

General Index

The names of fonts are shown in sans serif type.

- .notdef, 651, 659, 661, 694
- 1530 *Garamond*, 379, 408

- aalt (OT), 564, 815
- AAT, 21, 22, 312, 549, 586–597, 822–877
- ABC, 603
- ABF, 610
- abstract character repertoire, 62
- abvf (OT), 819
- abvm (OT), 578, 815
- abvs (OT), 819
- \accent, 272
- ACFM, 686, 696
- acnt (AAT), 711, 823
- ACR, 62
- Acrobat*, 272, 468
- Acrobat Distiller*, 273, 661
- action, 173, 589
- actual size, 521
- Adobe*
 - Caslon*, 387
 - Garamond*, 378
 - Jenson*, 371
 - Kepler MM*, 677, 680
 - Minion MM*, 284
 - Sans MM*, 197, 331, 468
 - Serif MM*, 197, 331, 468
- Adobe*
 - Expert*, 273, 659
 - Illustrator*, 549, 962
 - Standard*, 266, 607, 659
 - SVGViewer*, 354
- Type Manager*, 191, 196, 215
- Type Reunion*, 199
- correspondence
 - piecewise linear, 678
- advanced typographic features, 492
- advance vector, 11
- AFII, 661
- AFM, 274, 672, 842
- afm2tfm*, 275
- afrc (OT), 555, 815
- age of a character, 97
- AGL, 661
- akhand*, 819
- akhn (OT), 819
- Akzidenz Grotesk*, 396, 421
- Albertus*, 401
- Alessandrini classification, 20
- ALGOL, 30
- algorithm
 - bidirectional, 104, 134, 138
 - of de Casteljau, 964
- alias, 348
- alienne, 413
- alignment, 519, 520, 522, 887
 - with respect to a hint zone, 523
- alignment (VTT), 539
- ALIGNPTS[], 888
- ALIGNRP[], 888
- Allegro*, 418
- all features (AAT), 829
- AllTypographicFeaturesType (AAT), 829
- alphabetic (SVG), 358
- Alsace-Lorraine, 308
- Alte Schwabacher*, 381
- altGlyphItem (SVG), 355
- altGlyph (SVG), 353, 360
- American Mathematical Society, 944
- American occupying army, 403
- AMFM, 681
- Amharic, 75
- AmpersandsOne*,
 - AmpersandsTwo*, 784, 785
- AMST_EX, 944
- anchor, 536, 561, 562, 568, 577
 - entry, 766
 - exit, 766
- annotation, 120
 - interlinear, 140
 - Japanese (AAT), 838
- AnnotationType (AAT), 836
- ANSI, 46
- ANT, 612
- antiqua*, 369
- Antique Olive*, 404
- Antykwa Półtawskiego*, 407, 947, 956–959
- aperture, 4
- apex, 3
- apostrophe, 30
- Apple, 53, 144

- 🍏, 47
Apple Skia, 852, 868
 Arabic, 73, 103, 114, 134, 137,
 139, 142, 298, 333,
 362, 365, 628, 716
 area
 private use, 70, 105
 surrogates, 64
Arial, 211, 396
Arial Unicode, 797
 Aristotelian essentialism, 55
 Aristotelianism, 368
 arm, 3, 4
 Armenian, 73, 112
 arm style, 433
 Arrighi, 374
 arrow, 78
 art deco, 400
 artificial intelligence, 499
 art nouveau, 397
 Ascender, 673
 ascender, 3
 ASCII, 51, 53, 61, 70
AsiaFont Studio, 444
 ASN, 658
 assistance with mathematical
 typesetting (AAT),
 832
 (atend) (PS), 648
ATF Caslon
 471, 387
 540, 387
 ATM, 191, 215
 ATR, 199
 attribute, 315, 347
 ATypI, 367, 411
 Auflage, 104
Auriol, 397
 author
 of a web page, 332
 timid, 822
 autohinting, 515, 517
 automate fini, 862
 automatic application of
 typographic
 conventions (AAT),
 832
 automatic fractions (AAT),
 831
 autorounding (METAFONT),
 930
AutoTrace, 500
autotrace, 444
 autotracing, 499–503
Avant Garde Gothic, 405, 421
 avar (AAT), 711, 850
 AVATAR, 13
 Avestan, 90
 awful thing, 611
 AWK, 947
 axis of interpolation, 677
 axis of variation, 848
 AZERTY, 166

BabelMap, 161, 162
 backslash, 30
 backtrack, 585, 777
 Balinese, 77
 bar, 5
 base 64, 49, 63, 185
 baseline, 11, 445
 BASE (OT), 711, 752, 754
 base resolution, 265
Baskerville, 418
Baskerville 1757, 390
 bastarda, 375, 404
Bâtarde bourguignonne, 376
Batik, 356
batik-ttf2svg, 356, 362
 Baudot
 code, 28
Bauer Bodoni, 392
 Bauhaus, 399
 BBEdit, 183
 bdat (AAT), 621, 710
 BDF, 228, 490, 606, 610, 672
bdftopcf, 610
 bearing, 11
 beauty, 469, 906
 beginchar (METAFONT), 909
 beginning of a word, 298
 beginning of document, 589,
 591
 beginning of line, 589, 591
 behavior of Latin glyphs
 during vertical
 typesetting (AAT),
 838
 bell curve, Gaussian, 669
 belle époque, 397
Bembo, 210, 372, 373, 417
 Bengali, 74
Beton, 400
 Bézier curve, 23, 362, 445,
 461, 639, 961
 bhed (AAT), 711, 740
 bicameral, 111
 bidirectionality, 138
Bifur, 400
 big-endian, 62
Big Five, 43
 binary digit, 27
 bind (PS), 644
 Binhex, 233
 bisection method, 966
 bit, 27
 bit code, 27
 bitmap, 599–621
 bit pattern, 27
Blado, 374
 BlendAxisTypes, 678
 BlendDesignPositions, 678
 bloc (AAT), 621, 711
 block, 96, 120
 BlueFuzz, 509, 511
 BlueScale, 509, 511, 663
 BlueShift, 509, 511, 670
 BlueValues, 509, 511, 662, 679
 blwf (OT), 819
 blwm (OT), 578, 815
 blws (OT), 815
bm2font, 620
 BMP, 70
 BOCU-1, 68
Bodoni Bleifrei, 309
 bodote, 413
 body size, 10, 12
 BOM, 64, 65, 83, 105, 107
bopomofo, 81
 bot (METAFONT), 916
 BOUNDARYCHAR (PL), 629
 bounding box, 290, 294, 302,
 303, 312, 328, 331,
 358, 458, 480, 483,
 494, 600, 603, 606,
 607, 609, 648, 651,
 652, 654, 657, 672,

- 674, 679, 717, 724,
729, 737, 756, 840,
898
- bowl, 4
- bpltozr*, 233
- Brahmi, 90
- braille, 79
- brain, human, 138
- breathing mark and letter, 306
- bsln (AAT), 711, 823
- bubble, 590, 591
- Buginese, 77
- Buhid, 76
- BuildChar, 651–653
- BuildGlyph, 651
- Burmese, 75
- byte, 27
- byte order mark, 83
- bzrto*, 232
- bzrtopl*, 233
- c2pc (OT), 816
- c2sc (OT), 555, 816
- Caledonia*, 395
- CALL [], 891
- callothersubr, 666
- callsubr, 666
- calt (OT), 815
- Cancellaresca*, 374
- Candida*, 420
- CapHeight, 673
- capital, 111
- alternating, 111
 - obligatory, 111
- capitals to small capitals, 555
- Caractères de l'université*, 377
- Caricature, 414
- Carolingian humanist, 369,
371
- case, 111
- lower, 111
 - title, 111
 - upper, 111
- case folding, 113
- common, 113
 - full, 114
 - simple, 114
 - Turkic, 114
- case (OT), 815
- case, type, 9
- Caslon Antique*, 389
- Caslon Old Face*, 387
- category
- general, 98
 - letter, lowercase, 98
 - letter, modifier, 99
 - letter, other, 99
 - letter, uppercase, 98
 - letter, titlecase, 98
 - mark, enclosing, 99
 - mark, non-spacing, 99
 - mark, spacing
 - combining, 99
 - number, decimal digit,
100
 - number, letter, 100
 - number, other, 100
 - other, control, 103
 - other, format, 103
 - other, not assigned, 105
 - other, private use, 105
 - other, surrogate, 105
 - primary, 98
 - punctuation, close, 101
 - punctuation, connector,
100
 - punctuation, dash, 101
 - punctuation, final quote,
101
 - punctuation, initial
quote, 101
 - punctuation, open, 101
 - punctuation, other, 101
 - separator, line, 102
 - separator, paragraph, 102
 - separator, space, 102
 - symbol, currency, 102
 - symbol, math, 101
 - symbol, modifier, 102
 - symbol, other, 102
- cause ☒, 152
- CC, 676
- ccmp (OT), 820
- CCS, 62
- CDL, 153
- cedilla, 38, 72
- CEF, 62
- Centaur*, 13, 275, 323, 371
- Century*, 395, 419
- Century Expanded*, 395
- Century Old Style*, 395
- Century Schoolbook*, 395, 419
- CES, 62
- CESU-8, 65
- CFF, 697
- CFF (format), 697
- CFF (OT), 710, 731
- cffot1*, 233
- c'h, 42, 98
- Cham, 90
- change_width (METAFONT),
932
- change of case (AAT), 830
- changing the order of glyphs
(AAT), 865
- character, 1, 27, 95
- base, 127
 - C* isolated from *B*, 132
 - combining, 61, 127, 167,
604
 - control, 27
 - definition, 54, 55
 - deprecated, 98
 - graphic, 27
 - ideographic description,
80, 151
 - neutral, 139
 - object replacement, 83
 - primary combined, 132
 - primary precomposed,
132
 - replacement, 83
 - special, 83
 - strong, 139
 - weak, 139
 - zero-width joiner, 110
 - zero-width non-joiner,
110
- CharacterAlternativesType
(AAT), 833
- character collection, 498, 687
- character encoding scheme, 62
- character identity, 95
- Character Map*, 161
- character map, 63
- character mapping (OCF), 684
- Character Palette*, 160

