, 273, 520
 - `pmatrix` environment, 277, 480
- `\pmb`, 270, 524
- `\pod`, 279, 524
- `\raisetag`, 282
 - roots, 280
- `\rVert`, 281, 529
- `\rvert`, 281, 529
- `\shoveleft`, 282
- `\shoveright`, 282
- `\sideset`, 273, 532
 - `smallmatrix` environment, 278
- `\smash`, 280, 533
 - `split` environment, 282, 283, 287, 480
 - `subarray` environment, 273, 481
 - `subequations` environment, 289, 481
- `\substack`, 272, 534
 - symbols, 551-553
- `\tag`, 282, 527, 536
- `\tbinom`, 276, 536
- `\text`, 271, 536
- `\tfrac`, 275, 538
 - theorems, 291
- `\theoremstyle`, 292
- `\thickspace`, 280, 539
- `\thinspace`, 280, 539
- `\underleftarrow`, 274, 541
- `\underleftrightharpoon`, 274, 542
- `\underrightharpoon`, 274, 542
- `\underset`, 273, 542
 - upright references, 293
- `\uproot`, 280, 542
- `\varinjlim`, 279, 544
- `\varliminf`, 279, 544
- `\varlimsup`, 279, 544
- `\varprojlim`, 279, 544
 - vertical bars, 281
 - `Vmatrix` environment, 277, 482
 - `vmatrix` environment, 277, 482
- `\xleftarrow`, 274, 546
- `\xrightarrow`, 274, 546
- `amsl`.tex, 269, 293
- `amsmath` package, 191, 269-270
- `amsopn` package, 270, 279-280
- `amsproc` class, 269
- `amssymb` package, 295, 551
- `\mathcal`, 269
- `amstex` format, 269
- `amstext` package, 270-271
- `amsthm` package, 81, 270, 291-293, 389
- `\and`, 55, 56, 473
- `\angle`, 129, 473, 553
- ANSI coding, 29, 443
- `apalike` package, 218
- appendix, 59
 - appendix environment, 476
- `\appendix`, 59
- `\appendixname`, 441, 473
 - Apple Macintosh coding, 29, 443
- `\approx`, 128, 473
- `\approxeq` (`\mathcal`), 552
 - Arabic page numbering, 48
- `\arabic`, 73, 75, 77, 78, 96, 183, 190, 288, 473
- `\arc` (eepic), 315
- `\arccos`, 130, 473
- `\arcsin`, 130, 473
- `\arctan`, 130, 473
- `\arg`, 130, 474
 - argument, command, 22
 - array environment, 105, 116, 136, 147, 148, 150, 277, 387, 410, 411, 416, 417, 419, 420, 476
 - array package, 116, 387
- `\arraycolsep`, 107, 149, 474
- `\arrayrulewidth`, 107, 474
- arrays, 135-137
- `\arraystretch`, 107, 474
- arrows, 128
 - extended (`\mathcal`), 274
- Arseneau, Donald, 82, 208, 221
- `article` class, 41, 44, 57, 58, 95, 132, 173, 190, 216, 222, 288, 385, 390, 441, 452
- `article.cls`, 390, 421
- `article.sty` (L^AT_EX 2.09), 421
- `\articlemag` (seminar), 325
- ASCII, 5, 14, 21, 225, 241, 366, 376
- `\askforoverwritefalse` (DocStrip), 446
- `\ast`, 127, 474
- `\asymp`, 128, 474
- `\AtBeginDocument`, 433, 452, 474
- `\AtEndDocument`, 433, 474

- `\AtEndOfClass`, 433, 474
- `\AtEndOfPackage`, 433, 474
- `\atop` (T_EX), 138, 147, 148, 189
 - attributes, font, 65-67, 361-366
 - defaults, 365
- `\author`, 55, 56, 57, 70, 257, 421, 474
- `\author` (prosper), 333
- `.aux` file, 207, 208, 212, 390, 411, 418, 421, 426
 - auxiliary file, 212
 - avant package, 243
 - AvantGarde, PostScript font, 243, 245
 - axioms, 80
- `b5paper` option, 42
- `\b` (accent), 27, 475
 - `babel` package, 30, 264-268, 442
 - `babel.def` (`babel`), 265
 - `babel`, multilingual L^AT_EX, 214, 264-268, 379, 442
- `\backepsilon` (\mathcal{M} S), 552
 - background package, 341
- `\backgroundcolor` (pdfscreen), 338
- `\backmatter`, 60, 208, 475
- `\backprime` (\mathcal{M} S), 553
- `\backsim` (\mathcal{M} S), 552
- `\backsimeq` (\mathcal{M} S), 552
- `\backslash`, 129, 134, 475
 - Bahasa, 264
 - bakoma fonts, 247
 - `bakomaextra.map`, 247
- `\bar`, 131, 475
 - Barroca, Leonor, 159
- `\barwedge` (\mathcal{M} S), 551
 - baseline, 49, 65
- `\baselineskip`, 65, 355, 362, 475
- `\baselinestretch`, 49, 50, 65, 475
 - Basque, 264
- `\batchinput` (DocStrip), 448
- `\Bbbk` (\mathcal{M} S), 553
- `.bb1` file, 217, 221, 228, 390
- `\because` (\mathcal{M} S), 552
 - Beccari, Claudio, 557
- `\begin`, 23, 66, 409-411, 475
- `\belowdisplayshortskip`, 150, 482
- `\belowdisplayskip`, 149, 483
 - Berry naming scheme, 244
 - Berry, Karl, 244, 557
- `\beta`, 127, 483
- `\beth` (\mathcal{M} S), 552
- `\between` (\mathcal{M} S), 552
- `\bf` (L^AT_EX 2.09), 67, 361, 464
- `\bfdefault`, 365, 483
- `\bfseries`, 23, 24, 66, 365, 409, 483
- `\bgadd` (background), 341
- `\bgaddcenter` (background), 341
- `\bgclear` (background), 341
- `.bib` file, 227, 390
- `\bibitem`, 215, 216-218, 239, 389, 420-422, 483
 - bibliographic database, 216, 227-238
 - abbreviations, 237
 - creating, 229
 - cross-referencing, 234
 - entry type, 229-231
 - field, 229
 - abbreviations, 236
 - ignored, 230
 - list of, 232, 233
 - names, 235, 236
 - optional, 230, 231
 - required, 230, 231
 - special formats, 234
 - titles, 236
 - journal abbreviations, 239
 - structure, 229
 - template, 229, 237
- bibliography, 214
 - `abbrv`, 229
 - `abbrvnat`, 218, 229
 - `alpha`, 228
 - author-year style, 217-221
 - B_BT_EX, 214, 216, 221, 227-238
 - customizing, 220, 238-239
 - entry, 215
 - format, *see* style
 - multiple, 221
 - numerical, 217
 - open style, 43
 - `plain`, 216, 228
 - `plainnat`, 216, 218, 229
 - reference in text, 217, 227
 - style, 216, 218, 228
 - `unsrt`, 228
 - `unsrtnat`, 218, 229
- `\bibliography`, 208, 217, 221, 227, 228, 390, 483

564 INDEX

- `\bibliographystyle`, 216, 218, 221, 228, 391, 483
- `\bibname`, 441, 483
- `BibTeX`, 15, 214, 216, 221, 227-238, 376, 382, 390, 421
 - writing styles for, 238
- Biemesderfer, C., 557
- `\Big` (TeX), 149, 483
- `\big` (TeX), 149, 483
- `\bigcap`, 129, 484
- `\bigcirc`, 127, 484
- `\bigcup`, 129, 484
- `\Bigg` (TeX), 149, 484
- `\bigg` (TeX), 149, 484
- `\bigodot`, 129, 484
- `\bigoplus`, 129, 484
- `\bigotimes`, 129, 484
- `\bigskip`, 36, 484
- `\bigskipamount`, 484
- `\bigsqcup`, 129, 484
- `\bigstar` (AMS), 553
- `\bigtriangledown`, 127, 484
- `\bigtriangleup`, 127, 484
- `\biguplus`, 129, 484
- `\bigvee`, 129, 484
- `\bigwedge`, 129, 484
- binary operator symbols, 127
 - AMS, 551
- `\binom` (AMS), 276, 484
- binomial coefficient, 139, 276
- `\blacklozenge` (AMS), 553
- `\blacksquare` (AMS), 553
- `\blacktriangle` (AMS), 553
- `\blacktriangledown` (AMS), 553
- `\blacktriangleleft` (AMS), 552
- `\blacktriangleright` (AMS), 552
- blank, 11, 26
 - after command, 22, 26, 31, 186
 - at beginning of line, 26, 33
 - forced, 26
 - multiple, 11, 26
 - protected, 26, 32
 - rubber, 33
 - suppression of, 26
- blank line for new paragraph, 26
- .b1g file, 391
- Blue Sky Research, 247, 376
- bm package, 144-145, 387
- `\bm`, 145, 387
- Bmatrix environment (AMS), 277, 476
- bmatrix environment (AMS), 277, 476
- `\bmod`, 130, 279, 484
- body, 50
- boldface in formulas, 144, 387
- `\boldmath`, 144, 145, 150, 151, 387, 424, 484
- `\boldsymbol` (AMS), 145, 270, 485
- book class, 41, 44, 57, 58, 60, 95, 132, 173, 183, 187, 190, 216, 221, 222, 288, 385, 441
- bookman package, 243
- Bookman, PostScript font, 243, 245
- `\boolean` (ifthen), 193, 194, 354, 440
- `\bot`, 129, 485
- `\botfigrule`, 173, 485
- bottom margin, 51
- `\bottombuttons` (pdfscreen), 338
- `\bottomfraction`, 172, 485, 554
- bottomnumber, 171, 485
- Botway, L., 557
- `\bowtie`, 128, 485
- box, 85-95
 - calling, 87
 - framed, 86
 - lowering, 87
 - LR, 85, 87
 - nested, 92
 - paragraph, 85
 - parbox, 88
 - positioning
 - horizontal, 86
 - vertical, 88, 89, 92
 - raising, 87
 - rule, 85, 91
 - saving, 87
 - style parameters, 93
 - vertical, 88
- `\Box`, 127, 129, 485
- `\boxdot` (AMS), 551
- boxed formula, 143, 281
- `\boxed` (AMS), 143, 281, 485
- `\boxminus` (AMS), 551
- `\boxplus` (AMS), 551
- `\boxtimes` (AMS), 551
- bp (big point), 25, 155, 157
- Braams, Johannes, 264, 445
- `\brace` (TeX), 191
- `\brack` (TeX), 191

- bracket symbol, *see* symbols
- Breton, 264
- `\breve`, 131, 485
- British spelling, 194
- `bsr-interpolated.map`, 247
- `bsr.map`, 247
- `.bst` file, 217, 218, 228, 238, 391
- `btxdoc.tex`, 238
- `btXHak.tex`, 238
- Bulgarian, 264
- `\bullet`, 127, 485
- `\Bumpeq` (\mathcal{AMS}), 552
- `\bumpeq` (\mathcal{AMS}), 552
- C programming language, 375
- `\c` (, accent), 27, 485
- `calc` package, 387
- calligraphic letters, 127, 295
- `\Cap` (\mathcal{AMS}), 551
- `\cap`, 127, 485
- `\caption`, 62, 117, 169, 173, 177, 179, 182, 211, 418, 426, 485
- `\captionlang` (nonstandard), 267, 442, 485
- Carlisle, David, 153, 159, 179, 192, 212, 323, 460
- cases environment (\mathcal{AMS}), 288, 476
- Catalan, 264, 443
- `catalogue.html`, 13
- `\cbinput` (chapterbib), 221
- `cbunit` environment (chapterbib), 221
- `\cc` (letter), 347, 486
- `cc` (cicero), 25
- `\ccname` (letter), 347, 441, 486
- CD environment (\mathcal{AMS}), 293
- `\cdot`, 127, 486
- `\cdots`, 125, 135, 139, 275, 486
- center environment, 68, 69, 79, 107, 175, 299, 476
- `\centerdot` (\mathcal{AMS}), 551
- centered text, 68
- centering and indenting, 67–70
- centering, 68, 69, 79, 179, 486
- `\centerline` (\TeX), 68, 176, 401, 486
- `\centerslidefalse` (seminar), 327
- `\centerslidetrue` (seminar), 327
- `centertags` option, 283, 290
- `.cfg` file, 265, 378, 379, 391, 452
- `\cfoot` (fancyhdr), 47
- `\cfrac` (\mathcal{AMS}), 277, 486
- `\changes` (doc), 451
- chapter counter, 59, 181, 183
- chapter opening page, 43
- `\chapter`, 48, 58, 60, 438, 486
- `\chapter*`, 58, 486
- chapterbib package, 221
- `\chaptername`, 441, 486
- character spacing, *see* spacing
- `\CharacterTable` (doc), 452
- `\thead` (fancyhdr), 47
- `\check`, 131, 486
- `\CheckCommand`, 421, 434, 486
- `\CheckCommand*`, 435
- `\Checksum` (doc), 452
- chemical formulas, 144
- Chen, Pehong, 225
- `\chi`, 127, 486
- chicago package, 218
- Chinese, 6
- `\choose` (\TeX), 138, 147, 148, 189, 191
- `\circ`, 127, 486
- `\circeq` (\mathcal{AMS}), 552
- `\circle`, 409
- `\circle` (eepic), 314
- `\circle` (picture), 305, 308, 309, 422, 486
- `\circle*` (eepic), 314
- `\circle*` (picture), 305, 487
- `\circlearrowleft` (\mathcal{AMS}), 551
- `\circlearrowright` (\mathcal{AMS}), 551
- `\circledast` (\mathcal{AMS}), 551
- `\circledcirc` (\mathcal{AMS}), 551
- `\circleddash` (\mathcal{AMS}), 551
- `\circledS` (\mathcal{AMS}), 553
- `\cite`, 216, 217, 227–229, 231, 389, 420, 421, 487
- `\citeauthor` (natbib), 219
- `\citep` (natbib), 216, 218, 228, 487
- `\Citet` (natbib), 219
- `\citet` (natbib), 216, 218, 228, 487
- `\citeyear` (natbib), 219
- `\ClassError`, 435, 487
- `classes.dtx`, 445
- `\ClassInfo`, 436, 487
- `\ClassWarning`, 436, 487
- `\ClassWarningNoLine`, 436, 487
- Clausen, Joern, 28
- `\cleardoublepage`, 37, 171, 413, 487

