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The Last Whole
XGP Font Catalog

prepared by

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with Introduction and Commentary by

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INTRODUCTION

The title of this volume is more than a parody of a similarly named work appearing in the past decade. It has real meaning. By "Last" we mean just that: it is not expected that another version of the XGP Font Catalog (last issued as Working Paper No. 72, May 24, 1974) will appear in the future. There are two reasons. First, the arrival of the Xerox Alto-cum-Dover system, which produces documents of much higher quality substantially faster, has reduced the use of its venerable ancestor, the Xerox Graphic Printer. The production and maintenance of fonts for the XGP has been almost nonexistent since the demise of the XGP Fonts Support Group due to lack of time, energy, and interest. We do not anticipate much increase in any such activity in the near future, at least not directed toward the XGP. The second reason is the loose-leaf format of the present volume. It is unrealistic to expect the creation of new fonts for the XGP to cease, even though it becomes limited. As new fonts are introduced and old ones improved, replaced, or flushed, changed pages may be easily inserted or removed from the Catalog.

The "Whole" in the title means that we have included every font from the AI PDP-10's standard font directories, FONTS and FONTS1, and from the TEX font library on TEXFNT. Fonts from the "user supported" FONTS2 directory are not included in this listing. However, some files previously on that directory may have been moved to a standard font directory. We also did not include anything from the Lisp Machine's font collection or from the various personal and project directories on the system. Finally, there are no files from the XFONT directory. As advertised many times in the past, this is a working directory only and subject to change without notice. Any useful fonts from XFONT (the Times family, math and symbols, and others) have been moved to one of the standard directories.

The remainder of the title is self-explanatory.

Why undertake to produce a new Catalog, given the diminished use of the XGP? The original motivation for an updated edition came from the A.I. Lab Publications people. They were still receiving requests for the old (and quite out-of-date) version, and asked if it should be reprinted. At that time, it was not clear when (or if) the Dover was to appear, and there was at least some semblance of an active Fonts Support Group. Our plan was to improve the state of the font world greatly—some of you may remember a proposal to that effect—then prepare a new catalog in an entirely different and more usable format, with a complete listing of the fonts. This first step was unfortunately never fully realized. As a result, the new catalog was postponed for a while and the old one not reprinted. It has taken until now for what remains of the Fonts Support Group to put the issue to rest with the publication of this edition.

We feel justified in producing this volume at this time for several reasons. Contrary to some opinions expressed by various people in the A.I. and LCS community, the XGP will not go away very soon. The XGP is still used and will continue to be while Laboratory members adjust to the new capabilities of the Dover and the various document preparation facilities associated with it. Due to Alto design limitations, it is not possible to output raster information (bit maps the flavor of XGP scan files) on the Dover; these must yet be printed on the XGP. We are informed that to change this would require a large engineering effort and that there is no plan to do this soon. Also, the transfer of special fonts which were designed for the XGP and are necessary for certain types of papers is non-trivial due to the peculiar storage form of Dover fonts, and will probably only be done incrementally. Until this happens, authors of papers requiring special fonts will still use the XGP. Finally, there are at least two groups whose research and development efforts toward personal computers include the display of text on high-resolution video terminals, and who at least peripherally should find this compilation of fonts useful.

Organization of the Catalog

The organization of the Catalog is quite different from its predecessor. All fonts are placed into one of four divisions: English Alphabets, Foreign Alphabets, Symbols and Special Characters, and Graphic Fonts. The English Alphabets is by far the largest division and is composed of all fonts of English alphabets and punctuation, including the Ascii printable character set and its supersets (such as SAIL). Within this division, fonts are grouped by family. Members of a family are related by design of the face (such as Times, News Gothic), or perhaps similar historical development (such as the LPT or Typewriter families). Within families, they are arranged by size and style (bold, italic, etc.). Some families

exist for convenience: all fonts of a decorative nature are placed in Decorative, singleton fonts with no clear family are lumped together in Miscellaneous. The Foreign Alphabets division includes all non-English language fonts. Symbols and Special Characters contains fonts with non-text characters: symbols for mathematics and other formal languages are the primary members. Included are only those fonts with characters that appear in the normal composition of text; picture-drawing fonts fit in the fourth division. Fonts created explicitly for superscripts and subscripts are considered symbol fonts. Graphic Fonts contains all pictures (Snoopy, the Enterprise, MIT logotypes), figure-drawing, and layout fonts (such as the chessboard characters).

Some of the XGP fonts may not clearly fit into a single division. In that case, our decisions were somewhat arbitrary. The creation of new families for the English alphabets certainly was arbitrary: we could have placed all fixed-width fonts in one group, but chose to distinguish those of clearly different design or use.

Each division, and for the English Alphabets each family, begins with a brief description of the fonts therein, perhaps with some historical note or comment about use of the font. After this is a list of the fonts in the family which are included in the Catalog. This list includes not only the name of the font file and its directory, but also some characteristics of the font such as height, maximum width, and x-heights (see below). Immediately following the list come the fonts themselves.

With the exception of the Graphic Fonts, each font file is presented as a one- or two-page sample sheet generated automatically by the XGP. We would have provided a more compact and illustrative format which still gave the character code assignments, but were prevented due to severe lack of time. The larger graphic fonts are shown on customized pages, which include sizing information as well as a display of the pictures and their character code assignments.

After all four divisions come the Appendices. There are three included in the initial publication; more may be added later. First is an alphabetical index of all font files which are given in the main body. Each entry is for a single font, and includes the file name and directory, the associated division name, and for English fonts, the family name. Since pages are not numbered in the main part of the Catalog, reference is by family; the user then has only to search the appropriate section of the catalog for the desired font.

The second appendix is a font sampler, which shows alphabets of most of the English fonts. Use the font index (Appendix One) to find the location of the font in the main body.

The third appendix describes in detail the format of the font files used at MIT (called "KST" files for historical reasons).

Presentation of the Fonts

Each division (or family for the English fonts) begins with some comments on the fonts contained in that division or family, and is followed by a list of those fonts. This list gives the name of each font file and the directory on which it lives in the first column. The second column indicates the pitch of the font, whether it is fixed-width (F) or variable-width (V). Some fixed-width fonts are labelled V; this is apparently due to one or more characters in the font which are a different width than everything else. The last six columns give some useful size information. The columns are labelled mnemonically and are, from left to right, height of the font (HT), baseline (BL), the character width of the widest character (MW), the width of the space if it exists (SW), the X-height of the capitals (XC), and the x-height of the lower case (XL). All numbers are in terms of XGP pixels. For non-text fonts, a pair of dashes appears in the latter two columns, meaning that the x-heights are inappropriate for that font. Also, if a font has no upper or no lower case, the dashes will appear in the corresponding position. The X-height of a font is the height of a capital X in the font; the x-height is, not surprisingly, the height of a lower case x. These serve as truer measures of the perceived size of a character than the font height, which includes top and bottom margins.

Explanations and Caveats

Warnings About the Sample Reproductions

Do not trust too much the representations of the fonts as you see them in this volume. The XGP is capricious, by design as well as by accident. It has a nominal horizontal resolution of 200 pixels per inch, and has reportedly been adjusted to yield 200 pixels per inch vertically. One must say "nominal horizontal resolution" because there is a significant amount of pin-cushion distortion introduced by the cathode-ray scanner. This manifests as slightly lower resolution near the edges of the paper, and slightly higher in the center. The result is wider characters near the edges of the paper, and narrower ones in the center. The 200 pixels per inch is an average. Even the vertical resolution, which is controlled by the speed of the paper slew, is not terribly constant, at least across several days. One may occasionally find that identical output on separate days is not the same length: when you hold the two sheets up to the light, you can see how the characters on one have stretched. To make matters worse, measurements have indicated that the vertical resolution is actually about

192 pixels per inch. Characters are therefore slightly elongated vertically.

The quality of XGP output varies because of differences in toner density as well as placement of and spacing between dots on the paper. On some days, the printing is quite black and thick, and character definition is exceedingly crisp; on other days, even the boldest fonts tend to fade into a gray background. There are many factors which influence the perception of text printed by the XGP, including the kind of paper, the nature of ambient light, the relative placement of text on the page. There are times when a rather light font chosen from the sample sheets will come out quite bold; even identical fonts may appear radically different if printed at different times.

Even if the XGP were operating perfectly all the time, there is still no way to exactly reproduce in a printed volume the appearance of a page of XGP output. Multilith ink and paper have different reflective characteristics than those of toner or XGP paper, so should not be expected to compare. In short, the only way to judge if a particular font is suitable for an application is to print it on the XGP and see.

Caveats About Font Size and Fidelity

The XGP is not able to reproduce a wide variety of type sizes. When a character's size approaches the limit of an output device's resolution, all fonts begin to look alike: there is only one way to make a lower-case "l" a single pixel wide. Even the larger sizes have their problems. Electrostatic repulsion among the toner particles causes the centers of big black areas to become washed out, and large fonts do not fare well.

One very important thing to realize about the XGP is that its resolution is not really very high. Commercially available raster-based photo- or laser-typesetting equipment will produce from 380 to 5300 dots per inch on photosensitive paper or film. Printing ink itself might be considered under similar criteria to have about 500 points per inch resolution. Fonts created for our XGP just will not have the definition and appearance of those for commercial purposes. It is unrealistic to expect our Bodoni fonts to show the fine serifs and high contrast between thick and thin strokes which are its hallmark, or our Baskerville to look like that in even a cheaply set textbook. Since it is difficult if not impossible to make papers look as pretty as professionally typeset works, try to make them readable. Don't let the novelty of a face seduce you: use a bit of care and good taste in choosing adequate fonts.

Names of Font Files

The scheme for naming the vast majority of the XGP font files is historical, and it is doubtful that anyone would be willing to accept the blame or credit for any of it. The original intention was to provide as much information about the font as possible in the name. For example, "25FG KST" indicates a font 25 XGP pixels high, of fixed character widths, and Gothic style (characters with serifs were erroneously called "Roman", while those without were called "Gothic"). Unfortunately, this scheme led to artificial grouping of fonts which bore no familial resemblance except in name. For example, "25FG KST" is of the LPT family (inspired by old line-printer fonts), while "25FG1 KST" belongs to the Gacham family and has different characteristics.

The general format of font names is a size specification (number of XGP pixels), an F or a V to indicate fixed- or variable-width, respectively, a font type of G for Gothic, R for Roman, and possibly a final I or B for italic or bold. Names of special fonts often begin with an S. These conventions were usually adhered to, but were often bent to accommodate special cases. The second names of font files were always "KST" to distinguish MIT format fonts from those elsewhere.

Fonts which were created by the Fonts Support Group during its short life had a somewhat more rational naming scheme. Rather than try and code information into a font name—and there is a good deal more information required to make a decision than will fit into six characters—the choice was to use the family names qualified by size and style. It would be the user's responsibility to remember or find out such characteristics of the font as whether it was fixed or variable width, if it had the SAIL character set, whether it had ligatures or not, if it used an up-arrow or a circumflex, and much more. This is the naming scheme used for the Times family of fonts. A file name of "TIMES 12ROM" indicates the 12-point Roman member of the Times family. Its italic and bold brothers would be "TIMES 12ITAL" and "TIMES 12BOLD", and so on. The first file name is the family name, and the second contains the size in terms of points (printers points, 72.3 to the inch) and the type: "ROM" (reserved for fonts which are truly of Roman character), "ITAL", "BOLD", "BOLDIT", "SPEC" (for special characters peculiar to a given family, such as small capitals), or "PT" (for "point", if there was nothing else more descriptive). The decision to use printers points for size specification instead of XGP pixels was made in order to bring MIT conventions in line with those of the printing and word-processing industries, and thus make interchange more compatible.

Of course, for all this, there are still many fonts whose names come from altogether different considerations, such as fonts from Carnegie-Mellon.

Character Assignments

We are compelled at this point to warn the reader about the assignments of characters to the 128 available Ascii codes. You should expect only token consistency between fonts. It is reasonable to assume that within the English alphabets at least, octal code 40 is a space, 101 is a capital "A", 141 is a lower case "a", and that the rest of the alphabetics, the numerals, and most of the punctuation agree with Ascii standards. But there are many variations. Not all fonts have the SAIL character set, and those that do may only have a subset. A few do not even have all of the 95 printable Ascii characters; others may substitute an up-arrow for a circumflex, or put ligatures on the control characters. One might expect such problems among the foreign alphabets, but could hope for better among the English fonts. Of course, the graphic and symbols fonts have an arbitrary character association. The unfortunate result of the lack of standardization is that the fonts are generally not interchangeable for anything more than straight text. The best way to avoid losing completely is to stick with one set of compatible fonts once you find it.

ENGLISH ALPHABETS

This is the largest of the three divisions in the Catalog. It contains all English alphabets, including those used for program listings and documentation. They all include at least the 26 alphabetic characters (usually both upper and lower case), and most have the regular punctuation found on Ascii keyboards. In addition, many have the SAIL extended character set, or some special typographic characters. Please read the "Explanations and Caveats" section of the Introduction concerning things to expect and not to expect about these fonts.

English Alphabets

Family: Baskerville

The Baskerville family was designed in 1757 by the Englishman John Baskerville, a wealthy amateur whose hobby was printing. It is a Transitional face, so called because it forms a bridge between Old Style and Modern faces (there really are marked differences, but it isn't worth going into here). The letters tend to be very wide for their heights, are closely fitted, and make a very comfortable and readable face. Much of its character, however, is lost in the low resolution of the XGP. It is typically wide-set, great for filling up space when doesn't have a lot to say. It is probably the most popular font on the XGP for technical papers.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS1; 10BAXL KST	V	26	19	27	9	17	12	
FONTS1; 10BAXI KST	V	26	19	26	9	17	12	
FONTS; 27VR KST	V	27	20	28	9	19	17	
FONTS; 30VR KST	V	30	22	31	10	20	14	has ligatures/SAIL
FONTS; 30VRB KST	V	30	22	30	10	20	14	has ligatures/SAIL
FONTS; 30VRI KST	V	30	22	30	10	20	14	has ligatures/SAIL
FONTS1; BAXL30 KST	V	30	22	31	10	20	14	has SAIL characters
FONTS1; BAXB30 KST	V	30	22	30	10	20	14	has SAIL characters
FONTS1; BAXI30 KST	V	30	22	30	10	22	14	has SAIL characters
FONTS1; 30VRE KST	V	30	22	31	10	21	18	
FONTS1; 30VRI1 KST	V	30	22	27	10	21	18	
FONTS1; 30VRZ KST	V	30	22	31	10	21	18	
FONTS1; 30PSCL KST	V	30	25	30	19	24	21	
FONTS; 35VRB KST	V	35	26	35	12	26	22	
FONTS1; BAXL40 KST	V	40	29	41	13	28	24	
FONTS1; 14BAXL KST	V	35	26	36	12	24	17	
FONTS1; 14BAXB KST	V	35	26	35	12	24	17	
FONTS1; 14BAXI KST	V	30	22	30	10	20	14	

000	█	040		100	@	@	140	'	'		
001	↓	↓	041	!	!	101	A	A	141	a	a
002	α	α	042	"	"	102	B	B	142	b	b
003	β	β	043	#	#	103	C	C	143	c	c
004	^	^	044	\$	\$	104	D	D	144	d	d
005	~	~	045	%	%	105	E	E	145	e	e
006	ε	ε	046	&	&	106	F	F	146	f	f
007	π	π	047	'	'	107	G	G	147	g	g
010	λ	λ	050	(	(	110	H	H	150	h	h
011	Υ		051	)	)	111	I	I	151	i	i
012	δ		052	*	*	112	J	J	152	j	j
013	↑	↑	053	+	+	113	K	K	153	k	k
014	±	±	054	,	,	114	L	L	154	l	l
015	⊕		055	-	-	115	M	M	155	m	m
016	∞	∞	056	.	.	116	N	N	156	n	n
017	∂	∂	057	/	/	117	O	O	157	o	o
020	c	c	060	0	0	120	P	P	160	p	p
021	∩	∩	061	1	1	121	Q	Q	161	q	q
022	∩	∩	062	2	2	122	R	R	162	r	r
023	U	U	063	3	3	123	S	S	163	s	s
024	V	V	064	4	4	124	T	T	164	t	t
025	∃	∃	065	5	5	125	U	U	165	u	u
026	⊗	⊗	066	6	6	126	V	V	166	v	v
027	↔	↔	067	7	7	127	W	W	167	w	w
030	←	←	070	8	8	130	X	X	170	x	x
031	→	→	071	9	9	131	Y	Y	171	y	y
032	×	×	072	:	:	132	Z	Z	172	z	z
033	ϕ	~	073	;	;	133	[	/	173	{	{
034	≤	≤	074	<	<	134	\	\	174	|	|
035	≥	≥	075	=	=	135	]	/	175	}	}
036	≡	≡	076	>	>	136	^		176	~	
037	v	v	077	?	?	137	_	_	177	f	

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:_{}
 ↓αβ^~επλ↑±∞∂∩UV∃⊗↔←→×ϕ≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

  SKIP A B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
  ILDB A,B
  JUMP N A,LOOP ;jump unless terminating null
  
```

000	█	█	040	100	e	@	140	'	˘
001	↓	↓	041	!	!		141	a	a
002	α	α	042	"	"		142	b	b
003	β	β	043	#	#		143	c	c
004	^	^	044	\$	\$		144	d	d
005	-	-	045	%	%		145	e	e
006	ε	ε	046	&	&		146	f	f
007	π	π	047	'	'		147	g	g
010	λ	λ	050	(	(		150	h	h
011	γ	γ	051	)	)		151	i	i
012	δ	δ	052	*	*		152	j	j
013	↑	↑	053	+	+		153	k	k
014	±	±	054	,	,		154	l	l
015	⊕	⊕	055	-	-		155	m	m
016	∞	∞	056	.	.		156	n	n
017	∂	∂	057	/	/		157	o	o
020	c	c	060	0	0		160	p	p
021	⊃	⊃	061	1	1		161	q	q
022	∩	∩	062	2	2		162	r	r
023	∪	∪	063	3	3		163	s	s
024	∨	∨	064	4	4		164	t	t
025	∃	∃	065	5	5		165	u	u
026	⊗	⊗	066	6	6		166	v	v
027	↔	↔	067	7	7		167	w	w
030	↑	↑	070	8	8		170	x	x
031	→	→	071	9	9		171	y	y
032	≠	≠	072	:	:		172	z	z
033	◇	◇	073	;	;		173	{	{
034	≤	≤	074	<	<		174	|	|
035	≥	≥	075	=	=		175	}	}
036	≡	≡	076	>	>		176	~	~
037	∨	∨	077	?	?		177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789

! " # \$ % & ' () * + , - . / : ; < = > ? [\] ^ _ { | } ~ ƒ
 █ ↓ α β ^ - ε π λ γ δ † ± ⊕ ∞ ∂ ⊃ ∩ ∪ ∨ ∃ ⊗ ↔ ↑ → ≠ ◇ ≤ ≥ ≡ ∨

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
LOOP: SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to pri
      .IOT TYOC,A
```

English Alphabets

Family: Fixed

A wide-set monospace font (fixed width), it is a little too wide for most applications. It is not unpleasant to read, but should be use sparingly.

Font Name	Pitch	HT	BL	MW	SW	XC	XL
FONTSl; FIXED 12PT	V	33	25	25	25	23	17
FONTSl; FIXED 14PT	F	39	31	25	25	28	21
FONTSl; FIXED 18PT	F	50	38	35	35	35	26
FONTSl; FIXED 24PT	F	67	50	50	50	--	--

000 █	040	100 @	140 ' '
001 ↓	041 !	101 A A	141 a a
002 α	042 "	102 B B	142 b b
003 β	043 #	103 C C	143 c c
004 ^	044 \$ S	104 D D	144 d d
005 ~	045 %	105 E E	145 e e
006 €	046 &	106 F F	146 f f
007 π	047 ' ,	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Y	051))	111 I I	151 i i
012 s	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 >	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 u	063 3 3	123 S S	163 s s
024 Y	064 4 4	124 T T	164 t t
025 E	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ⇨	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

ABCDEFGHIJKLMN O P Q R S T U V W X Y Z

abcdefghijklmnopqrstuvwxyz

0123456789

.,()+,-/:;[]*

THE SPAN BROWN QUINZ PUMPER OVER THE LADY FROG.











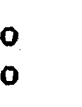





The time has come, the Walrus said,

To talk of many things:

Of shoes and ships and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

020 c	060 0		120 P	P	160 p
021 >	061 1		121 Q	Q	161 q
022 n	062 2		122 R	R	162 r
023 u	063 3		123 S	S	163 s
024 v	064 4		124 T	T	164 t
025 3	065 5		125 U	U	165 u
026 6	066 6		126 V	V	166 v
027 +	067 7		127 W	W	167 w
030 ←	070 8		130 X	X	170 x
031 →	071 9		131 Y	Y	171 y
032 *	072 :		132 Z	Z	172 z
033 ♦	073 ;		133 [	[	173 {
034 ≤	074 <		134 \	\	174 |
035 ≥	075 =		135 ]	]	175 }
036 ≡	076 >		136 ^	^	176 ~
037 v	077 ?		137 _	_	177 f



000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 -	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 '	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 •	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o



A
B
C
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K
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M
N
O



000 █	040	100 e	140 ' °
001 ↓	041 ! !	101 A A	141 a
002 α	042 " "	102 B B	142 b
003 β	043 # #	103 C C	143 c
004 ^	044 \$	104 D D	144 d
005 ~	045 %	105 E E	145 e
006 €	046 &	106 F F	146 f
007 π	047 ' P	107 G G	147 g
010 λ	050 (	110 H H	150 h
011 Y	051)	111 I I	151 i
012 s	052 *	112 J J	152 j
013 ↑	053 + ⊕	113 K K	153 k
014 ±	054 , P	114 L L	154 l
015 ⊕	055 -	115 M M	155 m
016 ∞	056 . °	116 N N	156 n
017 ∂	057 /	117 O O	157 o
020 c	060 0 0	120 P P	160 p
021 >	061 1 1	121 Q Q	161 q
022 n	062 2 2	122 R R	162 r
023 u	063 3 3	123 S S	163 s
024 v	064 4 4	124 T T	164 t
025 z	065 5 5	125 U U	165 u
026 ⊗	066 6 6	126 V V	166 v
027 + ↔	067 7 7	127 W W	167 w
030 ← ↔	070 8 8	130 X X	170 x
031 → →	071 9 9	131 Y Y	171 y
032 * ↔	072 : B	132 Z Z	172 z
033 ♦	073 ; f	133 [ [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

ABCDEFGHIJKLMN O P Q R S T U V W X Y Z

0123456789

! " # \$ % & ' ()

↔ ← → ↔

THE SICK BROWN QUOX JUMPED OVER THE LAZY FROG.

"T "T" W P
 "T" f
 Q P Q P P
 A P P

034 ≤	074 <	134 \	174 |
035 ≥	075 =	135 |	175 }
036 ≡	076 >	136 ^	176 ~
037 ∨	077 ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'(),-.:;?

THE SICK BROWN QUIX JUMPED OVER THE

"The time has come," the Walrus said,

To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y) ;APPEND FILE

(COND ((NULL X) Y)

(C (CONS (CAR X) (APPEND (C

SKIP A B,440700,,ASCII FOOTBAR ;l

LOOP: .JOT QUOC,A

HLDB A,B

JUMP A,LOOP

; jump

000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a a
002 α	042 "	102 B	142 b b
003 β	043 #	103 C	143 c c
004 ^	044 \$	104 D	144 d d
005 -	045 %	105 E	145 e e
006 €	046 &	106 F	146 f f
007 π	047 '	107 G	147 g g
010 λ	050 (	110 H	150 h h
011 γ	051)	111 I	151 i i
012 δ	052 *	112 J	152 j j
013 ↑	053 +	113 K	153 k k
014 ±	054 ,	114 L	154 l l
015 ø	055 -	115 M	155 m m
016 ∞	056 .	116 N	156 n n
017 ð	057 /	117 O	157 o o
020 c	060 0	120 P	160 p p
021 >	061 1	121 Q	161 q q
022 n	062 2	122 R	162 r r
023 u	063 3	123 S	163 s s
024 v	064 4	124 T	164 t t
025 ß	065 5	125 U	165 u u
026 ø	066 6	126 V	166 v v
027 ↔	067 7	127 W	167 w w
030 ←	070 8	130 X	170 x x
031 →	071 9	131 Y	171 y y
032 ≠	072 :	132 Z	172 z z
033 ♦	073 ;	133 [	173 [

000 █	040	100 @	140 '
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # "	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % ¢	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Y	051))	111 I I	151 i i
012 s	052 *	112 J J	152 j j
013 ↑	053 +	113 K K	153 k k
014 ±	054 , .	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∩	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 E	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ↗	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ? ?	137 _	177 f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-.:;?@

THE SICK BROWN QUIX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

To talk of many things:

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

:APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

LOOP: SKIP A B.440700..ASCIZ FOOBAR

:loop to print chars

.JOC THOC.A

000	█	040		100	e	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	-	045	%	105	E	145	e
006	€	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	E	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	ƒ

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 a b c d e f g h i j k l m n o p q r s t u v w x y z
 0123456789
 :~

THE SICK BROWN OXEN JUMPED OVER THE LAZY FROG.

The time has come, the Matrix said,
 To talk of many things:
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings.