- Characters, 673
 CharacterSet, 673
 CharacterShapeType (AAT), 835
 character type
 bidirectional, 139
Charcoal, 588
 CHARDP (PL), 631
 CHARHT (PL), 631
 CHARIC (PL), 631
 Charles de Gaulle Airport, 405
charstring, 665, 672, 688, 690, 692, 697, 699–702, 728
 CharStrings, 657
 CHARWD (PL), 631
 CharWidth, 673
 cheating, 141
 CHECKSUM (PL), 625
Cheltenham, 395, 419
Cheltenham Old Style, 395
 Cherokee, 76
 Chinese, 326, 497, 670, 687, 716
 choice
 among the variants of a glyph (AAT), 833
 of calligraphic level (AAT), 833
 of CJK symbols (AAT), 838
 of digit shapes (AAT), 835
 of glyph for a CJK character (AAT), 835
 of glyph for vertical typesetting (AAT), 830
 of glyph spacing (AAT), 836
 of ideographic spacing (AAT), 837
 of kana spacing (AAT), 837
 of monospaced digits (AAT), 831
 of style (AAT), 835
 of Unicode decomposition (AAT), 837
 choseong, 156
 CHR, 612
chtopx, 612
 CID, 490, 498–499, 686, 696
 cidchar, 693
 CIDFont, 687–689
 CIDFontName, 689
 CIDFontType, 689
 CIDFontVersion, 689
 cidrange, 693
 CIDSystemInfo, 689, 692
 CID type, 688
 CINDEX[], 883
 <circle>, 125
 Cirth, 92
 citrus, 721
Civilité, 380
 CJKRomanSpacingType (AAT), 837
 CJKSymbolAlternativesType (AAT), 838
 CJKVerticalRomanPlacementType (AAT), 838
Clarendon, 13, 397, 419
 class
 combining, 128, 129
 glyph, 567, 571, 582
 justification, 872
 named, 571
 classification
 Alessandrini, 411
 IBM, 367, 416
 Vox, 408
 clavienne, 413
 CLEAR[], 883
 cleartomark, 656
 ClearType, 522, 534
 clig (OT), 815
Cloister Black, 383
Cloister Old Style, 371, 417
 closepath, 666
 CMap, 686, 687, 692, 696
 CMapName, 693
 cmap (TT), 458, 710, 714
 CMapType, 693
 CMapVersion, 693
CM-Super, 266
 CNS1 (character collection), 498
 CNS 11643-1992, 43
 cntrmask, 702
 COBOL, 29
Cochin, 398
Cocoa, 193
 code
 control, 79
 coded character set, 62
codepage, 45
 code page
 437, 45
 850, 45
 1250, 46
 1252, 46
 codespacerange, 693
 code table, 27
 Codex 80, 411–416
 COFFEE[], 891
Colchester, 383
 TrueType
 collection, 709
 TrueType, 709
 color of a CVT entry, 530
 combining grapheme joiner, 107, 117
Commercial Script, 423
 <compat>, 125
 competent authority, 35
 component index, 578
 composing stick, 9
 composition
 dynamic, 61
 ComputerFont, 414
Computer Modern, 13, 240, 263, 406, 616, 617, 652, 935–945
Computer Modern Typefaces, 935
 Computer Museum (Boston), 936
 concatenation of Bézier curves, 640
 config.ps, 269
 considération
 esthétique, 415

- formelle objective, 415
- formelle subjective, 415
- context string, 777
- contextual analysis, 298
- contextual click, 579
- contrast, 430
- conversion, 61, 183, 205, 232
- convertibility, 61
- coordinates
 - polar, 881
- Copperplate Gothic*, 410, 422
- Coptic, 72, 79
- copyright, 16, 332, 356, 365, 454
- Cork, 944
- correct amounts in pixels for the active pen, 932
- correction
 - italic, 242, 259, 631, 784
- correctness
 - political, 365, 720
- counter, 3, 4
 - (PS), 664
- counter control, 513, 670, 701, 702
- Courier*, 13, 892, 936
- CP, 234, 611
- CPI, 601, 611
- cpsp (OT), 815
- crossbar, 5
- CrossFont*, 219
- cross stroke, 5, 370, 372, 391
 - slanted, 410
- CSS, 20, 211, 316, 318–332, 352, 360
- CSS database of fonts, 327
- CTM, 637
- cubism, 400
- cultural stereotype, 413
- culture shock, 133
- currency symbols, 78
- current transformation
 - matrix, 353, 637, 639
- cursive, 562
- cursive attachment, 552, 563, 575, 578, 582, 765
- CursiveConnectionType (AAT), 829
- cursive entry, 578, 582
- cursive exit, 578, 582
- curs (OT), 578
- curs (OT), 818
- curveto (PS), 640
- curve with infinite tension, 913
- cut-in*, 882
- cvar (AAT), 711, 855
- CVT, 530, 855, 882, 883, 889
- cvt, 883, 891
- cvt (TT), 710, 731
- cwsh (OT), 815
- cycle (METAFONT), 911
- cyriot, 86
- Cyrillic, 72
- Dada, 398
- De Aetna*, 372, 377
- debugger for TrueType
 - instructions, 546
- declaration (CSS), 319, 320
- Declaration of Independence, 387
- \DeclareFontFamily, 251
- \DeclareFontShape, 251
- decline of the typographic art, 237
- decomposition
 - canonical, 123, 130
 - compatibility, 123, 125, 130
- Decotype Naskh*, 797, 800
- Deep Thought*, 682
- degree of letterspacing, 674
- Δεκαεξάρια τῆς κάσσας*, 840
- Delbanco Normal-Fraktur, 324
- Delorme*, 654
- δ
 - final, 520, 527
 - medial, 520, 527
- delta_base*, 529, 889
- DELTA1[], 889
- DELTA2[], 535
- DELTA3[], 529, 889, 901
- DELTA4[], 535
- deltapode, 412
- à congés, 412
- delta_shift*, 529, 889, 890
- dénomination préliminaire, 411
- DEPTH[], 883
- depth, 259
- depth of glyph, 631
- Descender, 673
- descender, 4
- description of glyphs (SVG), 360
- Deseret, 85
- désignation préliminaire, 411
- DesignComplexityType (AAT), 833
- DESIGNSIZE (PL), 625
- DESIGNUNITS (PL), 625
- DesignVector, 680
- ð, 41, 57
- Devanagari, 74
- devirtualization, 270, 297
- DFLT (language), 557
- dflt (*VOLT*), 570
- dfont*, 189, 233, 491, 587
- dfontifier*, 206
- diacritical mark, 766
 - combining, 552, 563, 574, 581
 - on a ligature, 553, 564, 575, 582, 771
- diacritical marks, 72
 - multiple, 553, 563, 575, 582, 769
- DiacriticsType (AAT), 831
- diagone, 415
- dictionary, 643
 - current, 643
 - private, 655, 661
 - public, 655, 657
- didone, 5, 390, 401, 402, 406, 410, 413
- Didot point, 12
- difference between characters and glyphs, 59
- difference in the height of the diaeresis, 308
- digital signature, 740
- digital space for writing, 2
- digraph, 98
- DIN 1451*, 401, 405

- direction (METAFONT), 924, 925
 direction of a CVT entry, 530
 dish, 671
 displacement
 of a pair of glyphs, 562
 of a single glyph, 562
 display, 124
 display of diacritical marks (AAT), 831
 distance
 appropriate, 519
 minimum, 519
 distance (VTT), 539
 dist (OT), 819
 đ, 41, 57
 dlig (OT), 554, 816
 Document Object Model, 316
 DOM, 316
 DOS, 601–602, 611
 dot
 hard, 108, 113
 or very short segment 点, 155
 soft, 108
 double link, 520
 downloading, 329, 332
 down (METAFONT), 912
 downstroke, 370, 372, 412
 dragon, 87
 drawdot (METAFONT), 914
 draw (METAFONT), 913
 DSC, 647
 DSIG (TT), 711, 740
 DTD, 315
DTL FontMaster, 442, 444
 DUP[], 883
 DVI, 237, 261, 270, 613, 620, 634
dvicopy, 270
 DVI driver, 238
dvips, 239, 263, 274, 297
 configuration, 267
 DVX, 262
 dynamics of a letter, 918
 Dynamo, 414
Dynamo, 400, 414
dzud rtags bzhi mig can, 56
 ear, 3
 East Asia, 146
 EBCDIC, 31
 EBDT (TT), 621, 710, 733, 736, 737
 EBLC (TT), 621, 711, 733
 EBSC (TT), 621, 711, 739
Eckmann, 398
 ECMA, 404
 ECMAScript, 316
 École Estienne, 237, 379, 441
 Edfu, 90
 EDICT, 150, 161
 efficiency, 59
 Egenolff-Berner catalog, 377
 Egyptian, 396, 410
Ehrhardt, 380
 electronic document, 15, 906
 electronic mail, 48
 element, 119, 315
 embedding, 134, 138, 454
 left-to-right, 140
 right-to-left, 140
 embedding level
 paragraph, 142
 emparecte, 412
 à congés, 412
 encircled glyphs, glyphs in parentheses, etc. (AAT), 836
 encode (METATYPE1), 949
 Encoding (Python), 478
 Encoding, 657
 encoding
 Cork, 246
 font, 651
 fontinst, 280
 for Type 1 font, 659
 NFSS, 280
 Encoding (OCF), 685
 EncodingRecord (Python), 478
 EncodingScheme, 673
 encoding scheme, 65
 endchar, 666, 701
 endchar (METAFONT), 909
 ENDF[], 891
 endianness, 63, 105
 end of a word, 299
English Textura, 382
 entertainment, 414
 entity, 119, 348
 entity reference, 348
 eofill (PS), 642
 EOT, 336, 340
 EPS, 465, 617
 errata, 25
 Esperanto, 303
 ß, 37, 40, 112
 eternal rest, 313
 Etruscan, 85
 ETX, 285, 286
 EUC, 44
 EUC-JP, 64
 EUN, 133
Eurostile, 405
Eusebius, 410, 417
 éventualité, 411, 415
Excelsior, 402, 419
 existential question, 844
 exotype, 414
 ExpansionFactor, 663
 explicit inequalities, 123
 expt (OT), 821
 extended unique identifier, 658
 extender, 110, 797
 extensibility, 907
 Extensible Markup Language, 316
 EXTRASPACE (PL), 626
 eye, 3, 4, 386
 eye 目, 670
 factory of transformations, 464
Fairy, 341
 fairy tale, 272
 falt (OT), 818
 FamilyBlues, 662
 family kind, 425
 FamilyName, 658, 672
 FamilyOtherBlues, 662
 Faux Japanese, 414
 fctb, 601
 FD, 243, 256, 275
 FDEF[], 891
 FDepVector, 685
 fdsc (AAT), 711, 826