566 INDEX

- `\clearpage`, 37, 104, 171, 207, 413, 419, 487
 - forbidden, 104
- `\cline`, 107, 111, 115, 488
- `.clo` file, 378, 379, 391
- `\closing` (letter), 347, 488
- `.cls` file, 378, 379, 391, 464
- `\clubsuit`, 129, 488
 - cm (centimeter), 25
 - cm-super fonts, 247
- `\CodelineIndex` (doc), 450
- `\CodelineNumbered` (doc), 451
 - Codepages, IBM, 29, 443
 - color package, 153, 165, 320, 321, 328, 330, 341, 429
- `\color` (color), 166, 328, 488
 - color.cfg, 166
- `\colorbox` (color), 166, 328, 488
- `\ColorFoot` (prosper), 334
- colors, 165-167
- column breaking, 37
- column separation
 - two-column pages, 43
- column separation symbol, 106, 107, 140
- `\columnsep`, 43, 54, 389, 488, 555
- `\columnseprule`, 44, 54, 389, 488, 555
- `\columnwidth`, 54, 173, 555
- command
 - *-form, 22
 - distinguishing from text, 11
 - followed by blank, 22, 186
 - invisible, 200
 - levels, 427, 428
 - multicharacter, 21
 - name, 21
 - single character, 21
 - syntax, 22
 - two-character, 21
- command characters, printing of, 27
- command, user-defined, 185-191
 - examples
 - \TeX as \LaTeX , 189
 - equation numbering, 190
 - footnotes, 189
 - framing text, 189
 - followed by blank, 186
 - for math and text, 186
 - general comments, 199
 - nested, 202
 - order of, 201
 - scope of, 200
 - global, 201
 - local, 201
 - storing, 199
 - unwanted spacing, 199
 - with arguments, 187, 188
 - calling, 187
 - with optional argument, 188
 - without arguments, 185, 186
 - calling, 185
- comment, 83
 - character, 83
- comment environment (verbatim), 82, 84, 389
- commenting out, 84
- compatibility mode, 386, 391, 411, 464
- `\complement` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 553
- Comprehensive \TeX Archive Network, *see* CTAN
- compressed graphics files, 165
- Computer Modern fonts, 8, 65, 293, 363, 366-369
 - PostScript version, 246, 247
- conditional text, 191
- config.cms, 246
- config.ps, 242, 246
- configuration file, local, 391
 - color, 166
 - graphics, 163
 - hyperref, 258
 - hyphen, 265, 379
 - \LaTeX installation, 378
 - `\ltxdoc`, 436, 452
 - pdfscreen, 338
 - seminar, 331, 332
- configuring \LaTeX , 378
- `\cong`, 128, 488
 - constant, *see* formula
- `\contentsline`, 488
- `\contentsname`, 441, 488
- continued fraction, 147, 150, 277
- continuing dots, 125, 275
- `\coprod`, 129, 489
 - copyright sign, 27, 371
- `\copyright`, 27, 371, 489
- `\copyrightspace`, 385
- `\cornersize` (fancybox), 94
- `\cos`, 130, 489

- `\cosh`, 130, 489
- `\cot`, 130, 489
- `\coth`, 130, 489
 - counter value, 182
 - multiple printing, 183
 - printing, 183
 - counter, \LaTeX , *see* \LaTeX counter
 - counter, user-defined, 181
 - auto. reset, 181
 - changing, 182
 - creation, 181
 - incrementing, 182
 - setting, 182
 - Courier, PostScript font, 243, 245, 366
 - Croatian, 264
 - cross-reference, 211–214
 - external document, 212
 - to bibliography, 217
 - to counters, 182, 211
 - to equations, 132, 140, 211, 289
 - to figures, 177, 211
 - to lists, 211
 - to pages, 211
 - to sections, 59, 211
 - to tables, 177, 211
 - to text, 211
 - to theorems, 211
 - variable, 213
- `\csc`, 130, 489
 - CTAN, 4, 375, 383
- `\Cup` (\mathcal{AMS}), 551
- `\cup`, 127, 489
- `\curlyeqprec` (\mathcal{AMS}), 552
- `\curlyeqsucc` (\mathcal{AMS}), 552
- `\curlyvee` (\mathcal{AMS}), 551
- `\curlywedge` (\mathcal{AMS}), 551
- `\CurrentOption`, 353, 432, 489
- `\curvearrowleft` (\mathcal{AMS}), 551
- `\curvearrowright` (\mathcal{AMS}), 551
- `cyracc.def`, 295
- Cyrillic fonts, 6, 294
 - transliteration, 294
- Czech, 264
- `\d` (, accent), 27, 489
- `\dag`, 27, 489
 - dagger, 27
- `\dagger`, 127, 489
 - Dahlgren, Mats, 179
- `\daleth` (\mathcal{AMS}), 552
 - Daly, Patrick W., 217, 238
 - Danish, 264
 - DANTE, German-speaking \TeX Users, 263
 - dash, 26
 - as hyphen, 26
 - as minus sign, 26
 - `\dashbox` (picture), 300, 302, 309, 489
 - dashjoin environment (epic), 311, 313
 - `\dashleftarrow` (\mathcal{AMS}), 551
 - `\dashline` (epic), 311, 312
 - `\dashlinestretch` (epic), 313
 - `\dashrightarrow` (\mathcal{AMS}), 551
 - `\dashv`, 128, 129, 489
 - database, *see* bibliographic database
 - `\date`, 55, 57, 70, 347, 350, 357, 489
 - `\datelang` (nonstandard), 267, 442, 490
 - .dat file, 265
 - `\day` (\TeX), 30, 442
 - `\dbinom` (\mathcal{AMS}), 276, 490
 - `\dblfigrule`, 173, 490
 - `\dblfloatpagefraction`, 172, 490
 - `\dblfloatsep`, 172, 490
 - `\dbltextfloatsep`, 172, 490
 - `\dbltopfraction`, 172, 490, 555
 - `dbltopnumber`, 172, 490
 - DC fonts, *see* EC fonts
 - dcolumn package, 116, 388
 - dd (didôt), 25
 - `\ddag`, 27, 490
 - `\ddagger`, 127, 490
 - `\ddddot` (\mathcal{AMS}), 274, 491
 - `\dddots` (\mathcal{AMS}), 274, 490
 - `\ddot`, 131, 491
 - `\ddots`, 125, 491
 - de Boer, Ingo H., 15
 - DEC Multinational coding, 443
 - declaration, 24
 - local, 24
 - scope of, 24
 - `\DeclareBoldMathCommand` (bm), 387
 - `\DeclareErrorFont`, 415
 - `\DeclareFixedFont`, 355
 - `\DeclareGraphicsExtensions`
 - (graphics), 164, 491
 - `\DeclareGraphicsRule` (graphics), 165, 491
 - `\DeclareInputMath` (inputenc), 443
 - `\DeclareInputText` (inputenc), 443

568 INDEX

- `\DeclareMathAlphabet`, 409
- `\DeclareMathOperator` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 279, 293
- `\DeclareOption`, 353, 414, 432, 491
- `\DeclareOption*`, 353, 432, 433, 491
- `\declarepostamble` (DocStrip), 446
- `\declarepreamble` (DocStrip), 446
- `\DeclareRobustCommand`, 434, 491
- `\DeclareRobustCommand*`, 435, 491
- `\DeclareTextCommand`, 410
- `\def` (\TeX), 429, 435, 439
- `\DefaultTransition` (prosper), 334
- .def file, 153, 265, 379, 386, 391
- `\definecolor` (color), 166, 341, 492
- `\deg`, 130, 492
 - dehyphn.tex, 268
 - dehyphnt.tex, 268
- delarray package, 117, 388
- `\DeleteShortVerb` (shortvrb), 82, 386, 449, 492
- `\Delta`, 127, 492
- `\delta`, 127, 492
- `\depth`, 86, 90, 492
- `\DescribeEnvironment` (doc), 449
- `\DescribeMacro` (doc), 449
 - description environment, 70, 71, 74, 79, 226, 412, 476
- `\det`, 130, 291, 492
 - determinant, 135-137
- `\dfrac` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 275, 492
- `\DH`, 371, 492
- `\dh`, 371, 492
 - diacritical marks, *see* accents
- `\diagdown` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 553
- `\diagup` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 553
- `\Diamond`, 127, 129, 492
- `\diamond`, 127, 492
- `\diamondsuit`, 129, 492
- `\digamma` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 552
- `\dim`, 130, 492
- `\DisableCrossrefs` (doc), 451
- `\discretionary`, 38, 493
- `\displaybreak` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 289, 493
 - displayed formula, 121
 - displayed text
 - centered, 68
 - indented, 68
 - left or right justified, 68
 - nested, 69
 - displaymath environment, 122, 477
 - `\displaystyle`, 143, 147, 150, 275, 493
 - `\displayVersion` (prosper), 334
 - `\div`, 127, 493
 - `\divideontimes` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 551
 - `\DJ`, 371, 493
 - `\dj`, 371, 493
 - doc package, 386, 392, 431, 448-454
 - doc.dtx, 449
 - DocBook DTD, 459
 - `\DocInput`, 449
 - DocStrip, 239, 391, 445-448
 - docstrip.dtx, 448
 - docstrip.tex, 379, 385, 447
 - document class, 41
 - options, 122
 - document environment, 12, 477
 - Document Type Definition, 459
 - document, major subdivisions, 55-60
 - documentation
 - browser, 377
 - integrated, 445, 448
 - with doc, 448-454
 - documentation of packages, 13
 - `\documentclass`, 12, 41, 45, 391, 409, 414, 433, 493
 - `\documentstyle` (\LaTeX 2.09), 411, 414, 463
 - dollar sign, 27, 30
 - `\DoNotIndex` (doc), 451
 - `\dot`, 131, 493
 - `\doteq`, 128, 493
 - `\doteqdot` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 552
 - `\dotfill`, 34, 86, 104, 136, 493
 - `\dotplus` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 551
 - `\dots`, 125, 494
 - `\dots` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 275, 494
 - `\dotsb` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 275, 494
 - `\dotsc` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 275, 494
 - `\dotsi` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 275, 494
 - `\dotsm` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 275, 494
 - dottedjoin environment (epic), 311, 313
 - `\dottedline` (epic), 311, 312
 - double dagger, 27
 - `\doublebarwedge` ($\mathcal{A}\mathcal{M}\mathcal{S}$), 551
 - `\doublebox` (fancybox), 94, 494
 - `\doublerulesep`, 107, 494
 - `\Downarrow`, 129, 134, 494
 - `\downarrow`, 129, 134, 494

- `\dowdownarrows` (\mathcal{AMS}), 551
 - Downes, Michael, 269
- `\downharpoonleft` (\mathcal{AMS}), 551
- `\downharpoonright` (\mathcal{AMS}), 551
 - draft option, 43
 - Drakos, Nikos, 455
- `drawjoin` environment (`epic`), 311, 313
- `\drawline` (`epic`), 160, 311, **312**
- `\drawlinestretch` (`epic`), 313
 - driver, printer, 14, 153, 383, 385, 391
- `.drv` file, 445
- DTD, 459
 - DocBook, 459
 - TEI, 459, 460
- `.dtx` file, 13, 378, 383, 391, 445, 446
- Duchier, Denys, 445
- Dutch, 264
- `.dvi` file, 14, 31, 153, 161, 248, 314, 386, 397, 457
 - `dvipdf`, graphics option, 154
 - `dvipdfm`, PDF driver, 161, 249, 314, 341, 381, 382
 - `dvipdfm`, graphics option, 154, 249
 - `dvips`, graphics option, 154
 - `dvips`, printer driver, 14, 161, 166, 167, 241, 248, 314, 326, 328, 330, 381, 382, 456
 - `dvipsone`, graphics option, 154
 - `dviwin`, graphics option, 154
- e-mail addresses, 82
- `e.tex`, 388, 406
- EC fonts, 369-373, 386
 - calling, 371
 - character assignments, 370
 - special character commands, 371
- `\edef` (\TeX), 439
- `eepic` package, 314-315
- `eepicemu` package, 314
- Eijkhout, Victor, 439, 557
- electron volt, symbol, 33, 191
- electronic documents, 336, 455
- electronic projection, 319
- electronic publishing, 248
- `\ell`, **129**, 494
- `\ellipse` (`eepic`), 315
 - ellipsis, 125
- `\else` (\TeX), 440
 - em dash, 26
 - `\em`, 23, **64**, 67, 424, 465, 494
 - em, 25
 - emacs, 376
 - `\emblema` (`pdfscreen`), 337
 - `\emph`, **64**, 67, 365, 494
 - empty page style, **46**, 322, 328, 346
 - `\emptyset`, **129**, 494
 - `emTeX` for DOS, 376
 - `entex`, graphics option, 154
 - en dash, 26
 - `\EnableCrossrefs` (`doc`), **451**
 - encapsulated PostScript, *see* PostScript
 - `\encl` (`letter`), **347**, 494
 - `\enclname` (`letter`), 347, **441**, 494
 - encoding scheme
 - OML, **368**
 - OMS, **368**
 - OT1, 247, **367**
 - OT2, 294
 - T1, 247, **370**, 371
 - TS1, 247, 372
 - encoding, font attribute, 362
 - `\encodingdefault`, **366**, 371
 - end of line, as a blank, 26
 - `\end`, 23, 66, 409, 494
 - `\endbatchfile` (`DocStrip`), 446
 - `\end{document}`, **12**, 477
 - `\endfirsthead` (`longtable`), **117**, 495
 - `\endfoot` (`longtable`), **117**, 495
 - `\endhead` (`longtable`), **117**, 495
 - `\endinput` (\TeX), 440
 - `\endlastfoot` (`longtable`), **117**, 495
 - `\endpostamble` (`DocStrip`), 446
 - `\endpreamble` (`DocStrip`), 446
 - English, 264
 - `english.ldf`, 267
 - `\enlargethispage`, **37**, 412, 495
 - `\enlargethispage*`, **37**, 495
 - `\ensuremath`, **186**, 187, 411, 439, 495
 - enumerate environment, **70**, **71**, 72-74, 79, 211, 388, 412, 477
 - enumerate package, 74, 388
 - `enumn` counter, 73, 181
 - environment, 23, 475
 - command name as, 23, 476
 - global, 24
 - math, 121
 - nameless, **23**, 64, 65
 - environment environment (`doc`), **450**

570 INDEX

- environment, user-defined, 194-199
 - general comments, 199
 - scope of, 200
 - global, 201
 - local, 201
 - storing, 199
 - with arguments, 196, 197
 - calling, 197
 - with optional argument, 198
 - without arguments, 195
 - calling, 195
- epic package, 311-313
- .eps file, 155
- epsf package, 158
- \epsf (epsfig), 158
- epsfig package, 158
- \epsfig (epsfig), 158
- \epsfxsize (epsfig), 158
- \epsfysize (epsfig), 158
- \epsilon, 127, 495
- \eqcirc ($\mathcal{M}S$), 552
- eqnarray environment, 122, **140**, 143, 211, 281, 413, 477
- eqnarray* environment, 122, **140**, 143, 281, 477
- \eqref ($\mathcal{M}S$), **289**, 495
- \eqslantgtr ($\mathcal{M}S$), 552
- \eqslantless ($\mathcal{M}S$), 552
- \equal (ifthen), **192**, 357
- equation, *see* formula
- equation counter, 181, 288
- equation environment, **122**, 126, 211, 282, 287, 477
- equation number, 122, 282
 - changing hierarchy, 288
 - right or left, 43, 122, 132, 282
 - subnumbered, 289
 - user-defined, 190
 - vertically centered, 143, 283
- equation* environment ($\mathcal{M}S$), **283**
- equations, set of, 135-137
- \equiv, **128**, 495
- error messages
 - basic structure for \TeX , 397
 - continue program, 396
 - emergency stop, 406
 - error indicator, 396
 - error line, 396, 398
 - from \LaTeX , 398-401
 - from \TeX , 395-397
 - from \TeX macros, 401
 - going to deeper levels, 398
 - list
 - hard-to-find errors, 426
 - \LaTeX font errors, 415
 - \LaTeX font warnings, 423-424
 - \LaTeX general errors, 408-413
 - \LaTeX general warnings, 420-422
 - \LaTeX package errors, 413-414
 - \LaTeX package warnings, 422-423
 - \TeX , 416-420
 - \TeX warnings, 424-425
 - mathematical, 406, 407
 - multifile, 407
 - propagation, 402-404
 - stop program
 - with $\I\stop$, 397, 404
 - with editor, 397
 - with X , 397, 404
 - unknown file name, 405, 410
 - user response
 - call editor, 397
 - continue program, 396
 - correction, 397
 - deletion, 397
 - help, 397
 - recommendation, 400
- errorcontextlines counter, 398
- eso-pic package, 341
- Esperanto, 264, 443
- Esser, Thomas, 375
- Estonian, 264
- \eta, **127**, 495
- \eth ($\mathcal{M}S$), 553
- euca1 package, 295-296
- eufrak package, 296
- Euler, Leonhard, 295
- \EUR (europs), **28**, 29, 496
- euro symbol, 28-29, 371, 380, 443
 - PostScript fonts, 28, 380
- \euro (eurosym), **28**, 31, 495
- \EUrofc (europs), **28**, 496
- eurofont.exe, 381
- European Commission, 28
- European paper sizes, 12
- europs package, 28, 380
- eurosans package, 28, 380
- eurosym package, 28, 31