DEFUN AHEAD X U ;APPEND FUNCTION FOR LISP
 COND XUE X U
 T COXS CAR X APPEND CR X U

LOOP: SRMA H40700,ASCII FOOMAR ;loop to print chars
 JOT TUC A
 HON A U
 WAMP A LOOP ;jump unless terminating null

000 █	040	100 e	140 '
001 ↓	041 !	101 A <i>A</i>	141 a <i>a</i>
002 α	042 "	102 B <i>B</i>	142 b <i>b</i>
003 β	043 #	103 C <i>C</i>	143 c <i>c</i>
004 ^	044 \$	104 D <i>D</i>	144 d <i>d</i>
005 ~	045 %	105 E <i>E</i>	145 e <i>e</i>
006 €	046 &	106 F <i>F</i>	146 f <i>f</i>
007 π	047 '	107 G <i>G</i>	147 g <i>g</i>
010 λ	050 (	110 H <i>H</i>	150 h <i>h</i>
011 γ	051)	111 I <i>I</i>	151 i <i>i</i>
012 δ	052 *	112 J <i>J</i>	152 j <i>j</i>
013 ↑	053 +	113 K <i>K</i>	153 k <i>k</i>
014 ±	054 , ,	114 L <i>L</i>	154 l <i>l</i>
015 ⊕	055 -	115 M <i>M</i>	155 m <i>m</i>
016 ∞	056 . .	116 N <i>N</i>	156 n <i>n</i>
017 ∂	057 /	117 O <i>O</i>	157 o <i>o</i>
020 c	060 0 0	120 P <i>P</i>	160 p <i>p</i>
021 >	061 1 1	121 Q <i>Q</i>	161 q <i>q</i>
022 n	062 2 2	122 R <i>R</i>	162 r <i>r</i>
023 u	063 3 3	123 S <i>S</i>	163 s <i>s</i>
024 v	064 4 4	124 T <i>T</i>	164 t <i>t</i>
025 ∃	065 5 5	125 U <i>U</i>	165 u <i>u</i>
026 ⊙	066 6 6	126 V <i>V</i>	166 v <i>v</i>
027 ⇄	067 7 7	127 W <i>W</i>	167 w <i>w</i>
030 ←	070 8 8	130 X <i>X</i>	170 x <i>x</i>
031 →	071 9 9	131 Y <i>Y</i>	171 y <i>y</i>
032 ≠	072 : :	132 Z <i>Z</i>	172 z <i>z</i>
033 ♦	073 ; ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ABCDEFGHIJKLMN OPQRSTUVWXYZ

abcdefghijklmnpqrstu vwxyz

0123456789

...:

000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a a
002 α	042 "	102 B	142 b b
003 β	043 #	103 C	143 c c
004 ^	044 \$	104 D	144 d d
005 ~	045 %	105 E	145 e e
006 €	046 &	106 F	146 f f
007 π	047 ' .	107 G	147 g g
010 λ	050 ( (	110 H	150 h h
011 Y	051))	111 I	151 i i
012 s	052 *	112 J	152 j j
013 ↑	053 +	113 K	153 k k
014 ±	054 , ,	114 L	154 l l
015 ø	055 - -	115 M	155 m m
016 ∞	056 . .	116 N	156 n n
017 ð	057 /	117 O	157 o o
020 c	060 0 0	120 P	160 p p
021 >	061 1 1	121 Q	161 q q
022 n	062 2 2	122 R	162 r r
023 U	063 3 3	123 S	163 s s
024 V	064 4 4	124 T	164 t t
025 E	065 5 5	125 U	165 u u
026 ø	066 6 6	126 V	166 v v
027 ⇄	067 7 7	127 W	167 w w
030 ←	070 8 8	130 X	170 x x
031 →	071 9 9	131 Y	171 y y
032 ✕	072 :	132 Z	172 z z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ? ?	137 _	177 j

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
0 1 2 3 4 5 6 7 8 9
' () , - . ?

THE SICK BROWN QUUX JUMPED OVER THE TA
The time has come, the Walrus said,
To talk of many things

000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a a
002 α	042 "	102 B	142 b b
003 β	043 #	103 C	143 c c
004 ^	044 \$	104 D	144 d d
005 -	045 %	105 E	145 e e
006 €	046 &	106 F	146 f f
007 π	047 '	107 G	147 g g
010 λ	050 (	110 H	150 h h
011 γ	051)	111 I	151 i i
012 δ	052 *	112 J	152 j j
013 ↑	053 +	113 K	153 k k
014 ±	054 , ,	114 L	154 l l
015 ⊙	055 -	115 M	155 m m
016 ∞	056 . .	116 N	156 n n
017 ∂	057 /	117 O	157 o o
020 c	060 0 0	120 P	160 p p
021 >	061 1 1	121 Q	161 q q
022 n	062 2 2	122 R	162 r r
023 u	063 3 3	123 S	163 s s
024 v	064 4 4	124 T	164 t t
025 ∃	065 5 5	125 U	165 u u
026 ⊙	066 6 6	126 V	166 v v
027 ⇨	067 7 7	127 W	167 w w
030 ←	070 8 8	130 X	170 x x
031 →	071 9 9	131 Y	171 y y
032 ≠	072 : :	132 Z	172 z z
033 ♦	073 ; ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
...:

THE SICK BROWN QUWX JUMPED OVER THE LAZY FROG.

The time has come, the Walrus said,
 To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings.

DEFUN APPEND X Y

:APPEND FUNCTION F

000 █	040
001 ↓	041 !
002 α	042 "
003 β	043 #
004 ^	044 \$
005 -	045 %
006 €	046 &
007 π	047 '
010 λ	050 (
011 γ	051)
012 δ	052 *
013 ↑	053 +
014 ±	054 ,
015 φ	055 -
016 ∞	056 .
017 ∂	057 /
020 c	060 0
021 >	061 1
022 n	062 2
023 u	063 3
024 v	064 4
025 E	065 5
026 φ	066 6
027 +	067 7
030 ←	070 8

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7
8

100 e		140 ' a
101 A	A	141 a a
102 B	B	142 b b
103 C	C	143 c c
104 D	D	144 d d
105 E	E	145 e e
106 F	F	146 f f
107 G	G	147 g g
110 H	H	150 h h
111 I	I	151 i i
112 J	J	152 j j
113 K	K	153 k k
114 L	L	154 l l
115 M	M	155 m m
116 N	N	156 n n
117 O	O	157 o o
120 P	P	160 p p
121 Q	Q	161 q q
122 R	R	162 r r
123 S	S	163 s s
124 T	T	164 t t
125 U	U	165 u u
126 V	V	166 v v
127 W	W	167 w w
130 X	X	170 x x

000 █	040	100 @	140 ' °
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 #	103 C C	143 c c
004 ^	044 \$	104 D D	144 d d
005 -	045 %	105 E E	145 e e
006 €	046 &	106 F F	146 f f
007 π	047 ' °	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 *	112 J J	152 j j
013 ↑	053 +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊙	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∩	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 ∩	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ↔	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 [[
034 ≤	074 <	134 \	174 |
035 ≥	075 = =	135]]	175]]
036 ≡	076 >	136 ^	176 ~
037 ∨	077 ? ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;=?@[]

THE SICK BROWN QUAX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
 (COND ((NULL X) Y)
 (T (CONS (CAR X) (APPEND (CDR X) Y))))

English Alphabets

Family: Decorative

Collected here are the decorative English alphabet type faces. They are not suitable for long strings of text, but only for "display" purposes. That is why they appear by and large only in the larger sizes. Resist the temptation to mix them with normal text, as they tend to stand out too much and distract the reader. They are usually acceptable when used in signs or announcements.

The heritage of most of these fonts is not traceable. The Monastic scripts came to us from CMU, but were designed by an art student at the University of Illinois. The SCRIPT 12PT was digitized and edited by us.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; 36VBEE KST	V	36	29	38	9	29	26	Bocklin
FONTS; 75VBEE KST	V	73	58	75	17	58	54	Bocklin
FONTS1; 37VXMS KST	V	37	28	44	16	27	24	"Christmas Card"
FONTS; 43VXMS KST	V	43	35	56	19	35	29	"Christmas Card"
FONTS1; 48SCRP KST	V	48	37	51	13	37	24	Coronet (script)
FONTS1; 30VMS KST	V	30	22	26	15	22	17	manuscript
FONTS1; MONA33 KST	V	33	25	31	16	24	14	Monastic script
FONTS1; MONA66 KST	V	66	51	62	32	51	43	Monastic script
FONTS; 40VSHD KST	V	40	32	38	29	32	--	shadowed capitals
FONTS; 57VSGN KST	V	57	50	95	40	50	--	sign-making capitals
FONTS; 114VSG KST	V	112	100	189	78	100	--	BIG sign-making caps
FONTS1; SCRIPT 12PT	V	40	27	40	14	26	9	Typo script

000 █	Γ	040 ∅	100 e	Ø	140 ‘	‘
001 ↓	Δ	041 !	101 A	A	141 a	a
002 α	⊖	042 " "	102 B	B	142 b	b
003 β	Λ	043 #	103 C	C	143 c	c
004 ^	Ξ	044 \$ ∞	104 D	D	144 d	d
005 -	Π	045 % %	105 E	E	145 e	e
006 €	Σ	046 & &	106 F	F	146 f	f
007 π	Υ	047 ' ’	107 G	G	147 g	g
010 λ	Φ	050 ( (	110 H	H	150 h	h
011 γ	Ψ	051))	111 I	I	151 i	i
012 δ	Ω	052 * *	112 J	J	152 j	j
013 ↑	l	053 + +	113 K	K	153 k	k
014 ±	J	054 , ,	114 L	L	154 l	l
015 ⊙	‘	055 - -	115 M	M	155 m	m
016 ∞	^	056 . .	116 N	N	156 n	n
017 ∂	∨	057 / /	117 O	O	157 o	o
020 c	∨	060 0 0	120 P	P	160 p	p
021 ∃	∨	061 1 1	121 Q	Q	161 q	q
022 n	-	062 2 2	122 R	R	162 r	r
023 u	::	063 3 3	123 S	S	163 s	s
024 v	~	064 4 4	124 T	T	164 t	t
025 ∃	→	065 5 5	125 U	U	165 u	u
026 ⊙	"	066 6 6	126 V	V	166 v	v
027 +	°	067 7 7	127 W	W	167 w	w
030 ←	∨	070 8 8	130 X	X	170 x	x
031 →	/	071 9 9	131 Y	Y	171 y	y
032 *	(	072 : :	132 Z	Z	172 z	z
033 ♦	β	073 ; ;	133 [	[	173 {	ff
034 ≤	æ	074 < <	134 \	\	174 |	fi

000	■	Г	040	♣	100	⊙	140	·
001	↓	Δ	041	!	101	A	141	a
002	α	⊙	042	"	102	B	142	b
003	β	A	043	#	103	C	143	c
004	^	≡	044	\$	104	D	144	d
005	¬	Π	045	%	105	E	145	e
006	€	Σ	046	&	106	F	146	f
007	π	Υ	047	'	107	G	147	g
010	λ	⊕	050	(	110	H	150	h
011	Υ	⊖	051	)	111	I	151	i
012	ς	Ω	052	*	112	J	152	j
013	↑	|	053	+	113	K	153	k
014	±	·	054	,	114	L	154	l
015	⊕	·	055	-	115	M	155	m
016	∞	·	056	.	116	N	156	n
017	∂	·	057	/	117	O	157	o
020	c	·	060	0	120	P	160	p
021	▷	·	061	1	121	Q	161	q
022	∩	·	062	2	122	R	162	r
023	U	·	063	3	123	S	163	s
024	V	·	064	4	124	T	164	t
025	∃	·	065	5	125	U	165	u
026	⊗	·	066	6	126	V	166	v
027	↔	·	067	7	127	W	167	w
030	←	·	070	8	130	X	170	x
031	→	·	071	9	131	Y	171	y
032	≠	·	072	:	132	Z	172	z
033	♠	Β	073	;	133	[	173	{
034	≤	⊖	074	<	134	\	174	|
035	≥	⊕	075	=	135	]	175	}
036	≡	Æ	076	>	136	^	176	~
037	√	Œ	077	?	137	_	177	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

000 █	Γ	040	ı	100 e	J	140	'
001 ↓	Δ	041 !	!	101 A	A	141 a	a
002 α	Θ	042 "	"	102 B	B	142 b	b
003 β	Λ	043 #	ℓ	103 C	C	143 c	c
004 ^	Ξ	044 \$	ϕ	104 D	D	144 d	d
005 -	Π	045 %	∂	105 E	E	145 e	e
006 €	Σ	046 &	⊗	106 F	F	146 f	f
007 π	Υ	047 ' ,	'	107 G	G	147 g	g
010 λ	Φ	050 (	(	110 H	H	150 h	h
011 Υ	Ψ	051 )	)	111 I	I	151 i	i
012 δ	Ω	052 *	*	112 J	J	152 j	j
013 ↑	α	053 +	+	113 K	K	153 k	k
014 ±	β	054 ,	,	114 L	L	154 l	l
015 ⊕	γ	055 -	-	115 M	M	155 m	m
016 ∞	δ	056 .	.	116 N	N	156 n	n
017 ∂	ε	057 /	/	117 O	O	157 o	o
020 c	ς	060 0	0	120 P	P	160 p	p
021 >	η	061 1	1	121 Q	Q	161 q	q
022 n	θ	062 2	2	122 R	R	162 r	r
023 u	ι	063 3	3	123 S	S	163 s	s
024 v	κ	064 4	4	124 T	T	164 t	t
025 3	λ	065 5	5	125 U	U	165 u	u
026 ⊙	μ	066 6	6	126 V	V	166 v	v
027 ⇨	ν	067 7	7	127 W	W	167 w	w
030 ←	ξ	070 8	8	130 X	X	170 x	x
031 →	π	071 9	9	131 Y	Y	171 y	y
032 ≠	ρ	072 :	:	132 Z	Z	172 z	z
033 ♦	σ	073 ;	;	133 [	[	173 {	ψ
034 ≤	τ	074 <	<	134 \	"	174 |	ω
035 ≥	υ	075 =	=	135 ]	]	175 }	φ
036 ≡	φ	076 >	>	136 ^	-	176 ~	∂
037 v	χ	077 ?	?	137 _	-	177 ∫	ω

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?@[`~ψωρθα

ΓΔΘΛΞΠΣΥΦΨΩαβγδεζηθικλμξπρστυφχ

THE₁SICK₁BROWN₁QUUX₁JUMPED₁OVER₁THE₁LAZY₁FROG.

"The time has come," the Walrus said,
 "to talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

(DEFUN₁APPEND₁(X₁Y)
 uuu(COND₁((NULL₁X)₁Y)

;APPEND₁FUNCTION₁FOR₁LISP

000 █	Γ	040	!	100 e	j	140	'
001 ↓	Δ	041 !	!	101 A	A	141 a	a
002 α	Θ	042 "	"	102 B	B	142 b	b
003 β	Λ	043 #	#	103 C	C	143 c	c
004 ^	Ξ	044 \$	\$	104 D	D	144 d	d
005 -	Π	045 %	%	105 E	E	145 e	e
006 €	Σ	046 &	&	106 F	F	146 f	f
007 π	Υ	047 ' ,	'	107 G	G	147 g	g
010 λ	Φ	050 (	(	110 H	H	150 h	h
011 Υ	Ψ	051 )	)	111 I	I	151 i	i
012 ς	Ω	052 *	*	112 J	J	152 j	j
013 ↑	α	053 +	+	113 K	K	153 k	k
014 ±	β	054 ,	,	114 L	L	154 l	l
015 ⊕	γ	055 -	-	115 M	M	155 m	m
016 ∞	δ	056 .	.	116 N	N	156 n	n
017 ∂	ε	057 /	/	117 O	O	157 o	o
020 c	ς	060 0	0	120 P	P	160 p	p
021 ∘	η	061 1	1	121 Q	Q	161 q	q
022 η	θ	062 2	2	122 R	R	162 r	r
023 U	ι	063 3	3	123 S	S	163 s	s
024 Υ	κ	064 4	4	124 T	T	164 t	t
025 ∃	λ	065 5	5	125 U	U	165 u	u
026 ⊙	μ	066 6	6	126 V	V	166 v	v
027 ⇄	ν	067 7	7	127 W	W	167 w	w
030 †	ξ	070 8	8	130 X	X	170 x	x
031 →	π	071 9	9	131 Y	Y	171 y	y
032 ≠	ρ	072 :	:	132 Z	Z	172 z	z
033 ♦	σ	073 ;	;	133 [	[	173 {	ψ
034 ≤	τ	074 <	<	134 \	\	174 |	ω
035 ≥	υ	075 =	=	135 ]	]	175 }	φ
036 ≡	φ	076 >	>	136 ^	^	176 ~	θ
037 ∨	χ	077 ?	?	137 _	_	177 /	ω

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?["]—ψωφθ
 ΓΔΘΛΞΠΣΥΦΨΩαβγδεζηθικλμνξπρστυφχ

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

"Thetimeshascome,"ithesWalrusisaid,
 u"Totalkiofmanythings;
 Ofshoes,ilandships,ilandsealingiwax,
 uOficabbagesilandkings,
 Andwhytheseaisisboilinghot,
 uAndwhetheripigshaveiwings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

(LOOP SKIP A B, [440700,, [ASCIZ "FOOBAR "]] ;loopsto print chars
  LOOP: IOT TYOC, A
  I LDB A, B
  JUMP N A, LOOP ;jump unless terminating null
  
```


000	█	Γ	040	⊙	100	⊙	140	'	'
001	↓	Δ	041	!	101	A	141	a	A
002	α	⊖	042	"	102	B	142	b	B
003	β	Λ	043	#	103	C	143	c	C
004	^	Ξ	044	\$	104	D	144	d	D
005	-	Π	045	%	105	E	145	e	E
006	ε	Σ	046	&	106	F	146	f	F
007	π	Υ	047	'	107	G	147	g	G
010	λ	Φ	050	(	110	H	150	h	H
011	Υ	Ψ	051	)	111	I	151	i	I
012	δ	Ω	052	*	112	J	152	j	J
013	↑	ι	053	+	113	K	153	k	K
014	±	ϰ	054	,	114	L	154	l	L
015	⊙	·	055	-	115	M	155	m	M
016	∞	·	056	.	116	N	156	n	N
017	∂	·	057	/	117	O	157	o	O
020	c	·	060	0	120	P	160	p	P
021	∩	·	061	1	121	Q	161	q	Q
022	∩	·	062	2	122	R	162	r	R
023	U	·	063	3	123	S	163	s	S
024	V	·	064	4	124	T	164	t	T
025	E	·	065	5	125	U	165	u	U
026	⊙	·	066	6	126	V	166	v	V
027	⊙	·	067	7	127	W	167	w	W
030	↑	·	070	8	130	X	170	x	X
031	→	·	071	9	131	Y	171	y	Y
032	*	·	072	:	132	Z	172	z	Z
033	⊙	B	073	;	133	[	173	{	f
034	≤	æ	074	<	134	\	174	|	f
035	≥	æ	075	=	135	]	175	}	f
036	≡	Æ	076	>	136	^	176	~	f
037	v	Œ	077	?	137	_	177	ſ	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
 0123456789

!"'∞%&'()*+,-./:;<=>?[*]—ffiffiffi
 ΓΔΘΛΞΠΣΥΦΨΩιϰ·.....·,·BæœÆŒ

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

"THE,TIME,HAS,COME,"THE,WALRUS,SAID,
 \$\$\$"TO,TALK,OF,MANY,THINGS;
 OF,SHOES,AND,SHIPS,AND,SEALING,WAX,
 \$\$\$OF,CABBAGES,AND,KINGS,
 AND,WHY,THE,SEA,IS,BOILING,HOT,
 \$\$\$AND,WHETHER,PIGS,HAVE,WINGS."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
  (T (CONS (CAR X) (APPEND (CDR X) Y))))
```

```
#####SKIPA B,[440700, [ASCIZ "FOOBAR"]] ;LOOP TO PRINT CHARS
LOOP:###.IOT TYOC,A
#####ILDB A,B
#####JUMP N A,LOOP ;JUMP UNLESS TERMINATING NULL
```

000	█	Γ	040	∅	100	e	∅	140	'	'
001	↓	Δ	041	!	101	A	A	141	a	a
002	α	Θ	042	"	102	B	B	142	b	b
003	β	Λ	043	#	103	C	C	143	c	c
004	^	Ξ	044	\$	104	D	D	144	d	d
005	-	Π	045	%	105	E	E	145	e	e
006	€	Σ	046	&	106	F	F	146	f	f
007	π	Υ	047	'	107	G	G	147	g	g
010	λ	Φ	050	(	110	H	H	150	h	h
011	Υ	Ψ	051	)	111	I	I	151	i	i
012	ς	Ω	052	*	112	J	J	152	j	j
013	↑	ι	053	+	113	K	K	153	k	k
014	±	Ͽ	054	,	114	L	L	154	l	l
015	⊕	⋯	055	-	115	M	M	155	m	m
016	∞	⋮	056	.	116	N	N	156	n	n
017	∂	⋰	057	/	117	O	O	157	o	o
020	c	⋱	060	0	120	P	P	160	p	p
021	∩	⋲	061	1	121	Q	Q	161	q	q
022	∪	⋳	062	2	122	R	R	162	r	r
023	U	⋴	063	3	123	S	S	163	s	s
024	V	⋵	064	4	124	T	T	164	t	t
025	∃	⋶	065	5	125	U	U	165	u	u
026	⊙	⋷	066	6	126	V	V	166	v	v
027	⊕	⋸	067	7	127	W	W	167	w	w
030	†	⋹	070	8	130	X	X	170	x	x
031	→	⋺	071	9	131	Y	Y	171	y	y
032	κ	⋻	072	:	132	Z	Z	172	z	z
033	⋄	⋼	073	;	133	[	[	173	{	{
034	≤	⋽	074	<	134	\	\	174	|	|
035	≥	⋾	075	=	135	]	]	175	}	}
036	≡	⋿	076	>	136	^	^	176	~	~
037	v	⊀	077	?	137	_	_	177	⌘	⌘

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?@[]_`~{|}~
 ΓΔΘΛΞΠΣΥΦΨΩι⋮⋰⋱⋲⋳⋴⋵⋶⋷⋸⋹⋺⋻⋼⋽⋾⋿⊀

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

"The time has come," the Walrus said,
 to talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

(loop to print chars
  (SKIP A B [440700, [ASCIZ "FOOBAR"]
  LOOP: IOT TYOC, A
  ILDB A, B
  JUMP N A, LOOP
  jump unless terminating null
  
```


000	■	Γ	040	∅	100	e	Ø	140	'	'	
001	↓	Δ	041	!	!	101	A	A	141	a	a
002	α	Θ	042	"	"	102	B	B	142	b	b
003	β	Λ	043	#	'	103	C	C	143	c	c
004	^	Ξ	044	\$	∞	104	D	D	144	d	d
005	~	Π	045	%	%	105	E	E	145	e	e
006	€	Σ	046	&	&	106	F	F	146	f	f
007	π	Υ	047	'	'	107	G	G	147	g	g
010	λ	Φ	050	(	(	110	H	H	150	h	h
011	Υ	Ψ	051	)	)	111	I	I	151	i	i
012	ς	Ω	052	*	*	112	J	J	152	j	j
013	↑	ι	053	+	+	113	K	K	153	k	k
014	±	ϋ	054	,	,	114	L	L	154	l	l
015	⊙	Ϙ	055	-	-	115	M	M	155	m	m
016	∞	ϙ	056	.	.	116	N	N	156	n	n
017	∂	Ϛ	057	/	/	117	O	O	157	o	o
020	c	ϛ	060	0	0	120	P	P	160	p	p
021	∋	Ϝ	061	1	1	121	Q	Q	161	q	q
022	∩	ϝ	062	2	2	122	R	R	162	r	r
023	∪	Ϟ	063	3	3	123	S	S	163	s	s
024	∩	ϟ	064	4	4	124	T	T	164	t	t
025	∩	Ϡ	065	5	5	125	U	U	165	u	u
026	⊙	ϡ	066	6	6	126	V	V	166	v	v
027	↔	Ϣ	067	7	7	127	W	W	167	w	w
030	←	ϣ	070	8	8	130	X	X	170	x	x
031	→	Ϥ	071	9	9	131	Y	Y	171	y	y
032	*	ϥ	072	:	:	132	Z	Z	172	z	z
033	♦	Ϧ	073	;	;	133	[	[	173	l	ff
034	≤	ϧ	074	<	<	134	\	"	174	|	fi
035	≥	Ϩ	075	=	=	135	]	]	175	l	fi
036	≡	ϩ	076	>	>	136	^	-	176	~	ffi
037	v	Ϫ	077	?	?	137	_	-	177	j	ffi

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"'∞%&'()*+,-./:;<=>?!["]—ffiffiffi

ΓΔΘΛΞΠΣΥΦΨΩιϋϚϛϜϝϞϟϠϡϢϣϤϥϦϧϨϩϪ

THE∅SICK∅BROWN∅QUUX∅JUMPED∅OVER∅THE∅LAZY∅FROG.

"The∅time∅has∅come,"∅the∅Walrus∅said,
∅∅∅"To∅talk∅of∅many∅things;
Of∅shoes,∅and∅ships,∅and∅sealing∅wax,
∅∅∅Of∅cabbages∅and∅kings,
And∅why∅the∅sea∅is∅boiling∅hot,
∅∅∅And∅whether∅pigs∅have∅wings."

(DEFUN∅APPEND∅(X∅Y)
∅∅∅∅∅(COND∅((NULL∅X)∅Y)

;APPEND∅FUNCTION∅FOR∅LISP

000	■	Γ	040	∅	100	∅	140	'	'
001	↓	Δ	041	!	101	A	141	a	a
002	α	Θ	042	"	102	B	142	b	b
003	β	Λ	043	#	103	C	143	c	c
004	^	Ξ	044	\$	104	D	144	d	d
005	-	Π	045	%	105	E	145	e	e
006	ε	Σ	046	&	106	F	146	f	f
007	π	Υ	047	'	107	G	147	g	g
010	λ	Φ	050	(	110	H	150	h	h
011	Υ	Ψ	051	)	111	I	151	i	i
012	ς	Ω	052	*	112	J	152	j	j
013	↑	ι	053	+	113	K	153	k	k
014	±	ϋ	054	,	114	L	154	l	l
015	⊙	Ϙ	055	-	115	M	155	m	m
016	∞	ϙ	056	.	116	N	156	n	n
017	∂	Ϛ	057	/	117	O	157	o	o
020	c	ϛ	060	0	120	P	160	p	p
021	∩	Ϝ	061	1	121	Q	161	q	q
022	∩	ϝ	062	2	122	R	162	r	r
023	U	Ϟ	063	3	123	S	163	s	s
024	Y	ϟ	064	4	124	T	164	t	t
025	∃	Ϡ	065	5	125	U	165	u	u
026	⊙	ϡ	066	6	126	V	166	v	v
027	⊕	Ϣ	067	7	127	W	167	w	w
030	†	ϣ	070	8	130	X	170	x	x
031	→	Ϥ	071	9	131	Y	171	y	y
032	⋈	ϥ	072	:	132	Z	172	z	z
033	⋄	Ϧ	073	;	133	[	173	{	ff
034	≤	ϧ	074	<	134	\	174	|	fi
035	≥	Ϩ	075	=	135	]	175	}	fi
036	≡	ϩ	076	>	136	^	176	~	ffi
037	∨	Ϫ	077	?	137	_	177	f	ffi

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?["]—ffiffiffi
 ΓΔΘΛΞΠΣΥΦΨΩϋϘϙϚϛϜϝϞϟϠϡϢϣϤϥϦϧϨϩϪ

THE∅SICK∅BROWN∅QUUX∅JUMPED∅OVER∅THE∅LAZY∅FROG.

"The∅time∅has∅come,"∅the∅Walrus∅said,
 ∅∅∅"To∅talk∅of∅many∅things;
 Of∅shoes,∅and∅ships,∅and∅sealing∅wax,
 ∅∅∅Of∅cabbages∅and∅kings,
 And∅why∅the∅sea∅is∅boiling∅hot,
 ∅∅∅And∅whether∅pigs∅have∅wings."