- fê, 301
 feat (AAT), 711, 827
 feature, 556
 feature, 550, 557, 713, 787
 (AAT), 589, 591, 827
 advanced typographic,
 341, 344, 497,
 549–597
 definition language, 556,
 565, 568
 (OT), 751
 required, 578
 female circled ☉, 161
 feminization of METAFONT,
 240
FE-Schrift, 405
 fffffff, 550
 FIELDATA, 29
Fifteenth Century, 387
 figure
 lining, 554
 old-style, 273, 554
File Buddy, 532
 filextre, 413
 à congé, 413
 filldraw (METAFONT), 914
 fill (METAFONT), 913
 Fill (METATYPE1), 953
 fill (PS), 642, 647
 film, 1, 16
 fin2 (OT), 818
 fin3 (OT), 818
 <final>, 124
 final sigma, 113
 fina (OT), 819
 find_outlines
 (METATYPE1), 953
Finder, 188
 findfont, 672, 681, 687, 696
 findfont (PS), 645
 finial, 3
 finite automaton, 589–597,
 856
 fire 火, 152
Firmin Didot, 391
 fix_hsbw (METATYPE1), 954
flex, 669, 701
 flex (Type 2), 701
 f-ligature, 82
 flying, 767
 FMapType, 684
 fmtx (AAT), 711, 826
 FNA, 234
 FNT, 234, 490, 602, 604, 612
 vector, 604
 FON, 234, 490, 604
 FOND, 189–191, 601, 672
fondue, 192, 233
 , 124
 FONT, 190, 191, 600, 601
 Font (Python), 476
 font
 accordion, 468
 active (PS), 645
 composite, 684
 generic, 613
 of type ABC, 603
 polymorphic, 226
 psychedelic, 465
 resident, 648
 SVG, 356
 virtual, 267, 270, 285,
 687, 695
 font-emphasize-position
 (CSS), 326
 font-emphasize-style (CSS),
 326
 font-face-format (SVG), 359
 font-face-name (SVG), 359
 font-face-src (SVG), 359
 font-face-uri (SVG), 359
 font-size-adjust (CSS), 323,
 324
 font-size-adjust (SVG), 352
 Font/DA Mover, 190
 FontAgent, 196, 214
 FONTAREA (VPL), 633
 FONTAT (VPL), 633
 FontBBox, 651, 657, 672, 679
 Font Book, 201
 FontBook, 202
 FONTCHECKSUM (VPL), 633
 fontconv, 234
 FONTDEF (DVI), 261
 \fontdimen, 258
 font directory (PS), 645
 Font Doctor, 194
 FONTDSIZE (VPL), 633
 FONT (DVI), 261
 fontedit, 604
 font-effect (CSS), 326
 Font Embedding, 317, 336
 \fontencoding, 245, 249
 font-face (SVG), 356, 358,
 359
 \fontfamily, 243, 249
 font-family (CSS), 320
 font-family (SVG), 352, 358
 FontFlasher, 207, 219
 FontForge, 21, 232, 362,
 488–499, 511,
 546–548, 576–597,
 697
 FontInfo, 651, 658, 679
 fontinst, 275, 277–283, 285–312
 FontLab, 21, 188, 207, 446–488,
 509, 514, 520–529,
 555–669
 FontLab (Python), 473
 font manager, 200, 216
 FontMatrix, 651, 657
 FontName, 651, 658, 672, 681
 FONTNAME (VPL), 633
 Fontographer, 188, 442, 444,
 658, 661
 font rearrangement (CID),
 695
 Font Reserve, 201, 216
 \fontseries, 244, 249
 font server, 204, 222
 \fontshape, 244, 249
 \fontsize, 245, 249
 font-size (CSS), 323
 font-size (SVG), 352, 358
 font-smooth (CSS), 326
 FontSpecific, 673
 font-stretch (CSS), 323
 font-stretch (SVG), 352, 358
 FontStudio, 188, 442, 444, 661
 font-style (CSS), 322
 font-style (SVG), 352, 358
 font (SVG), 356, 357
 font synthesis (CSS), 330
 FontType, 651, 657
 font-variant (CSS), 322
 font-variant (SVG), 352, 358
 font variation, 848

- font war, 743
font-weight (CSS), 322
font-weight (SVG), 352, 358
ForceBold, 511, 664
ForceBoldThreshold, 511
form
 contextual, 114
 encoding, 62, 65
 historical, 554
format, 908
 bitmap, simplest, 611
42, 682
four 四, 100
Fournier, 386
Fournier Tall Caps, 386
fpgm, 891
fpgm (TT), 529, 710, 730
frac (OT), 555, 816
<fraction>, 125
fraction, 555
 alternative, 555
FractionsType (AAT), 831
Fraktur, 381, 384, 393, 394,
 399, 400, 403, 404,
 411
Francesco, 373
Franco-German relations, 308
Franklin Gothic, 396
FreeType, 546
freetype, 230
\ frenchdieresis, 308
French look, 402
\ frenchspacing, 258
frondescent, 147
Frühling, 399
Frutiger, 405
Fry Baskerville, 390
φθoρá, 61, 86
FullName, 658, 672
full-width characters, 125
function, 104
fundamental principle of
 bidirectional
 typesetting, 135
Futura, 207, 399, 421
futurism, 398
fvar (AAT), 712, 848
fwid (OT), 821
Gänsefüßchen, 46
Galliard, 380
gallimaufry, 147
Ganz Grobe Gotisch, 384
garalde, 5, 372, 401–403, 406,
 410
Garamond 3, 377
Garamont, 377
Garamouche, 882
gasp (TT), 459, 711
gate 門, 56
gawk, 947
GB/T 12345-90, 43
GB1 (character collection), 498
GB 2312-80, 43
GC[0], 885
GDEF (OT), 453, 711, 803–806
Gebetbuch, 381
Genesis, 505
Geneva, 600
geographicity, 2
geography of a page, 317
Georgia, 407
Georgian, 75
germane, 413
germanized Garamond, 381
gestuelle
 brossée, 413
 calligraphique, 413
geta, 150
GF, 234, 614, 615, 620, 908
gftodvi, 616, 617
gftopk, 264
gftype, 615, 616, 930
GFV[], 884
ghostscript, 490, 647, 655
GIF, 317
Gilgengart, 403
Gilles Gothic, 423
Gill Sans, 399
Giza Three Three, 396
Glagolitic, 79
Glat, 712
global mask, 460
Gloc, 712
glyf (TT), 710, 728
glyph
 representative glyph, 56
Glyph (Python), 480
\glyph, 289
glyph, 1, 11
 alternate, 353
 base, 578
 base mark, 578
 component, 567, 570
 composite, 730
 contextual, 654
 definition, 55
 innocent, 929
 ligature, 567, 570, 578
 mark, 567, 570, 578
 missing, 107, 290, 356
 representative, 95, 467
 single, 567, 570
GlyphCount, 788
glyph description
 (PS), 665, 680
GlyphDirectory, 683
GlyphGate, 24, 341–344, 365
GlyphGate, 20, 317, 333
glyphgate (CSS), 344
glyph naming, 661
GlyphOrder, 713, 727
glyphRef (SVG), 354
\glyphrule, 289
\glyphspecial, 290
glyph (SVG), 356, 360
glyph type, 567, 570
\glyphwarning, 290
Golden Type, 370, 371, 397,
 410
Gothic, 85
gothic, 403, 404, 408, 410, 411
 Italian, 376
gothic cut by Didot, 393
gothique, 413
Goudy Old Style, 417
Goudy Text, 383
GPOS (OT), 711, 758–781, 798
 lookup 1, 762
 lookup 2, 763
 lookup 3, 765
 lookup 4, 766
 lookup 5, 771
 lookup 6, 769
 lookup 7, 773
 lookup 8, 776
 lookup 9, 780

- GPV[], 884
Grandjean, 385
Grandjean-IN, 385
Granjon, 378
 grapheme base, 117
 grapheme cluster, 117
 grapheme extender, 117
 grapheme extension, 117
 grapheme link, 117
 graphic, 27
 graphics state (PS), 547, 647
 Graphite, 712
Grasset, 397
 gray book, 424
 gray levels, 522
 gray scale, 541
Greco du roi, 376
 Greek, 72
 proper, 77
 Greeklish, 165
 grestore (PS), 647
 grid, 460
 grid-fitting and scan
 procedure, 741
 grotesque, 395
 ground ±, 148
 GRX, 234
 gsave (PS), 647
 GSF, 490
 GSUB (OT), 711, 781–796, 798
 lookup 1, 781
 lookup 2, 783
 lookup 3, 784
 lookup 4, 786
 lookup 5, 787
 lookup 6, 791
 lookup 7, 796
 lookup 8, 794
gucharmap, 163
 Gujarati, 74
 Gurmukhi, 74
Gutenberg Bibelschrift, 368
 gvar (AAT), 712, 851
Gypsy Rose, 422

háček, 38
 half (OT), 820
 half-width characters, 42
 haln (OT), 820

 halt (OT), 821
 handwriting, 500
 hang (baseline), 757
 hanging (SVG), 358
hangul, 19, 75, 82, 148, 155,
 173
 filler, 157
 Hanunóo, 76
 l’Haÿe-les-Roses, 37
 HBF, 234, 609
 hdmx (TT), 458, 711, 741
 head serif, 5
 head (TT), 459, 710, 711, 716,
 717
 Hebrew, 365
 hebrew, 73
 height, 259
 height of glyph, 631
Helvetica, 396, 404, 410, 421
Helvetica Neue, 396
 hhcurveto, 700
 hhea (TT), 710, 717
 hieroglyphic Egyptian, 90
 highway shield, 537
hint, 507–655
 hint, 517, 700, 701, 954
 final δ , 527
 ghost, 667, 701
 global, 507
 individual, 507, 512, 517,
 666
 medial δ , 527
 visual, 520
 visual δ , 527
hinting, 261
 hintmask, 702
 hint mask, 702
 hint replacement, 513, 515,
 668, 701
hiragana, 80, 694
 hist (OT), 786
 histogram, 512
Historical English Textura, 204,
 796
Historical Fell Type, 204
 historicity, 2
 hist (OT), 554, 816
Hitchhiker’s Guide to the Galaxy,
 The, 682

 hkern (SVG), 356, 365
 hkna (OT), 821
 hlig (OT), 816
 hlineto, 666, 700
 hmoveto, 666, 700
 hmtx (TT), 710, 718
 hngl (OT), 821
 Hollerith
 code, 32
 holy Designer, 844
 hood of a Renault, 961
 hook 钩, 155
 horiz-adv-x (SVG), 357
 horiz-origin-x (SVG), 357
 horiz-origin-y (SVG), 357
 horse 馬, horses 羴, 670
 hsbw, 665
 hstem3, 668, 701, 702
 hstem, 666, 701
HTF Didot, 13, 391
 HTML, 20, 261, 315, 317, 318
 HTTP, 51, 63
 humanism, 368, 369
 humanist, 5, 369, 371
 humanistic, 401, 405, 410
 humanist typeface, 370
 hvcurveto, 666, 700
HW Caslon, 13, 387
 hwid (OT), 821
 hybride, 414
 hyphen
 end-of-line, 257
 hyphenation, 103, 258, 272,
 287, 307
 \hyphenchar, 257
Hypnerotomachia Polyphili, 372

 IANA, 49, 63
 IBM, 32
 IBM System/360, 31
 icfb (baseline), 757
 icft (baseline), 757
 ID_Continue, 119
 IDE, 546
 identifier, 119
 ideo (baseline), 757
 ideographs, 162
 ideograph, 2, 56, 81, 146, 148
 nonunified, 148