- `\evensidemargin`, 51, 52, 354, 496, 554, 555
- ex, 25
- excludeonly package, 208
- `\excludeonly` (excludeonly), 208
- `\ExecuteOptions`, 164, 432, 496
- executivepaper option, 42
- exercises
 - Chapter 2, 30, 31
 - Chapter 3, 44, 48, 50–52, 57, 60, 62
 - Chapter 4, 69, 73, 74, 79, 82, 84
 - Chapter 5, 93, 98
 - Chapter 6, 104, 112, 114, 119
 - Chapter 7, 123, 125, 126, 131, 134, 136–138, 142, 150
 - Chapter 8, 156, 158, 167
 - Chapter 10, 183, 186, 187, 191, 198
 - Chapter 11, 206, 210, 216
 - Chapter 16, 300, 302, 304, 306, 310
- `\exists`, 129, 496
- `\exp`, 130, 496
- `\expandafter` (T_EX), 440
- explicit names, changing, 441
- exponents, 123
- exscale package, 386
- Extended Computer fonts, *see* EC fonts
- `\externaldocument` (xr), 212, 255
- `\extracolsep`, 105, 106, 119, 496
- `\extrarowheight` (array), 116
- `\extraslang` (nonstandard), 267
- `\extraslidesheight` (color), 329

- Fairbairns, Robin, 50
- falign environment (A_MS), 282, 286, 477
- `\fallingdotseq` (A_MS), 552
- family, font attribute, 66, 362
- `\familydefault`, 366
- fancy page style, 47
- fancybox package, 94–95, 327, 330, 341
- `\fancyfoot` (fancyhdr), 47
- fancyhdr package, 47–48, 259, 328
- `\fancyhead` (fancyhdr), 47
- `\fancyhf` (fancyhdr), 48
- `\fancypage` (fancybox), 94, 496
- `\fancypagestyle` (fancyhdr), 48
- `\fancyput` (fancybox), 330
- `\fbox`, 86, 92–94, 97, 143, 327, 496
- `\fbox` (picture), 307, 308

- `\fboxrule`, 93, 94, 163, 327, 496
- `\fboxsep`, 93, 94, 163, 307, 308, 327, 496
- `\fcolorbox` (color), 166, 328, 497
- .fdd file, 391
- .fd file, 243, 245, 246, 294, 379, 391, 415
- `\fi` (T_EX), 440
- figure, *see* float
- figure counter, 181
- figure caption, *see* float, caption
- figure environment, 62, 117, 169, 173, 182, 211, 410, 411, 421, 477
- figure* environment, 169, 477
- `\figurename`, 441, 497
- figures, list of, 62
- file
 - including, 437
 - inputting safely, 436
 - listing, 437
 - transcript, 14, 53, 206, 209, 392, 395, 436
- file transfer protocol, *see* FTP
- file types
 - .afm, 246
 - .aux, 207, 208, 212, 390, 411, 418, 421, 426
 - .bb1, 217, 221, 228, 390
 - .bib, 227, 390
 - .blg, 391
 - .bst, 217, 218, 228, 238, 391
 - .cfg, 265, 378, 379, 391, 452
 - .clo, 378, 379, 391
 - .cls, 378, 379, 391, 464
 - .dat, 265
 - .def, 153, 265, 379, 386, 391
 - .drv, 445
 - .dtx, 13, 378, 383, 391, 445, 446
 - .dvi, 14, 31, 153, 161, 248, 314, 386, 397, 457
 - .eps, 155
 - .fdd, 391
 - .fd, 243, 245, 246, 294, 379, 391, 415
 - .fmt, 391
 - .gif, 456
 - .glo, 226, 392, 451
 - .gls, 392, 451
 - .gz, 165
 - .html, 456
 - .idv, 457
 - .idx, 223–225, 392, 451

572 INDEX

- .ilg, 392
- .ind, 225, 392
- .ins, 383, 392, 445
- .ist, 379, 392, 451
- .jpeg, 161
- .jpg, 161
- .ldf, 265
- .lof, 62, 178, 392, 426
- .log, 14, 258, 392, 395, 396, 408, 420
- .lot, 62, 392, 426
- .map, 246
- .mbs, 239
- .mf, 247, 383, 393
- .pbm, 456
- .pdf, 161, 249
- .pfa, 246, 383
- .pfb, 243, 246, 247, 383
- .pk, 243, 248, 382, 393
- .pl, 246
- .png, 161
- .ppm, 457
- .ps, 242, 248
- .sty, 9, 12, 44, 378, 379, 445, 464
- .tex, 14, 21, 205, 207, 385, 390, 393, 397, 426
- .tfm, 245, 247, 393
- .toc, 61, 62, 393, 426
- .txt, 378
- .vf, 245, 246, 248, 393
- .vpl, 246
- .zip, 165
- \file (DocStrip), 446
 - filecontents environment, 422, 423, 438, 477
 - filecontents* environment, 438, 478
- \filedate (doc), 452
- fileerr.dtx, 388
- \fileinfo (doc), 452
- \filename (doc), 452
- \fileversion (doc), 452
- \fill, 25, 33, 35, 105, 119, 184, 497
- filler, with dots, rules, spacing, 34
- final option, 43
- \Finale (doc), 450, 454
 - Finnish, 264
- \Finv (*AMS*), 553
- \firsthline (array), 116
- firstpage page style, 356
- fixed length, 24
- flafter package, 171, 386
- \flat, 129, 497
- fleqn option, 43, 122, 126, 149, 150, 282, 291
- float, 119, 169–177
 - caption, 173
 - width, 174
 - causing buffer overflow, 419
 - double columns, 169
 - examples, 118, 174–177
 - figure title, 173
 - head and foot text, 118
 - numbering, 173
 - placement, 118, 169–171
 - style parameter, 171
 - table title, 173
- float package, 177–179
- floatfig package, *see* floatflt
- floatflt package, 179
- floatingfigure environment, 179
- floatingtable environment, 179
- \floatname (float), 178
- \floatpagefraction, 172, 497
- \floatplacement (float), 178
- \floatsep, 172, 497
- \floatstyle (float), 178
- \flushbottom, 51, 497
- flushleft environment, 68, 79, 478
- flushright environment, 68, 79, 478
- \flushright, 99
- Flynn, Peter, 557
- .fmt file, 391
- \fnsymbol, 96, 183, 189, 497
- font
 - slides class, 320
 - amsfonts, 293–296
 - attribute, 65–66, 361–366
 - defaults, 365
 - encoding, 362
 - family, 66, 362
 - series, 66, 362
 - shape, 66, 362
 - size, 65, 362
 - character assignment
 - cmmi10 (math text), 368
 - cmr10 (standard), 367
 - cmsy10 (math symbols), 368
 - EC fonts, 370
 - TC fonts, 372

- commands, 66, 364
- Computer Modern, 8, 65, 293, 363, 366-369
- Cyrillic, 294
- EC, 369-373, 386
 - calling, 371
- encoding, 366-373
- euro, PostScript, 28, 380
- eurosym, 28
- extended, 369-373
- Extended Computer, *see* EC
- \LaTeX , 66
- \LaTeX 2.09 commands, 464
- line spacing for additional, 516
- loading, 67
- Lucida, 244, 367, 369
- magnification, 67
- math, 244, 367
- math alphabets, 134, 270
- MathTime, 244, 369
- NFSS, 361-373
- pixel, 8
- PostScript, 243-248
- standard, 66, 361
- standard line spacing, 65
- TC, 28, 371, 387
- TrueType, 250
- type 1, 8, 28, 241, 250, 380
- type 3, 8, 243, 250
- virtual, 244
- font definition files, 248, 391
- font environment, 66
- font size, 64
 - changing, 64, 361
 - class option, 41
 - declarations, 64
 - in formulas, 146
 - standard line spacing, 65
- font size commands (\LaTeX 2.09), 465
- font style commands (\LaTeX 2.09), 464
- fontenc package, 362, 371, 386
- \fontencoding , 362, 364, 497
- \fontfamily , 362, 363, 364, 497
- fontinst program, 246
- fontmath.cfg, 379
- fontmath.ltx, 379
- \fontseries , 362, 363, 364, 497
- \fontshape , 362, 363-365, 498
- \fontsize , 362, 364, 498
- fontsmpl package, 388
- \FontText (prosper), 334
- \fontText (prosper), 334
- fonttext.cfg, 378
- fonttext.ltx, 378
- \FontTitle (prosper), 334
- \fontTitle (prosper), 334
- foot, 46, 47, 50, 53, 85, 259, 261, 328, 342, 355, 356, 425
 - customizing, 47
- \footheight (\LaTeX 2.09), 554-556
- footnote, 95
 - change markers, 96
 - forbidden mode, 96
 - in minipages, 95, 97
 - in tables, 98
 - marker without text, 96
 - nonstandard, 95
 - standard, 95
 - forbidden, 95
 - standard marker, 95
 - style parameter, 99
 - text external to forbidden mode, 96
- footnote counter, 96, 181, 189
- \footnote , 95, 96, 98, 498
- \footnotemark , 96, 98, 498
- \footnoterule , 100, 498
- \footnotesep , 99, 498
- \footnotesize , 64, 364, 419, 498
- \footnotetext , 81, 96, 97, 98, 498
- \footrulewidth (fancyhdr), 47
- \footskip , 51, 52, 499, 554, 555
- \forall , 129, 499
- \foreignlanguage (babel), 266, 499
- format file, 6, 378, 391, 430
- formula, 121
 - arrays, 135-137, 277
 - blanks within, 122
 - boldface in, 144, 270, 387
 - chemical, 144
 - constants, 122
 - continued fraction, 147, 150, 277
 - continuing dots, 125, 275
 - displayed, 121
 - centered, 43, 122, 291
 - flush left, 43, 122, 291
 - indented, 43
 - ellipsis, 125
 - exponent, 123

574 INDEX

- extra \TeX commands, 138
- fine-tuning, 145–149
 - bracket sizing, 149
 - font size, 146–148
 - horizontal spacing, 145, 280
- font size in, 146
 - detailed, 148
 - simplified, 147
- fraction, 123
- framed, 143
- function names, 130, 279
- Greek letters, 127
- horizontal spacing, 145, 280
- in text, 121
- index, 123
- integral, 124
- limits
 - for 2 sizes, 130
 - multiline, 272
 - positioning, 125, 130
 - with functions, 130
- lowering in, 123
- math style parameters, 149
- matrix, 135–137, 277
- multiline, 122, 139–142
 - bracket sizing, 141, 149
 - breaking, 139
 - centered, 140
 - column separation, 139
 - left part, 141
 - numbered, 140
 - page breaks, 289
 - with \mathcal{AMS} , 281–288
- numbered, 122
- overbrace, 137
- overlining, 137
- raising in, 123
- root, 124, 280
- side-by-side, 143
- subnumbered, 289
- summation, 124
- symbols in, *see* symbols
- text within, 134, 271
- underbrace, 137
- underlining, 137
- variables, 122
- fp \TeX for Windows, 375, 379
- \frac , 123, 147, 189, 275, 499
- fractions, 123
 - with \mathcal{AMS} , 275
- fragile commands, 429, 434
- \frame , 308, 310, 499
- \framebox , 86, 90, 93, 94, 115, 189, 283, 309, 499
- \framebox (picture), 300, 301, 307, 308, 499
- framed formulas, *see* boxed formula
- framed table, 109
- framed text, 86
- French, 264
- french package, 263
- \frenchspacing , 32, 499
- frhyphen.tex, 268
- \from (DocStrip), 446
- \fromname , 357
- \FromSlide (prosper), 335
- \fromslide (prosper), 335
- \frontmatter , 60, 208, 499
- \frown , 128, 499
- ftnright package, 388
- FTP, 455
- function names, 130
 - defining, 279
 - with \mathcal{AMS} , 279
- \fussy , 39, 499
- Galician, 264, 443
- \Game (\mathcal{AMS}), 553
- Γ , 127, 500
- γ , 127, 500
- gather environment (\mathcal{AMS}), 282, 284, 478
- gathered environment (\mathcal{AMS}), 287, 478
- Gaulle, Bernard, 263
- \gcd , 130, 291, 500
- \gdef (\TeX), 439
- \ge , 128, 500
- \generate (DocStrip), 446
- \genfrac (\mathcal{AMS}), 276, 500
- geometry package, 19, 52–53
- \geq , 128, 500
- \geqq (\mathcal{AMS}), 552
- \geqslant (\mathcal{AMS}), 552
- German, 264
 - spelling reform, 38
- german package, 263, 264, 354
- \GetFileInfo (doc), 431, 452, 453
- \gets , 129, 500

- `\gg`, 128, 500
- `\ggg` (\mathcal{AMS}), 552
- `ggl0.ist`, 392, 451
- Ghostscript, 249, 251, 335, 456
- GhostView, 163, 242
- GIF images, 456, 457
- `.gif` file, 456
- `\gimel` (\mathcal{AMS}), 552
- `gind.ist`, 392, 451
- Girou, Denis, 323
- `.glo` file, 226, 392, 451
- glossary, 226
- `\glossary`, 226, 392, 413, 419, 500
- `\glossaryentry`, 226, 392, 500
- `\glossaryname`, 442
- `.gls` file, 392, 451
- `\gnapprox` (\mathcal{AMS}), 553
- `\gneq` (\mathcal{AMS}), 553
- `\gneqq` (\mathcal{AMS}), 553
- `\gnsim` (\mathcal{AMS}), 553
- Goossens, M., 557
- Goualard, Frédéric, 332
- graphics
 - importing files, 154
 - rotation, 156
 - scaling, 155
 - graphics package, 153, 155–157
 - `graphics.cfg`, 164
- `\graphicspath` (graphics), 164
- graphicx package, 157–158
- graphpap package, 310, 386
- graphpaper, 386
- `\graphpaper` (graphpap), 310, 500
- `\grave`, 131, 500
- Greek, 264
- Greek letters, 127, 552
- `grfguide.tex`, 153
- `\grid` (epic), 311, 312
- `\gtrapprox` (\mathcal{AMS}), 552
- `\gtrdot` (\mathcal{AMS}), 552
- `\gtreqless` (\mathcal{AMS}), 552
- `\gtreqqlless` (\mathcal{AMS}), 552
- `\gtrless` (\mathcal{AMS}), 552
- `\gtrsim` (\mathcal{AMS}), 552
- `\guillemotleft`, 371, 500
- `\guillemotright`, 371, 500
- `\guilsinglleft`, 371, 500
- `\guilsinglright`, 371, 500
- Guntermann, Klaus, 339
- Gurari, Eitan M., 457
- `\gvertneqq` (\mathcal{AMS}), 553
- `.gz` file, 165
- gzip program, 165
- `h.tex`, 388, 406
- `\H` (˘ accent), 27, 501
- Haralambous, Y., 557
- Hargreaves, K. A., 557
- harvard package, 218
- `\hat`, 131, 501
- `\hbar`, 129, 501, 553
- `\hbox` (\TeX), 428
- `\hdotsfor` (\mathcal{AMS}), 278
- head, 46, 47, 50, 53, 85, 328, 355, 356, 425
 - customizing, 47
 - right page, 46
- `\headheight`, 51, 52, 354, 356, 501, 554, 555
- heading, 46
 - left page, 46
 - setting values, 50
- headings page style, 46, 47, 58, 60, 322, 328, 346, 356
- `\headrulewidth` (fancyhdr), 47
- `\headsep`, 51, 52, 354, 356, 501, 554, 555
- `\headtoname` (letter), 353, 354, 356, 441, 501
- `\heartsuit`, 129, 501
- Hebrew, 264
- Hebrew letters, 552
- `\height`, 86, 90, 501
- helvet package, 243
- Helvetica, PostScript font, 243, 245, 320, 366
- here package, 179
- `\hfill`, 33, 35, 77, 88, 89, 99, 104, 143, 150, 175, 356, 501
- hhline package, 388
- `\hline`, 106, 109, 111, 112, 115, 501
- `\hoffset` (\TeX), 501, 554–556
- `\hom`, 130, 502
- `\hookleftarrow`, 129, 502
- `\hookrightarrow`, 129, 502
- `\hpagecolor` (background), 341
- `\href` (hyperref), 258
- `\hrulefill`, 34, 91, 104, 502
- `\hslash` (\mathcal{AMS}), 553