```

(DEFUN∅APPEND∅(X∅Y) ;APPEND∅FUNCTION∅FOR∅LISP
∅∅∅∅∅(COND∅((NULL∅X)∅Y)
∅∅∅∅∅∅∅(T∅(CONS∅(CAR∅X)∅(APPEND∅(CDR∅X)∅Y))))))

```

```

∅∅∅∅∅∅∅SKIP∅A∅B,[440700,,[ASCIZ∅"FOOBAR"]] ;loop∅to∅print∅chars
LOOP:∅∅∅∅.IOT∅TYOC,A
∅∅∅∅∅∅∅ILDB∅A,B
∅∅∅∅∅∅∅JUMPN∅A,LOOP ;jump∅unless∅terminating∅null

```


000 █ Γ	040 ı	100 e j	140 ' '
001 ↓ Δ	041 ! !	101 A A	141 a a
002 α Θ	042 " "	102 B B	142 b b
003 β Λ	043 # ℓ	103 C C	143 c c
004 ^ Ε	044 \$ ρ	104 D D	144 d d
005 ~ Π	045 % ϑ	105 E E	145 e e
006 ε Σ	046 & ϑ	106 F F	146 f f
007 π Υ	047 ' '	107 G G	147 g g
010 λ Φ	050 ( (	110 H H	150 h h
011 γ Ψ	051))	111 I I	151 i i
012 ς Ω	052 * *	112 J J	152 j j
013 ↑ α	053 + +	113 K K	153 k k
014 ± β	054 , ,	114 L L	154 l l
015 ⊙ γ	055 - -	115 M M	155 m m
016 ∞ δ	056 . .	116 N N	156 n n
017 ∂ ε	057 / /	117 O O	157 o o
020 c ζ	060 0 0	120 P P	160 p p
021 > η	061 1 1	121 Q Q	161 q q
022 n θ	062 2 2	122 R R	162 r r
023 u ι	063 3 3	123 S S	163 s s
024 v κ	064 4 4	124 T T	164 t t
025 ∃ λ	065 5 5	125 U U	165 u u
026 ⊙ μ	066 6 6	126 V V	166 v v
027 + ν	067 7 7	127 W W	167 w w
030 ← ξ	070 8 8	130 X X	170 x x
031 → π	071 9 9	131 Y Y	171 y y
032 × ρ	072 : :	132 Z Z	172 z z
033 ♦ σ	073 ; ;	133 [ [	173 { ψ
034 ≤ τ	074 < <	134 \ "	174 | ω
035 ≥ υ	075 = =	135]]	175 } φ
036 ≡ φ	076 > >	136 ^ -	176 ~ ϑ
037 v χ	077 ? ?	137 _ -	177 f ω

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?@[\] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 u "To talk of many things;
 Of shoes, and ships, and sealing wax,
 u Of cabbages and kings,
 And why the sea is boiling hot,
 u And whether pigs have wings."

(DEFUN APPEND (X Y)
 uuu(COND ((NULL X) Y)

APPEND FUNCTION FOR LISP

000	█	Γ	040	!	!	100	@	Ⓜ	140	'	'
001	↓	Δ	041	!	/	101	A	A	141	a	a
002	α	Θ	042	"	"	102	B	B	142	b	b
003	β	Λ	043	#	ℓ	103	C	C	143	c	c
004	^	Ξ	044	\$	ρ	104	D	D	144	d	d
005	~	Π	045	%	θ	105	E	E	145	e	e
006	€	Σ	046	&	ϑ	106	F	F	146	f	f
007	π	Υ	047	'	'	107	G	G	147	g	g
010	λ	Φ	050	(	(	110	H	H	150	h	h
011	Υ	Ψ	051	)	)	111	I	I	151	i	i
012	ς	Ω	052	*	*	112	J	J	152	j	j
013	↑	α	053	+	+	113	K	K	153	k	k
014	±	β	054	,	,	114	L	L	154	l	l
015	⊕	γ	055	-	-	115	M	M	155	m	m
016	∞	δ	056	.	.	116	N	N	156	n	n
017	∂	ε	057	/	/	117	O	O	157	o	o
020	ς	ς	060	0	0	120	P	P	160	p	p
021	⊃	η	061	1	1	121	Q	Q	161	q	q
022	∩	θ	062	2	2	122	R	R	162	r	r
023	∪	ι	063	3	3	123	S	S	163	s	s
024	∨	κ	064	4	4	124	T	T	164	t	t
025	∃	λ	065	5	5	125	U	U	165	u	u
026	⊗	μ	066	6	θ	126	V	V	166	v	v
027	⊕	ν	067	7	7	127	W	W	167	w	w
030	←	ξ	070	8	8	130	X	X	170	x	x
031	→	π	071	9	9	131	Y	Y	171	y	y
032	≠	ρ	072	:	:	132	Z	Z	172	z	z
033	◇	σ	073	;	;	133	[	[	173	{	ψ
034	≤	τ	074	<	<	134	\	"	174	|	ω
035	≥	υ	075	=	≡	135	]	]	175	}	φ
036	≡	φ	076	>	>	136	^	-	176	~	θ
037	∨	χ	077	?	?	137	_	-	177	⌋	ω

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?["]—ψωφθω
 ΓΔΘΛΞΠΣΤΦΨΩαβγδεζηθικλμνεπρστυφχ

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

(LOOP (SKIP A B, [440700,, [ASCIZ "FOOBAR "]) ;loop to print chars
      LOOP: IOT TYOC, A
      (LDB A, B
        (JUMP N A, LOOP ;jump unless terminating null

```

000	█	Γ	040	,	100	@	,	140	'	'
001	↓	Δ	041	!	101	A	A	141	a	a
002	α	Θ	042	"	102	B	B	142	b	b
003	β	Λ	043	#	103	C	C	143	c	c
004	^	Ξ	044	\$	104	D	D	144	d	d
005	~	Π	045	%	105	E	E	145	e	e
006	€	Σ	046	&	106	F	F	146	f	f
007	π	Υ	047	'	107	G	G	147	g	g
010	λ	Φ	050	(	110	H	H	150	h	h
011	Υ	Ψ	051	)	111	I	I	151	i	i
012	δ	Ω	052	*	112	J	J	152	j	j
013	↑	α	053	+	113	K	K	153	k	k
014	±	β	054	,	114	L	L	154	l	l
015	⊕	γ	055	-	115	M	M	155	m	m
016	∞	δ	056	.	116	N	N	156	n	n
017	∂	ε	057	/	117	O	O	157	o	o
020	c	ι	060	0	120	P	P	160	p	p
021	∩	η	061	1	121	Q	Q	161	q	q
022	∩	θ	062	2	122	R	R	162	r	r
023	U	ι	063	3	123	S	S	163	s	s
024	V	κ	064	4	124	T	T	164	t	t
025	∃	λ	065	5	125	U	U	165	u	u
026	⊕	μ	066	6	126	V	V	166	v	v
027	⊕	ν	067	7	127	W	W	167	w	w
030	←	ξ	070	8	130	X	X	170	x	x
031	→	π	071	9	131	Y	Y	171	y	y
032	≠	ρ	072	:	132	Z	Z	172	z	z
033	◇	σ	073	;	133	[	[	173	{	{
034	≤	τ	074	<	134	\	.	174	|	|
035	≥	υ	075	=	135	]	]	175	}	}
036	≡	φ	076	>	136	^	-	176	~	~
037	v	χ	077	?	137	_	-	177	f	w

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyx

0123456789

!"#\$%&'()*+,-./:;<=>?["]—φωρθω

ΓΔΘΛΞΠΨΥΦΩΠαβγδεζηθικλμνξπρστυφχ

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

"Thetimeshastcome,"sithsWalrusseaid,

sss"Totalksotfmanynthings;

Ofshoes,tsndships,tsndsealingsws,

sssOfcabbagestsndskings,

Andtshtythsseasstboilinghot,

sssAndtswhetherspigesstswings."

(DEFUN,APPEND,(X,Y)

;APPEND,FUNCTION,FOR,LISP

ssssss(COND,((NULL,X)Y)

ssssssssss(T,(CONS,(CAR,X),(APPEND,(CDR,X)Y))))

ssssssSKIPA,B,[440700,,[ASOIZ, 'TOOBAR "]]

jsopststprintshars

LOOP:ssss.IOTVYOC,A

ssssssILDB,A,B

ssssssJUMPN,A,LOOP

;jumpstssststterminatingnull

000 █	Г	040	!	100 @	Ј	140 ' .
001 ↓	Δ	041 !	/	101 A	Λ	141 a a
002 α	Θ	042 "	-	102 B	В	142 b b
003 β	Λ	043 #	£	103 C	С	143 c c
004 ^	Ξ	044 \$	¢	104 D	Д	144 d d
005 ~	Π	045 %	¢	105 E	Е	145 e e
006 €	Σ	046 &	¢	106 F	Ф	146 f f
007 π	Υ	047 ' .		107 G	Г	147 g g
010 λ	Φ	050 ( (		110 H	Н	150 h h
011 Υ	Ψ	051))		111 I	І	151 i i
012 δ	Ω	052 * *		112 J	Ј	152 j j
013 ↑	α	053 + +		113 K	К	153 k k
014 ±	β	054 , ,		114 L	Л	154 l l
015 ⊕	τ	055 - -		115 M	М	155 m m
016 ∞	δ	056 . .		116 N	Н	156 n n
017 ∂	ε	057 / /		117 O	О	157 o o
020 C	£	060 0	0	120 P	Р	160 p p
021 ∽	η	061 1	1	121 Q	Q	161 q q
022 ∩	θ	062 2	2	122 R	Р	162 r r
023 U	ι	063 3	3	123 S	С	163 s s
024 V	κ	064 4	4	124 T	Т	164 t t
025 ∃	λ	065 5	5	125 U	У	165 u u
026 ⊙	μ	066 6	6	126 V	В	166 v v
027 ∞	ν	067 7	7	127 W	В	167 w w
030 ←	ξ	070 8	8	130 X	Х	170 x x
031 →	π	071 9	9	131 Y	У	171 y y
032 ≠	ρ	072 :	:	132 Z	З	172 z z
033 ♦	σ	073 ;	;	133 [	[	173 { }
034 ≤	τ	074 <	<	134 \	\	174 |
035 ≥	υ	075 =	=	135 ]	]	175 }
036 ≡	φ	076 >	>	136 ^	^	176 ~
037 ∨	χ	077 ?	?	137 _	_	177 ∫

ABCDEFGHIJKLMN OPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

0123456789

!"#\$%&'()*+,-./:;<=>?@—`abcdefghijklmnopqrstuvwxyz

ΓΔΘΛΞΠΨΥΦΩΠαβγδεζηθικλμνξπρστυφχ

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

111 "To talk of many things;

Of shoes, and ships, and sealing wax,

111 Of cabbages and kings,

And why the sea is boiling hot,

111 And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

111111 (COND ((NULL X) Y)

1111111111 (T (CONS (CAR X) (APPEND (CDR X) Y))))))

11111111 SKIP A B, [440700,, [ASCII "FOOBAR "]]

;loop to print chars

LOOP: 11111 . IOT TYOC, A

11111111 ILDB A, B

11111111 JUMP N A, LOOP

;jump unless terminating null

000 █	Γ	040	⊘	100	⊘	140	·	·
001 ↓	Δ	041 !	!	101	A	141	a	a
002 α	⊙	042 "	"	102	B	142	b	b
003 β	Λ	043 #	'	103	C	143	c	c
004 ^	Ξ	044 \$	∞	104	D	144	d	d
005 -	Π	045 %	%	105	E	145	e	e
006 €	Σ	046 &	&	106	F	146	f	f
007 π	Υ	047 ' .	' .	107	G	147	g	g
010 λ	Φ	050 (	(	110	H	150	h	h
011 Υ	Ψ	051 )	)	111	I	151	i	i
012 s	Ω	052 *	*	112	J	152	j	j
013 ↑	ι	053 +	+	113	K	153	k	k
014 ±	↓	054 .	,	114	L	154	l	l
015 ⊙	·	055 -	-	115	M	155	m	m
016 ∞	·	056 .	.	116	N	156	n	n
017 ∂	·	057 /	/	117	O	157	o	o
020 c	·	060 0	0	120	P	160	p	p
021 ∩	·	061 1	1	121	Q	161	q	q
022 ∩	·	062 2	2	122	R	162	r	r
023 U	·	063 3	3	123	S	163	s	s
024 V	·	064 4	4	124	T	164	t	t
025 ∩	·	065 5	5	125	U	165	u	u
026 ⊙	·	066 6	6	126	V	166	v	v
027 ⊕	·	067 7	7	127	W	167	w	w
030 †	·	070 8	8	130	X	170	x	x
031 †	·	071 9	9	131	Y	171	y	y
032 ×	·	072 :	:	132	Z	172	z	z
033 ♦	β	073 ;	;	133 [	[	173 {	{	{
034 ≤	æ	074 <	<	134 \	\	174 |	|	|
035 ≥	æ	075 =	=	135 ]	]	175 }	}	}
036 ≡	Æ	076 >	>	136 ^	-	176 ~	~	~
037 ∨	Œ	077 ?	?	137 _	-	177 /	/	/

ABCDEFGHIJKLMN
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"'∞%&'()*+,-./:;<=>?!["]—ffiffiffi
ΓΔΘΛΞΠΣΥΦΨΩϒ·.....-.....·.·.æœÆŒ

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

"The time has come," the Walrus said,
to talk of many things;
Of shoes, and ships, and sealing wax,
Of cabbages, and kings,
And why the sea is boiling hot,
And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
  (T (CONS (CAR X) (APPEND (CDR X) Y))))

```

```

SKIPA B,[440700],[ASCIZ "FOOBAR"] ;loop to print chars
LOOP: IOT TYOC,A
ILDB A,B
JUMP N A,LOOP ;jump unless terminating null

```

000	█	Γ	040	⊘	100	e	Ø	140	'	'
001	↓	Δ	041	!	101	A	Λ	141	a	a
002	α	Θ	042	"	102	B	B	142	b	b
003	β	Λ	043	#	103	C	C	143	c	c
004	^	Ξ	044	\$	104	D	D	144	d	d
005	~	Π	045	%	105	E	E	145	e	e
006	ε	Σ	046	&	106	F	F	146	f	f
007	π	Υ	047	'	107	G	G	147	g	g
010	λ	Φ	050	(	110	H	H	150	h	h
011	Υ	Ψ	051	)	111	I	I	151	i	i
012	ς	Ω	052	*	112	J	J	152	j	j
013	↑	ι	053	+	113	K	K	153	k	k
014	±	↓	054	,	114	L	L	154	l	l
015	⊕	·	055	-	115	M	M	155	m	m
016	∞	·	056	.	116	N	N	156	n	n
017	∂	·	057	/	117	O	O	157	o	o
020	c	·	060	0	120	P	P	160	p	p
021	∩	·	061	1	121	Q	Q	161	q	q
022	∪	-	062	2	122	R	R	162	r	r
023	U	"	063	3	123	S	S	163	s	s
024	V	-	064	4	124	T	T	164	t	t
025	∃	·	065	5	125	U	U	165	u	u
026	⊙	·	066	6	126	V	V	166	v	v
027	⊕	·	067	7	127	W	W	167	w	w
030	←	·	070	8	130	X	X	170	x	x
031	→	·	071	9	131	Y	Y	171	y	y
032	≠	·	072	:	132	Z	Z	172	z	z
033	⋄	β	073	;	133	[	[	173	{	{
034	≤	æ	074	<	134	\	\	174	|	|
035	≥	æ	075	=	135	]	]	175	}	}
036	≡	Æ	076	>	136	^	-	176	~	~
037	∇	Ⓔ	077	?	137	_	-	177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?@_`~{|}~
 ΓΔΘΑΞΠΣΥΦΨΩιϋ·.....·,·BæÆⒺ

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

"The time has come," the Walrus said,
 To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

*****SKIPA B,[440700,,[ASCIZ "FOOBAR"]] ;loop to print chars
LOOP:***IOT TYOC,A
*****LDB A,B
*****JUMP N A,LOOP ;jump unless terminating null
  
```


000	█	Γ	040	␣	100	@	Ø	140	'	.
001	↓	Δ	041	!	101	A	Λ	141	a	æ
002	α	⊙	042	"	102	B	Β	142	b	þ
003	β	Λ	043	#	103	C	ϸ	143	c	ç
004	^	Ξ	044	\$	104	D	Ϲ	144	d	ð
005	~	Π	045	%	105	E	Ϻ	145	e	é
006	€	Ϸ	046	&	106	F	ϻ	146	f	ƒ
007	π	Υ	047	'	107	G	ϼ	147	g	ǵ
010	λ	⊙	050	(	110	H	Ͻ	150	h	ħ
011	Υ	⊙	051	)	111	I	Ͽ	151	i	ï
012	δ	η	052	*	112	J	Ͽ	152	j	ĵ
013	↑	ι	053	+	113	K	Ͽ	153	k	ķ
014	±	ϵ	054	,	114	L	Ͽ	154	l	ł
015	⊙	.	055	-	115	M	Ͽ	155	m	ṃ
016	∞	.	056	.	116	N	Ͽ	156	n	ñ
017	∂	.	057	/	117	O	Ͽ	157	o	ó
020	C	.	060	0	120	P	Ͽ	160	p	Ɔ
021	∩	.	061	1	121	Q	Ͽ	161	q	Ɔ
022	η	.	062	2	122	R	Ͽ	162	r	ŕ
023	U	.	063	3	123	S	Ͽ	163	s	š
024	V	.	064	4	124	T	Ͽ	164	t	ť
025	∃	.	065	5	125	U	Ͽ	165	u	ú
026	⊙	.	066	6	126	V	Ͽ	166	v	ǰ
027	+	.	067	7	127	W	Ͽ	167	w	Ẃ
030	†	.	070	8	130	X	Ͽ	170	x	Ẅ
031	→	.	071	9	131	Y	Ͽ	171	y	ÿ
032	×	.	072	:	132	Z	Ͽ	172	z	ẏ
033	◇	⊙	073	;	133	[	Ͽ	173	{	ǵ
034	≤	⊙	074	<	134	\	Ͽ	174	|	ǵ
035	≥	⊙	075	=	135	]	Ͽ	175	}	ǵ
036	≡	⊙	076	>	136	^	Ͽ	176	~	ṁ
037	v	⊙	077	?	137	_	Ͽ	177	ſ	ṁ

```

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"'%%&'()*+.-./:;<=>?![]—`~###
ΓΔΘΑΞΗΠΔΥΦΨΩϒ..... . .BaccBGB

```

THE,SICK,BROWN,QUUX,JUMPED,OVER,THE,LAZY,FROG.

```

"The times has come," the Walrus said,
" To talk of many things;
Of shoes, and ships, and sealing wax,
Of cabbages and kings,
And why the seasilbs boiling hot,
And whether pigs have wings."

```

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
#####(COND ((NULL X) Y)
#####(T (CONS (CAR X) (APPEND (CDR X) Y))))

#####SKIP A,B,[440700, [ASCIZ "FOOBAR"]] ;loop to print chars
LOOP:###.IOT TYOG,A
#####LDB A,B
#####JUMP N A,LOOP ;jump unless terminating null

```

TEXFNT; CMSS8 KST	V	29	22	37	18	20	15	Computer Modern Sans Serif
TEXFNT; CMSS12 KST	V	43	31	44	22	30	19	" " " "
TEXFNT; CMSSB KST	V	36	26	41	20	25	16	C.M. Sans Serif Bold
TEXFNT; CMSSS8 KST	V	29	22	37	18	20	15	C.M. Sans Serif Bold Slanted
TEXFNT; CMCSC8 KST	V	29	21	32	15	20	18	C.M. small caps
TEXFNT; CMCSC KST	V	36	26	38	18	25	16	C.M. with small capitals
TEXFNT; CMSC10 KST	V	36	26	29	14	16	15	C.M. small caps with lower case
TEXFNT; CMTT8 KST	F	29	21	17	17	17	13	C.M. Teletype (fixed width)
TEXFNT; CMTT81 KST	F	29	21	17	17	17	13	" " " "
TEXFNT; CMTT9 KST	F	32	23	19	19	19	14	" " " "
TEXFNT; CMTT KST	F	36	26	21	21	21	15	" " " "
TEXFNT; CMTT1 KST	F	36	26	21	21	21	15	
TEXFNT; CMTI8 KST	V	29	21	31	10	20	13	
TEXFNT; CMTI9 KST	V	32	23	35	11	23	15	
TEXFNT; CMTI10 KST	V	36	26	36	10	25	16	
TEXFNT; CMTITL KST	V	50	37	66	32	36	23	C.M. sans serif title
TEXFNT; CMDUNH KST	V	46	36	38	18	35	16	C.M. Dunhill
TEXFNT; LENA KST	V	62	46	70	33	44	28	

English Alphabets

Family: Computer Modern

These are the results of Donald E. Knuth's experimentation into the production of typefaces using his METAFONT system. The fonts given here were designed for use with his TEX system for typesetting mathematics. They are given only for reference, as they should not be used by our present text justifiers other than TEX. Note the assignment of character codes and the lack of a blank space character (although someone has taken the trouble to copy some of these fonts, restore the blank, and rename them). Because the Greek letters occupy what would otherwise be unused codes, there are no separate Greek fonts to go with Computer Modern. The term "Computer Modern" is not a family name, as Knuth seems to have applied it to any font created by METAFONT. There are consequently several face styles in the following, including sans serif and something one presumes from its name was inspired by a little-used face called Dunhill. Brief annotations follow the font data.

These are the only set of fonts anywhere on our system which have not only a rational naming scheme, but a rather complete size range as well. Because they were designed with the XGP in mind, they reproduce well. However, they are the result of an experimental process and may lack the definition found in hand-edited fonts. Also, the sizes given are in points, but under the assumption that the final document would be reduced to 70 percent of original size. The actual size of the font, therefore, is roughly $1/0.70 = 1.43$ times the given size.

For more information, please see the METAFONT and TEX users manuals.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
TEXFNT; CMR5 KST	V	18	13	24	11	13	9	Computer Modern Roman
TEXFNT; CMR6 KST	V	22	16	27	13	15	10	" " "
TEXFNT; CMR7 KST	V	25	18	30	14	18	12	" " "
TEXFNT; CMR8 KST	V	29	21	32	15	20	13	" " "
TEXFNT; CMR9 KST	V	32	23	35	17	23	15	" " "
TEXFNT; CMR10 KST	V	36	26	38	18	25	16	" " "
TEXFNT; CMB8 KST	V	29	21	32	15	13	9	Computer Modern Bold
TEXFNT; CMB9 KST	V	32	23	35	17	15	10	" " "
TEXFNT; CMB10 KST	V	36	26	38	18	18	12	" " "
TEXFNT; CMI5 KST	V	18	13	25	9	13	9	Computer Modern Italic
TEXFNT; CMI6 KST	V	22	16	26	9	15	10	" " "
TEXFNT; CMI7 KST	V	25	18	30	9	18	12	" " "
TEXFNT; CMI8 KST	V	29	21	31	9	20	13	" " "
TEXFNT; CMI9 KST	V	32	23	33	10	23	15	" " "
TEXFNT; CMI10 KST	V	36	26	36	11	25	16	" " "
TEXFNT; CMS8 KST	V	29	21	32	15	20	13	Computer Modern Slanted
TEXFNT; CMS9 KST	V	32	23	35	17	23	15	" " "
TEXFNT; CMS10 KST	V	36	26	38	18	25	16	" " "

000 █	040	100 e	140 ' °
001 ↓	041 !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & ×	106 F F	146 f f
007 π	047 ' °	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ ffl	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 >	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 u	063 3 3	123 S S	163 s s
024 v	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ⊕	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 × ffi	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤	074 < <	134 \ \	174 | |
035 ≥ ff	075 = =	135]]	175 } }
036 ≡ fi	076 > >	136 ^ ^	176 ~ ~
037 √ fl	077 ? ?	137 _ _	177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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"#\$%&'()*+,-./:;<=>?[\]_{}~|

fflffiffiffi

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

);APPEND FUNCTION FOR LISP

000	█	040		100	e	140	'	'
001	↓	041	!	101	A	141	a	a
002	α	042	"	102	B	142	b	b
003	β	043	#	103	C	143	c	c
004	^	044	\$	104	D	144	d	d
005	~	045	%	105	E	145	e	e
006	ç	046	&	106	F	146	f	f
007	π	047	'	107	G	147	g	g
010	λ	050	(	110	H	150	h	h
011	Υ	051	)	111	I	151	i	i
012	ς	052	*	112	J	152	j	j
013	↑	053	+	113	K	153	k	k
014	±	054	,	114	L	154	l	l
015	⊖	055	-	115	M	155	m	m
016	∞	056	.	116	N	156	n	n
017	∂	057	/	117	O	157	o	o
020	c	060	0	120	P	160	p	p
021	⊃	061	1	121	Q	161	q	q
022	∩	062	2	122	R	162	r	r
023	U	063	3	123	S	163	s	s
024	V	064	4	124	T	164	t	t
025	∃	065	5	125	U	165	u	u
026	⊙	066	6	126	V	166	v	v
027	↕	067	7	127	W	167	w	w
030	←	070	8	130	X	170	x	x
031	→	071	9	131	Y	171	y	y
032	≠	072	:	132	Z	172	z	z
033	◇	073	;	133	[	173	{	|
034	≤	074	<	134	\	174	|	|
035	≥	075	=	135	]	175	}	|
036	≡	076	>	136	^	176	~	
037	√	077	?	137	_	177	˘	

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

"* \$ % & ' () * , - . / : ; = ? [\] ^ _

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))
```

```
LOOP: SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

English Alphabets

Family: Clarendon

It appears that we have only two fonts of the Clarendon family, both of them in bold. Clarendon is a fat-faced Egyptian type (has slab serifs that don't taper at the ends), with short and stocky ascenders and descenders. It was designed in the middle of the 19th century industrial era, and reflects strength and a structural simplicity. It is adequate for titles and subtitles, but resist using our particular fonts for normal text.

Font Name	Pitch	HT	BL	MW	SW	XC	XL
FONT1; CLAR30 KST	V	30	23	35	16	23	20
FONT2; 37VRB KST	V	37	27	51	19	26	23

000	█	040		100	@ @	140	' '
001	↓ ↓	041	! !	101	A A	141	a a
002	α α	042	" "	102	B B	142	b b
003	β β	043	# #	103	C C	143	c c
004	^ ^	044	\$ \$	104	D D	144	d d
005	¬ ¬	045	% %	105	E E	145	e e
006	ε ε	046	& &	106	F F	146	f f
007	π π	047	' '	107	G G	147	g g
010	λ λ	050	( (	110	H H	150	h h
011	Υ Υ	051	) )	111	I I	151	i i
012	δ δ	052	* *	112	J J	152	j j
013	↑ ↑	053	+ +	113	K K	153	k k
014	± ±	054	, ,	114	L L	154	l l
015	⊕ ⊕	055	- -	115	M M	155	m m
016	∞ ∞	056	. .	116	N N	156	n n
017	∂ ∂	057	/ /	117	O O	157	o o
020	c c	060	0 0	120	P P	160	p p
021	⊃ ⊃	061	1 1	121	Q Q	161	q q
022	∩ ∩	062	2 2	122	R R	162	r r
023	∪ ∪	063	3 3	123	S S	163	s s
024	∪ ∪	064	4 4	124	T T	164	t t
025	∃ ∃	065	5 5	125	U U	165	u u
026	⊗ ⊗	066	6 6	126	V V	166	v v
027	↔ ↔	067	7 7	127	W W	167	w w
030	← ←	070	8 8	130	X X	170	x x
031	→ →	071	9 9	131	Y Y	171	y y
032	≠ ≠	072	: :	132	Z Z	172	z z
033	⊕ ⊕	073	; ;	133	[ [	173	{ {
034	≤ ≤	074	< <	134	\ \	174	| |
035	≥ ≥	075	= =	135	] ]	175	} }
036	≡ ≡	076	> >	136	^ ^	176	~ ~
037	∨ ∨	077	? ?	137	_ _	177	ƒ ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~f

↓αβλ¬επλγς↑±⊕∂⊃∩∪∪∃⊗↔←→≠⊕≤≥≡∨

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

; APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

LOOP: SKIP A B, [440700, , [ASCIZ \FOOBAR\]] ; loop to print chars

 .IOT TYOC, A

 ILDB A, B

 JUMPN A, LOOP

 ; jump unless terminating null

034 ≤ ≤

074 < <

134 \ \

174 | |

035 ≥ ≥

075 = =

135]]

175 } }

036 ≡ ≡

076 > >

136 ^ ^

176 ~ ~

037 ∨ ∨

077 ? ?

137 _ _

177 ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]_{|}~

↓αβ∧-επλ↑∞∂c∩∪∨∃⊗↔←→≠∩≤≥≡∨

THE SICK BROWN QUUX JUMPED OVER THE

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(DEFUN APPEND (X Y)

;APPEND FUN

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X)

SKIPA B,[440700,,"[ASCIZ \FOOBAR\]) ;k

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unle

000 ■	040	100 e @	140 ' °
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 - -	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ γ	051))	111 I I	151 i i
012 s s	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ø ø	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 > >	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 E E	065 5 5	125 U U	165 u u
026 ø ø	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {

000 █	040	100 @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 σ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ff	054 , ,	114 L L	154 l l
015 ø	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 ɛ ɛ	065 5 5	125 U U	165 u u
026 ø	066 6 6	126 V V	166 v v
027 ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ~	073 ; ;	133 [{	173 { }
034 ≤ ≤	074 < <	134 \ }	174 }
035 ≥ ≥	075 = =	135] }	175 } }
036 ≡ ≡	076 > >	136 ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 f

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0123456789

!"#\$%&'()*+,-./:;<=>?[_{}~

↓αβ∧¬επλ↑ff∞ðcɔnUVɛø↔←→≠~≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

*"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,*

000 █	040	100 e @	140 ' °
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 - -	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ø	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ı ı	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 ı ı	065 5 5	125 U U	165 u u
026 ø ø	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
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032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [[173 { {
034 ≤ ≤	074 < <	134 \ \	174
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ABCDEFGHIJKLMNOPQRSTUVWXYZ

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!"#\$%&'()*+,-./:;<=>?[_{}~

↓α/β∧-επλ↑∞∂c≡nυ∇∑⊕↔←→≠♦≤≥≡

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000 █	040	100 e @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ((110 H H	150 h h
011 γ γ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 ø ø	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 η η	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
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037 √ √	077 ? ?	137 _ _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[_{}~
 Jα/βλ-επλ↑∞∂cɔηUV∃⊕↔↔≠ø<>≡V

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```

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```