- unified, 148
- IdeographicAlternativesType (AAT), 838
- ideographic character, 43
- ideographic radicals, 80
- IdeographicSpacingType (AAT), 837
- ideographic square, 365
- ideographic (SVG), 358
- ideographic variants (AAT), 838
- ideographs, 80
- ID_Start, 119
- idtp (baseline), 757
- ignorable, 107
- ignore, 560, 561
- ij, 37
- Ijmegem, 37
- Ikarus*, 380, 442, 452, 461, 490
- imagemask, 621
- image (PS), 643, 647
- impatience 焦, 152
- implicit directional mark, 141
- Imprimerie Nationale, 377
- Imprint*, 389
- incised, 401, 404, 408, 410, 413
 - humanistic, 404
- indicator
 - ideographic variation, 80, 150
- industrial competition, 2
- Infinifont, 424
- Information Processing Society of Japan, 35
- ingwaz*, 56
- inheritance of a CVT entry, 532
- <initial>, 124
- initmatrix (PS), 639
- init (OT), 819
- insertion (AAT), 590, 595, 870
- installation of fonts, 187, 209, 229
- instance, 677
- instruction, 507, 518–548, 879–904
 - δ, 527, 540, 889
 - magical, 888, 903
- instruction stream, 881
- intelligent substitution (CSS), 329
- interlinear
 - annotation, 105
- International Busines Machines, 32
- International Phonetic Alphabet, 72
- interpolation, 520, 526, 539, 888
 - of extremes, 469
 - piecewise linear, 850
- interrobang, 832
- introduce (METATYPE1), 949
- invariance, 907
- invisible separator, 105
- Ionic*, 402
- iota
 - adscript, 99
 - subscript, 98
- IP[], 529, 888, 896, 897
- IPSJ, 35
- IRG, 153
- IRV, 31
- IsCIDFont, 696
- ISECT[], 888
- IsFixedPitch, 673
- isFixedPitch, 658
- IsFixedV, 673
- ISO
 - 2022-JP, 35, 64
 - 639, 88, 362
 - 646, 31, 53, 70
 - 1681, 32
 - 2022, 34, 42–44, 53
 - 3166, 88, 362
 - 8859, 61
 - 9541, 655, 724
 - 10036, 661
 - 10646, 53
 - 8859-1, 36, 51, 70
 - 8859-2, 38, 46
 - 8859-3, 39
 - 8859-4, 40
 - 8859-5, 41
 - 8859-6, 41
 - 8859-7, 41
 - 8859-8, 41
 - 8859-9, 40
- 9541-1, 416
- 8859-10, 40
- 8859-11, 41
- 8859-13, 41
- 8859-14, 42
- 8859-15, 38
- 8859-16, 39
- <isolated>, 125
- isol (OT), 819
- Italian Old Style*, 371
- italic, 373, 374
- ItalicAngle, 658, 673
- ItalicCJKRomanType (AAT), 838
- italics in CJK context (AAT), 838
- ital (OT), 816
- ITC*
 - Bodoni*, 13, 253, 393, 565
 - Seventy-Two*, 565
 - Cheltenham*, 395
 - Garamond*, 378, 395, 417
 - New Baskerville*, 390
- IUP[o], 894, 899
- IUP[], 888
- IUP, 882
- jalt (OT), 816
- jamo*, 156
 - compatibility, 158
- Janson*, 380
- Japan1 (character collection), 498
- Japanese, 42, 53, 326, 497, 670, 687, 709, 716, 824
- jargon
 - of the ISO standard, 655
- Jaugeon*, 385
- Javanese, 90
- JavaScript, 316
- jazz
 - Finnish, 720
- jecorary, 147
- Jenson Old Style*, 371
- JIS
 - C 6220, 42
 - C 6226-1978, 43
 - X 0201-1976, 35, 42, 64
 - X 0201-1997, 498

- X 0208, 148
 X 0208-1978, 35
 X 0208-1983, 35
 X 0208-1990, 498
 X 0208-1997, 43
 X 0212-1990, 43, 498
 X 0213-2000, 43
 X 0213-2004, 498
 Johab, 157
 join control, 110
 joiner, 104
 joining group, 114, 116
 joining type, 114, 115
jongseong, 156
 jp78 (OT), 821
 jp83 (OT), 821
 jp90 (OT), 821
 JSTF (OT), 711, 796–803
JstfPriority, 799
 juge blond qui fume, 721
 Jugenstil, 398
jungseong, 156
 just (AAT), 712, 872
 justification, 258, 872

Kabel, 399
 kaf of impiety, 800
Kama Sutra, 117
 kana, 148
 KanaSpacingType (AAT), 837
kanbun, 81
kanji, 694
 Kannada, 74
kashida, 99, 595, 797
katakana, 42, 80
 katakana, 694
Kaufmann, 423
Kepler MM, 253
Kepler MM Swash, 216
 kerning, 272, 274, 287, 307,
 364, 445, 600
 AAT, 590, 596
 vertical, 365, 497
 KerningPair (Python), 484
 kerning pair, 626
 kern (OT), 816
 kern (TT), 453, 497, 589, 711,
 743
 key
 dead, 167
 function, 168
 mode-changing, 168
 ordinary, 167
 keyboard
 virtual, 164
keycode, 181
 key definition, 171
Keyman, 178
keysym, 181
 Khajuraho, 117
 kharoshthi, 86
 Khmer, 76, 596
 Khubilai Khan, 82
khutsuri, 75
 king's roman, 384
 kir à l'haÿ, 37
 kitsch, 405
 KMN, 178
kobayashi maru, 207
Koch Fraktur, 399
 Koran, 82, 103
 Korea1 (character collection),
 498
 Korean, 53, 326, 497, 670, 687,
 716
Korinna, 415, 419
kpathsea, 264
 KPS 9566-97, 43
 KPX, 676
 KPY, 676
 KS X 1001-1992, 43
Kühne Schrift, 384
kun, 150

 language, 550, 557, 570, 751,
 787
 predefined, 806
LanguageLevel, 651
 language tag, 140
 language tags, 88
Lanston
 Garamont, 379
Lanston
 Garamont, 330
 Lao, 75
 large 木, 152
 L^AT_EX, 237, 240–259, 316
 Latin
 Extended-A, 70
 Extended Additional, 77
 Extended-B, 72
 latin, 375
 Latin-1, 36
 Latin-10, 39
 Latin-2, 38
 Latin-3, 39
 Latin-4, 40
 Latin-5, 40
 Latin-6, 40
 Latin-7, 41
 Latin-8, 42
 Latin-9, 38
 Latinocentrism, 411
 latn (script), 557, 570
 laughing forbidden, 403
 lcar (AAT), 712, 838
 leading, 9
 Le champ fleury, 376
 lecturienne, 416
 left (METAFONT), 912
 legalese, 721
 Le Monde, 406
 Le Monde Journal, 406
 Le Monde Livre, 362, 406
 Le Monde Sans, 407
 Lepcha, 89
 letter, 3
 diagonal, 424
 half-round, 424
 half-square, 424
 quarter-round, 424
 round, 424
 square, 424
 LetterCaseType (AAT), 830
 Letter Gothic, 421
 letterspacing, 274, 674, 842
 lex, 858
 lft (METAFONT), 916
 libiconv, 183
 libido, 158
 Libra, 423
 libxml2, 490
 license, 721
 liga (OT), 554, 557, 816
 \ligature, 287
 ligature, 1, 112, 272, 287, 560,
 572, 580, 626, 786

- discretionary, 554
 simple, 287, 627
 smart, 287, 627
 standard, 554
 Ligatures (AAT), 588
 ligatures (AAT), 829, 869
 LigaturesType (AAT), 829
 /LIG, LIG/, etc., 628
 LIG (PL), 292, 296, 298, 627
 LIGTABLE (PL), 626
 Limbu, 77
 lineale
 incised, 404
 lineal, 396, 405, 406, 410
 neutral, 407
 Linear B, 85
 linear equation, 915
 line break
 prevented, 104
 lineto (PS), 640
 LinguisticRearrangementType
 (AAT), 830
 linguistic relationship, 123
 link, 514, 520, 524, 537
 double, 526
 single, 524
 with a minimum
 distance, 538
 with no minimum
 distance, 538
Linotext, 383
Linotype
 Didot, 324, 391
 Old Style 7, 565
 Palatino, 211
 Linotype, 394
 Linux, 234, 604–606
 liste de renseignements
 d'appoint, 411
 littleendian, 62
 ljmo (OT), 821
 l-l, 38
 lnum (OT), 554, 816
 localisation géographique, 416
 locality, 907
 localized ASCII, 31
 loca (TT), 710, 728
 locl (OT), 816
 logical order exception, 107
Logo, 908
 long s, 554
 lookahead, 585, 777
lookup, 752, 761, 787
 lookup, 550, 557, 570
 substitution, 571
 lookupflag, 559
 LookupList, 761
 Lookup, 761
 LOOPCALL[], 891
 lower case, 3, 9, 111
 obligatory, 111
 lowercase to small capitals,
 555
 LRE, 140, 143
 LRM, 141, 142
 LRO, 140, 143
 LTSH (TT), 711, 742
Lubalin Graph, 420
Lucida, 406
 Fax, 406
 Sans, 225
 ludique, 414
Ludlow Garamond, 378
 Lumitype, 374
Lyonese, 423

MA Bastarda, 375
 Macbinary, 233
MacBinary, 491
 MacCampus Mesrop, 324
 MacCampus Parnavaz, 324
 machinale, 414
 Macintosh, 599–601
 Central European, 48
 Standard Roman, 47
 Mac OS, 144
 Mac OS 9, 187
 Mac OS X, 161, 168, 187, 192
 M^{lle}, 296
 magical instruction, 882, 897
 Malayalam, 74
 management of calligraphic
 variants (AAT), 831
 management of superscripts
 and subscripts
 (AAT), 831
 manual, 411
 MAPFONT (VPL), 633
 MAP (VPL), 633
 mark, 562
 mark
 byte order, 64
 mark (OT), 578, 816
 mark positioning, 578
 above-base, 578
 below-base, 578
 mark-to-mark positioning,
 578
 Marxism-Leninism, 257
 mask, 460
 master design, 677
 MASZE, 112
 math (baseline), 757
 MathematicalExtrasType
 (AAT), 832
 mathematical (SVG), 358
 mathematics
 Arabian, 142
 MathML, 316
 matter 事, 670
Mauritius, 417
Maximilian, 383
 maxp, 883
 maxp (TT), 710, 719
 maxStorage, 883
 May 1968, 308, 374
 MD[0], 885
 MDAP[], 529, 886, 887, 897
 MDRP[], 886, 887, 894, 898
 measure, 9
 mechanistic, 396, 400, 406,
 410
 med2 (OT), 819
 <medial>, 124
 medi (OT), 819
Melior, 403
Memphis, 400
 Meroitic, 92
Messidor, 408
 metadata, 647
MetaFog, 22, 945
 METAFONT, 21, 24, 147, 239,
 256, 263, 266, 406,
 442, 444, 500, 506,
 518, 532, 611, 613,
 616, 632, 855,
 905–945