576 INDEX

- `\hspace`, 33, 102, 106, 114, 115, 119, 325, 502
- `\hspace*`, 33, 102, 502
- `\hss` (T_EX), 401
 - HTML, 3, 5, 9, 455–458
 - html package, 456
 - .html file, 456
- `\Huge`, 64, 364, 502
- `\huge`, 64, 364, 502
 - Hungarian, 264
- `\hyperbaseurl` (hyperref), 258
- `\hyperdef` (hyperref), 259
- `\hyperimage` (hyperref), 258
- `\hyperlink` (hyperref), 160, 259, 344, 502
 - hyperref package, 83, 160, 218, 251–261, 323, 331, 332, 336, 339
- `\hyperref` (hyperref), 259
 - hyperref.cfg, 258
- `\hypersetup` (hyperref), 253, 258, 340, 502
- `\hypertarget` (hyperref), 259, 344, 502
- hyphen, 26
 - hyphen.cfg, 268, 379
 - babel, 265
 - hyphen.ltx, 379
 - hyphen.tex, 379
 - hyphenation, 37, 418
 - exception list, 38
 - in other languages, 369
 - manual, 38
 - multilingual, 39, 263, 267
 - other languages, 383
 - overflow `\hbox`, 425
 - turning off, 39
 - with accents, 418
- `\hyphenation`, 38, 418, 502
- `\i`, 28, 503
 - Icelandic, 264
- `\idotsint` (A_MS), 272, 503
- .idv file, 457
 - idx.tex, 224, 379, 385
 - .idx file, 223–225, 392, 451
- `\if` (T_EX), 440
- `\ifcase` (T_EX), 440, 442
- `\iff`, 129, 503
- `\iffalse` (T_EX), 449
- `\IfFileExists`, 436, 503
- `\iflanguage` (babel), 266, 503
 - ifthen package, 191–194, 353, 386, 429
- `\ifthenelse` (ifthen), 192, 194, 354, 357, 429, 440, 503
- `\iiiint` (A_MS), 272, 505
- `\iiint` (A_MS), 272, 505
- `\iint` (A_MS), 272, 505
- .ilg file, 392
- `\Im`, 129, 503
- `\imageButton` (pdfscreen), 338
- `\imath`, 129, 131, 503
 - importing graphics files, 154–165
 - compressed, 165
 - configuring, 163
 - problems, 161
- `\in`, 128, 503
- in (inch), 25
- `\include`, 182, 207, 208, 210, 212, 221, 390, 396, 404, 406–408, 410, 503
- `\includegraphics`, 156, 158, 159, 161–163, 169, 261, 325, 341
- `\includegraphics` (graphics), 155, 503
- `\includegraphics` (graphicx), 157, 504
- `\includegraphics*` (graphics), 155, 504
- `\includegraphics*` (graphicx), 158
- `\includeonly`, 207, 208, 209, 212, 409, 504
 - including one file in another, 437
- `\indent`, 49, 504
 - indentfirst package, 49, 388
 - index of keywords, 222–225
- `\index`, 222, 223, 225, 385, 386, 392, 413, 419, 504
- `\indexentry`, 223, 392, 504
- `\indexname`, 222, 441, 504
- `\indexspace`, 222, 504
- .ind file, 225, 392
- indices, 123
- `\inf`, 130, 291, 504
- `\infty`, 129, 504
- initex, 6, 263, 265, 268, 378, 391
- input coding, 29, 443
- `\input`, 191, 199, 205, 206, 207, 390, 396, 404, 406–408, 431, 436, 504
 - nested, 206
- inputenc package, 29, 386, 443–444
- `\InputIfFileExists`, 436, 505

- .ins file, 383, 392, 445
- install.txt, 378
- \institution (prosper), 333
- instr-1.tex, 269
- \int, 124, 129, 505
- integral sign, 124
- \intercal ($\mathcal{A}_M\mathcal{S}$), 551
- Internet, 9, 233, 383, 455, 543
 - giving addresses, 82
- \intertext ($\mathcal{A}_M\mathcal{S}$), 271, 505
- \intertextsep, 172, 505
- intlimits option, 272, 290
- Inuit, 443
- invisible commands, 200
- \invisible (slides), 322, 505
- \iota, 127, 505
 - Irish Gaelic, 264
 - ISO math standards, 145
 - ISO-Latin codings, 443
- \isodd (ifthen), 192
- .ist file, 379, 392, 451
- \it (\LaTeX 2.09), 361, 464
 - Italian, 264
 - italic correction, 64, 67
- \itdefault, 365, 505
- \item, 70, 74, 75, 77, 79, 198, 211, 222, 403, 409, 411, 412, 505
- \item[option], 71, 73, 79, 505
- \itemindent, 77, 79, 505, 556
- Itemize environment (prosper), 335
- itemize environment, 70, 71-74, 79, 412, 478
- itemize environment (prosper), 335
- \itemsep, 76, 77, 506, 556
- itemstep environment (prosper), 335
- \itshape, 66, 364, 365, 409, 506
- \j, 28, 506
 - Japanese, 6
 - Jeffrey, Alan, 246
- \jmath, 129, 131, 506
- \Join, 129, 506
- \jot, 149, 506
 - JPEG images, 161, 249, 250
- .jpeg file, 161
- .jpg file, 161
- \jput (epic), 311, 313
- justification, 32, 37
- \k (accent), 371, 506
- \kappa, 127, 506
- \keepsilent (DocStrip), 446
- \ker, 130, 506
 - keyboard input, 209
 - keyboard symbols, 122
- \kill, 102, 506
- Knappen, Jörg, 369
- Kneser, Thomas, 179
- Knuth, Donald E., 6, 7, 121, 152, 215, 366, 375, 557
- Kwok, Conrad, 314
- \L, 27, 506
- \l, 27, 506
- label
 - for bibliography, *see* bibliography entry
 - for lists, *see* list labels
- \label, 59, 132, 140, 177, 182, 211, 259, 289, 389, 421, 422, 506
- \labelenumr, 73, 507
- \labelitemn, 73, 507
- \labelsep, 77, 199, 507, 556
- \labelwidth, 77, 79, 199, 507, 556
- lablst.tex, 212, 379, 385
- \Lambda, 127, 507
- \lambda, 127, 507
- Lamport, Leslie, 7, 75, 191, 205, 215, 225, 226, 238, 427, 448, 558
- landscape environment (lscope), 159
- landscape option, 42, 242
- \landscapeonly (seminar), 326
- \langle, 134, 281, 507
- language.dat (babel), 264, 265, 268, 379
- \language (\TeX), 39, 263, 267, 507
- \languagename (babel), 266
- languages
 - accents and special letters, 27
 - babel, 264
 - Lappish, 443
- \LARGE, 64, 321, 364, 507
- \Large, 64, 364, 507
- \large, 64, 361, 364, 507
- \lasthline (array), 116
- \LaTeX
 - compatibility with 2.09, 386, 391, 411, 464

578 INDEX

- files, 11, 390–393
- installing, 375–380
- logo, 22
- sources, 383
- version 3, 8
- \LaTeX counters
 - enumn, 73, 181
 - chapter, 59, 181, 183
 - equation, 181, 288
 - errorcontextlines, 398
 - figure, 181
 - footnote, 96, 181, 189
 - MaxMatrixCols (\mathcal{AMS}), 277
 - mpfootnote, 97, 181
 - page, 48, 181, 183, 189, 193
 - paragraph, 59, 181
 - part, 59, 181
 - secnumdepth, 59, 61
 - section, 59, 181, 183, 288
 - subparagraph, 59, 181
 - subsection, 59, 181
 - subsubsection, 59, 181
 - table, 181
 - tocdepth, 61
- latex format, 14, 378, 391
- \LaTeX Project Public License, 9
- \LaTeX , 22, 429, 507
- latex.fmt, 379, 391
- latex.ltx, 378, 384, 392, 445
- latex.tex, 448
- \LaTeX 2.09, 7, 8, 49, 67, 153, 158, 320, 323, 386, 415, 421, 429, 432, 434, 463–466
- latex209.def, 391
- \LaTeX 2HTML translator, 455, 460
- \LaTeX 3 Project, 3, 7
- latexbug.tex, 379
- \LaTeX e, 23, 411, 507
- \LaTeX error messages, *see* error messages
- latexsym package, 127, 295, 386, 415
- Latin, 264
- layout package, 50, 388
- \lceil , 134, 508
- .ldf file, 265
- \ldots , 125, 139, 275, 508
- \le , 128, 508
- \leadsto , 129, 508
- left margin, 51, 53
 - two-sided, 51
- \left , 117, 133, 135, 139, 141, 508
- \Leftarrow , 129, 508
- \leftarrow , 129, 508
- \leftarrowtail (\mathcal{AMS}), 551
- \lefteqn , 141, 508
- \leftharpoondown , 129, 508
- \leftharpoonup , 129, 508
- \leftleftarrows (\mathcal{AMS}), 551
- \leftmargin , 76, 77, 79, 80, 508, 556
- \leftmarginn , 80, 508
- \leftmark , 48
- \Leftrightarrow , 129, 508
- \leftrightarrow , 129, 508
- \leftrightarrows (\mathcal{AMS}), 551
- \leftrightharpoons (\mathcal{AMS}), 551
- \leftrightsquigarrow (\mathcal{AMS}), 551
- \leftroot (\mathcal{AMS}), 280, 508
- \leftthreetimes (\mathcal{AMS}), 551
- legalpaper option, 42
- Lehmke, Stephan, 344
- length, 24, 183
 - 0 value, 25
 - fixed, 24
 - rubber, *see* rubber lengths
 - setting, *see* \setlength
 - units of, 24
 - zero, 25
- length, user-defined, 183
- \lengthtest (ifthen), 193
- \leq , 128, 508
- leqno option, 43, 122, 132, 282, 284, 291
- \leqq (\mathcal{AMS}), 552
- \leqslant (\mathcal{AMS}), 552
- \lessapprox (\mathcal{AMS}), 552
- \lessdot (\mathcal{AMS}), 552
- \lesseqgtr (\mathcal{AMS}), 552
- \lesseqgtr (\mathcal{AMS}), 552
- \lessgtr (\mathcal{AMS}), 552
- \lesssim (\mathcal{AMS}), 552
- \let (\TeX), 440
- letter, 345–358
 - closing, 347
 - commands
 - forbidden, 345
 - local, 350
 - standard, 345–349
 - distribution list, 347
 - enclosures, 347
 - house style, 350–358

- LaTeX standard, 345-349
 - letterhead, company, 350-358
 - postscript, 347
 - recipient name and address, 346
 - reference entry, 350
 - return name and address, 345
 - salutation, 347
 - stickers, 349
 - subject entry, 350
- letter class, 41, **345**, 345-358, 385, 441
- letter environment (letter), **346**, 349, 350, 478
- Letter.cls, 353
- letterhead, 346, 350
- Letterpaper option, **42**
- letters
 - Greek, 552
 - Hebrew, 552
- \lfloor, **134**, 508
- \lfoot (fancyhdr), 47
- \lg, **130**, 508
- \lhd, **127**, 509
- \lhead (fancyhdr), 47
- ligatures, 30
 - breaking of, 30
 - Cyrillic, 294
- \lim, **130**, 279, 291, 509
- \liminf, **130**, 291, 509
- \limits, 125, **130**, 272, 291, 509
- \limsup, **130**, 291, 509
- line breaking
 - discouraged, 35
 - encouraged, 35
 - forced, 34
 - with justification, 35
 - suppressed, 32, 35
 - with centered text, 68
 - with extra space, 34
 - with left justification, 68
 - with right justification, 68
- line width, 51, 53
- \line (eepic), 314
- \line (picture), **303**, 304, 409, 422, 509
 - line, black, *see* rules
- \linebreak, **35**, 36, 425, 509
- \linethickness, **309**, 509
- \linewidth, **50**, 54, 158, 159, 325, 509
- Lingnau, Anselm, 177
- list environment, **74**, 77-80, 226, 412, 478
- list labels, 70
 - changing style, 73
 - in lists, 75
- list markers, *see* list labels
- list of references, *see* bibliography
- \listfigurename, **441**, 509
- \listfiles, 206, 431, **437**, 510
- listings, 70-74
- \listof (float), 178
- \listoffigures, **62**, 208, 392, 418, 510
- \listoftables, **62**, 208, 392, 418, 510
- \listparindent, **77**, 79, 510, 556
- lists, 74-80
 - format diagram, 76
 - nested, 71, 72, 79
 - numbered, 75
 - standard label, 75
 - style parameters, 75
 - trivial, 79
 - user's environment, 78
- \listtablename, **441**, 510
- literal text, printing, 81, 386
- live.pdf, 377
- \ll, **128**, 510
- \llap (TeX), 343
- \llcorner (AMS), 552
- \Lleftarrow (AMS), 551
- \lll (AMS), 552
- \ln, **130**, 510
- \lnapprox (AMS), 553
- \lneq (AMS), 553
- \lneqq (AMS), 553
- \lnsim (AMS), 553
- \LoadClass, 353, 391, 414, **431**, 433, 510
- \LoadClassWithOptions, **431**, 510
- \location (letter), 346, 510
- .lof file, 62, 178, 392, 426
- log file, *see* transcript file
- \log, **130**, 510
- .log file, 14, 258, 392, 395, 396, 408, 420
- \Logo (prosper), 334
- \Longleftarrow, **129**, 511
- \longleftarrow, **129**, 511
- \Longleftrightarrow, **129**, 511
- \longleftrightarrow, **129**, 511
- \longmapsto, **129**, 511
- \Longrightarrow, 99, **129**, 511