```

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000 █	040	100 e @	140 ' '
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002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ø	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 ø ø	120 P P	160 p p
021 > >	061 1 1	121 Q Q	161 q q
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023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 E E	065 5 5	125 U U	165 u u
026 ø ø	066 6 6	126 V V	166 v v
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030 ← ←	070 8 8	130 X X	170 x x
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033 ø ø	073 ; ;	133 [[173 { {
034 ≤ ≤	074 < <	134 \ \	174
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ↓α/β^~επλ↑∞ð<=>∩UVΞθ↔←→≠ø<>≡v

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000 █	040	100 e @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ∫	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ∘ ∘	061 1 1	121 Q Q	161 q q
022 ∩ ∩	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
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034 ≤ ≤	074 < <	134 \ \	174
035 ≥ ≥	075 = =	135] /	175 } }
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037 ∨ ∨	077 ? ?	137 _ _	177 ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]_{}~

↓αβγδϵηλ↑∫∞∂c∞∪V∃∞⇄←→≠~≥≡∨

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```

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LOOP: JOT TYOC, A
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```

000 █		040		100 e @		140 ' °
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 Υ		051))		111 I I		151 i i
012 δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ±		054 , ,		114 L L		154 l l
015 ø		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ð ð		057 / /		117 O O		157 o o
020 c c		060 0 0		120 P P		160 p p
021 ɔ ɔ		061 1 1		121 Q Q		161 q q
022 n n		062 2 2		122 R R		162 r r
023 U U		063 3 3		123 S S		163 s s
024 V V		064 4 4		124 T T		164 t t
025 Ʒ Ʒ		065 5 5		125 U U		165 u u
026 ø ø		066 6 6		126 V V		166 v v
027 ↔ ↔		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ◊ ~		073 ; ;		133 [[173 { {
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035 ≥ ≥		075 = =		135]]		175 } }
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037 v v		077 ? ?		137 _ _		177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[_{}~

¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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Of cabbages and kings,

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And whether pigs have wings."

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;APPEND FUNCTION FOR LISP

SKIP A B,[440700],[ASCIZ \FOOBAR\]

;loop to print chars

LOOP: JOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000 █	040	100 @ @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' ' (grave)	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 ∩ ∩	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
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032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ~	073 ; ;	133 [[173 { {
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036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

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```

```

SKIP A B,[440700,[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
  
```

000 █	040	100 @	140 ' ' .
001 ↓ a	041 ! !	101 A A	141 a a
002 α b	042 " "	102 B B	142 b b
003 β c	043 # #	103 C C	143 c c
004 ^ d	044 \$ \$	104 D D	144 d d
005 ~ e	045 % %	105 E E	145 e e
006 € f	046 &	106 F F	146 f f
007 π g	047 ' .	107 G G	147 g g
010 λ h	050 ( (	110 H H	150 h h
011 Y i	051))	111 I I	151 i i
012 δ j	052 * *	112 J J	152 j j
013 ↑ k	053 + +	113 K K	153 k k
014 ± l	054 , ,	114 L L	154 l l
015 ⊕ m	055 - -	115 M M	155 m m
016 ∞ n	056 . .	116 N N	156 n n
017 ∂ o	057 / /	117 O O	157 o o
020 c p	060 0 0	120 P P	160 p p
021 ⊃ q	061 1 1	121 Q Q	161 q q
022 n r	062 2 2	122 R R	162 r r
023 U s	063 3 3	123 S S	163 s s
024 V t	064 4 4	124 T T	164 t t
025 ∃ u	065 5 5	125 U U	165 u u
026 ⊗ v	066 6 6	126 V V	166 v v
027 ↔ w	067 7 7	127 W W	167 w w
030 ← x	070 8 8	130 X X	170 x x
031 → y	071 9 9	131 Y Y	171 y y
032 ≠ z	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤	074 < <	134 \ \	174 | |
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMN OPQRSTUVWXYZ

abcdefghijklmno pqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?@_ | ~

abcdefghijklmnopqrstu vwxyz

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said.

"To talk of many things:

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

:APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

SKIPA B,[440700..[ASCIZ \FOOBAR\]] ;loop to print chars

LOOP: .IOT TYOC,A

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English Alphabets

Family: Bodoni

Bodoni is the creation of the 18th century Italian designer, Giambattista Bodoni, and is the forerunner of Modern style type. It is a true Roman alphabet, with no artificial excesses or eccentricities. There is a sharp contrast between the hairline serifs and the thick vertical strokes which gives it a clean, modern appearance. It is a beautiful typeface and should never have been provided as a font for the XGP. The XGP cannot reproduce any of the distinguishing characteristics of Bodoni, which are much too subtle. It is almost by accident that we were able to identify what we have as Bodoni. The conscientious paper-writer will do well to stay away from these fonts.

Font Name	Pitch	HT	BL	MW	SW	XC	XL
FONTS; 20VR KST	V	20	15	24	7	14	13
FONTS; 25VR KST	V	25	21	25	10	20	16
FONTS; 25VRB KST	V	25	20	25	10	20	16
FONTS; 25VRI KST	V	25	20	27	10	20	16
FONTS; 31VR KST	V	31	25	28	11	22	14
FONTS; 31VRB KST	V	31	25	30	11	24	20
FONTS; 31VRI KST	V	31	25	28	11	24	20
FONTS; 40VR KST	V	40	30	38	16	30	24
FONTS; 40VRI KST	V	40	33	43	16	33	29
FONTS; 66VR KST	V	66	51	63	26	51	46
FONTS1; 25PSCL KST	V	25	20	27	16	20	16

000 █	040	100 e @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 ε ε	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ γ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^	176 ~
037 v v	077 ? ?	137 _ _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-.:/\|_{}.

↓α.β^~επλ↑±∞ðc>∩UV∃⊙↔←→≠~≤≥v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

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000	█	040	100	@	140	'
001	↓	041	101	A	141	a
002	α	042	102	B	142	b
003	β	043	103	C	143	c
004	^	044	104	D	144	d
005	-	045	105	E	145	e
006	€	046	106	F	146	f
007	π	047	107	G	147	g
010	λ	050	110	H	150	h
011	Υ	051	111	I	151	i
012	δ	052	112	J	152	j
013	↑	053	113	K	153	k
014	±	054	114	L	154	l
015	⊕	055	115	M	155	m
016	∞	056	116	N	156	n
017	∂	057	117	O	157	o
020	¢	060	120	P	160	p
021	⊃	061	121	Q	161	q
022	∩	062	122	R	162	r
023	U	063	123	S	163	s
024	V	064	124	T	164	t
025	∃	065	125	U	165	u
026	⊗	066	126	V	166	v
027	⊕	067	127	W	167	w
030	←	070	130	X	170	x
031	→	071	131	Y	171	y
032	×	072	132	Z	172	z
033	♦	073	133	[173	{
034	≤	074	134	\	174	
035	≥	075	135]	175	}
036	≡	076	136	^	176	~
037	√	077	137	_	177	f

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!"#\$%&'()*+,-./:;<=>?[\]_{}~

↓α/β^~επλ↑∞∂¢⊃∩UV∃⊗⊕←→×~≤≥≡√

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001 ↓ ↓	041 ! !	101 A A	141 a a
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003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &c	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
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011 γ *	051))	111 I I	151 i i
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013 ↑ ↑	053 + +	113 K K	153 k k
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015 ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
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026 ⊗	066 6 6	126 V V	166 v v
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ABCDEFGHIJKLMNOPQRSTUVWXYZ

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!"#\$%&'()*+,-./:;<=>?[\]_{}~∫

↓αβλ~επλ*†±∞∂c▷nUV∃⊕↔←→≠√≤≥v

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APPEND FUNCTION FOR LISP

000	█	040		100	e @	140	' '
001	↓ ↓	041	! !	101	A A	141	a a
002	α α	042	" "	102	B B	142	b b
003	β β	043	# #	103	C C	143	c c
004	^ ^	044	\$ \$	104	D D	144	d d
005	- -	045	% %	105	E E	145	e e
006	ε ε	046	& &	106	F F	146	f f
007	π π	047	' '	107	G G	147	g g
010	λ λ	050	((110	H H	150	h h
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012	δ	052	* *	112	J J	152	j j
013	↑ ↑	053	+ +	113	K K	153	k k
014	± ±	054	, ,	114	L L	154	l l
015	⊕	055	- -	115	M M	155	m m
016	∞ ∞	056	. .	116	N N	156	n n
017	∂ ∂	057	/ /	117	O O	157	o o
020	c c	060	0 0	120	P P	160	p p
021	⊃ ⊃	061	1 1	121	Q Q	161	q q
022	∩ ∩	062	2 2	122	R R	162	r r
023	∪ ∪	063	3 3	123	S S	163	s s
024	∨ ∨	064	4 4	124	T T	164	t t
025	∃ ∃	065	5 5	125	U U	165	u u
026	⊗ ⊗	066	6 6	126	V V	166	v v
027	↔ ↔	067	7 7	127	W W	167	w w
030	← ←	070	8 8	130	X X	170	x x
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033	◇ ~	073	; ;	133	[[173	{ {
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035	≥ ≥	075	= =	135]]	175	} }
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!"#\$%&'()*+,-./:;<=>?[_{}~ƒ

↓αβλ^~επλ*↑±∞∂c∩∪∨∃⊗↔←→≠~≤≥≡∇

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033 ♦ ♦	073 ; ;	133 [[173 { {
034 ≤ ≤	074 < <	134 \ \	174
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036 ≡ ≡	076 > >	136 ^	176 ~ ~
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!"#\$%&'()*+,-./:;<=>?[\]_`{|}~

↓αβγδϵπλ↑∞∂c∩∪∨∃⊗⊕←→×÷≤≥≡√

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;APPEND FUNCTION FOR LISP

000	█	040		100	e e	140	' '
001	↓ ↓	041	! !	101	A A	141	a a
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020	c c	060	∅ ∅	120	P P	160	p p
021	∩ ∩	061	1 1	121	Q Q	161	q q
022	∩ ∩	062	2 2	122	R R	162	r r
023	∪ ∪	063	3 3	123	S S	163	s s
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033	⋄ ~	073	; ;	133	[[173	{ {
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↓αβγ^~πλ↑±∞∂∩∪∩∪∩⊙↔←→≠⋄≤≥≡∇

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```

SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars

```
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP
```

;jump unless terminating null

000	█	040		100	@ @	140	' '
001	↓ ↓	041	! !	101	A A	141	a a
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022	∩ ∩	062	2 2	122	R R	162	r r
023	∪ ∪	063	3 3	123	S S	163	s s
024	∨ ∨	064	4 4	124	T T	164	t t
025	∃ ∃	065	5 5	125	U U	165	u u
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ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[_{}~
 ↓αβ^←πλ↑±∞∂c⊃∩∪∨∃⊙↔←→≠◇≤≥≡∇

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```

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```

```

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```


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001	↓ ↓	041	! !	101	A A	141	a a
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016	∞ ∞	056	. .	116	N N	156	n n
017	∂ ∂	057	/ /	117	O O	157	o o
020	c c	060	0 0	120	P P	160	p p
021	⊃ ⊃	061	1 1	121	Q Q	161	q q
022	∩ ∩	062	2 2	122	R R	162	r r
023	U U	063	3 3	123	S S	163	s s
024	V V	064	4 4	124	T T	164	t t
025	∃ ∃	065	5 5	125	U U	165	u u
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034	≤ ≤	074	< <	134	\ \	174	
035	≥ ≥	075	= =	135]]	175	} }
036	≡ ≡	076	> >	136	^	176	~ ~
037	v v	077	? ?	137	_ _	177	ƒ ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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!"#\$%&'()*+,-./:;<=>?[_{}~ſ

↓αβ∧¬επλΥδ↑±⊕∞∂⊃∩U∪∃⊗↔←→≠◇≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

```
(DEFUN APPEND (X Y)
```

```
;APPEND FUNCTION FOR LISP
```

```
(COND ((NULL X) Y)
```

```
(T (CONS (CAR X) (APPEND (CDR X) Y))))
```

```
SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
```

```
LOOP: .IOT TYOC,A
```

```
ILDB A,B
```

```
JUMPN A,LOOP
```

```
;jump unless terminating null
```

000	█	040		100	e @	140	' '
001	↓ ↓	041	! /	101	A A	141	a a
002	α α	042	" "	102	B B	142	b b
003	β β	043	# #	103	C C	143	c c
004	^ ^	044	\$ \$	104	D D	144	d d
005	- -	045	% %	105	E E	145	e e
006	ε ε	046	& &	106	F F	146	f f
007	π π	047	' '	107	G G	147	g g
010	λ λ	050	( (	110	H H	150	h h
011	Υ	051	) )	111	I I	151	i i
012	δ	052	* *	112	J J	152	j j
013	↑ ↑	053	+ +	113	K K	153	k k
014	± ±	054	, ,	114	L L	154	l l
015	⊕	055	- -	115	M M	155	m m
016	∞ ∞	056	. .	116	N N	156	n n
017	∂ ∂	057	/ /	117	O O	157	o o
020	c c	060	0 0	120	P P	160	p p
021	⊃ ⊃	061	1 1	121	Q Q	161	q q
022	∩ ∩	062	2 2	122	R R	162	r r
023	∪ ∪	063	3 3	123	S S	163	s s
024	∪ ∪	064	4 4	124	T T	164	t t
025	∃ ∃	065	5 5	125	U U	165	u u
026	⊗ ⊗	066	6 6	126	V V	166	v v
027	↔ ↔	067	7 7	127	W W	167	w w
030	← ←	070	8 8	130	X X	170	x x
031	→ →	071	9 9	131	Y Y	171	y y
032	≠ ≠	072	: :	132	Z Z	172	z z
033	◇ ~	073	; ;	133	[/	173	{ {
034	≤ ≤	074	< <	134	\ \	174	| |
035	≥ ≥	075	= =	135	] /	175	} }
036	≡ ≡	076	> >	136	^	176	~
037	v v	077	? ?	137	_ _	177	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]_{}|

↓αβγδϵπλ↑±∞∂c>∩∪∃⊗↔←→≠≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
SKIP A B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000	█	040	100	e @	140	'	'
001	↓ ↓	041	!	!	141	a	a
002	α α	042	"	"	142	b	b
003	β β	043	#	#	143	c	c
004	^ ^	044	\$	\$	144	d	d
005	¬ ¬	045	%	%	145	e	e
006	¢ €	046	&	&c	146	f	f
007	π π	047	'	'	147	g	g
010	λ λ	050	(	(	150	h	h
011	Υ Υ	051	)	)	151	i	i
012	δ	052	*	*	152	j	j
013	↑ ↑	053	+	+	153	k	k
014	±	054	,	,	154	l	l
015	⊕	055	-	-	155	m	m
016	∞ ∞	056	.	.	156	n	n
017	∂ ∂	057	/	/	157	o	o
020	∮ ∮	060	0	0	160	p	p
021	∩ ∩	061	1	1	161	q	q
022	∪ ∪	062	2	2	162	r	r
023	∩ ∩	063	3	3	163	s	s
024	∪ ∪	064	4	4	164	t	t
025	∩ ∩	065	5	5	165	u	u
026	⊗ ⊗	066	6	6	166	v	v
027	⊕ ⊕	067	7	7	167	w	w
030	† †	070	8	8	170	x	x
031	→ →	071	9	9	171	y	y
032	* *	072	:	:	172	z	z
033	◇ ◇	073	;	;	173	{	{
034	≤ ≤	074	<	<	174	|	|
035	≥ ≥	075	=	=	175	}	}
036	≡ ≡	076	>	>	176	~	~
037	∇ ∇	077	?	?	177	f	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]_`{|}~

↓αβγδϵπλτ∞∂∮∩∪∩∪∩∪⊗⊕†→*∇

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIP A B,[440700,.[ASCIZ \FOOBAR\]] ;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000 █	040	100 e e	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ γ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

↓αβλ~επλγδ↑±∞∂c∩nUV∃⊕↔←→≠∅≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
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 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
SKIP A B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: JOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000 █		040		100 e @		140 ' '
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 Υ Υ		051))		111 I I		151 i i
012 δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ⊕		055 - -		115 M M		155 m m
016 ∞ ∞	ff	056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 c c		060 0 0		120 P P		160 p p
021 ⊃ ⊃		061 1 1		121 Q Q		161 q q
022 n n		062 2 2		122 R R		162 r r
023 u u		063 3 3		123 S S		163 s s
024 v v		064 4 4		124 T T		164 t t
025 ∃ ∃		065 5 5		125 U U		165 u u
026 ⊗ ⊗		066 6 6		126 V V		166 v v
027 ⊕ ⊕		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠	ff	072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 I /		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥	ff	075 = =		135 J /		175 } }
036 ≡ ≡	fi	076 > >		136 ^		176 ~ ~
037 v v	fi	077 ? ?		137 _ _		177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]_`{|}~

↓αβ∧←επλ↑±ffδc≡nuV∃⊕⊕↔ff≤fffiβ

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
SKIP A B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: JOT TYOC, A
      ILDB A, B
      JUMPN A, LOOP ;jump unless terminating null
```


000 █		040		100 e e		140 ' '
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 Υ Υ		051))		111 I I		151 i i
012 ϑ ϑ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ⊕ ⊕		055 - -		115 M M		155 m m
016 ∞ ∞	ff	056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 < <		060 0 0		120 P P		160 p p
021 > >		061 1 1		121 Q Q		161 q q
022 ∩ ∩		062 2 2		122 R R		162 r r
023 ∪ ∪		063 3 3		123 S S		163 s s
024 ∩ ∩		064 4 4		124 T T		164 t t
025 ∩ ∩		065 5 5		125 U U		165 u u
026 ⊕ ⊕		066 6 6		126 V V		166 v v
027 ↔ ↔		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠	ff	072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥	ff	075 = =		135]]		175 } }
036 ≡ ≡	fi	076 > >		136 ^ ^		176 ~ ~
037 ∨ ∨	fi	077 ? ?		137 _ _		177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ↓αβ^~επλΥδ↑±ff∂<>∩∪∩∩⊕↔←→ff♦≤fffffi

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
SKIP A B,[440700, [ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000	█	040		100	e	e	140	'	'
001	↓	041	!	101	A	A	141	a	a
002	α	042	"	102	B	B	142	b	b
003	β	043	#	103	C	C	143	c	c
004	∧	044	\$	104	D	D	144	d	d
005	¬	045	%	105	E	E	145	e	e
006	ε	046	&	106	F	F	146	f	f
007	π	047	'	107	G	G	147	g	g
010	λ	050	(	110	H	H	150	h	h
011	Υ	051	)	111	I	I	151	i	i
012	δ	052	*	112	J	J	152	j	j
013	↑	053	+	113	K	K	153	k	k
014	±	054	,	114	L	L	154	l	l
015	⊕	055	-	115	M	M	155	m	m
016	∞	056	.	116	N	N	156	n	n
017	∂	057	/	117	O	O	157	o	o
020	c	060	0	120	P	P	160	p	p
021	⊃	061	1	121	Q	Q	161	q	q
022	∩	062	2	122	R	R	162	r	r
023	∪	063	3	123	S	S	163	s	s
024	∩	064	4	124	T	T	164	t	t
025	∩	065	5	125	U	U	165	u	u
026	⊙	066	6	126	V	V	166	v	v
027	↔	067	7	127	W	W	167	w	w
030	←	070	8	130	X	X	170	x	x
031	→	071	9	131	Y	Y	171	y	y
032	≠	072	:	132	Z	Z	172	z	z
033	◇	073	;	133	[	[	173	{	{
034	≤	074	<	134	\	\	174	|	|
035	≥	075	=	135	]	]	175	}	}
036	≡	076	>	136	^	^	176	~	~
037	∨	077	?	137	_	_	177	ƒ	ƒ

ABCDEFGHIJKLMN OPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxy z
 0123456789
 !"#\$%&'()*+,-./:;<=>?[_{}~J
 ↓αβ∧-επλ*†±∂c∩∪∩⊙↔←→≠≤≥≡∨

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
SKIP A B,[440700,.[ASCIZ {FOOBAR}]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMP N A,LOOP ;jump unless terminating null
```


000	␣	␣	040	100	@	@	140	'	'		
001	↓	↓	041	!	!	101	A	A	141	a	A
002	α	α	042	"	"	102	B	B	142	b	B
003	β	β	043	#	#	103	C	C	143	c	C
004	^	^	044	\$	\$	104	D	D	144	d	D
005	~	~	045	%	%	105	E	E	145	e	E
006	€	€	046	&	&	106	F	F	146	f	F
007	π	π	047	'	'	107	G	G	147	g	G
010	λ	λ	050	(	(	110	H	H	150	h	H
011	Υ	Υ	051	)	)	111	I	I	151	i	I
012	δ	δ	052	*	*	112	J	J	152	j	J
013	↑	↑	053	+	+	113	K	K	153	k	K
014	±	±	054	,	,	114	L	L	154	l	L
015	⊕	⊕	055	-	-	115	M	M	155	m	M
016	∞	∞	056	.	.	116	N	N	156	n	N
017	∂	∂	057	/	/	117	O	O	157	o	O
020	c	c	060	0	0	120	P	P	160	p	P
021	⊃	⊃	061	1	1	121	Q	Q	161	q	Q
022	∩	∩	062	2	2	122	R	R	162	r	R
023	∪	∪	063	3	3	123	S	S	163	s	S
024	∨	∨	064	4	4	124	T	T	164	t	T
025	∃	∃	065	5	5	125	U	U	165	u	U
026	⊗	⊗	066	6	6	126	V	V	166	v	V
027	↔	↔	067	7	7	127	W	W	167	w	W
030	←	←	070	8	8	130	X	X	170	x	X
031	→	→	071	9	9	131	Y	Y	171	y	Y
032	≠	≠	072	:	:	132	Z	Z	172	z	Z
033	◇	◇	073	;	;	133	[	[	173	{	{
034	≤	≤	074	<	<	134	\	\	174	|	|
035	≥	≥	075	=	=	135	]	]	175	}	}
036	≡	≡	076	>	>	136	^	^	176	~	~
037	∇	∇	077	?	?	137	_	_	177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ␣↓αβλ~€πλΥδ↑±⊕∞∂c⊃∩∪∨∃⊗↔←→≠◇≤≥∇

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"THE TIME HAS COME," THE WALRUS SAID,
 "TO TALK OF MANY THINGS;
 OF SHOES, AND SHIPS, AND SEALING WAX,
 OF CABBAGES AND KINGS,
 AND WHY THE SEA IS BOILING HOT,
 AND WHETHER PIGS HAVE WINGS."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

  SKIP A B,[440700],[ASCIZ \FOOBAR\]] ;LOOP TO PRINT CHARS
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;JUMP UNLESS TERMINATING NULL
  