- logo, 908
- METAFONT78, 612, 944
- Metamorphosis*, 655
- METAPOST, 947
- METATYPE, 906
- METATYPE1, 22, 24, 407, 906, 947–959
- metrics
 - big, 736, 738
 - small, 736, 738
- MetricsSets, 673
- mf2ps*, 945
- mft*, 927, 947, 954
- mftinc*, 927
- mftrace*, 232, 500
- mgrk (OT), 817
- MIAP[], 886, 887, 902, 903
- Microsoft Keyboard Layout
 - Creator, 175
- Microtype Express*, 336
- midpoint, 37
- MIME, 48, 63, 68
- MINDEX[], 883
- MinFeature, 664
- minimalism, 399
- minimum distance, 882
- Minuteman Printshop Caslon Book*, 389
- MIRP[], 529, 881, 886, 894–896, 898, 900–903
- mirroring, 101, 141
- missing-glyph (SVG), 356, 360
- Mistral*, 404, 410, 423
- mkfont*, 948
- mkfontdir*, 228
- mkfontscale*, 230
- mkmk* (OT), 578, 817
- mkproof*, 948, 957
- mktextlsr*, 948
- mktextmf*, 264
- mktextpk*, 264, 265
- mktextfm*, 264
- mmafm*, 233, 284
- MMFX (OT), 710
- mmpfb*, 233, 284
- MMSD (OT), 710
- mode
 - editing, 461
 - measurement, 461
 - METAFONT, 265, 907
 - sketch, 461
 - vector paint, 461
- Modern*, 604
- Modernized Modern*, 945
- mode_setup (METAFONT), 928
- modes.mf, 928
- moelle, 37
- Monaco*, 600
- Mongolian, 76
- monotonic reform, 41, 57, 77
- Monotype*
 - Baskerville*, 390
 - Bodoni*, 392
 - Columbus*, 660
 - Columbus Expert*, 660
 - Devanagari*, 865
 - Garamond*, 377, 564
 - Garamond Cyrillic*, 324
 - Greek 91*, 324
 - Modern*, 241, 840, 935
 - Naskh*, 324
 - Old Style*, 508
 - Scotch*, 394
 - Walbaum*, 394
- Monotype, 394
- Montaigne*, 371
- Morley Buncló, 324
- Morohashi dictionary, 149
- morphing, 469
- Morse
 - code, 28
- mort (AAT), 712, 862
- morx (AAT), 589, 712, 862
- most pleasing curve, 907
- motion of a calligrapher, 919
- MOVEDOWN (VPL), 634
- MOVELEFT (VPL), 634
- MOVERIGHT (VPL), 634
- \mover, 289
- moveto (PS), 640
- \moveup, 289
- MOVEUP (VPL), 634
- moving
 - points, 885
- MPC, 907
- MPEG, 68
- MS-DOS, 214
- mset (OT), 819
- MS Word*, 236
- mt1set*, 948
- MTX, 280, 285, 288
- Multiple Master, 197, 198, 205, 215, 233, 253, 256, 283, 322, 331, 452, 468–471, 565, 677–682, 710, 848
- multiplication, 104
- music
 - ancient Greek, 87
 - Byzantine, 86
 - Western, 87
- Myanmar, 75
- myrtle, 721
- Nafees Nast'aliq*, 794
- nalt (OT), 817
- name
 - character, 96, 120
 - glyph, 651
- namerecord, 720
- Names mode (FontLab), 447
- namespace, 316, 348
- name (TT), 710, 720
- <narrow>, 125
- NASA, 31
- Native Canadians, 76
- Nazism, 403
- Nazism, 401, 403
- nCURVE (Python), 485
- Neutre*, 407
- never enough, 332
- newpath (PS), 640
- new state, 589
- New Tai Le, 77
- New Times Millenium*, 402
- NEXTLARGER (PL), 632
- NFC, 132
- NFD, 131
- nFIXED (Python), 486
- NFKC, 133
- NFKD, 131
- NFNT, 190, 191, 601
- NFSS, 243–259
- Nicolas Cochin*, 13, 398
- N'Ko, 73

- nLck (OT), 821
 nLINE (Python), 485
 nMOVE (Python), 485
 <noBreak>, 124
 node
 FontLab, 484
 nOFF (Python), 485
 ‘n’ of the font *Vendôme*, 918, 948
 noise 𐄂, 152
 non-breaking space, 36
 noncharacter, 106
 noncognate rule, 148
 non-joiner, 104
 non-oriented apostrophe, 30
Normalfraktur, 408
 normalization
 early uniform, 133
 Normalization Form
 C, 132
 D, 131
 KC, 133
 KD, 131
 NormDesignVector, 680
 Notice, 658, 673
 NPUSH[,], 883
 NPUSHB[,], 894
 NPUSHW[,], 883
 nSHARP (Python), 486
 nSMOOTH (Python), 486
 nukt (OT), 820
 number
 acrophonic, 85
 Aegean, 85
 Greek, 85
 magic, 619, 620
 packed, 619
 NumberCaseType (AAT), 835
 NumberSpacingType (AAT), 831
 numeric (METAFONT), 920
Nuskhuri, 80
 nybble, 619

 object (PS), 636
 OCR, 79
OCR-B, 404
odvicopy, 270
advips, 263

 œ, 37, 39, 123
 OFM, 632, 634
 Ogham, 76
ogonek, 38
 Old Cyrillic, 303
Old English, 422
 Old Hungarian, 91
 Old Italic, 85
 old JIS, 43
 Old Persian, 85
 Ω, 19, 24, 235, 236, 263, 312, 554, 614, 628
 ΩTP, 628
on, 150
 onciale, 413
 one —, 100
 onomatopée, 786
 onum (OT), 554, 817
 opbd (AAT), 712, 757, 817
 opbd (OT), 817
 OpenType/CFF, 205
 OpenType, 21, 22, 189, 210, 233, 239, 312, 355, 360, 364, 452, 490, 549–586, 697, 751–822
 Embeddable, 336
 type, 553
 operator
 polymorphic, 700
Operina, 374
 OPL, 632, 634
 optical character recognition, 79
Optima, 199, 252, 401, 403, 404, 410, 421
 optimization
 TFM, 629
 optimizing the rendering, 22
 optional 推, 43
 oration 講, 671, 702
 order and chaos, 251
 Ordering, 689
 order, logical, 60
 ordn (OT), 817
 O’Reilly, 25, 406
 original sin of
 phototypesetting, 13, 391
 origin (of a glyph), 11
 oriya, 74
 OrnamentSetsType (AAT), 833
 ornm (OT), 564, 817
 OS/2 (TT), 416, 710, 722
 Osmanya, 86
 OT1, 245, 280
 OtherBlues, 509, 511, 662
 other subroutine
 PostScript, 665
 OtherSubrs, 665
 OTTags, 848
 contour
 (PS), 641
 outline
 customized, 534
 grid-fitted, 519
 oval, 859
 overhang, 10
 overlap
 hints, 517
 OverlappingCharactersType (AAT), 832
 override
 left-to-right, 140
 right-to-left, 140
 overshoot, 10, 507, 531, 919
 Oxford University Press, 243

P22
 Bayer Universal, 399
 Dada, 398
 De-Stijl, 398
 Futurismo, 398
 Johnston, 398
 Pages mode (*FontLab*), 448
 pair (METAFONT), 920
Palatino, 225, 245, 403, 417
Palatino Linotype, 707, 716, 728, 754, 758, 781, 803
 palt (OT), 822
 pangram, 522, 721
 Panose-1, 20, 211, 230, 328, 330, 367, 424–439, 456, 724
 panose-1, 358
 Panose-2, 330, 424
Parade, 418

- ParaGraph Deda Ena, 324
 PARKING, 97
 Pascal-WEB, 613
 password, 664
 path, 913
 - closed (PS), 641
 - (METAFONT), 924
 - (PS), 640
 - (SVG), 362
 path (METAFONT), 913
 path (SVG), 350
 patrol 巡, 152
 pcap (OT), 817
 PCC, 676
 PCF, 610, 611
pcftobdf, 610
 PCL, 621, 750
 PCLT (TT), 459, 711, 750
 PDF, 237, 272, 659, 905
 PDF (pop directional
 formatting), 140
Peignot, 402
 pen, 907, 910
 - calligraphic, 915
 - circular, 910, 911
 - razor, 910, 911
 - rectangular, 910
 pencircle (METAFONT), 910
 pen position, 917
 penrazor (METAFONT), 910
 pensquare (METAFONT), 910
 pen stroke, 917
 penstroke (METAFONT), 917
 Perl, 947
 permanent stability, 61
 permanent state of a printer,
 649
 Permic, 92
Perpetua, 400
Peter Jessen, 399
 PFA, 490, 656
pfa2afm, 233
pfa2bdf, 233
pfa2pfb, 233
pfadecrypt, 233
PfaEdit, 21, 444
 PFB, 490, 656
pfb2pfa, 233
 PFM, 947
 PFR, 333–336, 340
The Philadelphia Experiment,
 481
 philosophy, 55
 Phoenician, 86
 phonetic modifiers, 72
 phonetic transcription of
 ideographs (AAT),
 836
Photina, 405
 phototypesetting, 11
 pica point, 12
 pixel
 - wayward, 528
 PK, 234, 264, 617
pktogf, 264
 PL, 623
 PL/I, 30
 plain text, 59
 plane
 - Basic Multilingual, 70
 - projective, 638
 - Supplementary
 Ideographic, 87
 - Supplementary
 Multilingual, 83*Plantin*, 380
 platformID, 720
pltotf, 623
 pnum (OT), 817
 Point (Python), 483
 point, 12
 - American printer's, 249,
 637
 - control, 881
 - Didot, 245, 249, 637
 - non- touched, 526
 - of origin, 445
 - of reference (PS), 670
 - PostScript, 245, 249, 637
 - reference, 881
 - temporary, 882
 - touched, 882
 polar coordinates, 881
Poliphilus, 373, 374
 POP[], 883
 \pop, 289
 pop directional formatting,
 140
 POP (VPL), 634
 position, 562
 positioning, 550
 - chained contextual, 553,
 564
 - contextual, 553, 564, 773
 - extended contextual, 776
 - of a pair of glyphs, 581,
 763
 - of a single glyph, 580,
 762
 - pair adjustment, 552, 574
 - single adjustment, 552,
 574
 POST, 205
 POST, 656
 post-chain, 551
 PostScript, 237, 261, 905
 - CFE, 728, 731
 - language, 238, 635–650
 - OCF, 684–687
 - Type 0, 684–687
 - Type 1, 21, 188, 205, 210,
 214, 215, 229, 233,
 239, 266, 273, 351,
 355, 360, 452,
 655–676
 - Type 2, 697–703
 - Type 3, 663, 650–655
 - Type 42, 233, 682–683,
 726
 PostScript point, 12
 post (TT), 710, 726
potrace, 444, 500, 655
 pound sign, 556
 J. F., 856
 pre-chain, 551
 pref (OT), 820
 pregnancy 妊, 151
 prep (TT), 710, 730
 presentation, 138
 presentation forms, 82
 pres (OT), 820
Prestige, 771
Prestige Elite, 419
 pretty-printer, 927, 947
 prevent collisions (AAT), 832
 primitive, 908
 principle