580 INDEX

- `\longrightarrow`, 129, 511
- longtable environment (longtable), 117, 478
 - longtable package, 117, 388
- `\looparrowleft` ($\mathcal{M}\mathcal{S}$), 551
- `\looparrowright` ($\mathcal{M}\mathcal{S}$), 551
- .lot file, 62, 392, 426
- Lower Sorbian, 264
- lowering text, *see* text
- lowering, in formulas, *see* formula
- `\lozenge` ($\mathcal{M}\mathcal{S}$), 553
- LR box, 85, 87
 - lrbox environment, 87, 411, 479
- `\lrcorner` ($\mathcal{M}\mathcal{S}$), 552
 - lrscape package, 159
- `\Lsh` ($\mathcal{M}\mathcal{S}$), 551
- `\ltimes` ($\mathcal{M}\mathcal{S}$), 551
- ltxdoc class, 385, 436, 452
 - ltxdoc.cfg, 452
 - ltxdoc.dtx, 452
- Lucida fonts, 244, 367, 369
 - lucidabr package, 244
- `\lvert` ($\mathcal{M}\mathcal{S}$), 281, 511
- `\lvert` ($\mathcal{M}\mathcal{S}$), 281, 511
- `\lvertneqq` ($\mathcal{M}\mathcal{S}$), 553
- LyX, 15

- Macintosh, *see* Apple
- macro environment (doc), 450
- macrocode environment (doc), 450
- `\mainmatter`, 60, 208, 511
- `\makebox`, 86, 90, 357, 511
- `\makebox` (picture), 160, 300, 301, 308, 309, 511
 - makebst.tex, 239
- `\makeglossary`, 226, 392, 409, 511
- makeidx package, 225, 386, 392, 441
- MakeIndex, 15, 225–226, 376, 382, 386, 392, 451, 504
 - options, 225
 - style file, 226
- `\makeindex`, 223, 224, 390, 392, 409, 511
 - makeindex.tex, 226
- `\makelabel`, 75, 77, 511
- `\makelabels` (letter), 349, 511
- `\MakeLowercase`, 512
- `\MakeShortVerb` (shortvrb), 82, 386, 449, 512

- `\maketitle`, 55, 56, 57, 70, 334, 411, 421, 512
- `\MakeUppercase`, 512
 - Maltese, 443
 - Malyshev, Basil, 247
- .map file, 246
- `\mapsto`, 129, 512
 - Marchal, B., 558
 - margin, 51–53
 - marginal notes, 98–100
- `\marginpar`, 98, 99, 410, 411, 413, 421, 512
- `\marginparpush`, 100, 512, 554, 555
- `\marginparsep`, 53, 100, 512, 554, 555
- `\marginparwidth`, 53, 100, 225, 512, 554, 555
- `\margins` (pdfscreen), 337
- `\markboth`, 46, 512
- `\markright`, 46, 60, 512
- markup, 4–5, 11, 14, 21, 195, 205
 - logical, 5, 7, 63, 83, 459
 - typographical, 4, 31, 459
- markup languages, 4
- math accents, 131
- math alphabets, 134, 270
- math conventions, 145
- math environment, 121, 479
- math equation, *see* formula
- math fine-tuning, 145–149
 - bracket sizing, 149
 - font size, 146–148
 - horizontal spacing, 145, 280
 - with $\mathcal{M}\mathcal{S}$, 280
- math formula, *see* formula
- math mode, 121
- math style parameters, 149
- math symbols, *see* symbols
- math variable, *see* formula
- `\mathbb` ($\mathcal{M}\mathcal{S}$), 295
- `\mathbf`, 134, 144, 270, 409, 415, 513
- `\mathcal`, 127, 134, 270, 295, 513
- `\mathfrak`, 296
- `\mathindent`, 43, 122, 126, 143, 149, 291, 513
- `\mathit`, 134, 270, 409, 513
 - MathML, 460
- `\mathnormal`, 126, 134, 513
- `\mathring`, 131, 513
- `\mathrm`, 125, 134, 144, 145, 270, 513

- mathscr option, 296
- `\mathscr`, 296
- `\mathsf`, 134, 145, 270, 513
- mathtime package, 244
- MathTimes fonts, 244, 369
- `\mathtt`, 134, 270, 513
- matrix, 135–137
 - small in text formulas, 139
 - with $\mathcal{M}\mathcal{S}$, 277
- matrix environment ($\mathcal{M}\mathcal{S}$), 277, 479
- `\matrixput` (epic), 311, 312
 - Mattes, Eberhardt, 376
- `\max`, 130, 291, 513
 - MaxMatrixCols counter ($\mathcal{M}\mathcal{S}$), 277
- `\mbox`, 35, 86, 87, 90, 134, 145, 150, 151, 417, 428, 513
- .mbs file, 239
 - McDonnell, Rowland, 246
- `\mddefault`, 365, 513
- `\mdseries`, 66, 365, 514
- `\measuredangle` ($\mathcal{M}\mathcal{S}$), 553
- `\medskip`, 36, 514
- `\medskipamount`, 514
- `\medspace` ($\mathcal{M}\mathcal{S}$), 280, 514
 - merlin.mbs, 238
 - Merz, Thomas, 558
- `\MessageBreak`, 435, 436, 514
- messages
 - error, *see* error messages
 - processing, *see* processing messages
 - to monitor, 209
- METAFONT, 6, 8, 243, 369, 382
- .mf file, 247, 383, 393
- `\mho`, 129, 514, 553
- `\mid`, 128, 514
 - MikTeX for Windows, 375, 380
 - miktex.txt, 378
- `\min`, 130, 291, 514
- minimal class, 385
- minipage environment, 88, 89, 90, 92, 95, 143, 198, 210, 300, 302, 410, 411, 479
- minus sign, 27
- minus, 25, 50, 77
- Mittelbach, Frank, 7, 54, 213, 269, 293, 361, 445, 448, 557
- mm (millimeter), 25
- `\mod` ($\mathcal{M}\mathcal{S}$), 279, 514
- mode
 - left-to-right, 85
 - math, 121
 - paragraph, 88
- `\models`, 128, 514
- `\month` (TeX), 30, 442
- Moore, Ross, 316
- Morgan, Tim, 375
- `\mp`, 127, 514
- mpfootnote counter, 97, 181
- `\mspace` ($\mathcal{M}\mathcal{S}$), 281, 514
- `\mu`, 127, 514
- multicol package, 54–55, 388
- multicols environment, 54, 388, 479
- multicols* environment, 55
- `\multicolumn`, 107, 110–112, 115, 151, 410, 411, 514
- multifile text, 205
 - merging, 205
 - selective processing, 206
- multiline formula, 122, 139, 281–288
- multilingual L^AT_EX, 30, 263–268, 442
- `\multimap` ($\mathcal{M}\mathcal{S}$), 551
- `\multipt` (picture), 299, 300, 301, 303, 304, 419, 515
- `\multiptlist` (epic), 311
 - multline environment ($\mathcal{M}\mathcal{S}$), 282, 479
- `\multlinegap` ($\mathcal{M}\mathcal{S}$), 283, 515
- myheadings page style, 46, 49, 60, 328
- `\myitem` (prosper), 334
- `\nabla`, 129, 515
- name commands, 441
- `\name` (letter), 345, 346, 347, 350, 352, 515
- nameless environment, 23, 64, 65
- namelimits option, 291
- natbib package, 216–221, 456
- natnotes.tex, 221
- `\natural`, 129, 515
- `\ncong` ($\mathcal{M}\mathcal{S}$), 553
- `\narrow`, 129, 515
- `\NeedsTeXFormat`, 353, 414, 423, 428, 430, 515
- `\neg`, 129, 515
 - negation symbols, 128
 - $\mathcal{M}\mathcal{S}$, 553
- `\negmedspace` ($\mathcal{M}\mathcal{S}$), 280, 515
- `\negthickspace` ($\mathcal{M}\mathcal{S}$), 280, 515
- `\negthinspace` ($\mathcal{M}\mathcal{S}$), 280, 515

582 INDEX

- `\neq`, 128, 515
- netpbm library, 456
- network servers, 383
- New Font Selection Scheme, *see* NFSS, *see* NFSS
- `\newboolean (ifthen)`, 193, 194, 353, 440, 515
- newcent package, 243
- NewCenturySchlbk, PostScript font, 243, 245
- `\newcolumntype (array)`, 116
- `\newcommand`, 28, 185, 200, 409, 411, 416, 417, 428, 439, 516
- `\newcommand*`, 435, 516
- `\newcounter`, 24, 75, 77, 182, 189, 201, 409, 411, 516
 - not with `\include`, 208
- `\newenvironment`, 78, 194, 200, 409, 411, 416, 428, 516
- `\newenvironment*`, 435, 516
- `\newfloat (float)`, 177
- `\newfont`, 67, 409, 516
- `\newif (TeX)`, 440
- `\newlength`, 24, 184, 355, 409, 417, 516
- `\newline`, 34, 35, 412, 425, 516
- `\newpage`, 36, 37, 62, 104, 117, 419, 516
 - forbidden, 104
- `\newpagestyle (color)`, 328
- `\newsavebox`, 24, 87, 115, 197, 201, 309, 355, 409, 417, 517
- `\newslice (color)`, 329
- `\newslice (seminar)`, 324
- `\newsliceframe (seminar)`, 327
- `\newtheorem`, 80, 81, 211, 389, 409, 517
- `\newtheorem (amsthm)`, 291
- `\newtheorem* (amsthm)`, 292
- `\newtheoremstyle (amsthm)`, 292
- `\nexists (AMS)`, 553
- NeXt coding, 443
- NFSS, 8, 65, 361–373, 391, 464
 - font attributes, 65–67, 361–366
 - defaults, 365
 - nfssfont.tex, 379, 385
- NG, 371, 517
- ng, 371, 517
- `\ngeq (AMS)`, 553
- `\ngeqq (AMS)`, 553
- `\ngeqslant (AMS)`, 553
- `\ngtr (AMS)`, 553
- `\ni`, 128, 517
- `\nLeftarrow (AMS)`, 551
- `\nleftarrow (AMS)`, 551
- `\nLeftrightarrow (AMS)`, 551
- `\nleftrightharrow (AMS)`, 551
- `\nleq (AMS)`, 553
- `\nleqq (AMS)`, 553
- `\nleqslant (AMS)`, 553
- `\nless (AMS)`, 553
- `\nmid (AMS)`, 553
- `\nobottombuttons (pdfscreen)`, 338
- `\nobreak`, 357
- `\nocite`, 228, 517
- `\noexpand (TeX)`, 440
- `\noextralang (nonstandard)`, 267
- `\nofiles`, 390, 392, 393, 409, 426, 517
- `\noindent`, 49, 517
 - nointlimits option, 290
- `\nolimits`, 130, 291, 517
- `\nolinebreak`, 35, 36, 517
 - nonamlimits option, 291
- `\nonfrenchspacing`, 32, 517
- `\nonumber`, 140, 143, 518
- `\nopagebreak`, 36, 518
- Nordhaug, Hans Fr., 344
- `\normalcolor (color)`, 166, 518
- `\normalfont`, 66, 67, 166, 365, 518
- `\normalmarginpar`, 99, 518
- `\normalsize`, 64, 65, 364, 405, 415, 518
- North Sami, 264
- Norwegian, 264
 - nosumlimits option, 290
- `\not`, 128, 518
- `\notag (AMS)`, 282, 518
 - note environment (seminar), 330
 - note environment (slides), 322, 480
- `\notin`, 128, 518
 - notitlepage option, 43
- `\noxcomment (color)`, 330
- `\nparallel (AMS)`, 553
- `\nprec (AMS)`, 553
- `\npreceq (AMS)`, 553
- `\nrightarrow (AMS)`, 551
- `\nrightharpoon (AMS)`, 551
- `\nshortmid (AMS)`, 553
- `\nshortparallel (AMS)`, 553
- `\nsim (AMS)`, 553
- `\nsubseteq (AMS)`, 553
- `\nsucc (AMS)`, 553

- `\nsucceq` (\mathcal{AMS}), 553
- `\nsupseteq` (\mathcal{AMS}), 553
- `\nsupseteqq` (\mathcal{AMS}), 553
- `\ntriangleleft` (\mathcal{AMS}), 553
- `\ntrianglelefteq` (\mathcal{AMS}), 553
- `\ntriangleright` (\mathcal{AMS}), 553
- `\ntrianglerighteq` (\mathcal{AMS}), 553
- `\nu`, 127, 518
 - `null.tex`, 406
 - numbering in lists, 75
- `\numberwithin` (\mathcal{AMS}), 288, 518
- `\nVDash` (\mathcal{AMS}), 553
- `\nvDash` (\mathcal{AMS}), 553
- `\nvdash` (\mathcal{AMS}), 553
- `\nwarrow`, 129, 519

- `\O`, 27, 519
- `\o`, 27, 519
 - Oberdiek, Heiko, 251
- `\oddsidemargin`, 51, 53, 354, 519, 554, 555
- `\odot`, 127, 519
- `\OE`, 27, 519
- `\oe`, 27, 519
 - ogonek accent, 371
- `\oint`, 129, 519
- `\Omega`, 127, 519
- `\omega`, 127, 519
- `\ominus`, 127, 519
 - OML encoding, 368
 - OMS encoding, 368
 - one-column page formatting
 - for single pages, 53
 - `onecolumn` option, 42
- `\onecolumn`, 53, 519
 - `oneside` option, 42
- `\OnlyDescription` (doc), 449
- `\OnlyDescription` (ltxdoc), 452
- `\onlynotes` (slides), 323, 519
- `\OnlySlide` (prosper), 335
- `\onlySlide` (prosper), 335
- `\onlyslides` (color), 329
- `\onlyslides` (slides), 323, 519
 - Oostrum, Piet van, 47
 - `openany` option, 43
 - `openbib` option, 43
- `\opening` (letter), 347, 350, 357, 519
 - `openright` option, 43
- `\oplus`, 127, 519

- `\OptionNotUsed`, 432, 519
 - options
 - defining, 432
 - global, 45, 433
 - local, 45, 433
 - processing, 432
 - to classes, 41
 - to packages, 45
- `\or` (TeX), 440
- `\originalTeX` (babel), 267
- `\oslash`, 127, 520
 - OT1 encoding, 247, 367
 - `ot1cmr.fd`, 391
 - `ot1enc.def`, 248
 - `ot1ptm.fd`, 248
 - OT2 encoding, 294
 - `otherlanguage` environment (babel), 266
 - `otherlanguage*` environment (babel), 266
- `\otimes`, 127, 520
 - outline fonts, *see* type 1 fonts
- `\oval` (epic), 314
- `\oval` (picture), 305, 306, 309, 422, 520
- `\Ovalbox` (fancybox), 94, 520
- `\ovalbox` (fancybox), 94, 520
- `\overbrace`, 137, 520
 - overbraces in formulas, 137
- `Overfull` `\hbox` warning, 424
- `Overfull` `\vbox` warning, 425
- overlapping text, 86, 159, 343
- overlay environment (slides), 321, 480
- `\overlay` (color), 330
- `\overlay` (pdfscreen), 338
- `\overlays` (prosper), 335
- `\overleftarrow` (\mathcal{AMS}), 274, 520
- `\overleftrightarrow` (\mathcal{AMS}), 274, 520
- `\overline`, 137, 520
 - overlining, 137
- `\overrightarrow` (\mathcal{AMS}), 274, 520
- `\overset` (\mathcal{AMS}), 273, 520
 - `oztex`, graphics option, 154

- `\P`, 27, 521
 - package, 8, 9, 12, 13, 44
 - `afterpage`, 171, 387
 - `alltt`, 82, 386
 - `amsbsy`, 145, 191, 270–271
 - `amscd`, 270, 274, 293