```

000 █ █	040	100 @ @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 ς ς	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 η η	062 2 2	122 R R	162 r r
023 υ υ	063 3 3	123 S S	163 s s
024 √ √	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ⇄ ⇄	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨ ∨	077 ? ?	137 _ _	177 ∫ ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~f

█↓α/β^~επλγδ↑±∞∞δ<∩∩∪∪∇]⊕⊕←→≠φ≤≥≡∨

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

```
(DEFUN APPEND (X Y)
```

```
(COND ((NULL X) Y)
```

```
(T (CONS (CAR X) (APPEND (CDR X) Y))))
```

```
;APPEND FUNCTION FOR LISP
```

```
SKIPA B,[440700,,[ASCIZ \FOOBAR\]]
```

```
;loop to print chars
```

```
LOOP: .IOT TYOC,A
```

```
ILDB A,B
```

```
JUMPN A,LOOP
```

```
;jump unless terminating null
```

000 █	040	100 @ e	140 ' .
001 ↓	041 ! /	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # *	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∩	061 1 /	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 ∩	065 5 5	125 U U	165 u u
026 ⊕	066 6 6	126 V V	166 v v
027 ⊕	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ×	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤	074 < <	134 \	174 | |
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^	176 ~
037 v	077 ? ?	137 _ _	177 f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnpqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[_{}]

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

*The time has come," the Walrus said,
To talk of many things;
Of shoes, and ships, and sealing wax,
Of cabbages and kings,
And why the sea is boiling hot,
And whether pigs have wings."*

```
(DEFUN APPEND (X Y)                                ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))
```

```
SKIP A B,[440700,[ASCIZ FOOBAR]] ;loop to print chars
LOOP: JOT TYOCA
      ILDB AB
      JUMPN A,LOOP ;jump unless terminating null
```

000	␣		040		100	@	@	140	'	'
001	↓	↓	041	!	101	A	A	141	a	a
002	α	α	042	"	102	B	B	142	b	b
003	β	β	043	#	103	C	C	143	c	c
004	∧	∧	044	\$	104	D	D	144	d	d
005	¬	¬	045	%	105	E	E	145	e	e
006	ε	ε	046	&	106	F	F	146	f	f
007	π	π	047	'	107	G	G	147	g	g
010	λ	λ	050	(	110	H	H	150	h	h
011	Υ		051	)	111	I	I	151	i	i
012	δ		052	*	112	J	J	152	j	j
013	↑	↑	053	+	113	K	K	153	k	k
014	±		054	,	114	L	L	154	l	l
015	⊖		055	-	115	M	M	155	m	m
016	∞	∞	056	.	116	N	N	156	n	n
017	∂	∂	057	/	117	O	O	157	o	o
020	c	c	060	0	120	P	P	160	p	p
021	⊃	⊃	061	1	121	Q	Q	161	q	q
022	∩	∩	062	2	122	R	R	162	r	r
023	U	U	063	3	123	S	S	163	s	s
024	V	V	064	4	124	T	T	164	t	t
025	∃	∃	065	5	125	U	U	165	u	u
026	⊗	⊗	066	6	126	V	V	166	v	v
027	⊕	⊕	067	7	127	W	W	167	w	w
030	←	←	070	8	130	X	X	170	x	x
031	→	→	071	9	131	Y	Y	171	y	y
032	≠	≠	072	:	132	Z	Z	172	z	z
033	◇	◇	073	;	133	[	[	173	{	{
034	≤	≤	074	<	134	\	\	174	|	|
035	≥	≥	075	=	135	]	]	175	}	}
036	≡	≡	076	>	136	^	^	176	~	~
037	∨	∨	077	?	137	_	_	177	f	f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

↓αβλ∞πλ↑∞∂c⊃∩UV3⊕⊖⊗⊕≤≥∨

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIPI B,[440700],[ASCIZ \FOOBAR\]]

;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000 █	040	100 @ e	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 ς	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ∘ ∘	061 1 1	121 Q Q	161 q q
022 ∩ ∩	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 ⇄ ⇄	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 f f

```

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#$%&'()*+,-./:;<=>?[\]^_`{|}~
└┘┙┚┛├┝┞┟┠┡┢┣┤┥┦┧┨┩┪┫┬┭┮┯┰┱┲┳┴┵┶┷┸┹┺┻┼┽┾┿

```

THE SICK BROWN QULX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

SKIP A B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: JOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null

```

000 █	040	100 e	140 ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 Y	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 E	065 5	125 U	165 u
026 ⊗	066 6	126 V	166 v
027 ⇔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!@#\$%^&*~?/\|()_

~!@#A-En)adk>0UV3@---x-Qv

THE SICK BROWN QUILX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things:

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

APPEND FUNCTION FOR LISP

SKPA B,1440700,(ASCIZ 'FOOBAR[])

loop to print chars

LOOP: JOT TYOCA

!LDB A,B

JUMPN A,LOOP

;jump unless terminating null

English Alphabets

Family: News Gothic

The News Gothic family comes to us from Carnegie-Mellon. These fonts were hand-drawn by Janice Karlton (her husband was a graduate student at CMU) from Letraset transfer characters, then laboriously edited by hand on an ARDS display. Because of the care which went into making them, they are among the nicest variable-width sans serif fonts we have.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; 13VG KST	V	13	11	13	5	10	7	
FONTS; 20VG KST	V	20	16	20	8	16	13	
FONTS1; 20VG2 KST	V	20	16	18	8	16	13	20VG with short underscore
FONTS; 20VGI KST	V	20	16	20	8	16	14	
FONTS; 25VG KST	V	25	20	23	10	20	17	
FONTS1; 25VGC KST	V	25	20	23	10	20	20	
FONTS; 25VGB KST	V	25	20	23	10	20	17	
FONTS; 25VBC KST	V	25	20	22	8	20	17	
FONTS; 25VGH KST	V	25	20	23	10	20	17	
FONTS; 25VGI KST	V	25	20	23	10	20	17	
FONTS; 31VG KST	V	31	24	31	12	24	20	
FONTS1; 31VGZ KST	V	31	24	31	12	24	20	
FONTS; 31VGB KST	V	31	24	32	12	24	20	
FONTS; 31VGI KST	V	31	24	31	12	24	20	
FONTS; 31VGB KST	V	31	24	32	12	24	20	
FONTS; 40VG KST	V	40	32	37	16	32	26	
FONTS; 40VGL KST	V	40	32	37	16	32	27	

000	040	100	e @	140	'
001	041 ! !	101	A A	141	a a
002	042 " "	102	B B	142	b b
003	043 # #	103	C C	143	c c
004	044 \$ \$	104	D D	144	d d
005	045 % %	105	E E	145	e e
006	046 & &	106	F F	146	f f
007	047 ' '	107	G G	147	g g
010	050 ( (	110	H H	150	h h
011	051))	111	I I	151	i i
012	052 * *	112	J J	152	j j
013	053 + +	113	K K	153	k k
014	054 , ,	114	L L	154	l l
015	055 - -	115	M M	155	m m
016	056 . .	116	N N	156	n n
017	057 / /	117	O O	157	o o
020	060 0 0	120	P P	160	p p
021	061 1 1	121	Q Q	161	q q
022	062 2 2	122	R R	162	r r
023	063 3 3	123	S S	163	s s
024	064 4 4	124	T T	164	t t
025	065 5 5	125	U U	165	u u
026	066 6 6	126	V V	166	v v
027	067 7 7	127	W W	167	w w
030	070 8 8	130	X X	170	x x
031	071 9 9	131	Y Y	171	y y
032	072 : :	132	Z Z	172	z z
033	073 ; ;	133	[ [	173	{ {
034	074 < <	134	\ \	174	| |
035	075 = =	135]]	175	} }
036	076 > >	136	^ ^	176	~ ~
037	077 ? ?	137	_ _	177	f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

␣

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

;APPEND FUNCTION FOR LISP

000	␣	040	100	@	140	'
001	↓	041	!	!	141	a a
002	α	042	"	"	142	b b
003	β	043	#	#	143	c c
004	^	044	\$	\$	144	d d
005	-	045	%	%	145	e e
006	¢	046	&	&	146	f f
007	π	047	'	'	147	g g
010	λ	050	(	(	150	h h
011	Υ	051	)	)	151	i i
012	δ	052	*	*	152	j j
013	↑	053	+	+	153	k k
014	±	054	,	,	154	l l
015	⊕	055	-	-	155	m m
016	∞	056	.	.	156	n n
017	∂	057	/	/	157	o o
020	¢	060	0	0	160	p p
021	⊃	061	1	1	161	q q
022	∩	062	2	2	162	r r
023	∪	063	3	3	163	s s
024	∨	064	4	4	164	t t
025	∃	065	5	5	165	u u
026	⊙	066	6	6	166	v v
027	⊕	067	7	7	167	w w
030	←	070	8	8	170	x x
031	→	071	9	9	171	y y
032	≠	072	:	:	172	z z
033	◇	073	;	;	173	{ {
034	≤	074	<	<	174	| |
035	≥	075	=	=	175	} }
036	≡	076	>	>	176	~ ~
037	∇	077	?	?	177	∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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!"#\$%&'()*+,-./:;<=>?[\]↑←{|}~

␣

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(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

000	☐	040		100	e	@	140	'
001	↓	041	!	101	A	A	141	a
002	α	042	"	102	B	B	142	b
003	β	043	#	103	C	C	143	c
004	^	044	\$	104	D	D	144	d
005	~	045	%	105	E	E	145	e
006	€	046	&	106	F	F	146	f
007	π	047	'	107	G	G	147	g
010	λ	050	(	110	H	H	150	h
011	Υ	051	)	111	I	I	151	i
012	δ	052	*	112	J	J	152	j
013	↑	053	+	113	K	K	153	k
014	±	054	,	114	L	L	154	l
015	⊕	055	-	115	M	M	155	m
016	∞	056	.	116	N	N	156	n
017	∂	057	/	117	O	O	157	o
020	c	060	0	120	P	P	160	p
021	⊃	061	1	121	Q	Q	161	q
022	∩	062	2	122	R	R	162	r
023	∪	063	3	123	S	S	163	s
024	∇	064	4	124	T	T	164	t
025	∃	065	5	125	U	U	165	u
026	⊙	066	6	126	V	V	166	v
027	⊕	067	7	127	W	W	167	w
030	←	070	8	130	X	X	170	x
031	→	071	9	131	Y	Y	171	y
032	≠	072	:	132	Z	Z	172	z
033	◇	073	;	133	[	[	173	{
034	≤	074	<	134	\	\	174	|
035	≥	075	=	135	]	]	175	}
036	≡	076	>	136	^	↑	176	~
037	∨	077	?	137	_	←	177	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]↑←{|}~

☐

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(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

000	040	100	@	140	'
001	041	101	A	141	a
002	042	102	B	142	b
003	043	103	C	143	c
004	044	104	D	144	d
005	045	105	E	145	e
006	046	106	F	146	f
007	047	107	G	147	g
010	050	110	H	150	h
011	051	111	I	151	i
012	052	112	J	152	j
013	053	113	K	153	k
014	054	114	L	154	l
015	055	115	M	155	m
016	056	116	N	156	n
017	057	117	O	157	o
020	060	120	P	160	p
021	061	121	Q	161	q
022	062	122	R	162	r
023	063	123	S	163	s
024	064	124	T	164	t
025	065	125	U	165	u
026	066	126	V	166	v
027	067	127	W	167	w
030	070	130	X	170	x
031	071	131	Y	171	y
032	072	132	Z	172	z
033	073	133	[	173	{
034	074	134	\	174	|
035	075	135	]	175	}
036	076	136	^	176	~
037	077	137	_	177	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

␣

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And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

;APPEND FUNCTION FOR LISP

000	␣	040	100	⓪	140	'
001	↓	041	101	A A	141	a a
002	α	042	102	B B	142	b b
003	β	043	103	C C	143	c c
004	^	044	104	D D	144	d d
005	¬	045	105	E E	145	e e
006	ε	046	106	F F	146	f f
007	π	047	107	G G	147	g g
010	λ	050	110	H H	150	h h
011	Υ	051	111	I I	151	i i
012	Ⓢ	052	112	J J	152	j j
013	↑	053	113	K K	153	k k
014	±	054	114	L L	154	l l
015	⓪	055	115	M M	155	m m
016	∞	056	116	N N	156	n n
017	∂	057	117	O O	157	o o
020	c	060	120	P P	160	p p
021	∩	061	121	Q Q	161	q q
022	∩	062	122	R R	162	r r
023	U	063	123	S S	163	s s
024	V	064	124	T T	164	t t
025	∃	065	125	U U	165	u u
026	⊙	066	126	V V	166	v v
027	↔	067	127	W W	167	w w
030	†	070	130	X X	170	x x
031	→	071	131	Y Y	171	y y
032	*	072	132	Z Z	172	z z
033	◇	073	133	[ [	173	{ {
034	≤	074	134	\ \	174	| |
035	≥	075	135	] ]	175	} }
036	≡	076	136	^ ^	176	~ ~
037	∇	077	137	_ _	177	⌘

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]`~
 ␣

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

```

```

LOOP:   SKIPA B,[440700,.[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null

```

000	␣	040		100	e	@	140	'
001	↓	041	!	101	A	A	141	a
002	α	042	"	102	B	B	142	b
003	β	043	#	103	C	C	143	c
004	^	044	\$	104	D	D	144	d
005	~	045	%	105	E	E	145	e
006	ε	046	&	106	F	F	146	f
007	π	047	'	107	G	G	147	g
010	λ	050	(	110	H	H	150	h
011	Υ	051	)	111	I	I	151	i
012	δ	052	*	112	J	J	152	j
013	↑	053	+	113	K	K	153	k
014	±	054	,	114	L	L	154	l
015	⊕	055	-	115	M	M	155	m
016	∞	056	.	116	N	N	156	n
017	∂	057	/	117	O	O	157	o
020	c	060	0	120	P	P	160	p
021	⊃	061	1	121	Q	Q	161	q
022	∩	062	2	122	R	R	162	r
023	∪	063	3	123	S	S	163	s
024	∇	064	4	124	T	T	164	t
025	∃	065	5	125	U	U	165	u
026	⊙	066	6	126	V	V	166	v
027	⊕	067	7	127	W	W	167	w
030	†	070	8	130	X	X	170	x
031	→	071	9	131	Y	Y	171	y
032	*	072	:	132	Z	Z	172	z
033	◇	073	;	133	[	[	173	{
034	≤	074	<	134	\	\	174	|
035	≥	075	=	135	]	]	175	}
036	≡	076	>	136	^	^	176	~
037	∇	077	?	137	_	_	177	␣

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
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```

```
SKIP A B,[440700,.[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000	␣	040	100	@	140	'
001	↓	041	!	!	141	a a
002	α	042	"	"	142	b b
003	β	043	#	#	143	c c
004	^	044	\$	\$	144	d d
005	¬	045	%	%	145	e e
006	€	046	&	&	146	f f
007	π	047	'	'	147	g g
010	λ	050	(	(	150	h h
011	Υ	051	)	)	151	i i
012	Ⓢ	052	*	*	152	j j
013	↑	053	+	+	153	k k
014	±	054	,	,	154	l l
015	⊕	055	-	-	155	m m
016	∞	056	.	.	156	n n
017	∂	057	/	/	157	o o
020	c	060	0	0	160	p p
021	⊃	061	1	1	161	q q
022	∩	062	2	2	162	r r
023	∪	063	3	3	163	s s
024	Υ	064	4	4	164	t t
025	∃	065	5	5	165	u u
026	⊙	066	6	6	166	v v
027	⊕	067	7	7	167	w w
030	←	070	8	8	170	x x
031	→	071	9	9	171	y y
032	*	072	:	:	172	z z
033	◇	073	;	;	173	{ {
034	≤	074	<	<	174	
035	≥	075	=	=	175	} }
036	≡	076	>	>	176	~ ~
037	∇	077	?	?	177	f

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LOOP: .IOT TYOC,A
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```

000	☐	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	~	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	⊃	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	⊕	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	⊗	072	:	132	Z	172	z
033	⊙	073	;	133	[173	{
034	≤	074	<	134	\	174	
035	≥	075	=	135]	175	}
036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	f

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000	␣	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	~	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[173	{
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036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	f

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0123456789

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␣ → ⊕

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;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

LOOP: SKIPA B,[440700,],[ASCIZ \FOOBAR\]] ;loop to print chars

.IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000 █	040	100 @	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊗	066 6	126 V	166 v
027 ⊕	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

█

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

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Of shoes, and ships, and sealing-wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

;APPEND FUNCTION FOR LISP

SKIP A B,[440700,,[ASCIZ \FOOBAR\]]

;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

English Alphabets

Family: Meteor

This series of fonts came to MIT courtesy of CMU, who probably got them from Stanford. Rumor has it that they were created from Melior, a contemporary design of Hermann Zapf based on the superellipse. This quality of Melior just doesn't come through, however, in the Meteor. Nonetheless, they are a pleasant face to read. There are three sizes, called Large, Medium, and Small and are designated respectively by L, M, or S. Italic (not true italic, but slanted), bold, and bold italic are further designated by I, B, and BI appended to the end.

Font Name	Pitch	HT	BL	MW	SW	XC	XL
FONT1; METS KST	V	25	20	28	8	19	17
FONT1; METSB KST	V	25	20	26	8	19	17
FONT1; METSBI KST	V	25	20	24	8	19	17
FONT1; METSI KST	V	25	20	23	8	19	17
FONT1; METM KST	V	30	21	33	16	20	18
FONT1; METM1 KST	V	30	21	33	16	20	18
FONT1; METMB KST	V	30	21	35	8	20	18
FONT1; METMB1 KST	V	30	21	36	8	20	18
FONT1; METMBI KST	V	30	21	32	8	21	18
FONT1; METMI KST	V	30	21	31	16	21	18
FONT1; MET25 KST	V	30	21	33	16	20	18
FONT1; METL KST	V	35	25	34	10	24	21
FONT1; METLB KST	V	35	25	37	10	24	21
FONT1; METLBI KST	V	35	25	37	10	24	21
FONT1; METLI KST	V	35	25	33	10	24	21

000 █	040	100 @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 - -	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ γ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ∩ ∩	061 1 1	121 Q Q	161 q q
022 ∪ ∪	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 ↕ ↕	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 ∫ ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~∫

↓αβγδϵπλΥδ↑±⊕∞∂c∩∪V∃⊗⊕↕←→≠♦≤≥≡√

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	¬	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[173	{
034	≤	074	<	134	\	174	
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036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	/

ABCDEFGHIJKLMNOPQRSTUVWXYZ
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 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~/
 i p ^ a ε π c ↑ u m r ∩ d i V - π ↔ ≠ * · i V

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```

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```

```

LOOP:  SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating nu
  
```

000 █		040		100 e @		140 ' '	
001 ↓	↓	041 !	!	101 A	A	141 a	a
002 α	α	042 "	"	102 B	B	142 b	b
003 β	β	043 #	#	103 C	C	143 c	c
004 ^	^	044 \$	\$	104 D	D	144 d	d
005 ~	~	045 %	%	105 E	E	145 e	e
006 €	€	046 &	&	106 F	F	146 f	f
007 π	π	047 '	'	107 G	G	147 g	g
010 λ	λ	050 (	(	110 H	H	150 h	h
011 Υ	Υ	051 )	)	111 I	I	151 i	i
012 δ	δ	052 *	*	112 J	J	152 j	j
013 ↑	↑	053 +	+	113 K	K	153 k	k
014 ±	±	054 ,	,	114 L	L	154 l	l
015 ⊕	⊕	055 -	-	115 M	M	155 m	m
016 ∞	∞	056 .	.	116 N	N	156 n	n
017 ∂	∂	057 /	/	117 O	O	157 o	o
020 c	c	060 0	0	120 P	P	160 p	p
021 ⊃	⊃	061 1	1	121 Q	Q	161 q	q
022 n	n	062 2	2	122 R	R	162 r	r
023 u	u	063 3	3	123 S	S	163 s	s
024 v	v	064 4	4	124 T	T	164 t	t
025 ∃	∃	065 5	5	125 U	U	165 u	u
026 ⊙	⊙	066 6	6	126 V	V	166 v	v
027 ⇨	⇨	067 7	7	127 W	W	167 w	w
030 ←	←	070 8	8	130 X	X	170 x	x
031 →	→	071 9	9	131 Y	Y	171 y	y
032 ≠	≠	072 :	:	132 Z	Z	172 z	z
033 ♦	♦	073 ;	;	133 [	[	173 {	{
034 ≤	≤	074 <	<	134 \	\	174 |	|
035 ≥	≥	075 =	=	135 ]	]	175 }	}
036 ≡	≡	076 >	>	136 ^	^	176 ~	~
037 v	v	077 ?	?	137 _	_	177 f	f

ABCDEFGHIJKLMN OPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ↓αβλ~επλΥδ↑±⊕ω∂c⊃nUV∃⊕⇨→x♦≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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```

```
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        .IOT TYOC, A
        ILOB A, B
        JUMPN A, LOOP ;jump unless terminating null
```

000	█	▯	040		100	e	e	140	'	'
001	↓	▯	041	!	101	A	A	141	a	a
002	α	▯	042	"	102	B	B	142	b	b
003	β	▯	043	#	103	C	C	143	c	c
004	^	▯	044	\$	104	D	D	144	d	d
005	~	▯	045	%	105	E	E	145	e	e
006	ε	▯	046	&	106	F	F	146	f	f
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011	Υ	▯	051)	111	I	I	151	i	i
012	δ	▯	052	*	112	J	J	152	j	j
013	↑	▯	053	+	113	K	K	153	k	k
014	±	▯	054	,	114	L	L	154	l	l
015	⊕	▯	055	-	115	M	M	155	m	m
016	∞	▯	056	.	116	N	N	156	n	n
017	∂	▯	057	/	117	O	O	157	o	o
020	c	▯	060	0	120	P	P	160	p	p
021	⌋	▯	061	1	121	Q	Q	161	q	q
022	∩	▯	062	2	122	R	R	162	r	r
023	U	▯	063	3	123	S	S	163	s	s
024	V	▯	064	4	124	T	T	164	t	t
025	∃	▯	065	5	125	U	U	165	u	u
026	⊙	▯	066	6	126	V	V	166	v	v
027	⊕	▯	067	7	127	W	W	167	w	w
030	←	▯	070	8	130	X	X	170	x	x
031	→	▯	071	9	131	Y	Y	171	y	y
032	≠	▯	072	:	132	Z	Z	172	z	z
033	⊕	▯	073	;	133	[	[	173	{	{
034	≤	▯	074	<	134	\	\	174	|	|
035	≥	▯	075	=	135	]	]	175	}	}
036	≡	▯	076	>	136	^	^	176	~	~
037	v	▯	077	?	137	_	_	177	⌘	⌘

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 @ABCDEFGHIJKLMNOQRSTUVWXYZ123456789

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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LOOP:   SKIPA B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```


000 █	040	100 e e	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 Υ Υ	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨ ∨	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ↓αβλ~επλγδ↑±∞∂c<∩UV∃⊕↔↔*♦≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))
  
```

```

LOOP:   SKIPA B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```

000 █ █	040	100 e e	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 ø ø	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 † †	067 7 7	127 W W	167 w w
030 † †	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [[173 { {
034 ≤ ≤	074 < <	134 \ \	174
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 f f

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 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~f
 █↓αβλ~rcπλΥδ↑±⊕∞∂c>nUV∃⊕†→≠♦≤≥≡

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001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' ' ,	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ø	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ð	057 / /	117 O O	157 o o
020 <	060 Ø Ø	120 P P	160 p p
021 >	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 E	065 5 5	125 U U	165 u u
026 ø	066 6 6	126 V V	166 v v
027 +	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [[173 { {
034 ≤	074 < <	134 \ \	174
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036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f

```

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#$%&'()*+,-./:;<=>?[\]^_`{|}~
<~λ↑τωδ<ΠUVΞ@++→x~≤≥≡

```

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      ILDB A, B
      JUNPN A, LOOP ;jump unless terminating null

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000 █		040		100 @ e		140 ' ' .
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 Y		051))		111 I I		151 i i
012 S		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ±		054 , ,		114 L L		154 l l
015 ⊕ ⊕		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 c c		060 Ø Ø		120 P P		160 p p
021 ∩ ∩		061 1 1		121 Q Q		161 q q
022 n n		062 2 2		122 R R		162 r r
023 U U		063 3 3		123 S S		163 s s
024 V V		064 4 4		124 T T		164 t t
025 ∃ ∃		065 5 5		125 U U		165 u u
026 ⊗ ⊗		066 6 6		126 V V		166 v v
027 ⇔ ⇔		067 7 7		127 W W		167 w w
030 † †		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ≡		076 > >		136 ^ ^		176 ~ ~
037 √ √		077 ? ?		137 _ _		177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

¡ª«¬¬-ε nλ†zωδc∩UV]@«+→zθ≤≥εv

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
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  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

SKIPI B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC, A
      ILDB A, B
      JUMPN A, LOOP ;jump unless terminating null
```

000 █	040	100 @	140 ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 Υ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 <	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 0	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ⇄	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ◊	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 ∨	077 ?	137 _	177 f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

!@#~^&λ!<@caPIUV3e+~z-{}~

THE SICK BROWN OQUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things:

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

:APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

SKIP A B.(110700..(ASCIZ \FOOBAR\))

:loop to print chars

LOOP: .101 TYOC.A

ILDB A,B

JUMPN A,LOOP

:jump unless terminating null

000 █	040	100 @	140 ' ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 Y	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ∃	061 1	121 Q	161 q
022 ∩	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ⇔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

```

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!*%&'()*+,-./:;<=>?[\]^_`{|}~
!@#-~en\!@#%&'*UV3e+-#-5}#~

```

THE SICK BPOWN QUUX JUMPED OVER THE LAZY FROG.

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 And whether pigs have wings."

```

(DEFUN APPEND (X Y)
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
:APPEND FUNCTION FOR LISP

SKIPR B.(440700..(ASCIZ \FOOBAR\))
:loop to print chars

LOOP: .DOT TYOC.R
      ILDB R.R
      JUMPN R.LOOP
:jump unless terminating null

```

English Alphabets

Family: LPT

The LPT family is so named because its members are all based on the design of characters for line printers. 25FG is the default font for the XGP, and is quite functional; one might even consider it attractive, although the eye tires after reading much extended text in it. The smaller sizes, especially 20FG, are primarily for packing a lot of text on the page such as for program listings.