- composition, dynamic, 61
 convertibility, 61
 difference between characters and glyphs, 59
 efficiency, 59
 order, logical, 60
 permanent stability, 61
 plain text, 59
 semantics of characters, well-defined, 59
 sequences, equivalent, 61
 unification, 60
 universality, 58
 print job, 649
 Private, 657, 679
 program
 control, 533, 535
 glyph, 534
 progressive rendering, 330
 pronunciation of \TeX , 236
 proofing, 575
 prop (AAT), 712, 841
 property, 106
 alphabetic, 106
 character, 95
 dash, 109
 deprecated, 107
 diacritic, 109
 extender, 110
 hyphen, 109
 identifier continue, 119
 identifier start, 119
 ignorable, 107
 join control, 110
 logical order exception, 107
 lowercase, 112
 noncharacter, 106
 normative, 95
 numeric value, 118
 of a CVT entry, 530
 other math, 108
 punctuation
 terminal, 109
 quotation mark, 109
 soft dot, 108
 space, 106
 (SVG), 351, 357
 Unicode 1 name, 110
 uppercase, 111
 value of alphanumeric numeral, 118
 value of decimal digit, 118
 value of digit, 118
 value of numeral, 118
 proportion, 428
ps2pdf, 273
 PSF, 234, 604, 605
psfaddtable, 605
psfgettable, 605
psfonts.map, 267
psfstriptable, 606
 PSFU, 605
 pstf (OT), 820
 pstts (OT), 820
 pst'wyaelmh!, 158
 punch card, 32
 punctuation
 general, 77
 ideographic, 80
 punctuation mark
 final, 258
 \push, 289
 PUSHB[], 883
 PUSH (VPL), 634
 PUSHW[], 883
 pwid (OT), 822
 PXL, 612, 619
 pxtoch, 612
 Python, 22, 24, 472–488, 707

qdtexvpl, 634
 QUAD (PL), 626
Quark Xpress, 236
Quartz, 192
 Quickdraw, 318
 quoted-printable, 49, 63, 185
 QWERTY, 165
 qwid (OT), 822

 radical, 80, 152
 fire, cjk 灬, 152
 fire, Kangxi 火, 152
 rallonge, 780, 796
 rand (OT), 817

 rasterization, 505
 RAW, 611
 rcurveline, 700
 rcurveto (PS), 640
 RCVT[], 884
 re-encoding, 266
 rearrangement of glyphs (AAT), 590
 rearrangement of glyphs for grammatical reasons (AAT), 830
rcode, 184
 Rect (Python), 483
 redemption, 61
 ReEncodeFont, 268
 re-encoding, 450, 480
 Registry, 689
 relevant difference, 882
 relevant height, 507, 531, 537, 662, 919
 relevant stroke thickness, 507, 663

 religion, 235
 répère historique, 415
ResEdit, 168
 resource, Mac OS 9, 188
 resource (PS), 648
 return, 666
 RFC
 822, 48
 2045, 48
 2616, 51
 3066, 362
Rhapsodie, 404
 right (METAFONT), 912
 river ≪, 152
 RLE, 140, 143
 RLE (compression), 618, 620
 rlig (OT), 817
 rlinecurve, 700
 rlineto, 666, 680, 700
 rlineto (PS), 640
 RLM, 141
 RLO, 140, 143
 rmoveto, 666, 700
 rmoveto (PS), 640
Robofog, 442
RoboLab, 442
Rockwell, 420

- ROLL[], 883
Romain du Roi, 7, 384, 385
 romaine, 413
 romaji, 694
Roman, 604
 romn (baseline), 757
 rotated (METAFONT), 910
 rotate (PS), 639
 rotation, 637, 639
 rotunda, 368, 375, 381
 roundness, 907
rovásírás, 91
 Royal, 705
 rphf (OT), 820
 rrcurveto, 666, 700
 RS[], 883
 RST, 612
 rtl (OT), 819
 rt (METAFONT), 916
ruby, 822
 RubyKanaType (AAT), 838
 ruby (OT), 822
 rule
 (CSS), 319
 even-odd (PS), 642
 nonzero winding
 number (PS), 641
 positioning, 561
 substitution, 559
 run, 143
 runes, 76
 runic, 91

Sabon, 378, 379
Sabon Next, 379
 SAIL, 612
Saltino, 423
 salt (OT), 817
 Samarkan, 414
 samurai 士, 148
San Marco, 376
 sans serif, 407
Saphire, 422
Sauerkrauto, 406
 S.A.V., 596, 773
 scaled (METAFONT), 910
 scalefont (PS), 645
 scale (PS), 639
 scaling, 637, 639

ScanFont, 232, 444, 501, 655
 SCFS[], 885
 Schaffstiefelgrotesk, 401
 Schwabacher, 381, 399, 403, 411
Scotch Type, 394
Scrabble, 654
 Scrabble, 654
Script, 604
 script, 96, 321, 404, 410, 550, 557, 570, 751, 787
 cambodian, 596
 cursive, with connected
 letters (AAT), 829
 ideographic (features),
 820
 Latin (features), 815
 predefined, 806
 Indian (features), 819
 Semitic (features), 818
 simulated, 414
 Scriptorium de Toulouse, 441
 ScriptRecord, 760
 ScriptTag, 760
 SCSU, 66
 SDB[], 889
 SDK OpenType, 556
 SDS[], 890
 sea 水, 152
 Sefer-AH, 414
 \selectfont, 249
 SELECTFONT (VPL), 634
 selection
 variant, 784
 selection of special glyphs
 (AAT), 833
 selector (AAT), 589
 selector (CSS), 319
 semantics of characters, 95
 semantics of characters,
 well-defined, 59
 sentinel, 107
 sequences, equivalent, 61
 sequential, 138
 serif, 5, 370, 386, 390, 410, 412
Serifa, 420
 serif style, 425
 setcachedevice, 652
 SETCHAR (VPL), 634

setfont, 611
 setfont (PS), 645
 \setglyph, 289
 setmatrix (PS), 639
 \setrightboundary, 299
 SETRULE (VPL), 634
 \setslot, 287
 set-width, 10, 11, 631
 sexual liberation, 118
 SFD, 490
 SFL, 621
 sfnt, 190, 191, 532, 697
 SFP, 621
 SFVFS[], 884
 SFVTL[0], 884
 SGML, 119, 315
 shape
 abstract, 148
 sharp dimension, 908
 shavian, 86
 SHC[0], 885
 shift, 539
 character, 27
 shifted code, 27
 Shift-JIS, 44, 64
 shoulder, 3
 show (PS), 645, 647
showtff, 233
 SHP[0], 885, 898
 shrink, 258
 SHRINK (PL), 626
 SHZ[0], 885
 side bearing, 445
 signifier and signified, 54
 Silf, 712
 similarity, 211
 simplice, 411
 simplified Chinese, 53
 sinf (OT), 818
 Sinhala, 74
 sin of the world, 61
 SIP, 70, 87
 size, 521
 actual, 252
 optical, 252
 size (OT), 565, 818
 SLANT (PL), 626
 SLOOP[], 888, 896, 897
 <small>, 125

- SmartSwashType (AAT), 831
 \smash, 307
 smcp (OT), 555, 564, 818
 smiley, 79, 151
 smooth connection, 913
 smoothing (METAFONT), 930
 SMP, 70
 smp1 (OT), 822
 SNF, 610
 soft hyphen, 36
 Sorbonne, 374–376
 SourceForge, 163
 source separation, 148
 South Arabian, 93
Souvenir, 420
 Soyombo, 93
 space, 106, 144
 non-breaking, 105
 SPACE (PL), 626
 SPECIALHEX (VPL), 634
 SPECIAL (VPL), 634
 Speedo, 333
 SPVFS[], 884
 SPVTL[0], 884
 <square>, 125
 square
 for ideographic
 alignment, 757
 ideal ideographic, 757
 ideographic, 125
 SRPO[], 884, 894
 SRP1[], 896
 SRP[], 902
 SRPO[], 896
 ss01 to ss20 (features), 818
 SSP, 70
 stack
 instruction, 547
 interpreter's, 881
 (PS), 643
 staff, 87
 start of line, 860
 start of text, 860
 state, 173
 statue by Giacometti, 681
St Augustin Civilité, 380
 StdHW, 509, 511, 663, 673
 StdVW, 509, 511, 663, 673
 stem, 3
 Stempel Garamond, 378
 Stempel Schneidler, 400, 769
 StemSnapH, 509, 511, 663
 StemSnapV, 509, 511, 663
 stencilienne, 415
 stigma, 113
Stone, 406
 storage area, 547, 882, 883
 store (METATYPE1), 950
 straight line, 639
 stretch, 258
 STRETCH (PL), 626
 stroke, 3
 curved 弯, 155
 diagonal, descending
 from left to right
 捺, 155
 diagonal, descending
 from right to left
 撇, 155
 flat, 155
 horizontal 横, 155
 pen, 950
 vertical 竖, 155
 stroke[] (METATYPE1), 952
 stroke (PS), 646
 stroke (VTT), 540
 structured comment (PS), 647
 StudentInnen, 111
 Sturm und Drang, 394
 StyleOptionsType (AAT), 835
 stylesheet, 241
 <sub>, 125
 subcategory, 98
 subdivision of Bézier curves,
 965
 subpath (METAFONT), 952
 subroutine
 PostScript, 664
 Subrs, 664
 subs (OT), 818
 SubstCount, 788
 substitute, 559
 substitution, 550
 alternate, 572, 580
 chained contextual, 551,
 572
 contextual, 551, 560, 572,
 787
 contextual (AAT), 590,
 593, 868
 extended contextual, 791
 multiple, 550, 559, 572,
 580, 783
 reverse chaining
 contextual, 552,
 560, 573, 586, 794
 simple, 781
 simple glyph (AAT), 871
 single, 550, 559, 571, 579
 SubsVector, 686
Suitcase, 201, 216
 Server, 204, 218
 sumo, 469
 wrestler, 681
 <super>, 125
 Supplement, 689
 sups (OT), 584, 818
 surface, 184
 surrogate, 64, 105
 surrogate pair, 64
 sutra, buddhist, 156
 SVG, 20, 317, 345–365, 490,
 650
 SVG unit, 353
 SVTCA[0], 902
 SWAP[], 883
 sword
 剑, 149
 劍, 148
 swsh (OT), 818
 syloti nagri, 82
 symbol
 astrological, 79
 for recyclable materials,
 79
 letterlike, 78
 mathematical, 78
 alphanumeric, 87
 meteorological, 79
 religious, 79
 technical, 78
 weather, 79
 symmetry, 907
Syntax, 405
 Syriac, 73, 103, 114, 362, 365
 systemic approach, 2

- system of coordinates (PS), 637
 system of coordinates, 11
 system of dots in Arabic, 116
 SZPO[], 885