584 INDEX

amsfonts, 127, 295, 415
 amsmath, 191, 269–270
 amsofn, 270, 279–280
 amssymb, 295, 551
 amstext, 270–271
 amsthm, 81, 270, 291–293, 389
 apalike, 218
 array, 116, 387
 avant, 243
 babel, 30, 264–268, 442
 background, 341
 bm, 144–145, 387
 bookman, 243
 calc, 387
 chapterbib, 221
 chicago, 218
 color, 153, 165, 320, 321, 328, 330,
 341, 429
 dcolumn, 116, 388
 delarray, 117, 388
 doc, 386, 392, 431, 448–454
 documentation, 13
 eepic, 314–315
 eepicemu, 314
 enumerate, 74, 388
 epic, 311–313
 epsf, 158
 epsfig, 158
 eso-pic, 341
 eucal, 295–296
 eufrak, 296
 europs, 28, 380
 eurosans, 28, 380
 eurosym, 28, 31
 excludeonly, 208
 exscale, 386
 fancybox, 94–95, 327, 330, 341
 fancyhdr, 47–48, 259, 328
 flafter, 171, 386
 float, 177–179
 floatfig, *see* floatflt
 floatflt, 179
 fontenc, 362, 371, 386
 fontsmpl, 388
 french, 263
 ftnright, 388
 geometry, 19, 52–53
 german, 263, 264, 354
 graphics, 153, 155–157
 graphicx, 157–158
 graphpap, 310, 386
 harvard, 218
 helvet, 243
 here, 179
 hline, 388
 html, 456
 hyperref, 83, 160, 218, 251–261,
 323, 331, 332, 336, 339
 ifthen, 191–194, 353, 386, 429
 indentfirst, 49, 388
 inputenc, 29, 386, 443–444
 latexsym, 127, 295, 386, 415
 layout, 50, 388
 longtable, 117, 388
 lscape, 159
 lucidabr, 244
 makeidx, 225, 386, 392, 441
 mathtime, 244
 multicol, 54–55, 388
 natbib, 216–221, 456
 newcent, 243
 palatino, 243
 parskip, 49–50
 pause, 341–344
 pdfscreen, 336–339
 pp4link, 344
 pstricks, 317
 rotating, 159
 sempdftx, 332
 shortvrb, 82, 386
 showidx, 225, 386
 showkeys, 389
 somedefs, 389
 standard, 386
 syntonly, 386
 tlenc, 386
 tabularx, 116–117, 389
 TeX4ht, 457
 texpower, 344
 textcomp, 28, 371, 387
 theorem, 81, 293, 389
 times, 243, 366
 tracefnt, 387, 424
 upref, 293
 url, 82–83
 varioref, 213–214, 265, 389
 verbatim, 82, 84, 389
 with options, 45

- xr, 212-213, 255, 389
 - xspace, 186, 389
- `\PackageError`, 429, 435, 521
- `\PackageInfo`, 436, 521
 - packages, catalogue of, 13
- `\PackageWarning`, 429, 436, 521
- `\PackageWarningNoLine`, 436, 521
 - page breaking, 36
 - discouraged, 36
 - encouraged, 36
 - forced, 36
 - with justification, 36
 - two columns, 37
 - two-sided, 37
 - with tabbing, 104
 - with figures and tables, 37
 - page counter, 48, 181, 183, 189, 193
 - page format, 50
 - diagrams, 51
 - one-column, 51, 53
 - one-sided, 42
 - setting values, 50
 - two-column, 42, 53
 - two-sided, 42, 53
 - with geometry, 52-53
 - page numbering
 - alphabetic, 48
 - Arabic, 48
 - changing, 48
 - in heading, 46
 - Roman numerals, 24, 48
 - setting, 48
 - suppression of, 46
 - page style
 - align (seminar), 328
 - customizing, 47
 - empty, 46, 322, 328, 346
 - fancy, 47
 - firstpage, 356
 - headings, 46, 47, 58, 60, 322, 328, 346, 356
 - myheadings, 46, 49, 60, 328
 - plain, 46, 48, 322, 328, 346, 356
 - in letters, 346
 - page transitions, PDF, 257, 340
- `\pagebreak`, 36, 37, 104, 179, 290, 521
 - no effect, 104
- `\pagecolor` (color), 166, 328, 330, 521
- `\PageIndex` (doc), 450
- `\pagename` (letter), 353, 354, 356, 441, 521
- `\pagenumbering`, 24, 48, 60, 62, 521
- `\pageref`, 59, 177, 207, 211, 212, 259, 293, 389, 421, 422, 521
- `\pageref*` (hyperref), 259
- `\pagestyle`, 46, 60, 322, 323, 328, 346, 522
 - pagetrans.tex, 340
- pagination, *see* page numbering
- palatino package, 243
 - Palatino, PostScript font, 243, 245
- `\paneloverlay` (pdfscreen), 338
- `\panelwidth` (pdfscreen), 338
- paper size, option, 42
- `\paperheight`, 51, 52, 53, 522, 556
- `\paperwidth`, 51, 52, 53, 193, 522, 556
- `\par`, 26, 357, 412, 418, 434, 522
- paragraph, 11
 - box, 85, 88
- paragraph counter, 59, 181
- paragraph character, 27
- paragraph termination
 - with blank line, 11
 - with `\par`, 26
- `\paragraph`, 58, 522
- `\paragraph*`, 58, 522
- paragraphing
 - extra line space, 11, 25, 49
 - indentation, 11, 49
 - after section command, 49
 - setting, 24, 49
 - suppression of, 49
- `\parallel`, 128, 522
- `\parbox`, 88, 89, 90, 92, 143, 151, 174, 300, 302, 355, 410, 412, 428, 522
- `\parindent`, 24, 49, 79, 522
- `\parsep`, 76, 77, 79, 523, 556
- parskip package, 49-50
- `\parskip`, 25, 49, 79, 183, 357, 523, 556
- part counter, 59, 181
- `\part`, 58, 523
- `\part` (prosper), 334
- `\part*`, 58, 523
- `\partial`, 129, 523
 - Partl, H., 49, 263
- `\partname`, 441, 523
- `\partopsep`, 76, 523, 556

586 INDEX

- PassiveTeX, 460
- \PassOptionsToClass, 353, 433, 523
- \PassOptionsToPackage, 433, 523
 - Patashnik, Oren, 238
- \path, 523
- \path (eepic), 315
- \path (url), 83
- pause package, 341–344
- \pause (pause), 341
- \pausebuild (pause), 344
- \pausecolors (pause), 343
- \pausehighlight (pause), 343
- \pauselevel (pause), 342
- .pbm file, 456
- pc (pica), 25
- PCTeX, 376
- pctex32, graphics option, 154
- pctexhp, graphics option, 154
- pctexps, graphics option, 154
- pctexwin, graphics option, 154
- PDF, 3, 8, 9, 16, 161–162, 241, 248–251, 253, 255–258, 316, 331, 460, 461
 - slide show, 319, 323, 326, 330
 - with PostScript fonts, 247
 - with PPower4, 339
- .pdf file, 161, 249
- pdfL^AT_EX, 250, 320
- pdf_latex format, 250, 379
- pdf_latex.fmt, 379
- \pdfoutput, 250
- \pdfpageheight (pdf_lT_EX), 331
- \pdfpagewidth (pdf_lT_EX), 331
- pdfscreen package, 336–339
- pdf_lT_EX, 6, 16, 250–251, 314, 341, 379, 381, 382, 461
 - graphics inclusion, 161–162
 - with seminar, 331
- pdftex, graphics option, 154, 250
- pdftex.cfg, 250
- pdftex.d_ll, 380
- \PDFtransition (prosper), 334
- Perl, 455
- \perp, 128, 524
- .pfa file, 246, 383
- .pfb file, 243, 246, 247, 383
- \Phi, 127, 524
- \phi, 127, 524
- \Pi, 127, 524
- \pi, 127, 524
- \picsquare (epic), 311, 313
- picture
 - arrow, 304
 - allowed slopes, 304
 - min. length, 304
 - box, 300–302
 - dashed, 300, 302
 - examples, 301, 302
 - framed, 300, 301
 - parbox inside, 302
 - positioning argument, 300, 301
 - unframed, 300, 301
 - with text, 300
 - circle, 304, 305
 - filled, 305
 - open, 305
 - commands, 299–309
 - coordinate system, 297
 - curves, 308
 - elements, 299
 - arrow, 304
 - box, 300–302
 - circle, 304, 305
 - half circle, 306
 - line, 304
 - oval, 305
 - positioning, 299
 - quarter circles, 306
 - repeated, 299
 - text, 300
 - floating, *see* float
 - framed text, 307
 - half circles, 306
 - length unit, 297, 298
 - limited command set, 299
 - line, 304
 - allowed slopes, 303
 - min. length, 304
 - sloping, 303
 - vertical, 303
 - line thickness, 299, 309
 - multiline text, 300
 - ref. point, 300
 - oval, 305
 - examples, 305, 306
 - positioning, 297
 - positioning commands, 299
 - quarter circles, 306

- saving, 309
 - shifting, 311
 - superimposing images, 159
 - vertical text, 307
 - x-axis, 297
 - y-axis, 297
- picture environment, 93, 159, 174, **298**, 299, 304, 305, 308, 311, 419, 422, *480*
 - with offset, **311**
- `\pitchfork` (\mathcal{AMS}), 552
- pixel fonts, 8
- .pk file, 243, 248, 382, 393
- plain bibliography style, 216, 228
- plain format, 391
- plain page style, **46**, 48, 322, 328, 346, 356
- plain.fmt, 391
- plainnat bibliography style, 216, 218, 229
- Plain T_EX, 7, 391, 401
- .pl file, 246
- pltotf program, 246
- vptovf program, 246
- plus, 25, 50, 77, 78
- `\pm`, **127**, 524
- pmatrix environment (\mathcal{AMS}), 277, *480*
- `\pmb` (\mathcal{AMS}), **270**, 524
- `\pmod`, 130, 279, 524
- PNG images, 161, 249, 250
- .png file, 161
- `\pod` (\mathcal{AMS}), **279**, 524
- Podar, Sunil, 311
- poetry, 69
- pointers, 128
- Polish, 264
- Popineau, Fabrice, 375
- `\poptabs`, **103**, 412, 524
- Portable Document Format, *see* PDF
- `\portraitonly` (seminar), 326
- Portuguese, 264
- `\postamble` (DocStrip), 446
- PostScript, 3, 14, 66, 154, 161–163, 241–249, 251, 317, 328, 330–332, 361, 364, 455
 - compressing, 165
 - driver, 153, 154, 161, 164, 167, 241
 - encapsulated, 153, 155, 161–163, 165, 241
 - euro fonts, 28, 380
 - fonts, 243–248, 250, 251, 324, 363, 373, 383
 - installing, 245
 - printer, 242, 248, 314
 - T_EX fonts, 246, 247
 - under NFSS, 243
 - viewer, 163, 242, 314
 - pound sign, **27**, 30, 31, 524
- `\pounds`, **27**, 30, 524
- pp4link package, 344
- .ppm file, 457
- PPower4, 339–344
- `\Pr`, **130**, 291, 524
- preamble, **11**, 206
- `\preamble` (DocStrip), 446
- `\prec`, **128**, 524
- `\precapprox` (\mathcal{AMS}), 552
- `\preccurlyeq` (\mathcal{AMS}), 552
- `\preceq`, **128**, 524
- `\precnapprox` (\mathcal{AMS}), 553
- `\precnsim` (\mathcal{AMS}), 553
- `\precsim` (\mathcal{AMS}), 552
- `\prefacename`, **442**
- preload.cfg, 379
- preload.ltx, 379
- presentation material, *see* slides
- `\prime`, **129**, 524
- print environment (pdfscreen), 338
- `\PrintChanges` (doc), **451**
- printer driver, 14, 153, 383, 385, 391
- `\PrintIndex` (doc), **451**
- `\printindex`, 208, **225**, 392, 524
- `\printlandscape` (seminar), 326
- proc class, 385
- processing messages, 392, 408
- `\ProcessOptions`, 353, **432**, 437, 524
- `\ProcessOptions*`, **432**, 433, 524
- `\prod`, **129**, 139, 525
- programming L^AT_EX, 427–440
 - deferred coding, 433
 - durability, 429
 - error messages, 435
 - examples
 - customized letter, 353–358
 - file checking, 430–431
 - guidelines, 428
 - loading files, 431
 - options, 432–433

588 INDEX

- portability, 427
- robust commands, 434
- warnings, 435
- proof environment (amsthm), 292
- \proofname, 442
- \propto, 128, 525
- prosper class, 332–335
- \protect, 209, 417, 420, 429, **434**, 435, 491, 525
- protected space, 26, 32, 145
- protocol, *see* transcript file
- \providecommand, **186**, 357, 428, 438, 525
- \providecommand*, 435, 525
- \ProvidesClass, 353, 409, 423, **431**, 525
- \ProvidesFile, **431**, 437, 453, 525
- \ProvidesPackage, 409, 423, **431**, 525
- \ps (letter), **347**, 525
- .ps file, 242, 248
- \psfig (epsfig), 158
- psfonts.map, 246
- \Psi, 127, 525
- \psi, 127, 525
- psnfss, PostScript support, 243
- PSTricks, 317, 332
- pstricks package, 317
- pt (point), 25
- \ptsize (seminar), 325
- \pushtabs, **103**, 412, 525
- \put (picture), 159, **299**, 300, 301, 303–308, 311, 526
- \putfile (epic), 311, **313**
- \q bezier, **308**, 526
- \qed (amsthm), 292
- \qedhere (amsthm), 292
- \qedsymbol (amsthm), 292
- \qqquad, 33, 126, 280, 526
- \quad, 33, 126, 280, 526
- quotation environment, 63, **68**, 69, 79, 480
- quotation marks, 26, 32
 - French, 373
- quote environment, 23, 63, **68**, 69, 79, 195, 480
- \quotedblbase, **371**, 526
- \quotesinglbase, **371**, 526
- r.tex, 406
- \r (° accent), 27, 526
 - Radhakrishnan, C. V., 336
- \raggedbottom, 51, 526
- \raggedleft, 68, 526
- \raggedright, 68, 526
- \raggedslides (seminar), 327
 - Rahtz, Sebastian, 153, 158, 159, 251, 323, 460, 557
 - Raichle, Bernd, 263
- \raisebox, **87**, 88, 92, 111, 113, 355, 526
- \raisetag (\mathcal{AMS}), **282**
- raising text, *see* text
- raising, in formulas, *see* formula
- \rangle, **134**, 281, 527
- \rceil, **134**, 527
- \Re, **129**, 527
 - Reckdahl, Keith, 558
- \RecordChanges (doc), **451**
- \ref, 59, 132, 140, 177, 182, 207, **211**, 212, 259, 289, 293, 389, 421, 422, 527
- \ref* (hyperref), 259
 - reference, cross, *see* cross-reference
 - references, list of, *see* bibliography
- \reflectbox (graphics), **156**, 527
- \refname, **441**, 527
- \refstepcounter, **182**, 527
- \reftext... (varioref), 214
 - relational symbols, 128
 - \mathcal{AMS} , 552
- \relax (\TeX), 440
- \renewcommand, 47, **185**, 201, 408, 416, 417, 428, 527
- \renewcommand*, 435, 527
- \renewenvironment, **194**, 201, 408, 416, 428, 527
- \renewenvironment*, 435, 527
- \renewpagestyle (color), 328
 - report class, **41**, 44, 57, 58, 95, 132, 173, 183, 187, 190, 216, 221, 222, 288, 385, 441
 - reqno option, 282, 284, **291**
- \RequirePackage, 393, 414, 423, **431**, 432, 527
- \RequirePackageWithOptions, **431**, 528
- \resizebox (graphics), **156**, 528
- \resizebox* (graphics), 528
- \restylefloat (float), 178
- \reversemarginpar, **99**, 528