Font Name	Pitch	HT	BL	MW	SW	XC	XL
FONTS; 13FG KST	F	13	11	9	9	11	9
FONTS; 13FGB KST	V	13	11	10	10	11	9
FONTS; 20FG KST	F	20	15	12	12	15	13
FONTS; 20FGI KST	F	20	15	12	12	15	13
FONTS; 25FG KST	F	25	20	16	16	20	17
FONTS; 25FGB KST	V	25	20	17	17	20	17
FONTS1; 25FGZ KST	F	25	20	17	17	20	17
FONTS; S16ROT KST	F	16	16	25	25	--	--
FONTS; S25X1F KST	F	25	20	16	16	20	17
FONTS; 30FG KST	F	30	25	19	19	25	21
FONTS1; 31FG KST	F	31	24	20	20	24	20
FONTS; 40FG KST	F	40	33	25	25	33	30

000 █		040		100 @ @		140 ' '
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 Υ Υ		051))		111 I I		151 i i
012 ⑆ †		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ⊕ ∩		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 c c		060 0 0		120 P P		160 p p
021 ∩ ∩		061 1 1		121 Q Q		161 q q
022 n n		062 2 2		122 R R		162 r r
023 U U		063 3 3		123 S S		163 s s
024 V V		064 4 4		124 T T		164 t t
025 ∃ ∃		065 5 5		125 U U		165 u u
026 ⊙ ⊙		066 6 6		126 V V		166 v v
027 † †		067 7 7		127 W W		167 w w
030 † †		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 † †		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ≡		076 > >		136 ^ †		176 ~ }
037 ∨ ∨		077 ? ?		137 _ †		177 ∫ _

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]`{|}~_

αβγδεζηϑ ρσ τ υ φ χ ψ ω ∞ ∫ ∑ ∏ √ ∛ ∜ ∝ ∞ ∫ ∑ ∏ √ ∛ ∜ ∝ ∞ ∫ ∑ ∏ √ ∛ ∜ ∝

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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```

```
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      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000 █	040	100 e @	140 '
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 <	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ †	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 <	060 0 0	120 P P	160 p p
021 ⊃	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ⇨	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ◊	073 ; ;	133 [ [	173 { {
034 ≤ ↘	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\\]^_{|}~

†≥

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000 █	040	100 @ @	140 ' ' a
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
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010 λ	050 ((110 H H	150 h h
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024 V	064 4 4	124 T T	164 t t
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026 ⊙	066 6 6	126 V V	166 v v
027 ⇄	067 7 7	127 W W	167 w w
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LOOP:   SKIP A B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
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```


000 █	040	100 @ @	140 ' `
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 c	046 & &	106 F F	146 f f
007 π	047 ' ^	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ø	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ð	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ɔ	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 Y	064 4 4	124 T T	164 t t
025 Ɔ	065 5 5	125 U U	165 u u
026 ø	066 6 6	126 V V	166 v v
027 ↔	067 7 7	127 W W	167 w w
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031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [[173 { {
034 ≤	074 < <	134 \ \	174
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 v	077 ? ?	137 _ _	177 f ~

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_{}~`

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

SKIP A B,[440700,.[ASCIZ \FOOBAR\]] ;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000 █ █	040	100 e e	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' ' (apostrophe)	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 s s	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 > >	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ⇄ ⇄	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 f Δ

```

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#$%&'()*+,-./:;<=>?[\]^_`{|}~Δ
█↓αβλ~επλγδ††εωδc>UUVΞεε←→≠φζ≥v
    
```

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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```

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  (COND ((NULL X) Y)
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```

LOOP:   SKIPA B,[440700],[ASCIZ \FOOBAR\] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
    
```

000 █	040	100 @ @	140 ' '
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' ' (grave)	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ †	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∩	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 ∩	065 5 5	125 U U	165 u u
026 ⊙ •	066 6 6	126 V V	166 v v
027 ⇄	067 7 7	127 W W	167 w w
030 ← →	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ◊	073 ; ;	133 [[173 { {
034 ≤	074 < <	134 \ \	174
035 ≥	075 = =	135 } }	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f Δ

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0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~Δ

†⊕←≡

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```
LOOP: SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000 █	040	100 @	140 ' ,
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' .	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∩	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
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025 ∃	065 5 5	125 U U	165 u u
026 ⊗	066 6 6	126 V V	166 v v
027 ⇄	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
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036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

!+⋄

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```
(DEFUN APPEND (X Y)
```

```
;APPEND FUNCTION FOR LISP
```

```
(COND ((NULL X) Y)
```

```
(T (CONS (CAR X) (APPEND (CDR X) Y))))))
```

```
SKIP A,B,[440700,..[ASCIZ \FOOBAR\]]
```

```
;loop to print chars
```

```
LOOP: .IOT TYOC,A
```

```
ILDB A,B
```

```
JUMPN A,LOOP
```

```
;jump unless terminating null
```

000 █	040	100 @	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 '	107 G	147 g
010 λ	050 (	110 H	150 h
011 Υ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ⊃	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 Y	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊕	066 6	126 V	166 v
027 ↔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnpqrstuvwxy

0123456789

!"#\$%&'()*+,-./:;<->? [] { } ~

←

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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Of shoes, and ships, and sealing wax,

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(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

SKIP A,B,[440700],[ASCIIZ FOOBAR]]

;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

English Alphabets

Family: **Gacham**

This family has found favor among XGP users. It is a comfortable sans serif design of fixed width, ideal for listings and tabular work. It bears a close resemblance to IBM's Letter Gothic face for their Selectric type balls. These appear to have come from the Stanford A.I. Lab, as so many of our fonts have. The one exception is GACS25, which is Knuth's METAFONT version of Gacham, except that any incompatibilities in character set assignment have been removed.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; 16FG KST	F	16	11	10	10	11	10	
FONTS; 18FG KST	F	18	13	12	12	12	9	
FONTS; 22FG KST	F	22	17	13	13	16	14	
FONTS; 22FGS KST	F	22	17	13	13	16	14	SAIL character set
FONTS; 25FG1 KST	F	25	20	14	14	19	17	
FONTS; 25FGB1 KST	F	25	20	16	16	20	17	
FONTS; 25FG11 KST	F	25	20	16	16	20	17	
FONTS; 30FGB1 KST	F	30	20	16	16	20	17	
TEXFNT; GACS25 KST	F	25	20	16	16	19	14	

033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	∨	077	?	137	_	177	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_

□↓αβ∧¬επλγδ↑±⊕∞∂⊃⊄⊅⊆⊇⊈⊉⊊⊋⊌⊍⊎⊏⊐⊑⊒⊓⊔⊕⊖⊗⊘⊙⊚⊛⊜⊝⊞⊟⊠⊡⊢⊣⊤⊥⊦⊧⊨⊩⊪⊫⊬⊭⊮⊯⊰⊱⊲⊳⊴⊵⊶⊷⊸⊹⊺⊻⊼⊽⊾⊿⋀⋁⋂⋃⋄⋅⋆⋇⋈⋉⋊⋋⋌⋍⋎⋏⋐⋑⋒⋓⋔⋕⋖⋗⋘⋙⋚⋛⋜⋝⋞⋟⋠⋡⋢⋣⋤⋥⋦⋧⋨⋩⋪⋫⋬⋭⋮⋯⋰⋱⋲⋳⋴⋵⋶⋷⋸⋹⋺⋻⋼⋽⋾⋿⊘⊙⊚⊛⊜⊝⊞⊟⊠⊡⊢⊣⊤⊥⊦⊧⊨⊩⊪⊫⊬⊭⊮⊯⊰⊱⊲⊳⊴⊵⊶⊷⊸⊹⊺⊻⊼⊽⊾⊿⋀⋁⋂⋃⋄⋅⋆⋇⋈⋉⋊⋋⋌⋍⋎⋏⋐⋑⋒⋓⋔⋕⋖⋗⋘⋙⋚⋛⋜⋝⋞⋟⋠⋡⋢⋣⋤⋥⋦⋧⋨⋩⋪⋫⋬⋭⋮⋯⋰⋱⋲⋳⋴⋵⋶⋷⋸⋹⋺⋻⋼⋽⋾⋿

THE SICK BROWN QUUX JUMPED OV

"Te e a ce," e Wa ad,

"T a f a ;

Of e, ad , ad ea a,

Of cabbae ad ,

Ad e ea b ,

Ad ee ae ."

(DEFUN APPEND (X Y) ; API

(COND ((NULL X) Y)

(T (CONS (CAR X)

SKIP A B, [440700, , [ASC

LOOP: .IOT TYOC, A

ILDB A, B

JUMPN A, LOOP ;

000 ■	040	100 e	@	140 ' /
001 ↓	041 !	101 A	A	141 a
002 α	042 "	102 B	B	142 b
003 β	043 #	103 C	C	143 c
004 ^	044 \$	104 D	D	144 d
005 ~	045 %	105 E	E	145 e
006 €	046 &	106 F	F	146 f
007 π	047 ' /	107 G	G	147 g
010 λ	050 (	110 H	H	150 h
011 γ	051)	111 I	I	151 i
012 δ	052 *	112 J	J	152 j
013 ↑	053 +	113 K	K	153 k
014 ±	054 ,	114 L	L	154 l
015 ⊕	055 -	115 M	M	155 m
016 ∞	056 .	116 N	N	156 n
017 ∂	057 /	117 O	O	157 o
020 c	060 0	120 P	P	160 p
021 ∃	061 1	121 Q	Q	161 q
022 n	062 2	122 R	R	162 r
023 u	063 3	123 S	S	163 s
024 v	064 4	124 T	T	164 t
025 E	065 5	125 U	U	165 u
026 ⊗	066 6	126 V	V	166 v
027 ↔	067 7	127 W	W	167 w
030 ←	070 8	130 X	X	170 x
031 →	071 9	131 Y	Y	171 y
032 ≠	072 :	132 Z	Z	172 z

000	☐	040	100	@	140	'
001	↓	041	!	!	141	a
002	α	042	"	"	142	b
003	β	043	#	#	143	c
004	∧	044	\$	\$	144	d
005	-	045	%	%	145	e
006	ε	046	&	&	146	f
007	π	047	'	'	147	g
010	λ	050	(	(	150	h
011	γ	051	)	)	151	i
012	δ	052	*	*	152	j
013	↑	053	+	+	153	k
014	±	054	,	,	154	l
015	⊕	055	-	-	155	m
016	∞	056	.	.	156	n
017	∂	057	/	/	157	o
020	c	060	0	0	160	p
021	∃	061	1	1	161	q
022	∩	062	2	2	162	r
023	∪	063	3	3	163	s
024	∇	064	4	4	164	t
025	∃	065	5	5	165	u
026	⊗	066	6	6	166	v
027	↔	067	7	7	167	w
030	←	070	8	8	170	x
031	→	071	9	9	171	y
032	≠	072	:	:	172	z
033	◇	073	;	;	173	{
034	≤	074	<	<	174	|
035	≥	075	=	=	175	}
036	≡	076	>	>	176	~
037	∨	077	?	?	177	∫
			100	e		
			101	A		
			102	B		
			103	C		
			104	D		
			105	E		
			106	F		
			107	G		
			110	H		
			111	I		
			112	J		
			113	K		
			114	L		
			115	M		
			116	N		
			117	O		
			120	P		
			121	Q		
			122	R		
			123	S		
			124	T		
			125	U		
			126	V		
			127	W		
			130	X		
			131	Y		
			132	Z		
			133	[
			134	\		
			135]		
			136	^		
			137	_		

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789

! " # \$ % & ' () * + , - . / : ; < = > ? [\] ^ _ { | } ~ ∫
 ☐ ↓ α β ∧ ∇ ∃ ⊕ ∞ ∂ c ∃ ∪ ∇ ∃ ⊗ ↔ ← → ≠ ◇ ≤ ≥ ≡ ∨

000 █	040	100 e	@	140 ' `
001 ↓	041 !	101 A	A	141 a
002 α	042 "	102 B	B	142 b
003 β	043 #	103 C	C	143 c
004 ^	044 \$	104 D	D	144 d
005 -	045 %	105 E	E	145 e
006 €	046 &	106 F	F	146 f
007 π	047 ' `	107 G	G	147 g
010 λ	050 (	110 H	H	150 h
011 γ	051)	111 I	I	151 i
012 δ	052 *	112 J	J	152 j
013 ↑	053 +	113 K	K	153 k
014 ±	054 ,	114 L	L	154 l
015 ⊕	055 -	115 M	M	155 m
016 ∞	056 .	116 N	N	156 n
017 ∂	057 /	117 O	O	157 o
020 c	060 0	120 P	P	160 p
021 ɔ	061 1	121 Q	Q	161 q
022 n	062 2	122 R	R	162 r
023 u	063 3	123 S	S	163 s
024 v	064 4	124 T	T	164 t
025 Ʒ	065 5	125 U	U	165 u
026 ⊗	066 6	126 V	V	166 v
027 ⇄	067 7	127 W	W	167 w
030 ←	070 8	130 X	X	170 x
031 →	071 9	131 Y	Y	171 y
032 ≠	072 :	132 Z	Z	172 z
033 ♦	073 ;	133 [	[	173 {
034 ≤	074 <	134 \	\	174 |
035 ≥	075 =	135]]	175 }
036 ≡	076 >	136 ^	^	176 ~
037 v	077 ?	137 _	_	177 /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
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!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 █↓αβ^~επλγδ↑±⊕∞∂ccɔnuvƷ⊗⇄⇌⇐⇒≠♦≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
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 Of cabbages and kings,
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000 █		040		100 e @		140 ' '
001 ↓ á		041 ! !		101 A A		141 a a
002 α é		042 " "		102 B B		142 b b
003 β		043 # #		103 C C		143 c c
004 ^ í		044 \$ \$		104 D D		144 d d
005 ¬ ó		045 % %		105 E E		145 e e
006 € ú		046 & &		106 F F		146 f f
007 π ö		047 ' '		107 G G		147 g g
010 λ		050 ( (		110 H H		150 h h
011 Υ		051))		111 I I		151 ì ì
012 ς		052 * *		112 J J		152 j j
013 ↑		053 + +		113 K K		153 k k
014 ±		054 , ,		114 L L		154 l l
015 ⊕		055 - -		115 M M		155 m m
016 ∞ δ		056 . .		116 N N		156 n n
017 ∂ ū		057 / /		117 O O		157 o o
020 c		060 0 0		120 P P		160 p p
021 ∷		061 1 1		121 Q Q		161 q q
022 η í		062 2 2		122 R R		162 r r
023 U ó		063 3 3		123 S S		163 s s
024 V Ū		064 4 4		124 T T		164 t t
025 ∃ ö		065 5 5		125 U U		165 u u
026 ⊙ Ū		066 6 6		126 V V		166 v v
027 ⇨ Ő		067 7 7		127 W W		167 w w
030 ← Ū		070 8 8		130 X X		170 x x
031 → Á		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ♦ ~		073 ; ;		133 [ [		173 { {
034 ≤ É		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ü		076 > >		136 ^		176 ~ ~
037 √ √		077 ? ?		137 _ _		177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
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 0123456789
 !"#\$%&'()*+,-./:;<=>?[_{}~
 áéíóúöøüíóúöøüÁ#~Ézüv

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```

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  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

```

```

SKIP A B,[440700],[ASCIZ \FOOBAR\] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null

```

000 █ █	040	100 @ @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ⊃ ⊃	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

! " # \$ % & ' () * + , - . / : ; < = > ? [\] ^ _ { | } ~

█ ↓ α β λ ~ € π γ δ ↑ ± ∞ ∂ c ⊃ n U V ⊙ ↔ ← → ≠ ♦ ≤ ≥ ≡ v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))
```

```
SKIP A B,[440700,,[ASCIZ [FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000 █	040	100 @ @	140 ' 'c
001 ↓	041 ! !	101 A A	141 a a
002 α i	042 " "	102 B B	142 b b
003 β p	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 - a	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ c	050 ( (	110 H H	150 h h
011 Y	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ u	056 . .	116 N N	156 n n
017 ∂ m	057 / /	117 O O	157 o o
020 c r	060 0 0	120 P P	160 p p
021 ∩ ∩	061 1 1	121 Q Q	161 q q
022 ∩ p	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ⇄ η	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤ *	074 < <	134 \ \	174 | |
035 ≥ ·	075 = =	135]]	175 } }
036 ≡ i	076 > >	136 ^ ^	176 ~ ~
037 √ V	077 ? ?	137 _ _	177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~/
 ♂^_a€π_c↑_u_m_r→_d^V·η←→≠*·_i_V

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
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 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
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 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))
  )
  
```

```

LOOP: SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
  
```

000	␣	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	∧	044	\$	104	D	144	d
005	∧	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	γ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	∅	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∪	062	2	122	R	162	r
023	∩	063	3	123	S	163	s
024	∪	064	4	124	T	164	t
025	∩	065	5	125	U	165	u
026	⊕	066	6	126	V	166	v
027	∩	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	∨	077	?	137	_	177	/

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~
 ip∧aεπc↑umr∩d∪V∩←→≠*∩V

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
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 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP:   SKIPA B,[440700],[ASCIZ \FOOBAR\] ;loop to print chars
        .IOT TYOC;A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```


000 █	040	100 e @	140 ' 'c
001 ↓	041 ! !	101 A A	141 a a
002 α i	042 " "	102 B B	142 b b
003 β p	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ a	045 % %	105 E E	145 e e
006 ε €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ c	050 ( (	110 H H	150 h h
011 Y	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂ m	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∘	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 u	063 3 3	123 S S	163 s s
024 v	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ⇨ Π	067 7 7	127 W W	167 w w
030 ⇐ ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ◇	073 ; ;	133 [ [	173 { {
034 ≤ *	074 < <	134 \ \	174 | |
035 ≥ ·	075 = =	135]]	175 } }
036 ≡ i	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]_`{|}~
 #^_`a€πc↑mnr→d|V-Π←→≠*·iV

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```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP: .IOT TYOC,A ;loop to print chars
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
  
```

000 █		040		100 e @		140 ' 'c
001 ↓		041 ! !		101 A A		141 a a
002 α i		042 " "		102 B B		142 b b
003 β p		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ a		045 % %		105 E E		145 e e
006 ε €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ c		050 ( (		110 H H		150 h h
011 γ		051))		111 I I		151 i i
012 δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ±		054 , ,		114 L L		154 l l
015 ⊕		055 - -		115 M M		155 m m
016 ∞ n		056 . .		116 N N		156 n n
017 ∂ m		057 / /		117 O O		157 o o
020 c r		060 0 0		120 P P		160 p p
021 ∘ ∘		061 1 1		121 Q Q		161 q q
022 ∩ q		062 2 2		122 R R		162 r r
023 U		063 3 3		123 S S		163 s s
024 V V		064 4 4		124 T T		164 t t
025 ∃		065 5 5		125 U U		165 u u
026 ⊗		066 6 6		126 V V		166 v v
027 ↔ η		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 [ [		173 { {
034 ≤ *		074 < <		134 \ }		174 | }
035 ≥ .		075 = =		135] }		175 } }
036 ≡ I		076 > >		136 ^ ^		176 ~ ~
037 ∨ ∨		077 ? ?		137 _ _		177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~
 ip^a ∈ π_c ↑ nmr ∘_d ∨ V-η ← → ≠* I V

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))
  
```

```

LOOP: SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
  
```

000 █	040	100 e @	140 ' '
001 ↓	041 ! !	101 A A	141 a a
002 α i	042 " "	102 B B	142 b b
003 β p	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ a	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ c	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ u	056 . .	116 N N	156 n n
017 ∂ m	057 / /	117 O O	157 o o
020 c r	060 0 0	120 P P	160 p p
021 ∩ ∩	061 1 1	121 Q Q	161 q q
022 ∩ d	062 2 2	122 R R	162 r r
023 U i	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∃ ·	065 5 5	125 U U	165 u u
026 ⊕	066 6 6	126 V V	166 v v
027 ⇨ ∏	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ *	074 < <	134 \ \	174 | |
035 ≥ ·	075 = =	135]]	175 } }
036 ≡ i	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789

!"#\$%&'()*+,-./:;<=>?[\]_`{|}~/
 ip^aεπc↑umr▷d|V~∏←→≠*·iV

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(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
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```

```
LOOP: SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
```

000 █	040	100 @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 - -	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 ⑆ ⑆	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c C	060 0 0	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 Э Э	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

! " # \$ % & ' () * + , - . / : ; < = > ? [\] ^ _ { | } ~ `

↓ α β λ ^ - ε π λ γ δ ↑ ± ⊕ ∞ ∂ c ɔ n U V ⊗ ↔ ← → ≠ ♦ ≤ ≥ ≡ √

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
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 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,

000 █	040	100 e @	140 ' ´
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ¬ ¬	045 % %	105 E E	145 e e
006 ε €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ø	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 ø ø	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 Ʒ Ʒ	065 5 5	125 U U	165 u u
026 ø ø	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

English Alphabets

Family: Nonie

This is a second series of fonts obtained from our friends at CMU. These are apparently based on, if not identical to, fonts obtained in a questionable manner from an unnamed commercial source. The naming scheme is the same as that of the Meteor family. These are sans serif fonts, and are extremely readable.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTSI; NONS KST	V	25	18	23	8	17	15	
FONTSI; NONS1 KST	V	25	18	23	8	17	15	
FONTSI; NONSB KST	V	25	18	25	8	17	15	
FONTSI; NONSB1 KST	V	25	18	23	8	17	15	
FONTSI; NONSBI KST	V	25	18	23	8	17	15	
FONTSI; NONSI KST	V	25	18	21	8	17	15	
FONTSI; NONM KST	V	34	25	27	10	20	18	
FONTSI; NONM1 KST	V	30	21	33	10	20	18	
FONTSI; NONMB KST	V	30	21	30	10	20	18	
FONTSI; NONMB1 KST	V	30	21	30	10	21	18	
FONTSI; NONMI KST	V	30	21	26	10	21	18	
FONTSI; UPT175 KST	V	30	21	27	10	21	18	mixture of NONMI and NONM
FONTSI; NONL KST	V	35	25	33	12	24	21	
FONTSI; NONL1 KST	V	35	25	33	12	24	21	
FONTSI; NONLB KST	V	35	25	34	10	24	21	
FONTSI; NONLB1 KST	V	35	25	34	10	24	21	
FONTSI; NONLBI KST	V	35	25	34	10	24	21	
FONTSI; NONLI KST	V	35	25	32	10	24	21	

000	☐	xxx	040	100	@	@	140	'		
001	↓		041	!	!	101	A	A		
002	α		042	"	"	102	B	B		
003	β		043	#	#	103	C	C		
004	^		044	\$	\$	104	D	D		
005	¬		045	%	%	105	E	E		
006	€		046	&	&	106	F	F		
007	π		047	'	'	107	G	G		
010	λ		050	(	(	110	H	H
011	Υ		051	)	)	111	I	I
012	§		052	*	*	112	J	J		
013	↑		053	+	+	113	K	K		
014	±		054	,	,	114	L	L		
015	⊕		055	-	-	115	M	M		
016	∞		056	.	.	116	N	N		
017	∂		057	/	/	117	O	O		
020	c		060	0	0	120	P	P		
021	⊃		061	1	1	121	Q	Q		
022	∩		062	2	2	122	R	R		
023	U		063	3	3	123	S	S		
024	Υ		064	4	4	124	T	T		
025	∃		065	5	5	125	U	U		
026	⊗		066	6	6	126	V	V		
027	⊕		067	7	7	127	W	W		
030	†		070	8	8	130	X	X		
031	→	—	071	9	9	131	Y	Y		
032	⌘		072	:	:	132	Z	Z		
033	⋄		073	;	;	133	[[
034	≤		074	<	<	134	\	\		
035	≥		075	=	=	135]]		
036	≡		076	>	>	136	^	^		
037	√		077	?	?	137	_	_		
								141	a	a
								142	b	b
								143	c	c
								144	d	d
								145	e	e
								146	f	f
								147	g	g
								150	h	h
								151	i	i
								152	j	j
								153	k	k
								154	l	l
								155	m	m
								156	n	n
								157	o	o
								160	p	p
								161	q	q
								162	r	r
								163	s	s
								164	t	t
								165	u	u
								166	v	v
								167	w	w
								170	x	x
								171	y	y
								172	z	z
								173	{	{
								174	|	|
								175	}	}
								176	~	~
								177	⌘	⌘

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{~

⌘

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIP A B,[440700,.[ASCIZ \FOOBAR\]] ;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP.

;jump unless terminating null

000	␣	␣	040		100	@	@	140	'
001	↓	↓	041	!	101	A	A	141	a
002	α	α	042	"	102	B	B	142	b
003	β	β	043	#	103	C	C	143	c
004	^	^	044	\$	104	D	D	144	d
005	-	-	045	%	105	E	E	145	e
006	€	€	046	&	106	F	F	146	f
007	π	π	047	'	107	G	G	147	g
010	λ	λ	050	(	110	H	H	150	h
011	Υ		051	)	111	I	I	151	i
012	δ		052	*	112	J	J	152	j
013	↑	↑	053	+	113	K	K	153	k
014	±		054	,	114	L	L	154	l
015	⊕		055	-	115	M	M	155	m
016	∞	∞	056	.	116	N	N	156	n
017	∂	∂	057	/	117	O	O	157	o
020	c	c	060	0	120	P	P	160	p
021	⊃	⊃	061	1	121	Q	Q	161	q
022	∩	∩	062	2	122	R	R	162	r
023	U	U	063	3	123	S	S	163	s
024	V	V	064	4	124	T	T	164	t
025	∃	∃	065	5	125	U	U	165	u
026	⊗	⊗	066	6	126	V	V	166	v
027	⊕	⊕	067	7	127	W	W	167	w
030	†	†	070	8	130	X	X	170	x
031	→	→	071	9	131	Y	Y	171	y
032	×	×	072	:	132	Z	Z	172	z
033	⋄	~	073	;	133	[	[	173	{
034	≤	≤	074	<	134	\	\	174	|
035	≥	≥	075	=	135	]	]	175	}
036	≡	•	076	>	136	^	^	176	~
037	v	v	077	?	137	_	_	177	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^-_{|}~
 ␣␣βλ-επλ†∞∂c⊃∩∪∃⊗⊕→#~≤≥v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

SKIP A B,[440700,.[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
  
```


000	␣	040	100	e	e	140	'
001	↓	041	!	!	101	A	A
002	α	042	"	"	102	B	B
003	β	043	#	#	103	C	C
004	^	044	\$	\$	104	D	D
005	¬	045	%	%	105	E	E
006	ε	046	&	&	106	F	F
007	π	047	'	'	107	G	G
010	λ	050	(	(	110	H	H
011	Υ	051	)	)	111	I	I
012	δ	052	*	*	112	J	J
013	↑	053	+	+	113	K	K
014	±	054	,	,	114	L	L
015	⊕	055	-	-	115	M	M
016	∞	056	.	.	116	N	N
017	∂	057	/	/	117	O	O
020	c	060	0	0	120	P	P
021	⊃	061	1	1	121	Q	Q
022	∩	062	2	2	122	R	R
023	∪	063	3	3	123	S	S
024	∨	064	4	4	124	T	T
025	∃	065	5	5	125	U	U
026	⊙	066	6	6	126	V	V
027	↔	067	7	7	127	W	W
030	←	070	8	8	130	X	X
031	→	071	9	9	131	Y	Y
032	≠	072	:	:	132	Z	Z
033	◇	073	;	;	133	[[
034	≤	074	<	<	134	\	\
035	≥	075	=	=	135]]
036	≡	076	>	>	136	^	^
037	∇	077	?	?	137	_	_
							+
							f