 T1, 245, 246, 266, 280, 944
t1ascii, 233
t1binary, 233
t1disasm, 233
t1utils, 233
 T2A, 245, 247, 266
 T2B, 245, 247, 266
 T2C, 245, 248, 266
 T2D, 248
 T3, 245, 250
 T4, 245, 250
 table
 class, 859
 control value, 882, 883
 coverage, 582, 584, 753
 device, 753
 entry, 859
 of classes, 589
 of control values, 530
 of inputs, 589
 of states, 589
 qualitative, 875
 quantitative, 874
 state, 859
 Tabulating Machine Company, 32
 tag, 119
 closing, 315
 empty, 347
 ending, 347
 opening, 315, 347
 Tagalog, 76
 Tagbanwa, 76
 tail, 3
 Tai Le, 77
 tamil, 74
Tannenberg, 401
 Tao, sign of the, 79
t1ascii, 656
t1asm, 657
Tavultesoft Keyman Developer, 177
 taxi
 run-down, 721
t1binary, 656
t1disasm, 657
 Telugu, 74
 Tengwar, 90
 tension, 912
 terminal, 3, 5
 termination, 433
 TES, 63
 T_EX, 12, 19, 22, 24, 234–313, 316, 611–620, 623–634, 650, 905, 935, 944
 logo, 235, 560
texmf.cnf, 260, 269
text-otl (CSS), 344
 T_EXtrace, 500
 TextSpacingType (AAT), 836
textura, 368, 376, 381–384, 411
 TFM, 238, 259, 270, 274, 612, 623–632, 908
 optimization, 629
tfiopl, 623
 Thaana, 73
 Thai, 75
The Sans Mono Condensed Light, 665
Theurdanck, 381
 things that grow, 632
Thompson Quillscript, 423
Thorowgood, 397
 three 三, 100
Throhand, 197
 Tibetan, 75
 Tifinagh, 80
Times Europa, 402
Times New Roman, 211, 402, 417
Times New Roman Seven, 565
Times Ten, 2, 13, 565
 tireless, 233
 titl (OT), 818
 tjmo (OT), 821
t1mac, 656
 TMC, 32
 tnam (OT), 822
 tnum (OT), 818
 top (METAFONT), 916
Torino, 391
 torturing a glyph, 929
 TrackKern, 842
 traditional Chinese, 53
 trad (OT), 822
 trak (AAT), 712, 842
 tranquillity 安, 151
 transfer encoding syntax, 63
 transformation
 chained contextual, 585
 contextual, 582
 linear, 637
 transfigure, 415
 transitional, 386, 401, 403, 406, 410
Transitional 521, 308
 translate (PS), 639
 translation, 637, 639
 transliteration, 166
 TransliterationType (AAT), 836
TransType Pro, 205, 219
Trebuchet, 542
Troy, 382, 397
TrueDoc, 317, 333–336
 TrueImage, 705
TrueT_EX, 945
 TrueType, 21, 22, 189, 205, 210, 214, 229, 233, 234, 239, 266, 424, 452, 490, 705–751
 GX, 549
 Open, 549
TrueType Editor, 530
 TrueType GX, 586, 705
 TrueType Open, 706
 TS1, 245, 246, 266
 TSID, 712
 TSIP, 712
 TSIS, 712
 TSIV, 712
 TTC, 234, 490, 709
TTED, 530
tf2eps, 233
tfext, 212
 ttFont, 713
ttfot42, 233
 TTGlyph, 729
ttmkfdir, 229

- TTX, 22, 351, 697, 707, 886, 892
TUGboat, 944
t1unmac, 656
tuple, 854
t1utils, 947
 twid (OT), 822
 two 二, 100
 typ1 (TT), 697
type1inst, 229
 type-CID, 688
 typeface, 367
 non-Latin, 411
 sans serif, 396, 404, 405, 410
 standardized, 400
 stencil, 415
Typeman, 529, 538
 typo, 25
Typograf, 217
Typograph, 334
 TypographicExtrasType (AAT), 832
 typography
 mathematical, 632

 UCS-2, 185
 UCS-4, 185
 UCS-16LE, 605
ufond, 233
 Ugaritic, 85
 UID, 456, 491, 658
 Ultimate Question of Life, the Universe, and Everything, 682
 Ultra-Edit, 183
Underground, 398
 UnderlinePosition, 658, 673
 UnderlineThickness, 658, 673
 undrawdot (METAFONT), 914
 undraw (METAFONT), 914
 \unfakable, 293
 unfilldraw (METAFONT), 914
 unfill (METAFONT), 914
 unFill (METATYPE1), 954
Unger Fraktur, 394
 Unicode
 history, 53
 Unicode character sequences, 604
 UnicodeDecompositionType (AAT), 837
 unicode-range (CSS), 331
 unicode-range (SVG), 358
 UniDict, 162
 UniDict, 161
 unification, 60
 Unihan, 149
 union
 platonic, 118
 UniqueID, 658
 unique identifier, 658
 units-per-em (SVG), 358
 Univers, 404, 405, 410, 421
 universal currency sign, 31, 36
 universality, 58
 universal truth, 827
 University, 417
 University of Lille, 32
 University of Reading, 237, 441
 Unix, 221, 604–611
 up (METAFONT), 912
 upper case, 9
 uppercase, 111
 upstroke, 370, 372
 Urdu, 767, 794
 URI, 359
 URL, 51
 usefont, 695
 UTF-16, 185
 UTF-7, 185
 UTF-8, 65, 185, 605
 utilize (METATYPE1), 950
 UTP[], 888
 v-alphabetical (SVG), 358
 value record, 561
 Variatione Horatianae Iazzicae, 720
 variation selector, 89
 V.A.V., 586, 746
 VDMX (TT), 458, 711, 748
 vector
 freedom, 881
 projection, 881
 Vendôme, 268, 404, 918, 948
 Verdana, 407, 742, 899
 VeriSign, 740
 Version, 658, 672
 vert-adv-y (SVG), 357
 vert-origin-x (SVG), 357
 vert-origin-y (SVG), 357
 vertex, 3
 <vertical>, 125
 VerticalPositionType (AAT), 831
 vertical set-width, 12
 VerticalSubstitutionType (AAT), 830
 VF, 270, 274, 612, 633–634
 VFA, 452
 VFB, 452
 v-hanging (SVG), 358
 vhcurveto, 666
 vhea (TT), 711, 749
 v-ideographic (SVG), 358
 Virtuosa, 423
 Visual OpenType Layout Tool, 569
 Visual TrueType, 530
 vjmo (OT), 821
 vkern (SVG), 356
 vkrn (OT), 562
 vlineto, 666, 700
 v-mathematical (SVG), 358
 vmoveto, 666, 700
 vmtx (TT), 497, 711, 749
 VNT, 612
 VOLT, 21, 453, 569–575, 712
 VOLT's elitism, 576
 VORG (OT), 710, 732
 Vox classification, 20
 VPL, 633
 vstem3, 668, 702
 vstem, 667, 701
 VTT, 529–545, 712
 VTT, 712
 Wvector, 673
 WadaMin-Regular, 691
 Wahrscheinlichkeitstheorie, 103
 waiting for an <r> (state), 591
 water 水, 152
 water polo, 101

- WCVTF[], 884
 WCVTP[], 884
 Web, 15, 51, 315–366
WebFont Wizard, 334
 web technician, 332
Wedding Text, 383
weed, 946
WEFT, 333, 336–341
 Weight, 658, 672
 weight, 427
 WeightVector, 680
Weiss Gotisch, 384
Wenlin, 155
 whatever (METAFONT), 922
 <wide>, 125
 width, 259
 of Latin letters in an
 ideographic context
 (AAT), 837
Wilhelm Klingspor, 383
 Windows, 161, 176, 209, 234,
 424, 602, 604
 woman 女, 151, 161
 word division, 258, 272, 287,
 307
 word joiner, 65
 write 書, 670
 writing system, 96, 321
 WS[], 883
 wyde, 62

 XCCS, 53
 Xerox, 53
xev, 182
xfontsel, 231
xfs, 222, 226
 XHeight, 673
 x-height, 10, 257
 XHEIGHT (PL), 626
 XHTML, 316
XKeyCaps, 183
 XLFD, 222–226, 231, 318, 320,
 607
X Logical Font Description, 222
xlsfonts, 226
XmBDFEd, 233
 XML, 16, 20, 22, 59, 65, 88,
 119, 142, 153, 168,
 262, 316, 346–349,
 697, 707
 xml:lang, 60, 88
xmodmap, 182
xpdf, 655
 xscaled (METAFONT), 910
xset, 229

 XSL-FO, 142
 XUID, 456, 491, 658, 693
 XUID, 658
 X Window, 163, 181, 610

 year 1962, 832
 Yi, 81
 Yijing, 79, 81, 87
 yin and yang, 1, 16, 917
 yin–yang, 79, 156
 symbol, 17, 916
 yscaled (METAFONT), 910
yus, 304

 Zapf (AAT), 712, 844–848
Zapf Dingbats, 79
Zapfino, 295, 410, 586, 833,
 840
Zentener-Fraktur, 400
Zipper, 405, 432
 zone
 alignment, 507
 pointer, 882
 twilight, 882
 Zounds!, 841
 ZWJ, 104, 110, 140, 301
 ZWNJ, 104, 110, 140, 301

Index of Persons

- Adams, Douglas, 682
Adolf of Nassau, 368
Aeneas, 28
Albertini, Michel, 786
Alembert, Jean Le Rond, d',
8–10
Alessandrini, Jean, 20, 367,
411
André, Jacques, 5, 13, 654
Andresen, Kevin, 682
Andries, Patrick, 86
Aretino, Spinello, 369
Arrighi, Ludovico degli, 374,
410
Arvin, Peter, 604
Ascher, David, 472
Asola, Andrea Torresano of,
371
Atanasiu, Vlad, 800
Augereau, Antoine, 376, 845
Auriol, George, 397
Austin, Richard, 394
- Bacon, Francis, 28
Badius, Josse, 376
Barron, Dieter, 233
Baskerville, John, 389
Baudin, Fernand, 408
Baudot, Émile, 28
Bauermeister, Benjamin, 20,
424
Bayer, Herbert, 399
Beaumarchais,
Pierre-Augustin
Caron de, 389
- Bembo, Pierre, 372
Bemer, Bob, 30
Benton
Linn Boyd, 395
Morris Fuller, 371, 377,
383, 392, 395, 396
Bergquist, Lars, 390
Berio, Luciano, 87
Berlow, David, 396
Berners-Lee, Tim, 315
Berry
Daniel, 945
Karl, 232, 243, 264, 265,
908
Besley, Robert, 397
Bézier, Pierre, 7, 23, 961
Bigelow, Chuck, 406
Bishop, Tom, 153
Blackwell, Lewis, 408, 411
Blado, Antoine, 374
Blanchard, Gérard, 381, 407,
416
Bliss, Charles, 92
Blum, Léon, 402
Bodoni, Giambattista, 391,
410
Bodra, Lako, 91
Bond, James, 369
Bonhomme, Pasquier, 375
Bonnin, Georges, 408
Bötticher, Simon, 376
Bouchon, Basile, 32
Boulez, Pierre, 87
Breitkopf, Johann Gottlob
Immanuel, 393
- Briem, Gunnlaugur, 402
Brock, Ernie, 442
Buday, George, 381
Burkhardt, Klaus, 384
Bush, Vannevar, 29
Bzyl, Włodzimierz, 947
- Carter
Harry, 380, 381, 408
Matthew, 380, 390, 407,
408
Caslon, William, 383, 386, 410
IV, 395
Cassandre, Adolphe Mouron,
400, 402
Casteljau, Paul de, 961, 962
Caxton, William, 376, 382
Chappe, Claude, 28
Charlemagne, 369
Charles VII, 369, 371
Christian, Arthur, 385
Claudin, Anatole, 377
Cobben-Sanderson, Thomas,
397
Cohn-Bendit, Daniel, 308
Colines, Simon de, 376, 379
Colonna, François, 372, 373
Cramoisy, Sébastien, 377
Creuzsner, Friedrich, 381
Crumb, George, 87
Cuneo, Anne, 13, 379, 408
- da Vinci, Leonardo, 134
Dawson, Michael, 472
De Laurentis, Michael, 424