- `\rfloor`, 134, 528
- `\rfoot` (fancyhdr), 47
- `\rhd`, 127, 528
- `\rhead` (fancyhdr), 47
- `\rho`, 127, 528
- `\right`, 117, 133, 135, 139, 141, 528
- `\Rightarrow`, 75, 129, 528
- `\rightarrow`, 129, 528
- `\rightarrowtail` (\mathcal{AMS}), 551
- `\rightharpoondown`, 129, 528
- `\rightharpoonup`, 129, 528
- `\rightleftarrows` (\mathcal{AMS}), 551
- `\rightleftharpoons`, 129, 528, 551
- `\rightmargin`, 77, 79, 528, 556
- `\rightmark`, 48
- `\rightrightarrows` (\mathcal{AMS}), 551
- `\rightsquigarrow` (\mathcal{AMS}), 551
- `\rightthreetimes` (\mathcal{AMS}), 551
- `\risingdotseq` (\mathcal{AMS}), 552
- `\rlap` (\TeX), 343
- `\rm` (\LaTeX 2.09), 361, 464
- `\rmdefault`, 243, 365, 366, 528
- `\rmfamily`, 66, 364, 366, 529
 - robust commands, 429, 434
 - Rokicki, Tomas, 158, 161, 241, 375, 558
 - Roman page numbering, 48, 60, 62
- `\Roman`, 73, 75, 96, 183, 191, 529
- `\roman`, 73, 96, 183, 529
 - Romanian, 264
 - roots, 124, 280
 - Rose, Kristoffer H., 316
 - rotate environment (rotating), 159
- `\rotatebox` (graphics), 156, 529
- `\rotatebox` (graphicx), 158
- `\rotateheaderstrue` (seminar), 326
- rotating graphics and text, 156
- rotating package, 159
- Rowley, Chris, 7
- `\Rsh` (\mathcal{AMS}), 551
- `\rtimes` (\mathcal{AMS}), 551
- rubber lengths, 25, 26, 33, 36, 49, 77, 85, 150, 172, 183, 184
- rule box, 85
- `\rule`, 22, 91, 115, 173, 325, 355, 357, 529
- rules
 - horizontal, 91
 - vertical, 91
- Russian, 264, 294
- `\rVert` (\mathcal{AMS}), 281, 529
- `\rvert` (\mathcal{AMS}), 281, 529
- `\S`, 27, 529
 - s.tex, 388, 406
 - Saarela, J., 557
 - Samarin, A., 557
 - sample2e.tex, 379, 385
 - Samuel, Arthur L., 558
- `\savebox`, 87, 92, 201, 529
- `\savebox` (picture), 309, 529
- `\sbox`, 87, 92, 115, 197, 355, 428, 529
- `\sc` (\LaTeX 2.09), 361, 464
- `\scalebox` (graphics), 155, 529
 - scaling graphics and text, 155
- `\scdefault`, 365, 530
- Schenk, Christian, 375
- Schmidt, Walter, 28
- Schöpf, Rainer, 7, 269, 361
- Schrod, J., 263
- Schwarz, Norbert, 369, 558
- Scientific Workplace, 376
- Scottish Gaelic, 264
 - screen environment (pdfscreen), 338
- `\screensize` (pdfscreen), 337
- `\scriptscriptstyle`, 147, 530
- `\scriptsize`, 64, 364, 530
- `\scriptstyle`, 147, 293, 530
- `\scshape`, 66, 365, 530
- `\searrow`, 129, 530
- `\sec`, 130, 530
 - secnumdepth counter, 59, 61
 - section counter, 59, 181, 183, 288
- `\section`, 48, 58, 60, 96, 530
- `\section*`, 58, 530
 - sectioning
 - *-form, 58
 - hierarchy, 58
 - numbering, 58
 - depth of, 59
 - secnumdepth, 59
 - suppression of, 58
 - title, 58
 - short form, 60
 - sectioning commands, 58
- `\see`, 224, 225, 530
- `\seealso`, 224, 530
- `\seename` (makeidx), 441, 531
- `\selectfont`, 363, 364, 365, 531
- selective file processing, 206

590 INDEX

- controlling, 208, 210
- `\selectlanguage (babel)`, 266, 268, 531
- `sem-user.tex`, 323
- `\semcm (seminar)`, 325
- `\semin (seminar)`, 325
- seminar class, 324–332
- `seminar.con`, 331, 332
- sempdftx package, 332
- `sempdftx.sty`, 332
- Serbian, 264
- series, font attribute, 66, 362
- `\seriesdefault`, 366
- servers, *see* network servers
- `\setartlength (seminar)`, 325
- `\setboolean (ifthen)`, 193, 353, 440, 531
- `\setbox (TEX)`, 428
- `\setcounter`, 24, 182, 183, 201, 411, 531
- `\setlength`, 24, 25, 75, 103, 172, 184, 198, 428, 531
- `\setminus`, 127, 531
- `\setslidelength (seminar)`, 325
- `\settodepth`, 184, 531
- `\settoheight`, 184, 531
- `\settowidth`, 184, 189, 198, 531
- `\sf (LATEX 2.09)`, 361, 464
- `\sfdefault`, 243, 365, 366, 532
- `\sffamily`, 66, 321, 364, 366, 532
- `\shadowbox (fancybox)`, 94, 328, 532
- `\shadowsize (fancybox)`, 94, 532
- shape, font attribute, 66, 362
- `\shapedefault`, 366
- `\sharp`, 129, 532
- `shorthnd.tex`, 239
- `\shortmid (AMS)`, 552
- `\shortparallel (AMS)`, 552
- `\shortstack`, 307, 308, 532
- shortvrb package, 82, 386
- `\shoveleft (AMS)`, 282
- `\shoveright (AMS)`, 282
- showidx package, 225, 386
- showkeys package, 389
- `\sideset (AMS)`, 273, 532
- sideways environment (rotating), 159
- `\Sigma`, 127, 532
- `\sigma`, 127, 532
- `\signature (letter)`, 345, 346, 347, 352, 532
- `\sim`, 128, 532
- `\simeq`, 128, 532
- Simonis, Aleksander, 15
- `\sin`, 130, 532
- `\sinh`, 130, 532
- size, font attribute, 65, 362
- `\sl (LATEX 2.09)`, 361, 464
- `\sldefault`, 365, 532
- slide environment (prosper), 334
- slide environment (seminar), 324, 325, 480
- slide environment (slides), 321, 480
- slide* environment (seminar), 324, 325
- `\slidebottommargin (seminar)`, 327
- `\slideCaption (prosper)`, 334
- `\slidefont (color)`, 328
- `\slideframe (seminar)`, 324, 327
- `\slideframesep (seminar)`, 327
- `\slideframewidth (seminar)`, 327
- `\slideheadfont (color)`, 328
- `\slideleftmargin (seminar)`, 327
- `\slidepagestyle (color)`, 328
- `\slidereset (color)`, 330
- `\sliderightmargin (seminar)`, 327
- slides, 319–335
 - leading page, 321
 - notes, 322
 - overlays, 321–322
 - page styles, 322
 - selective processing, 323
 - special environments, 321–322
- slides class, 320–323, 385
- `\slidesmag (seminar)`, 324
- `\slidetopmargin (seminar)`, 327
- L^AT_EX, *see* slides
- `\sloppy`, 39, 88, 425, 533
- sloppypar environment, 39, 196, 425, 480
- Slovakian, 264
- Slovenian, 264
- `\slshape`, 66, 78, 197, 356, 365, 533
- small environment, 81, 476
- `\small`, 23, 64, 65, 364, 533
- `small2e.tex`, 379, 385
- `\smallfrown (AMS)`, 552
- smallmatrix environment (A_MS), 278
- `\smallsetminus (AMS)`, 551
- `\smallskip`, 36, 533
- `\smallskipamount`, 533
- `\smallsmile (AMS)`, 552
- `\smash (AMS)`, 280, 533

- `\smile`, 128, 533
- Snow, W., 558
- Sojka, Petr, 558
- somedefs package, 389
- source file, 5, 6
- source text, 4, 11, 14, 21
 - sample, 16
- space, *see* blank
- `\space`, 435
- spacing
 - character, 32
 - French spacing, 32
 - horizontal, 33
 - line
 - local change, 35
 - standard, 65
 - manual adjustment, 32
 - paragraph, 11, 25, 49
 - unwanted, 199
 - vertical, 34–36
 - rubber, 35
 - word, 31
 - after period, 32
 - after punctuation, 31
- `\spadesuit`, 129, 533
- Spanish, 264
- Spannagel, Christian, 339
- special characters, 27
- special letters in other languages, 27
- `\special` (T_EX), 153, 242, 314, 457
- spelling, American or British, 194
- `\sphericalangle` (A_MS), 553
- Spivak, M., 558
- Spivak, Michael, 269
- `\spline` (eepic), 315
- split environment (A_MS), 282, 283, 287, 480
- `\sqcap`, 127, 533
- `\sqcup`, 127, 533
- `\sqrt`, 124, 280, 533
- `\sqsubset`, 128, 533
- `\sqsubset` (A_MS), 552
- `\sqsubseteq`, 128, 533
- `\sqsupset`, 128, 533
- `\sqsupset` (A_MS), 552
- `\sqsupseteq`, 128, 533
- square root sign, 124
- `\square` (A_MS), 553
- `\SS`, 27, 529
- `\ss`, 27, 533
- `\stackrel`, 138, 533
- `\star`, 127, 534
- `\stepcounter`, 81, 97, 182, 534
- `\StopEventually` (doc), 450
- `\stretch`, 184, 534
- strut, 91, 112, 114
- `\strut`, 307
- .sty file, 9, 12, 44, 378, 379, 445, 464
- style files (L^AT_EX 2.09), 463
- style parameter
 - float, 171
 - footnote, 99
 - frame box, 93
 - lists, 75
 - marginal note, 100
 - math, 149
 - table, 107
- subarray environment (A_MS), 273, 481
- subequations environment (A_MS), 289, 481
- `\subitem`, 222, 223, 534
- subparagraph counter, 59, 181
- `\subparagraph`, 58, 534
- `\subparagraph*`, 58, 534
- subscript, 123
- subsection counter, 59, 181
- `\subsection`, 48, 58, 181, 534
- `\subsection*`, 58, 534
- `\Subset` (A_MS), 552
- `\subset`, 128, 535
- `\subseteq`, 128, 535
- `\subseteqeq` (A_MS), 552
- `\subsetneq` (A_MS), 553
- `\subsetneqq` (A_MS), 553
- `\substack` (A_MS), 272, 534
- `\subsubitem`, 222, 223, 534
- subsubsection counter, 59, 181
- `\subsubsection`, 58, 534
- `\subsubsection*`, 58, 535
- `\subtitle` (prosper), 333
- `\succ`, 128, 535
- `\succapprox` (A_MS), 552
- `\succcurlyeq` (A_MS), 552
- `\succeq`, 128, 535
- `\succnapprox` (A_MS), 553
- `\succnsim` (A_MS), 553
- `\succsim` (A_MS), 552
- `\sum`, 124, 129, 139, 535

592 INDEX

- sumlimits option, 290
 - summation sign, 124
 - `\sup`, 130, 291, 535
 - superscript, 123
 - `\suppressfloats`, 171, 174, 535
 - `\Supset` (*AMS*), 552
 - `\supset`, 128, 535
 - `\supseteq`, 128, 535
 - `\supseteqq` (*AMS*), 552
 - `\supsetneq` (*AMS*), 553
 - `\supsetneqq` (*AMS*), 553
 - `\surd`, 129, 535
 - `\swapnumbers` (*amsthm*), 292
 - `\swarrow`, 129, 535
 - Swedish, 264
 - `switch.def` (*babel*), 265
 - `\symbol`, 88
 - symbols
 - above one another, 138, 273
 - alternative commands, 444
 - AMS*, 551-553
 - arrows, 128, 273, 293
 - AMS*, 551
 - binary operators, 127
 - AMS*, 551
 - brackets, 133
 - automatic size, 133
 - invisible, 133
 - manual sizing, 149
 - multiline equations, 141, 149, 288
 - direct input, 29, 443
 - integral, 124, 272
 - keyboard, 122
 - letters
 - calligraphic, 127, 295
 - Greek, 127
 - limits, 130, 272
 - miscellaneous, 129
 - negation, 128
 - AMS*, 553
 - pointers, 128
 - relational, 128
 - AMS*, 552
 - summation, 124
 - two sizes, 129
 - `\syntonly` (*syntonly*), 386
 - syntonly* package, 386
 - T1 encoding, 247, 370, 371
 - t1enc* package, 386
 - `t1enc.def`, 371, 391
 - `\t` (˘ accent), 27, 535
 - tab stop, 101
 - tabbing, 101-105
 - accents in, 103
 - additional commands, 103
 - backwards, 102
 - end of line, 101
 - left margin, 102
 - setting, 102
 - nesting, 104
 - page breaking, 104
 - sample line, 102
 - setting stops, 101
 - storing, 103
 - tabbing environment, 101, 103, 104, 409, 412, 413, 419, 481
 - `\tabbingsep`, 103, 535
 - `\tabcolsep`, 107, 115, 535
 - table, 105-119
 - column alignment, 110
 - on decimals, 116
 - construction, 105-107
 - @-expression, 106, 110, 119
 - column formatting, 105, 106
 - column repetition, 106
 - column separation, 106, 107
 - horizontal line, 106, 107
 - math arrays, 135-137
 - merging columns, 107, 110
 - paragraph column, 106, 113
 - row end, 106
 - vertical line, 106, 107
 - vertical positioning, 105
 - examples, *see* table examples
 - extension packages, 116, 387
 - floating, *see* float, 169
 - footnotes inside, 98
 - intercolumn spacing, 106
 - math, 135-137
 - multipage, 117
 - numbering, *see* float, caption
 - setting width, 105, 116
 - style parameter, 107
 - title, *see* float
- table counter, 181
- table environment, 62, 117-119, 169, 173, 182, 211, 410, 411, 421,

- 481
- table examples, 108-115
 - @-expression, 119
 - changing fonts, 111
 - column alignment, 110
 - column format, 108
 - empty box, 114
 - floating, 119
 - framed, 109
 - horizontal line, 109, 111
 - math arrays, 135-137
 - merging columns, 110
 - paragraph column, 113
 - line breaking, 114
 - row termination, 109
 - setting widths, 119
 - text between columns, 110
 - unframed, 108
 - vertical line, 109, 111, 115
 - with all table features, 115
- table of contents, 58, 61
 - automatic entries, 61
 - for figures, 62
 - for tables, 62
 - level of entry, 61
 - tocdepth, 61
 - manual entry, 61
 - printing, 61
- table* environment, 169, 481
- \tablename, 267, 441, 535
- \tableofcontents, 61, 62, 208, 390, 393, 418, 426, 535
- tables, list of, 62
- tabular environment, 10, 98, 105, 108, 109, 111, 116, 179, 307, 355, 356, 387, 410, 411, 416, 417, 419, 420, 481
- tabular* environment, 105, 116, 119, 389, 481
- \tabularnewline, 107, 114, 536
- tabularx environment, 116, 389
- tabularx package, 116-117, 389
- tabulator, *see* tabbing
- \tag ($\mathcal{M}\mathcal{S}$), 282, 527, 536
- \tan, 130, 536
- \tanh, 130, 536
- \tau, 127, 536
- Taylor, Philip, 558
- \tbinom ($\mathcal{M}\mathcal{S}$), 276, 536
- tbtags option, 283, 290
- TC fonts, 28, 371
- tcidvi, graphics option, 154
- TDS, \TeX Directory Structure, 382
- TEI DTD, 459, 460
- \telephone (letter), 346, 350, 536
- testpage.tex, 379, 385
- te \TeX for Unix, 375
- \TeX
 - logo, 23
- \TeX , 6, 391
 - implementations, 375
- \TeX commands, 428
 - adjusting bracket sizes, 149
 - allowed, 439-440
 - \atop, 138, 147, 148, 189
 - avoiding, 429
 - \Big, 149, 483
 - \big, 149, 483
 - \Bigg, 149, 484
 - \bigg, 149, 484
 - \brace, 191
 - \brack, 191
 - \centerline, 68, 176, 401, 486
 - \choose, 138, 147, 148, 189, 191
 - \day, 30, 442
 - \def, 429, 435, 439
 - \edef, 439
 - \else, 440
 - \endinput, 440
 - \expandafter, 440
 - \fi, 440
 - forbidden, 138
 - \gdef, 439
 - \hbox, 428
 - \hoffset, 501, 554-556
 - \hss, 401
 - \if, 440
 - \ifcase, 440, 442
 - \iffalse, 449
 - \language, 39, 263, 267, 507
 - \let, 440
 - \llap, 343
 - \month, 30, 442
 - \newif, 440
 - \noexpand, 440
 - \or, 440
 - \relax, 440
 - \rlap, 343