ABCDEFGHIJKLMNPOQRSTUVWXYZ

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␣

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;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000	␣	␣	040		100	e	e	140	'
001	↓	↓	041	!	101	A	A	141	a
002	α	α	042	"	102	B	B	142	b
003	β	β	043	#	103	C	C	143	c
004	^	^	044	\$	104	D	D	144	d
005	~	~	045	%	105	E	E	145	e
006	€	€	046	&	106	F	F	146	f
007	π	π	047	'	107	G	G	147	g
010	λ	λ	050	(	110	H	H	150	h
011	Υ	Υ	051	)	111	I	I	151	i
012	⊗	⊗	052	*	112	J	J	152	j
013	↑	↑	053	+	113	K	K	153	k
014	±	±	054	,	114	L	L	154	l
015	⊖	⊖	055	-	115	M	M	155	m
016	∞	∞	056	.	116	N	N	156	n
017	∂	∂	057	/	117	O	O	157	o
020	c	c	060	0	120	P	P	160	p
021	⊃	⊃	061	1	121	Q	Q	161	q
022	∩	∩	062	2	122	R	R	162	r
023	U	U	063	3	123	S	S	163	s
024	V	V	064	4	124	T	T	164	t
025	∃	∃	065	5	125	U	U	165	u
026	⊗	⊗	066	6	126	V	V	166	v
027	↔	↔	067	7	127	W	W	167	w
030	←	←	070	8	130	X	X	170	x
031	→	→	071	9	131	Y	Y	171	y
032	≠	≠	072	:	132	Z	Z	172	z
033	◇	◇	073	;	133	[	[	173	{
034	≤	≤	074	<	134	\	\	174	|
035	≥	≥	075	=	135	]	]	175	}
036	≡	≡	076	>	136	^	^	176	~
037	√	√	077	?	137	_	_	177	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

␣ α β λ € π λ † ω δ c ⊃ ∩ U V ∃ ⊗ ↔ ← → ≠ ◇ ≤ ≥ ≡ √

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```

```
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```

```
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```

```
;APPEND FUNCTION FOR LISP
```

```
SKIP A B,[440700,,[ASCIZ \FOOBAR\]]
```

```
;loop to print chars
```

```
LOOP: .IOT TYOC,A
```

```
ILDB A,B
```

```
JUMPN A,LOOP
```

```
;jump unless terminating null
```

000	█	040	100	@	140	'
001	↓	041	101	A	141	a
002	α	042	102	B	142	b
003	β	043	103	C	143	c
004	∧	044	104	D	144	d
005	¬	045	105	E	145	e
006	ε	046	106	F	146	f
007	π	047	107	G	147	g
010	λ	050	110	H	150	h
011	Υ	051	111	I	151	i
012	δ	052	112	J	152	j
013	↑	053	113	K	153	k
014	±	054	114	L	154	l
015	⊕	055	115	M	155	m
016	∞	056	116	N	156	n
017	∂	057	117	O	157	o
020	c	060	120	P	160	p
021	∩	061	121	Q	161	q
022	n	062	122	R	162	r
023	U	063	123	S	163	s
024	V	064	124	T	164	t
025	∃	065	125	U	165	u
026	⊙	066	126	V	166	v
027	↔	067	127	W	167	w
030	←	070	130	X	170	x
031	→	071	131	Y	171	y
032	≠	072	132	Z	172	z
033	◇	073	133	[173	{
034	≤	074	134	\	174	
035	≥	075	135]	175	}
036	≡	076	136	^	176	~
037	√	077	137	_	177	+

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000	█	040	100	@	@	140	'
001	↓	041	!	!	101	A	A
002	α	042	"	"	102	B	B
003	β	043	#	#	103	C	C
004	∧	044	\$	\$	104	D	D
005	¬	045	%	%	105	E	E
006	ε	046	&	&	106	F	F
007	π	047	'	'	107	G	G
010	λ	050	(	(	110	H	H
011	Υ	051	)	)	111	I	I
012	δ	052	*	*	112	J	J
013	↑	053	+	+	113	K	K
014	±	054	,	,	114	L	L
015	⊕	055	-	-	115	M	M
016	∞	056	.	.	116	N	N
017	∂	057	/	/	117	O	O
020	c	060	0	0	120	P	P
021	⊃	061	1	1	121	Q	Q
022	∩	062	2	2	122	R	R
023	∪	063	3	3	123	S	S
024	∨	064	4	4	124	T	T
025	∃	065	5	5	125	U	U
026	⊗	066	6	6	126	V	V
027	↔	067	7	7	127	W	W
030	←	070	8	8	130	X	X
031	→	071	9	9	131	Y	Y
032	≠	072	:	:	132	Z	Z
033	◇	073	;	;	133	[[
034	≤	074	<	<	134	\	\
035	≥	075	=	=	135]]
036	≡	076	>	>	136	^	^
037	∨	077	?	?	137	_	_
							~
							f

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000	■	■	040		100	@	@	140	'	'	
001	↓	↓	041	!	!	101	A	A	141	a	a
002	α	α	042	"	"	102	B	B	142	b	b
003	β	β	043	#	#	103	C	C	143	c	c
004	^	^	044	\$	\$	104	D	D	144	d	d
005	¬	¬	045	%	%	105	E	E	145	e	e
006	ε	ε	046	&	&	106	F	F	146	f	f
007	π	π	047	'	'	107	G	G	147	g	g
010	λ	λ	050	(	(	110	H	H	150	h	h
011	Υ	Υ	051	)	)	111	I	I	151	i	i
012	δ	δ	052	*	*	112	J	J	152	j	j
013	↑	↑	053	+	+	113	K	K	153	k	k
014	±	±	054	,	,	114	L	L	154	l	l
015	⊕	⊕	055	-	-	115	M	M	155	m	m
016	∞	∞	056	.	.	116	N	N	156	n	n
017	∂	∂	057	/	/	117	O	O	157	o	o
020	c	c	060	0	0	120	P	P	160	p	p
021	⊃	⊃	061	1	1	121	Q	Q	161	q	q
022	∩	∩	062	2	2	122	R	R	162	r	r
023	U	U	063	3	3	123	S	S	163	s	s
024	V	V	064	4	4	124	T	T	164	t	t
025	∃	∃	065	5	5	125	U	U	165	u	u
026	⊖	⊖	066	6	6	126	V	V	166	v	v
027	↔	↔	067	7	7	127	W	W	167	w	w
030	←	←	070	8	8	130	X	X	170	x	x
031	→	→	071	9	9	131	Y	Y	171	y	y
032	≠	≠	072	:	:	132	Z	Z	172	z	z
033	◇	◇	073	;	;	133	[	[	173	{	{
034	≤	≤	074	<	<	134	\	\	174	|	|
035	≥	≥	075	=	=	135	]	]	175	}	}
036	≡	≡	076	>	>	136	^	^	176	~	~
037	∨	∨	077	?	?	137	_	_	177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789

!"#\$%&'()*+,-./:;<=>?[\]_`{|}~
 ■ ↓αβ^¬ε πλΥδ↑±∞∂c⊃∩UV]↔←→≠◇≤≥≡∨

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```

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```

000	␣	040	.	100	@	@	140	'	
001	↓	041	!	101	A	A	141	a	a
002	α	042	"	102	B	B	142	b	b
003	β	043	#	103	C	C	143	c	c
004	^	044	\$	104	D	D	144	d	d
005	~	045	%	105	E	E	145	e	e
006	€	046	&	106	F	F	146	f	f
007	π	047	'	107	G	G	147	g	g
010	λ	050	(	110	H	H	150	h	h
011	Υ	051	)	111	I	I	151	i	i
012	δ	052	*	112	J	J	152	j	j
013	↑	053	+	113	K	K	153	k	k
014	±	054	,	114	L	L	154	l	l
015	⊕	055	-	115	M	M	155	m	m
016	∞	056	.	116	N	N	156	n	n
017	∂	057	/	117	O	O	157	o	o
020	¢	060	0	120	P	P	160	p	p
021	▷	061	1	121	Q	Q	161	q	q
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023	∪	063	3	123	S	S	163	s	s
024	∇	064	4	124	T	T	164	t	t
025	∃	065	5	125	U	U	165	u	u
026	⊗	066	6	126	V	V	166	v	v
027	↔	067	7	127	W	W	167	w	w
030	←	070	8	130	X	X	170	x	x
031	→	071	9	131	Y	Y	171	y	y
032	*	072	:	132	Z	Z	172	z	z
033	♦	073	;	133	[	[	173	{	{
034	≤	074	<	134	\	\	174	|	|
035	≥	075	=	135]]	175	}	}
036	≡	076	>	136	^	^	176	~	~
037	∇	077	?	137	_	_	177	␣	␣

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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!"#\$%&'()*+,-./:;<=>?[\]^-_{|}~

␣

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```

000 █	040	100 e	@	140 '
001 ↓	041 !	101 A	A	141 a
002 α	042 "	102 B	B	142 b
003 β	043 #	103 C	C	143 c
004 ^	044 \$	104 D	D	144 d
005 ~	045 %	105 E	E	145 e
006 €	046 &	106 F	F	146 f
007 π	047 '	107 G	G	147 g
010 λ	050 (	110 H	H	150 h
011 Υ	051)	111 I	I	151 i
012 δ	052 *	112 J	J	152 j
013 ↑	053 +	113 K	K	153 k
014 ±	054 ,	114 L	L	154 l
015 ⊕	055 -	115 M	M	155 m
016 ∞	056 .	116 N	N	156 n
017 ∂	057 /	117 O	O	157 o
020 c	060 0	120 P	P	160 p
021 ɔ	061 1	121 Q	Q	161 q
022 η	062 2	122 R	R	162 r
023 U	063 3	123 S	S	163 s
024 Υ	064 4	124 T	T	164 t
025 ∃	065 5	125 U	U	165 u
026 ⊙	066 6	126 V	V	166 v
027 ↔	067 7	127 W	W	167 w
030 ←	070 8	130 X	X	170 x
031 →	071 9	131 Y	Y	171 y
032 ≠	072 :	132 Z	Z	172 z
033 ◊	073 ;	133 [[173 {
034 ≤	074 <	134 \	\	174
035 ≥	075 =	135]]	175 }
036 ≡	076 >	136 ^	^	176 ~
037 v	077 ?	137 _	_	177 f

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000	␣	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	∧	044	\$	104	D	144	d
005	¬	045	%	105	E	145	e
006	€	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	⊃	061	1	121	Q	161	q
022	n	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[173	{
034	≤	074	<	134	\	174	
035	≥	075	=	135]	175	}
036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	⌘

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```


000 █	040	100 @	140 '
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 -	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 ς	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ⊃	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 u	063 3 3	123 S S	163 s s
024 √	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ↔	067 7 7	127 W W	167 w w
030 ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤	074 < <	134 \ \	174 | |
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ↑	176 ~ ~
037 √	077 ? ?	137 _ ←	177 ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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█

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

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000	␣	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	-	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	σ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	⊃	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[173	{
034	≤	074	<	134	\	174	
035	≥	075	=	135]	175	}
036	≡	076	>	136	^	176	~
037	∨	077	?	137	_	177	f

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000	█	040	100	@	140	'
001	↓	041	!	!	141	a a
002	α	042	"	"	142	b b
003	β	043	#	#	143	c c
004	^	044	\$	\$	144	d d
005	-	045	%	%	145	e e
006	€	046	&	&	146	f f
007	π	047	'	'	147	g g
010	λ	050	(	(	150	h h
011	Υ	051	)	)	151	i i
012	δ	052	*	*	152	j j
013	↑	053	+	+	153	k k
014	±	054	,	,	154	l l
015	⊕	055	-	-	155	m m
016	∞	056	.	.	156	n n
017	∂	057	/	/	157	o o
020	c	060	0	0	160	p p
021	▷	061	1	1	161	q q
022	∩	062	2	2	162	r r
023	∪	063	3	3	163	s s
024	∨	064	4	4	164	t t
025	∃	065	5	5	165	u u
026	⊙	066	6	6	166	v v
027	↔	067	7	7	167	w w
030	←	070	8	8	170	x x
031	→	071	9	9	171	y y
032	≠	072	:	:	172	z z
033	⋄	073	;	;	173	{ {
034	≤	074	<	<	174	
035	≥	075	=	=	175	} }
036	≡	076	>	>	176	~ ~
037	∇	077	?	?	177	f

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000	█	040		100	Ⓔ	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
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017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	▷	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	∪	063	3	123	S	163	s
024	∨	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[173	{
034	≤	074	<	134	\	174	
035	≥	075	=	135]	175	}
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000 █	040	100 @	@	140 '
001 ↓	041 !	101 A	A	141 a a
002 α	042 "	102 B	B	142 b b
003 β	043 #	103 C	C	143 c c
004 ^	044 \$	104 D	D	144 d d
005 -	045 %	105 E	E	145 e e
006 €	046 &	106 F	F	146 f f
007 π	047 '	107 G	G	147 g g
010 λ	050 (	110 H	H	150 h h
011 Υ	051)	111 I	I	151 i i
012 δ	052 *	112 J	J	152 j j
013 ↑	053 +	113 K	K	153 k k
014 ±	054 ,	114 L	L	154 l l
015 ⊕	055 -	115 M	M	155 m m
016 ∞	056 .	116 N	N	156 n n
017 ∂	057 /	117 O	O	157 o o
020 c	060 0	120 P	P	160 p p
021 ∃	061 1	121 Q	Q	161 q q
022 n	062 2	122 R	R	162 r r
023 u	063 3	123 S	S	163 s s
024 V	064 4	124 T	T	164 t t
025 ∃	065 5	125 U	U	165 u u
026 ⊙	066 6	126 V	V	166 v v
027 ⇨	067 7	127 W	W	167 w w
030 ←	070 8	130 X	X	170 x x
031 →	071 9	131 Y	Y	171 y y
032 ✕	072 :	132 Z	Z	172 z z
033 ♦	073 ;	133 [[173 { {
034 ≤	074 <	134 \	\	174
035 ≥	075 =	135]]	175 } }
036 ≡	076 >	136 ^	^	176 ~ ~
037 v	077 ?	137 _	_	177 f

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000	␣	040	100	@	140	'
001	↓	041	!	!	141	a a
002	α	042	"	"	142	b b
003	β	043	#	#	143	c c
004	^	044	\$	\$	144	d d
005	~	045	%	%	145	e e
006	€	046	&	&	146	f f
007	π	047	'	'	147	g g
010	λ	050	(	(	150	h h
011	Υ	051	)	)	151	i i
012	δ	052	*	*	152	j j
013	↑	053	+	+	153	k k
014	±	054	,	,	154	l l
015	⊖	055	-	-	155	m m
016	∞	056	.	.	156	n n
017	∂	057	/	/	157	o o
020	c	060	0	0	160	p p
021	⊃	061	1	1	161	q q
022	n	062	2	2	162	r r
023	U	063	3	3	163	s s
024	V	064	4	4	164	t t
025	∃	065	5	5	165	u u
026	⊙	066	6	6	166	v v
027	↔	067	7	7	167	w w
030	←	070	8	8	170	x x
031	→	071	9	9	171	y y
032	≠	072	:	:	172	z z
033	♦	073	;	;	173	{ {
034	≤	074	<	<	174	
035	≥	075	=	=	175	} }
036	≡	076	>	>	176	~ ~
037	v	077	?	?	177	∫

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English Alphabets

Family: Times

When the London Times underwent a complete typographic revival in 1931, it commissioned designer Stanley Morrison to create what has since become one of the most popular typefaces of all time. Time Roman is basically an old style face, with emphasis on function. Morrison's chief design goal was to make a newspaper font, one which would allow as much material to be placed on a page without sacrificing legibility. He did this by making the lower case large on its body, giving them short ascenders and descenders. An 11-point Times Roman character looks about the same size as another 12-point Roman face, but lines can be more tightly set. One interesting feature of the original Times Bold series is that each character was the same width as its Roman counterpart; the two could be interchanged without having to rejustify the lines. This family is a good bread-and-butter face, and can handle both text and display work equally well.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; TIMES 8ROM	V	22	16	24	9	15	10	
FONTS; TIMES 8ITAL	V	22	17	26	14	15	10	
FONTS; TIMES 9ROM	V	25	19	27	13	18	12	
FONTS; TIMES 10ROM	V	28	21	30	9	19	13	
FONTS; TIMES 10BOLD	V	28	21	30	16	19	13	
FONTS; TIMES 10ITAL	V	28	21	32	7	20	13	
FONTS; TIMES 11ROM	V	31	23	33	11	21	14	
FONTS; TIMES 12ROM	V	33	25	35	13	23	15	
FONTS; TIMES 12SAIL	V	33	25	33	15	23	15	with SAIL characters
FONTS; TIMES 12BOLD	V	33	25	36	14	23	16	
FONTS; TIMES 12ITAL	V	33	25	35	12	23	16	
FONTS; TIMES 12SPEC	V	33	25	37	11	17	--	includes small caps
FONTS; TIMES 14ROM	V	39	31	137	17	27	18	
FONTS; 14TIMS ROMAN	V	39	31	137	17	27	18	special characters: beware
FONTS; TIMES 14BOLD	V	39	31	39	12	27	18	
FONTS; TIMES 14ITAL	V	39	31	37	9	27	18	
FONTS; TIMES 18ROM	V	50	38	54	17	34	23	
FONTS; TIMES 18ITAL	V	50	38	54	25	34	23	
FONTS; TIMES 24ROM	V	67	50	69	28	46	31	
FONTS; TIMES 24ITAL	V	67	50	74	28	46	31	

000 █	040	100 @	140 ' ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 -	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' ' .	107 G	147 g
010 λ	050 (110 H	150 h
011 Y	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ∩	061 1	121 Q	161 q
022 ∩	062 2	122 R	162 r
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024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
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SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000	█	040		100	e @	140	' '
001	↓	041	! !	101	A A	141	a a
002	α —	042	" "	102	B B	142	b b
003	β -	043	# #	103	C C	143	c c
004	^	044	\$ \$	104	D D	144	d d
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013	↑	053	+ +	113	K K	153	k k
014	±	054	, ,	114	L L	154	l l
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016	∞ †	056	. .	116	N N	156	n n
017	∂ ‡	057	/ /	117	O O	157	o o
020	c §	060	0 0	120	P P	160	p p
021	▷ §	061	1 1	121	Q Q	161	q q
022	∩ ¼	062	2 2	122	R R	162	r r
023	∪ ½	063	3 3	123	S S	163	s s
024	∩ ¾	064	4 4	124	T T	164	t t
025	∩ ff	065	5 5	125	U U	165	u u
026	⊙ ff	066	6 6	126	V V	166	v v
027	⊕ ff	067	7 7	127	W W	167	w w
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031	→ ff	071	9 9	131	Y Y	171	y y
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037	∇	077	? ?	137	_ _	177	f f

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000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
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023	∫	063	3	123	S	163	s
024	∫	064	4	124	T	164	t
025	∫	065	5	125	U	165	u
026	∫	066	6	126	V	166	v
027	∫	067	7	127	W	167	w
030	∫	070	8	130	X	170	x
031	∫	071	9	131	Y	171	y
032	∫	072	:	132	Z	172	z
033	∫	073	;	133	[173	{
034	∫	074	<	134	\	174	
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004	^	044	\$ \$	104	D D	144	d d
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010	λ	050	((110	H H	150	h h
011	Υ	051))	111	I I	151	i i
012	§	052	* *	112	J J	152	j j
013	↑	053	+ +	113	K K	153	k k
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015	⊕	055	- -	115	M M	155	m m
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017	∂ ††	057	/ /	117	O O	157	o o
020	∂ ††	060	0 0	120	P P	160	p p
021	∂ ††	061	1 1	121	Q Q	161	q q
022	∂ ††	062	2 2	122	R R	162	r r
023	∂ ††	063	3 3	123	S S	163	s s
024	∂ ††	064	4 4	124	T T	164	t t
025	∂ ††	065	5 5	125	U U	165	u u
026	∂ ††	066	6 6	126	V V	166	v v
027	∂ ††	067	7 7	127	W W	167	w w
030	∂ ††	070	8 8	130	X X	170	x x
031	∂ ††	071	9 9	131	Y Y	171	y y
032	∂ ††	072	: :	132	Z Z	172	z z
033	∂ ††	073	; ;	133	[[173	{ {
034	∂ ††	074	< <	134	\ \	174	
035	∂ ††	075	= =	135]]	175	} }
036	∂ ††	076	> >	136	^ ^	176	~ ~
037	∂ ††	077	? ?	137	_ _	177	ƒ ƒ

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 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))
  
```

```

LOOP:   SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```

000	█	040		100	@	140	'	'
001	↓	041	!	101	A	141	a	a
002	α	042	"	102	B	142	b	b
003	β	043	#	103	C	143	c	c
004	^	044	\$	104	D	144	d	d
005	~	045	%	105	E	145	e	e
006	ε	046	&	106	F	146	f	f
007	π	047	'	107	G	147	g	g
010	λ	050	(	110	H	150	h	h
011	Υ	051	)	111	I	151	i	i
012	δ	052	*	112	J	152	j	j
013	↑	053	+	113	K	153	k	k
014	±	054	,	114	L	154	l	l
015	⊕	055	-	115	M	155	m	m
016	∞	056	.	116	N	156	n	n
017	∂	057	/	117	O	157	o	o
020	c	060	0	120	P	160	p	p
021	∞	061	1	121	Q	161	q	q
022	n	062	2	122	R	162	r	r
023	u	063	3	123	S	163	s	s
024	v	064	4	124	T	164	t	t
025	∃	065	5	125	U	165	u	u
026	⊗	066	6	126	V	166	v	v
027	↔	067	7	127	W	167	w	w
030	←	070	8	130	X	170	x	x
031	→	071	9	131	Y	171	y	y
032	≠	072	:	132	Z	172	z	z
033	◇	073	;	133	[	173	{	{
034	≤	074	<	134	\	174	|	|
035	≥	075	=	135	]	175	}	}
036	≡	076	>	136	^	176	~	~
037	∇	077	?	137	_	177	⌋	⌋

ABCDEFGHIJKLMN~~OP~~QRSTUVWXYZ

abcdefghijklm~~nop~~qrstuvwxyz

0123456789

! " # \$ % & ' () * + , - . / : ; < = > ? [\] ^ _ { | } ~

' — † ‡ § ¼ ½ ¾ ff fi fl ffi ≠ ≤ ≥

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	~	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	∞	061	1	121	Q	161	q
022	n	062	2	122	R	162	r
023	u	063	3	123	S	163	s
024	v	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	⊕	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	♦	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	∇	077	?	137	_	177	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 '—†‡§¼½¾ffff≠≤>

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```

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```

```

LOOP:   SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
  
```

000	█	040		100	e	@	140	'	'
001	↓	041	!	101	A	A	141	a	a
002	α	042	"	102	B	B	142	b	b
003	β	043	#	103	C	C	143	c	c
004	^	044	\$	104	D	D	144	d	d
005	-	045	%	105	E	E	145	e	e
006	ε	046	&	106	F	F	146	f	f
007	π	047	'	107	G	G	147	g	g
010	λ	050	(	110	H	H	150	h	h
011	Υ	051	)	111	I	I	151	i	i
012	δ	052	*	112	J	J	152	j	j
013	↑	053	+	113	K	K	153	k	k
014	±	054	,	114	L	L	154	l	l
015	⊕	055	-	115	M	M	155	m	m
016	∞	056	.	116	N	N	156	n	n
017	∂	057	/	117	O	O	157	o	o
020	c	060	0	120	P	P	160	p	p
021	⊃	061	1	121	Q	Q	161	q	q
022	∩	062	2	122	R	R	162	r	r
023	U	063	3	123	S	S	163	s	s
024	V	064	4	124	T	T	164	t	t
025	E	065	5	125	U	U	165	u	u
026	⊗	066	6	126	V	V	166	v	v
027	↔	067	7	127	W	W	167	w	w
030	←	070	8	130	X	X	170	x	x
031	→	071	9	131	Y	Y	171	y	y
032	×	072	:	132	Z	Z	172	z	z
033	◇	073	;	133	[	[	173	{	{
034	≤	074	<	134	\	\	174	|	|
035	≥	075	=	135	]	]	175	}	}
036	≡	076	>	136	^	^	176	~	~
037	v	077	?	137	_	_	177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\] ^ _ { } ~

↓αβγδϵπλ↑∞∂c⊃∩U∪V⊗↔←→#◇≤≥≡v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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 Of cabbages and kings,
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 And whether pigs have wings."

```
(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
```

```
SKIP A B,[440700],[ASCIZ \FOOBAR\] ;loop to print chars
LOOP: .IOT TYOC,A
```

000 █	040	100 e @	140 ' '
001 ↓ '	041 ! !	101 A A	141 a a
002 α —	042 " "	102 B B	142 b b
003 β -	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ †	056 . .	116 N N	156 n n
017 ∂ † †	057 / /	117 O O	157 o o
020 c † †	060 0 0	120 P P	160 p p
021 ∽ §	061 1 1	121 Q Q	161 q q
022 ∅ ¼	062 2 2	122 R R	162 r r
023 ∅ ½	063 3 3	123 S S	163 s s
024 ∅ ¾	064 4 4	124 T T	164 t t
025 ∅ ff	065 5 5	125 U U	165 u u
026 ∅ ffi	066 6 6	126 V V	166 v v
027 ∅ ffi	067 7 7	127 W W	167 w w
030 ∅ ffi	070 8 8	130 X X	170 x x
031 ∅ ffi	071 9 9	131 Y Y	171 y y
032 * ≠	072 : :	132 Z Z	172 z z
033 ∅	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 j j

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~
 '—†‡§¼½¾ffffi≠<>

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 (COND ((NULL X) Y)
 (T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIP A B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
 LOOP: .IOT TYOC,A

000 ■		040		100 e @	140 ' '
001 ↓	'	041 ! !		101 A A	141 a a
002 α —		042 " "		102 B B	142 b b
003 β -		043 # #		103 C C	143 c c
004 ^		044 \$ \$		104 D D	144 d d
005 -		045 % %		105 E E	145 e e
006 €		046 & &		106 F F	146 f f
007 π		047 ' '		107 G G	147 g g
010 λ		050 ( (		110 H H	150 h h
011 γ		051))		111 I I	151 i i
012 δ		052 * *		112 J J	152 j j
013 ↑		053 + +		113 K K	153 k k
014 ±		054 , ,		114 L L	154 l l
015 ©		055 - -		115 M M	155 m m
016 ∞ †		056 . .		116 N N	156 n n
017 ∂ †		057 / /		117 O O	157 o o
020 c †		060 0 0		120 P P	160 p p
021 ∽ †		061 1 1		121 Q Q	161 q q
022 n †		062 2 2		122 R R	162 r r
023 U †		063 3 3		123 S S	163 s s
024 V †		064 4 4		124 T T	164 t t
025 ∃ †		065 5 5		125 U U	165 u u
026 © †		066 6 6		126 V V	166 v v
027 + †		067 7 7		127 W W	167 w w
030 ← †		070 8 8		130 X X	170 x x
031 → †		071 9 9		131 Y Y	171 y y
032 ≠ †		072 : :		132 Z Z	172 z z
033 ♦		073 ; ;		133 [ [	173 { {
034 ≤		074 < <		134 \ \	174 | |
035 ≥		075 = =		135]]	175 } }
036 ≡		076 > >		136 ^ ^	176 ~ ~
037 √		077 ? ?		137 - -	177 _ _

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

—†‡§¼½¾ffflfffl≠≤≥

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Of cabbages and kings,

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And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIPA B,[440700],[ASCIZ \FOOBAR\]] :loop to print chars

LOOP: .IOT TYOC,A

000	█	040	100	e	140	'	'				
001	↓	041	!	101	A	A	141	a	A		
002	α	—	042	"	102	B	B	142	b	B	
003	β	-	043	#	103	C	C	143	c	C	
004	^		044	\$	\$	104	D	D	144	d	D
005	~		045	%		105	E	E	145	e	E
006	ε		046	&	&	106	F	F	146	f	F
007	π		047	'	'	107	G	G	147	g	G
010	λ		050	(		110	H	H	150	h	H
011	Υ		051	)		111	I	I	151	i	I
012	δ		052	*		112	J	J	152	j	J
013	↑		053	+		113	K	K	153	k	K
014	±		054	,	,	114	L	L	154	l	L
015	⊕		055	-	-	115	M	M	155	m	M
016	∞		056	.	.	116	N	N	156	n	N
017	∂		057	/		117	O	O	157	o	O
020	c		060	0	o	120	P	P	160	p	P
021	▷		061	1	l	121	Q	Q	161	q	Q
022	∩		062	2	2	122	R	R	162	r	R
023	∪		063	3	3	123	S	S	163	s	S
024	∨		064	4	4	124	T	T	164	t	T
025	∃		065	5	5	125	U	U	165	u	U
026	⊗		066	6	6	126	V	V	166	v	V
027	↔		067	7	7	127	W	W	167	w	W
030	←		070	8	8	130	X	X	170	x	X
031	→		071	9	9	131	Y	Y	171	y	Y
032	≠		072	:	:	132	Z	Z	172	z	Z
033	◇		073	:	;	133	[		173	{	
034	≤		074	<		134	\		174	|	
035	≥		075	=		135	]		175	}	
036	≡		076	>		136	^		176	~	
037	∇		077	?		137	_		177	f	

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
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 \$&',-,:;
 —

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

THE TIME HAS COME, THE WALRUS SAID,
 TO TALK OF MANY THINGS;
 OF SHOES, AND SHIPS, AND SEALING WAX,
 OF CABBAGES AND KINGS,
 AND WHY THE SEA IS BOILING HOT,
 AND WHETHER PIGS HAVE WINGS.