- Delbanco, Gerda, 383, 394, 398, 408
 Delorme, Christian, 654
 Derrida, Jacques, 55
 Detterer, Ernst, 410
 Devroye, Luc, 599, 880
 Diderot, Denis, 8–10
 Didot
 Firmin, 390, 393, 410
 François, 390
 François-Ambroise, 390
 Dirson, Yann, 611
 Du Pré, Jean, 376
 Durdin, Marc, 177
 Dürer, Albrecht, 5
 Dwiggings, William Addison, 395

 Earls, David, 408
 Eckmann, Otto, 398
 Edward IV, 382
 Einstein, Albert, 360, 895
 Estienne
 Antoine, 379
 Charles, 379
 Henri, 379
 Paul, 379
 Robert, 379
 Étienne de Perme, 92
 Euclid, 7
 Excoffon, Roger, 404

 Fabian, Nicholas, 404
 Fairbank, Alfred, 373
 Fichet, Guillaume, 374
 Figgins, Vincent, 396
 Fournier, Pierre-Simon, 385
 Francis I, 379
 François I^{er}, 376
 Franklin, Benjamin, 387
 Fredrikson, Martin, 406
 Friburger, Michael, 375
 Frutiger, Adrien, 391, 404, 405
 Fuchs, David, 612
 Fust, Johannes, 367

 Ganeau, François, 268, 404
 Garamond, Claude, 376, 410, 845
 Gates, Bill, 844
 Gauß, Carl Friedrich, 669
 Gering, Ulrich, 375
 Giacometti, Alberto, 681
 Gid, Raymond, 408
 Gill, Erik, 399, 400
 Giraudoux, Jean, 401
 Goblot, Rémi, 638
 Goethe, Johann Wolfgang von, 87, 88, 508
 Goldsmith, Holly, 13, 393
 Gomango
 Malia, 91
 Mangei, 91
 Goodhue, Bertram
 Grosvenor, 395
 Goudy, Frederic, 371, 377, 383, 395
 Gouttenègre, Thierry, 376, 402, 407
 Grandjean, Philippe, 384
 Granjon, Robert, 380, 410
 Grasset, Eugène, 397
 Grey, Harold, 442
 Griffo (Francesco da Bologna), 372, 373
 Groot, Luc[as] de, 471, 665
 Guenther, Dean, 944
 Guibas, Leonidas, 623
 Guimard, Hector, 397
 Gutenberg, Johannes
 Gensfleisch, 147, 155, 367, 797

 Haible, Bruno, 183
 Hall, Max, 25
 Haralambous
 Danaé, 620
 Ernestine, 620, 895
 Tereza, 840
 Hargreaves, Kathryn, 232
 Haskil, Clara, 166
 Hénaffe, Jules, 385
 Henderson, Doug, 944
 Hetherington, Lee, 233
 Heynlin, Johann, 374
 Hindenburg, Paul von, 401
 Hitler, Adolf, 403, 785
 Hobby, John, 907, 947

 Hoefler, Karlgeorg, 376, 405
 Hoefler, Jonathan, 13, 204, 380, 382, 392, 408
 Hoenig, Alan, 945
 Hoffman, Édouard, 404
 Hollerith, Herman, 32
 Holmes
 Kris, 406
 Sherlock, 611
 Höltzel, Hieronymus, 381
 Horace, 720
 Howes, Justin, 13, 387, 388

 Jackowski, Bogusław, 407, 947
 Jackson, Ernest, 389
 Jacquard, Joseph-Marie, 32
 Jalleau, Franck, 373
 Jannon, Jean, 377
 Janson, Antoine, 380
 Jaugeon, Nicolas, 7, 384
 Jeffrey, Alan, 277, 293
 Jenson, Nicolas, 368, 369, 371, 372, 410
 Jeong Inji, 156
 Johnston, Edward, 389, 398
 Jones, George, 378
 Jost, Heinrich, 392, 400
 Jou, Louis, 402
 Julius Caesar, 150

 Kaasila, Sampo, 529, 705
 Kante, Sulemana, 74
 Kapr, Albert, 408
 Karow, Peter, 380, 442, 461, 490
 Keenadiid, Cismaan Yuusuf, 86
 Kelly, Phillip, 405
 Kennedy, John Fitzgerald, 29
 Kim
 Il-sung, 44
 Jong-il, 44
 Kinch, Richard, 945, 946, 950
 King, Stephen, 312
 Kirk, James T., 207, 907
 Kis, Miklós Tótfalusi, 381, 391, 410
 Klein, Félix, 641
 Knappen, Jörg, 944

- Knuth, Donald, 13, 134, 235, 239, 263, 272, 406, 613, 614, 619, 623, 628, 905, 907, 933, 935, 944, 947
- Koch, Rudolf, 383, 384, 399
- Kohler, Eddie, 233
- Kranz, Martin, 375
- Kühne, Emil Hand, 384
- Kukai, 91
- Lapko, Olga, 944
- Lawson, Alexander, 407
- Lazrek, Azzeddine, 142
- Leisher, Mark, 233
- Lenin (Ulyanov, Vladimir Ilyich), 41
- Levitt, Noah, 163
- Levy, Silvio, 944
- Lewis, Flo Darwin, 92
- Longanesi, Leo, 58
- Louis XI, 371
- Louis XIV, 7, 384
- Lubalin, Herb, 405
- Lunde, Ken, 44, 682
- Lutz, Mark, 472
- Machiavelli, Niccolò, 374
- MacKenzie, Charles. E, 27
- MacLuhan, Marshall, 1
- Mandel, Ladislav, 13, 374, 391, 408
- Manutius, Aldus, 371–373, 410
- Mao Zedong, 43
- Martelli, Alex, 472
- Marti, Bernard, 36
- Mattes, Eberhard, 634
- Maximilian, 381, 383, 403
- McKelvey, Roy, 408
- McLuhan, Marshall, 367
- McQueen, Clyde, 424
- Meggs, Philip B., 408
- Meier, Hans Eduard, 405
- Mendoza y Almeida, José, 405
- Meyer, Emil, 401
- Middleton, Hunter, 378
- Miedinger, Max, 396, 404
- Mills, Ross, 379
- Minotaur, 85
- Möbius, August Ferdinand, 641
- Mohammed, 951
- Moholy-Nagy, László, 399
- Monroe, Marilyn, 896
- Montaigne, Michel de, 371
- Montesquieu (Charles de Secondat), 68
- Moore, Isaac, 390
- Morison, Stanley, 402
- Moro, Shigeki, 55
- Morrison, Stanley, 372–374
- Morris, William, 370, 371, 382, 397, 410
- Morse, Samuel, 28
- Moxon, Joseph, 383
- Müller, Adolf, 403
- Neuber brothers, 217
- Niccoli, Niccolò, 373
- Nicholas, Robin, 396
- Nienhuys, Han-Wen, 232
- Novarèse, Aldo, 405
- Nowacki, Janusz, 407, 947
- Opstad, David, 848
- Orwell, George, 53
- Ó Searcóid, Mícheál, 944
- Pacioli, Luca de, 5
- Pannartz, Arnold, 368
- Parkinson, Jim, 13, 393
- Peignot
Charles, 408
Georges, 397
Jérôme, 398
Rémy, 389, 402, 408, 417
- Pérec, Georges, 785
- Karow, Peter, 13
- Pfinzing, Melchior, 381
- Phinney, Joseph Warren, 371, 383
- Pierpont, Frank Hinman, 380
- Pigouchet, Philippe, 376
- Pinard, François, 184
- Plaice, John, 236, 632, 634
- Plantin, Christophe, 377
- Pollard, Samuel, 93
- Póttawski, Adam, 407, 956
- Polybius, 28
- Ponot, René, 416
- Porchez, Jean François, 309, 362, 379, 406, 408, 441
- Potter, Harry, 903
- Prince, Edward, 397
- Rachmaninoff, Sergey, 166
- Racine, Jean, 474
- Rei, Fukui, 944
- Renner, Paul, 399
- Richelieu, Armand Jean du Plessis, Cardinal, 377
- Rogers, Bruce, 275, 323, 371, 374, 378, 390
- Rokicki, Tom, 239, 617, 619
- Sabon, Jacques, 377
- Sade, Donatien-Alphonse-François (Marquis) de, 697
- Saint Benedict, 369
- Santa Claus, 272
- Saunders, Patricia, 396
- Saussure, Ferdinand de, 54
- Sauter, John, 263, 943
- Schmidt, Walter, 945
- Schneidler, Friedrich Hermann Ernst, 384, 400, 404
- Schöffler, Pierre, 367
- Schönsperger, Jean, 381, 403
- Schüler, Ilse, 404
- Schwarz, Norbert, 944
- Sejong, king of Korea, 155
- Selinger, Peter, 500
- Serling, Rod, 882
- Shamaya, Mahilata, 944
- Shaw, George Bernard, 86
- Slimbach, Robert, 371, 378
- Sommer, Karl, 400
- Southall, Richard, 406
- Sowa, Friedhelm, 620
- Spivak, Michael, 632
- Stan, Tony, 395
- Steffmann, Dieter, 383

- Steinberg, Siegfried, 408
 Stockhausen, Karlheinz, 87
 Stone, Sumner, 13, 393, 406
 Strzelczyk, Piotr, 407, 947
 Suvorov, Vadim, 444
 Sweynheim, Conrad, 368

 Thành, Hàn Thế, 945
 Thorne, Robert, 397
 Thorowgood, William, 397
 Thull, Klaus, 944
 Toal, Graham, 652
 Tolkien, John Ronald Reuel, 90, 92
 Torvalds, Linus, 604
 Tory, Geofroy, 5, 376
 Toulouse-Lautrec, Henri de, 397
 Tracy, Walter, 402
 Tschichold, Jan, 378, 379
 Turing, Alan, 29

 Unger
 Johann Friedrich, 393, 394
 Ralph, 393
 Updike, Daniel Berkeley, 407

 van Blokland, Erik, 309, 408
 van Rossum
 Guido, 22, 707
 Just, 22, 309, 707, 872
 Vascosan, Michel, 376
 Vatton, Irène, 654
 Ventris, Michael, 85
 Vêrard, Antoine, 376, 382
 Verne, Jules, 83
 Vieth, Ulrik, 293
 Vinne, Theodore de, 395
 Volovich, Vladimir, 266
 von Ehr, Jim, 442
 von Speyer
 Johann, 370
 Wendelin, 370
 Vox, Maximilien, 20, 367, 370, 386, 390, 396, 401, 409

 Walbaum, Justus Erich, 394, 410
 Walker, Emery, 397
 Wall, Larry, 659
 Warde
 Beatrice, 377
 Frederic, 374
 Warnock, John, 905

 Watson, John, 611
 Weber, Martin, 500
 Weiss
 Emil Rudolf, 384
 Peter, 399
 West, Andrew, 161
 Williams, George, 232, 233, 444, 611
 Will, Rainer, 375
 Winter, Janene, 944
 Wolf, Rudolf, 400
 Wolpe, Berthold, 401
 Wulfila, 85

 Yanai, Shimon, 945
 Yang, Shong Lue, 91
 Yarmola, Yuri, 444

 Zamenhof, Ludwig Lazare, 303
 Zanabazar, 93
 Zapf, Hermann, 79, 199, 252, 295, 403, 406, 441, 840, 944
 Zawinski, Jamie, 183
 Zell, Ulrich, 368, 382
 Zharkov, Dimitar, 234