594 INDEX

- `\setbox`, 428
 - `\special`, 153, 242, 314, 457
 - `\vbox`, 428
 - `\voffset`, 545, 554–556
 - `\xdef`, 439
 - `\year`, 30, 442
- `\TeX`, 23, 536
- `tex.d11`, 380
- TeX4ht program, 457, 459, 460
- TeX4ht package, 457
- TeX error messages, *see* error messages
- `.tex` file, 14, 21, 205, 207, 385, 390, 393, 397, 426
- TeX Live, 4, 13, 159, 247, 339, 375–380, 382, 383, 458, 459
- `texmf.cnf`, 380
- TeXPower, 344
- texpower package, 344
- `texsys.cfg`, 378
- text
 - commands in text, 11
 - comments in, 83
 - components, 11
 - framed, 86
 - in formulas, 134
 - literal, printing, 81, 386
 - lowering, 87
 - math, 121
 - merging, 205
 - multiple files, 205
 - overlapping, 86
 - raising, 87
 - selective processing, 206
 - underlining, 137
 - vertically stacked, 307
 - width calculation, 183
- text companion fonts, 28, 247, 371, 387
- text editor, 4, 21
- text formula, 121
- text height, 51, 53
- `\textsymbol`, 444, 536
- `\text` ($\mathcal{M}\mathcal{S}$), 271, 536
- `\textbf`, 67, 365, 536
- `\textcircled`, 444, 537
- `\textcolor` (color), 166, 328, 537
 - textcomp package, 28, 371, 387
- `\textcompwordmark`, 444, 537
- `\texteuro`, 28
- `\texteuro` (textcomp), 371
- `\textfloatsep`, 172, 537
- `\textfraction`, 172, 537, 554, 555
- `\textheight`, 51, 52, 325, 354, 425, 537, 554, 555
- `\textit`, 67, 365, 537
- `\textmd`, 67, 365, 537
- `\textnormal`, 67, 365, 537
- `\textquotedbl`, 371, 537
- `\textregistered`, 444, 537
- `\textrm`, 67, 365, 537
- `\textsc`, 67, 365, 538
- `\textsf`, 28, 67, 365, 538
- `\textsl`, 48, 67, 365, 538
- `\textstyle`, 138, 147, 275, 538
- `\textsuperscript`, 444, 538
- `\texttrademark`, 444, 538
- `\texttt`, 67, 88, 365, 538
- `\textup`, 67, 365, 538
- Textures, 376
 - textures, graphics option, 154
- `\textwidth`, 25, 51, 52, 183, 193, 325, 354, 538, 554, 555
 - `.tfm` file, 245, 247, 393
- `\tfrac` ($\mathcal{M}\mathcal{S}$), 275, 538
- `\TH`, 371, 538
- `\th`, 371, 538
 - Thành, Hàn Thê, 16, 250, 558
- `\thanks`, 56, 416, 538
- `\the`, 539
- `\thecounter`, 183, 539
- thebibliography environment, 215, 218, 221, 224, 227, 229, 412, 482
- `\thechapter`, 187
- `\theequation`, 190, 288
- `\thefootnote`, 96, 98, 189
- Theiling, Henrik, 28
- theindex environment, 222, 225, 392, 482
- `\thenote` (color), 328, 330
- theorem environment, 80, 482
- theorem package, 81, 293, 389
- theorems, 80
 - with $\mathcal{M}\mathcal{S}$, 291
- `\theoremstyle` ($\mathcal{M}\mathcal{S}$), 292
- `\thepage`, 47, 183, 328, 356
- `\therefore` ($\mathcal{M}\mathcal{S}$), 552
- `\thesection`, 183, 187, 288
- `\theslide` (color), 328, 330

- `\thesubsection`, 187
- `\Theta`, 127, 539
- `\theta`, 127, 539
- `\thickapprox` (\mathcal{AMS}), 552
- `\Thicklines` (eepic), 314
- `\thicklines` (picture), 94, 299, 303, 309, 539
- `\thicksim` (\mathcal{AMS}), 552
- `\thickspace` (\mathcal{AMS}), 280, 539
- `\thinlines` (picture), 94, 299, 309, 539
- `\thinspace` (\mathcal{AMS}), 280, 539
- `\thisfancy page` (fancybox), 95, 539
- `\thispage style`, 24, 46, 323, 328, 357, 539
 - `thmtest.tex`, 292
 - TIFF images, 250
- `\tilde`, 131, 539
 - times package, 243, 366
- `\times`, 127, 539
 - Times-Roman, PostScript font, 243, 245, 366
- `\tiny`, 64, 364, 539
 - title
 - of sections, 58
 - of table, *see* float
 - title page, 43, 55
 - free format, 57
 - standard format, 55
- `\title`, 55, 56, 57, 70, 257, 411, 422, 539
- `\title` (prosper), 333
 - `titlepage` environment, 57, 69, 208, 482
 - `titlepage` option, 43, 57, 345
- `\to`, 129, 539
- `\toaddress`, 352, 357
 - `tocdepth` counter, 61
 - `.toc` file, 61, 62, 393, 426
- `\today`, 30, 31, 39, 267, 357, 442, 539
- `\toname`, 352, 357
- `\toname` (letter), 354, 356
 - top margin, 51, 53
- `\top`, 129, 540
- `\topfigrule`, 172, 540
- `\topfraction`, 172, 540, 554
- `\toplink` (pp4link), 344
- `\topmargin`, 51, 53, 354, 540, 554
 - topnumber, 171, 540
- `\topsep`, 76, 150, 540, 556
- `\topskip`, 51, 540, 554, 555
- `\toptarget` (pp4link), 344
- `\totalheight`, 86, 90, 540
 - totalnumber, 171, 540
- tracefnt package, 387, 424
- transcript file, 14, 53, 392, 395
- transliteration, Cyrillic, 294
- `\triangle`, 129, 541
- `\triangledown` (\mathcal{AMS}), 553
- `\triangleleft`, 127, 541
- `\trianglelefteq` (\mathcal{AMS}), 552
- `\triangleq` (\mathcal{AMS}), 552
- `\triangleright`, 127, 541
- `\trianglerighteq` (\mathcal{AMS}), 552
- trivial lists, 79
 - `trivlist` environment, 79, 482
- `truete x`, graphics option, 154
- TrueType fonts, 250
- TS1 encoding, 247, 372
- `\tt` (\LaTeX 2.09), 67, 361, 464
- `\tt default`, 243, 365, 366, 541
- `\ttfamily`, 66, 364, 366, 541
- TUG, \TeX Users Group, 4, 376, 381
- Turkish, 264, 443
 - turn environment (`rotating`), 159
- `\turnbox` (`rotating`), 159
- two-column page formatting, 42
 - column dividing rule, 43
 - column separation, 43
 - for single pages, 53
- two-sided page formatting, 42, 53
 - left margin, 51
- `twocolumn` option, 37, 42, 44, 54, 98, 99, 345
- `\twocolumn`, 37, 53, 389, 422, 541
- `\twoheadleftarrow` (\mathcal{AMS}), 551
- `\twoheadrightarrow` (\mathcal{AMS}), 551
- `twoside` option, 37, 42, 46, 47, 52, 53, 60, 98, 99
- `.txt` file, 378
- typefaces, *see* fonts
- `\typein`, 209, 210, 541
- `\typeout`, 209, 541
- type 1 fonts, 8, 28, 241, 250, 380
- type 3 fonts, 8, 243, 250
- `\u` (\sim accent), 27, 541
 - `ukhyphen.tex`, 268
 - Ukrainian, 264
- `\ulcorner` (\mathcal{AMS}), 552
- Umeki, Hideo, 52

596 INDEX

- `\unboldmath`, 144, 424, 541
- `\underbrace`, 137, 541
 - underbraces in formulas, 137
 - `Underfull \hbox` warning, 425
 - `Underfull \vbox` warning, 425
- `\underleftarrow` (\mathcal{AMS}), 274, 541
- `\underleftrightarrow` (\mathcal{AMS}), 274, 542
- `\underline`, 137, 355, 542
 - underlining, 137
- `\underrightarrow` (\mathcal{AMS}), 274, 542
- `\underset` (\mathcal{AMS}), 273, 542
- `\unitlength` (picture), 298, 299, 300, 542
 - units of length, 24
 - Unix, 375
- `\unlhd`, 127, 542
- `unpack.ins`, 378
- `\unrhd`, 127, 542
- `unsrt` bibliography style, 228
- `unsrtnat` bibliography style, 218, 229
- `\UntilSlide` (prosper), 335
- `\untilSlide` (prosper), 335
- `\Uparrow`, 129, 134, 542
- `\uparrow`, 129, 134, 542
- `\updefault`, 365, 542
- `\Updownarrow`, 129, 542
- `\updownarrow`, 129, 542
- `\upharpoonleft` (\mathcal{AMS}), 551
- `\upharpoonright` (\mathcal{AMS}), 551
- `\uplus`, 127, 542
 - Upper Sorbian, 264
- `upref` package, 293
- `\uproot` (\mathcal{AMS}), 280, 542
- `\upshape`, 66, 365, 542
- `\Upsilon`, 127, 542
- `\upsilon`, 127, 542
- `\upuparrows` (\mathcal{AMS}), 551
 - Urban, Michael, 558
- `\urcorner` (\mathcal{AMS}), 552
 - `url` package, 82–83
- `\url` (url), 83, 543
- `\urldef` (url), 83
- `\urlid` (pdfscreen), 337
- `\urlstyle` (url), 83, 543
- `\usebox`, 87, 92, 115, 197, 309, 355, 543
- `\usecounter`, 75, 77, 78, 543
- `\usefont`, 363, 543
- `\usepackage`, 12, 28, 45, 199, 219, 389, 406, 409, 411, 414, 423, 431, 543
 - `\usepostamble` (DocStrip), 446
 - `\usepreamble` (DocStrip), 446
 - `ushyphen.tex`, 268
- `\v` (\sim accent), 27, 543
- `\value`, 182, 190, 192, 193, 417, 543
 - van Dongen, Marc, 340
 - van Zandt, Timothy, 94, 317, 323
- `\varepsilon`, 127, 544
 - variable, math, *see* formula
- `\varinjlim` (\mathcal{AMS}), 279, 544
- `varioref` package, 213–214, 265, 389
- `\varkappa` (\mathcal{AMS}), 552
- `\varliminf` (\mathcal{AMS}), 279, 544
- `\varlimsup` (\mathcal{AMS}), 279, 544
- `\varnothing` (\mathcal{AMS}), 553
- `\varphi`, 127, 544
- `\varpi`, 127, 544
- `\varprojlim` (\mathcal{AMS}), 279, 544
- `\varpropto` (\mathcal{AMS}), 552
- `\varrho`, 127, 544
- `\varsigma`, 127, 544
- `\varsubsetneq` (\mathcal{AMS}), 553
- `\varsubsetneqq` (\mathcal{AMS}), 553
- `\varsupsetneq` (\mathcal{AMS}), 553
- `\varsupsetneqq` (\mathcal{AMS}), 553
- `\vartheta`, 127, 544
- `\vartriangle` (\mathcal{AMS}), 553
 - `\vartriangleleft` (\mathcal{AMS}), 552
 - `\vartriangleright` (\mathcal{AMS}), 552
- `\vbox` (T_EX), 428
- `\Vdash` (\mathcal{AMS}), 552
- `\VDash` (\mathcal{AMS}), 552
- `\vdash`, 128, 129, 544
- `\vdots`, 125, 544
- `\vec`, 131, 145, 544
- `\vector` (picture), 160, 304, 305, 308, 309, 409, 544
- `\vee`, 127, 544
- `\veebar` (\mathcal{AMS}), 551
- `\verb`, 81, 386, 413, 544
- `\verb*`, 81, 544
 - verbatim environment, 81, 448, 482
 - in verbatim package, 82, 389
 - verbatim package, 82, 84, 389
 - verbatim* environment, 81, 482
- `\verbatiminput` (verbatim), 82, 389
- verse, 69

- verse environment, 63, **69**, 79, 482
- .vf file, 245, 246, 248, 393
- \vfill, **35**, 544
 - viewgraphs, *see* slides
- \visible (slides), **322**, 545
- \vline, **107**, 115, 545
 - Vmatrix environment (*AMS*), **277**, 482
 - vmatrix environment (*AMS*), **277**, 482
- \voffset (T_EX), 545, 554–556
 - Volovich, Vladimir, 247
- \vpagecolor (background), 341
- \vpageref (varioref), 213, 389, 545
- \vpagerefrange (varioref), 213
- .vpl file, 246
- \vref (varioref), 213, 389, 545
- \vrefrange (varioref), 213
- \vspace, **35**, 92, 325, 357, 412, 545
- \vspace*, **35**, 70, 173, 545
- vtex, graphics option, 154
- \Vvdash (*AMS*), 552
 - Washington, University of, 294
 - Web Consortium, 459
 - Web2c T_EX, 375
 - web2ctex.txt, 378
- \wedge, **127**, 545
 - Welsh, 264
 - what-you-see-is-what-you-get, 4, 376
- \whiledo (ifthen), **192**, 194, 545
 - Wicks, Mark A., 161, 249
- \widehat, 546
- \widetilde, 546
- \width, **86**, 90, 546
 - Williams, Graham, 13
 - Williamson, H. A., 558
 - Windows, 375
 - Windows coding, 29, 443
 - windvi previewer, 154, 243, 314
 - WinEdt, 15, 376
 - WinShell, 15, 376
 - Woliński, Marcin, 445
 - Wooding, Mark, 445
 - word division, *see* hyphenation
 - word spacing, *see* spacing
 - World Wide Web, 5, 8, 9, 455–461
- \wp, **129**, 546
- \wr, **127**, 546
 - x.tex, 388, 406
- \xdef (T_EX), 439
 - xdvi previewer, 15, 154, 243, 314
- \Xi, **127**, 546
- \xi, **127**, 546
- \xleftarrow (*AMS*), **274**, 546
 - XML, 3, 5, 10, 458–461
 - xmltex format, 460
 - xmltex.tex, 460
 - xr package, 212–213, 255, 389
- \xrightarrow (*AMS*), **274**, 546
 - XSL, 5, 459
 - xspace package, 186, 389
 - Xy-pic, 316
- Y&Y, 244, 247, 367, 369, 376
- \year (T_EX), 30, 442
 - Zapf, Hermann, 295
- \zeta, **127**, 546
 - zip program, 165
 - .zip file, 165
 - Zlatuška, Jiří, 558