DEFUN APPEND X Y ;APPEND FUNCTION FOR LISP
 COND NULL X Y
 T CONS CAR X APPEND CDR X Y

SKIP A B,440700,,ASCIZ FOOBAR ;LOOP TO PRINT CHARS
 LOOP: .IOT TYOC,A

000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	-	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	γ	051	)	111	I	151	i
012	ε	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	⊃	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	∪	063	3	123	S	163	s
024	∨	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	∇	077	?	137	_	177	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]_`{|}~

↓αβγλ-επ↑∞∂c∩∪∨∃⊙↔←→≠◇≤≥≡∇

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000	█	040		100	e	@	140	'	'
001	↓	041	!	101	A	A	141	a	a
002	α	042	"	102	B	B	142	b	b
003	β	043	#	103	C	C	143	c	c
004	^	044	\$	104	D	D	144	d	d
005	-	045	%	105	E	E	145	e	e
006	ε	046	&	106	F	F	146	f	f
007	π	047	'	107	G	G	147	g	g
010	λ	050	(	110	H	H	150	h	h
011	γ	051	)	111	I	I	151	i	i
012	δ	052	*	112	J	J	152	j	j
013	↑	053	+	113	K	K	153	k	k
014	±	054	,	114	L	L	154	l	l
015	⊕	055	-	115	M	M	155	m	m
016	∞	056	.	116	N	N	156	n	n
017	∂	057	/	117	O	O	157	o	o
020	c	060	0	120	P	P	160	p	p
021	⊃	061	1	121	Q	Q	161	q	q
022	∩	062	2	122	R	R	162	r	r
023	∪	063	3	123	S	S	163	s	s
024	∨	064	4	124	T	T	164	t	t
025	∃	065	5	125	U	U	165	u	u
026	⊗	066	6	126	V	V	166	v	v
027	↔	067	7	127	W	W	167	w	w
030	←	070	8	130	X	X	170	x	x
031	→	071	9	131	Y	Y	171	y	y
032	≠	072	:	132	Z	Z	172	z	z
033	◇	073	;	133	[	[	173	{	{
034	≤	074	<	134	\	\	174	|	|
035	≥	075	=	135]]	175	}	}
036	≡	076	>	136	^	^	176	~	~
037	∇	077	?	137	_	_	177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

↓αβλ-επλγδ↑∞∂c∩∪∨∃⊗ ↔ ↔ ≠ ◇ ≤ ≥ ≡ ∇

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000 █	040	100 @	140 ' '
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 -	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∃	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 ∨	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊕ ff	066 6 6	126 V V	166 v v
027 ⊕ fi	067 7 7	127 W W	167 w w
030 ← fl	070 8 8	130 X X	170 x x
031 → ffi	071 9 9	131 Y Y	171 y y
032 ≠ ffi	072 : :	132 Z Z	172 z z
033 ∠	073 ; ;	133 [ [	173 { {
034 ≤	074 < <	134 \ \	174 | |
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

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THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

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000	█	040		100	@	140	'	'
001	↓	041	!	101	A	141	a	a
002	α	042	"	102	B	142	b	b
003	β	043	#	103	C	143	c	c
004	∧	044	\$	104	D	144	d	d
005	¬	045	%	105	E	145	e	e
006	€	046	&	106	F	146	f	f
007	π	047	'	107	G	147	g	g
010	λ	050	(	110	H	150	h	h
011	Υ	051	)	111	I	151	i	i
012	δ	052	*	112	J	152	j	j
013	↑	053	+	113	K	153	k	k
014	±	054	,	114	L	154	l	l
015	⊕	055	-	115	M	155	m	m
016	∞	056	.	116	N	156	n	n
017	∂	057	/	117	O	157	o	o
020	c	060	0	120	P	160	p	p
021	▷	061	1	121	Q	161	q	q
022	∩	062	2	122	R	162	r	r
023	∪	063	3	123	S	163	s	s
024	∨	064	4	124	T	164	t	t
025	∃	065	5	125	U	165	u	u
026	⊗	066	6	126	V	166	v	v
027	↔	067	7	127	W	167	w	w
030	←	070	8	130	X	170	x	x
031	→	071	9	131	Y	171	y	y
032	≠	072	:	132	Z	172	z	z
033	◇	073	;	133	[	173	{	{
034	≤	074	<	134	\	174	|	|
035	≥	075	=	135	]	175	}	}
036	≡	076	>	136	^	176	~	~
037	∇	077	?	137	_	177	f	f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"\$%&'()*+,-./:;<=>?[\]^_{}~

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

000 █	040	100 e @	140 ' '
001 ↓ '	041 ! !	101 A A	141 a a
002 α —	042 " "	102 B B	142 b b
003 β -	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 -	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 s	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 e	055 - -	115 M M	155 m m
016 ∞ †	056 . .	116 N N	156 n n
017 ð ‡	057 / /	117 O O	157 o o
020 c ¶	060 0 0	120 P P	160 p p
021 > §	061 1 1	121 Q Q	161 q q
022 n ¼	062 2 2	122 R R	162 r r
023 u ½	063 3 3	123 S S	163 s s
024 v ¾	064 4 4	124 T T	164 t t
025 z ff	065 5 5	125 U U	165 u u
026 o fi	066 6 6	126 V V	166 v v
027 + fl	067 7 7	127 W W	167 w w
030 ← ffi	070 8 8	130 X X	170 x x
031 → ffl	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 '—†‡¶§¼½¾ffflfflffi≠≤≥

000	█	040		100	e @	140	' '
001	↓	041	!	101	A A	141	a a
002	α —	042	" "	102	B B	142	b b
003	β -	043	# #	103	C C	143	c c
004	^	044	\$ \$	104	D D	144	d d
005	-	045	% %	105	E E	145	e e
006	ε	046	& &	106	F F	146	f f
007	π	047	' '	107	G G	147	g g
010	λ	050	( (	110	H H	150	h h
011	γ	051	) )	111	I I	151	i i
012	δ	052	* *	112	J J	152	j j
013	↑	053	+ +	113	K K	153	k k
014	±	054	, ,	114	L L	154	l l
015	⊕	055	- -	115	M M	155	m m
016	∞ †	056	. .	116	N N	156	n n
017	∂ ‡	057	/ /	117	O O	157	o o
020	c ¶	060	0 0	120	P P	160	p p
021	▷ §	061	1 1	121	Q Q	161	q q
022	∩ ¼	062	2 2	122	R R	162	r r
023	∪ ½	063	3 3	123	S S	163	s s
024	∩ ¾	064	4 4	124	T T	164	t t
025	∃ ff	065	5 5	125	U U	165	u u
026	⊗ fi	066	6 6	126	V V	166	v v
027	↔ fl	067	7 7	127	W W	167	w w
030	← ffi	070	8 8	130	X X	170	x x
031	→ ffl	071	9 9	131	Y Y	171	y y
032	× ≠	072	: :	132	Z Z	172	z z
033	◇	073	; ;	133	[ [	173	{ {
034	≤ ≤	074	< <	134	\ \	174	| |
035	≥ ≥	075	= =	135	] ]	175	} }
036	≡	076	> >	136	^ ^	176	~ ~
037	∨	077	? ?	137	_ _	177	ƒ ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

'—-†‡§¼½¾fffi fl ffi ffl ≠ ≤ ≥

000 ■	040	100 e @	140 ' '
001 ↓ '	041 ! !	101 A A	141 a a
002 α —	042 " "	102 B B	142 b b
003 β —	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 γ	051))	111 I I	151 i i
012 s	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ †	056 . .	116 N N	156 n n
017 ∂ ‡	057 / /	117 O O	157 o o
020 c ¶	060 0 0	120 P P	160 p p
021 ∽ §	061 1 1	121 Q Q	161 q q
022 n ¼	062 2 2	122 R R	162 r r
023 u ½	063 3 3	123 S S	163 s s
024 v ¾	064 4 4	124 T T	164 t t
025 ∃ ff	065 5 5	125 U U	165 u u
026 ⊙ fi	066 6 6	126 V V	166 v v
027 ↔ fl	067 7 7	127 W W	167 w w
030 ← ffi	070 8 8	130 X X	170 x x
031 → ffi	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z

033 ♦	073 ; ;	133 [ [	173 { }
034 ≤ ≤	074 < <	134 \ \	174 | }
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~ /

'— — † ‡ ¶ § ¼ ½ ¾ f f f f f f f f ≠ ≤ ≥

000 ■	040	100 @	140 ‘
001 ↓ ‘	041 !	101 A	141 a
002 α —	042 " "	102 B	142 b
003 β —	043 # #	103 C	143 c
004 ^	044 \$ \$	104 D	144 d
005 -	045 % %	105 E	145 e
006 €	046 & &	106 F	146 f
007 π	047 ‘ ’	107 G	147 g
010 λ	050 ( (	110 H	150 h
011 γ	051))	111 I	151 i
012 δ	052 * *	112 J	152 j
013 ↑	053 + +	113 K	153 k
014 ±	054 , ,	114 L	154 l
015 ⊕	055 - -	115 M	155 m
016 ∞ †	056 . .	116 N	156 n
017 ∂ ‡	057 / /	117 O	157 o
020 c ¶	060 0	120 P	160 p
021 ∽ §	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 u	063 3	123 S	163 s
024 v	064 4	124 T	164 t
025 ∃ ff	065 5	125 U	165 u
026 ⊙ fi	066 6	126 V	166 v
027 ⇨ fl	067 7	127 W	167 w
030 ← ffi	070 8	130 X	170 x
031 → ffi	071 9	131 Y	171 y
032 ≠ ≠	072 :	132 Z	172 z

033 ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨	077 ? ?	137 _ _	177 ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

'— — † ‡ § ¶ ꝑ Ꝓ ꝓ Ꝕ ꝕ Ꝗ ꝗ Ꝙ ꝙ Ꝛ ꝛ Ꝝ ꝝ Ꝟ ꝟ Ꝡ ꝡ Ꝣ ꝣ Ꝥ ꝥ Ꝧ ꝧ Ꝩ ꝩ Ꝫ ꝫ Ꝭ ꝭ Ꝯ ꝯ ꝰ ꝱ ꝲ ꝳ ꝴ ꝵ ꝶ ꝷ ꝸ Ꝺ ꝺ Ꝼ ꝼ Ᵹ Ꝿ ꝿ

English Alphabets

Family: Typewriter

Any fixed width font whose design was inspired by ordinary typewriter faces is in this family. The Courier would have been an excellent face for the XGP if it had been digitized properly. It is vertically compressed to 75 percent of what it should be.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; 20FCOR KST	V	20	16	16	16	14	13	IBM Selectric Courier
FONTS; 25FR KST	F	25	20	17	17	20	18	IBM Selectric Delegate
FONTS; 25FR1 KST	V	25	20	17	16	20	17	close to IBM Prestige Elite
FONTS; 25FR2 KST	F	25	20	16	16	20	17	boxed control characters
FONTS; 25FR3 KST	V	25	20	17	16	20	17	25FR1 with SAIL characters
FONTS; 25FR11 KST	V	25	20	17	16	20	17	italic for 25FR1
FONTS; 32FRB KST	F	32	24	19	19	23	20	Pica pitch

000 █	040	100 @ @	140 ' a
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Y	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ∩	061 1 1	121 Q Q	161 q q
022 ∩	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊙	066 6 6	126 V V	166 v v
027 ⇨	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ◇	073 ; ;	133 [ [	173 {
034 ≤	074 < <	134 \ \	174 |
035 ≥	075 = =	135]]	175 }
036 ≡	076 > >	136 ^ ^	176 ~
037 ∨	077 ? ?	137 _ _	177 f

```

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#$%&'()*+,-./:;<=>?[\]^_
↑←

```

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

SKIPIA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
LOOP: .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null

```

000 █	040	100 @ @	140 ' †
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 c ε	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 s	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ∩ ∩	061 1 1	121 Q Q	161 q q
022 ∩ ∩	062 2 2	122 R R	162 r r
023 U U	063 3 3	123 S S	163 s s
024 V V	064 4 4	124 T T	164 t t
025 ∩ ∩	065 5 5	125 U U	165 u u
026 ⊗ ⊗	066 6 6	126 V V	166 v v
027 ⇄ ⇄	067 7 7	127 W W	167 w w
030 † †	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ◇ ◇	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨ ∨	077 ? ?	137 _ _	177 /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~
 ↓αβλ~επλ ↑ ∞∂c∩∩U∩V]∞⇄⇄→#∞≤≥≡∨

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```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y))))))

```

```

LOOP:   SKIPA B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
        . IOT TYOC, A
        ILDB A, B
        JUMPN A, LOOP ;jump unless terminating null

```

000 █	040	100 e @	140 ' `
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 # #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 ~	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' ' (grave)	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑ †	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 ⊃	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 U	063 3 3	123 S S	163 s s
024 V	064 4 4	124 T T	164 t t
025 ∃	065 5 5	125 U U	165 u u
026 ⊗	066 6 6	126 V V	166 v v
027 ⇨	067 7 7	127 W W	167 w w
030 ⇐ †	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y Y	171 y y
032 ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤ ↘	074 < <	134 \ \	174 | |
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~
 †↔

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 Of shoes, and ships, and sealing wax,
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 And why the sea is boiling hot,
 And whether pigs have wings."

```

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  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP:   SKIP A B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```


000 █ █	040	100 e @	140 ' \
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' ' (grave)	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 ς ς	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 0 0	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 η η	062 2 2	122 R R	162 r r
023 υ υ	063 3 3	123 S S	163 s s
024 ϐ ϐ	064 4 4	124 T T	164 t t
025 Ξ Ξ	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ⇄ ⇄	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [[173 { {
034 ≤ ≤	074 < <	134 \ \	174
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036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨ ∨	077 ? ?	137 _ _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~
 █↓αβγδϵπλϑς↑±∞∂c>ηυϐΞ⊙⇄←→≠♦≤≥≡

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
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 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

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        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

LOOP:   SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```

000 █	040	100 @	@	140 ' .
001 ↓	041 ! !	101 A A		141 a a
002 α	042 " "	102 B B		142 b b
003 β	043 # #	103 C C		143 c c
004 ^	044 \$ \$	104 D D		144 d d
005 ~	045 % %	105 E E		145 e e
006 €	046 & &	106 F F		146 f f
007 π	047 ' '	107 G G		147 g g
010 λ	050 ( (	110 H H		150 h h
011 γ	051))	111 I I		151 i i
012 δ	052 * *	112 J J		152 j j
013 ↑ †	053 + +	113 K K		153 k k
014 ±	054 , ,	114 L L		154 l l
015 ⊕	055 - -	115 M M		155 m m
016 ∞	056 . .	116 N N		156 n n
017 ∂	057 / /	117 O O		157 o o
020 c	060 0 0	120 P P		160 p p
021 ∩	061 1 1	121 Q Q		161 q q
022 ∩	062 2 2	122 R R		162 r r
023 U	063 3 3	123 S S		163 s s
024 V	064 4 4	124 T T		164 t t
025 ∃	065 5 5	125 U U		165 u u
026 ⊗	066 6 6	126 V V		166 v v
027 †	067 7 7	127 W W		167 w w
030 † †	070 8 8	130 X X		170 x x
031 →	071 9 9	131 Y Y		171 y y
032 ≠	072 : :	132 Z Z		172 z z
033 ◊	073 ; ;	133 [ [		173 { {
034 ≤	074 < <	134 \ \		174 | |
035 ≥	075 = =	135]]		175 } }
036 ≡	076 > >	136 ^ ^		176 ~ ~
037 ∨	077 ? ?	137 _ _		177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ
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 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 † †

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 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

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  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

```

```

LOOP:   SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUNPN A,LOOP ;jump unless terminating null

```

000 █	040	100 e	140 ' a
001 ↓	041 !	101 A A	141 a a
002 α	042 "	102 B B	142 b b
003 β	043 #	103 C C	143 c c
004 ^	044 \$	104 D D	144 d d
005 ~	045 %	105 E E	145 e e
006 €	046 &	106 F F	146 f f
007 π	047 '	107 G G	147 g g
010 λ	050 (	110 H H	150 h h
011 γ	051)	111 I I	151 i i
012 δ	052 *	112 J J	152 j j
013 ↑	053 +	113 K K	153 k k
014 ±	054 ,	114 L L	154 l l
015 ⊕	055 -	115 M M	155 m m
016 ∞	056 .	116 N N	156 n n
017 ∂	057 /	117 O O	157 o o
020 c	060 Ø	120 P P	160 p p
021 ∩	061 1	121 Q Q	161 q q
022 ∩	062 2	122 R R	162 r r
023 U	063 3	123 S S	163 s s
024 V	064 4	124 T T	164 t t
025 E	065 5	125 U U	165 u u
026 ⊗	066 6	126 V V	166 v v
027 ⊕	067 7	127 W W	167 w w
030 †	070 8	130 X X	170 x x
031 →	071 9	131 Y Y	171 y y
032 ✕	072 :	132 Z Z	172 z z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 j

ABCDEFGHIJKLMN OPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG

The time has come the Walrus said
 To talk of many things
 Of shoes and ships and sealing wax
 Of cabbages and kings
 And why the sea is boiling hot
 And whether pigs have wings

DEFUN APPEND X Y APPEND FUNCTION FOR LISP
 COND NULL X Y
 T CONS CAR X APPEND CDR X Y

LOOP SKIPA BASCIZ FOOBAR loop to print chars
 IOT TYOCA
 ILDB AB
 JUMPN ALOOP jump unless terminating null

English Alphabets

Family: Miscellaneous

All English alphabet fonts which do not clearly fit into any of the previous families are collected here. We have only one size and style for some fonts. Others have not been identified, if indeed they ever came from existing font designs.

The Microgramma is somewhat of an anomaly. Its designers never intended it to have a lower case, but apparently someone thought it should, and went through the trouble of designing one. It is a somewhat "futuristic" font, quite pleasant for labels and such, but not suitable for the main text in documents because of its width and the way it blocks the page.

The 5X7 font is not for the XGP, but for video display.

The Quux fonts were designed by Guy Steele at MIT.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; 25VCTL KST	V	25	19	25	10	19	16	City Lights
FONTS; HELVET 20BOLD	V	56	44	62	24	41	31	Helvetica
FONTS; 25VMIC KST	V	25	20	28	10	20	17	Microgramma
FONTS; 36VPLY KST	V	36	27	16	10	21	14	Playbill
FONTS1; 25VQXZ KST	V	25	20	26	17	20	17	Quux
FONTS; 25VQXB KST	V	25	20	25	16	20	17	Quux Bold (variable)
FONTS; 25FQXB KST	F	25	20	22	22	20	17	Quux Bold (fixed)
FONTS; 5X7 KST	F	12	8	6	6	7	5	5x7 tv font
FONTS; 33FR KST	F	33	23	23	23	23	20	unnamed face
FONTS; 33FRI KST	V	33	24	26	22	24	21	unnamed italic face

000 █		040		100 @ @		140 ' '
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 γ γ		051))		111 I I		151 i i
012 δ δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ø ø		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ð ð		057 / /		117 O O		157 o o
020 c c		060 ø ø		120 P P		160 p p
021 > >		061 1 1		121 Q Q		161 q q
022 n n		062 2 2		122 R R		162 r r
023 U U		063 3 3		123 S S		163 s s
024 V V		064 4 4		124 T T		164 t t
025 E E		065 5 5		125 U U		165 u u
026 ø ø		066 6 6		126 V V		166 v v
027 ↔ ↔		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ≡		076 > >		136 ^ ^		176 ~ ~
037 v v		077 ? ?		137 _ _		177 f f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[_{}~

↓α/βλ-επλ↑∞δc>∞UV]ø↔←→≠~≤≥v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

;APPEND FUNCTION FOR LISP

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;loop to print chars

;jump unless terminating null

000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	-	045	%	105	E	145	e
006	€	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	ς	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	▷	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	∪	063	3	123	S	163	s
024	∇	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	×	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	∨	077	?	137	_	177	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~

'--■●★≤≥

THE SICK BROWN QUUX JUMPED OVER THE LAKE

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y) ;APPEND FUNCTION

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X)

SKIPA B,[440700,],[ASCIZ \FOOBAR\]) ;IC

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP ;jump unless

000 █	040	100 e	140 '
001 ↓	041 ! !	101 A A	141 a a
002 α	042 " "	102 B B	142 b b
003 β	043 #	103 C C	143 c c
004 ^	044 \$ \$	104 D D	144 d d
005 →	045 % %	105 E E	145 e e
006 €	046 & &	106 F F	146 f f
007 π	047 ' '	107 G G	147 g g
010 λ	050 ( (	110 H H	150 h h
011 Υ	051))	111 I I	151 i i
012 δ	052 * *	112 J J	152 j j
013 ↑	053 + +	113 K K	153 k k
014 ±	054 , ,	114 L L	154 l l
015 ⊕	055 - -	115 M M	155 m m
016 ∞	056 . .	116 N N	156 n n
017 ∂	057 / /	117 O O	157 o o
020 c	060 0 0	120 P P	160 p p
021 >	061 1 1	121 Q Q	161 q q
022 n	062 2 2	122 R R	162 r r
023 u	063 3 3	123 S S	163 s s
024 v	064 4	124 T T	164 t t
025 ∃	065 5	125 U U	165 u u
026 ⊙	066 6	126 V V	166 v v
027 ⇨	067 7	127 W W	167 w w
030 ←	070 8	130 X X	170 x x
031 →	071 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦	073 ; ;	133 [ [	173 {
034 ≤ ≤	074 < <	134 \	174 |
035 ≥ ≥	075 = =	135]]	175 }
036 ≡	076 > >	136 ^	176 ~
037 √	077 ? ?	137 _	177 f

ABCDEFGHIJKLMN OPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1123

!"\$%&'()*+,-./:;<=>?@[]

*\$%&

THE SICK BROWN QUOX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

(COND ((NULL X) Y)

:APPEND FUNCTION FOR LISP

000	█	040		100	@	140	'	`
001	↓	041	!	101	A	141	a	~
002	α	042	"	102	B	142	b	~
003	β	043	#	103	C	143	c	~
004	^	044	\$	104	D	144	d	~
005	~	045	%	105	E	145	e	~
006	ε	046	&	106	F	146	f	~
007	π	047	'	107	G	147	g	~
010	λ	050	(	110	H	150	h	~
011	Υ	051	)	111	I	151	i	~
012	δ	052	*	112	J	152	j	~
013	↑	053	+	113	K	153	k	~
014	±	054	,	114	L	154	l	~
015	⊕	055	-	115	M	155	m	~
016	∞	056	.	116	N	156	n	~
017	∂	057	/	117	O	157	o	~
020	∮	060	0	120	P	160	p	~
021	∩	061	1	121	Q	161	q	~
022	∪	062	2	122	R	162	r	~
023	∩	063	3	123	S	163	s	~
024	∇	064	4	124	T	164	t	~
025	∃	065	5	125	U	165	u	~
026	⊙	066	6	126	V	166	v	~
027	⊕	067	7	127	W	167	w	~
030	⊖	070	8	130	X	170	x	~
031	→	071	9	131	Y	171	y	~
032	×	072	:	132	Z	172	z	~
033	◇	073	;	133	[	173	{	~
034	≤	074	<	134	\	174	|	~
035	≥	075	=	135	]	175	}	~
036	≡	076	>	136	^	176	~	~
037	∇	077	?	137	_	177	~	█

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~█
 ↓αβ^~επλγδ↑±⊕∞∂∩∪∇∃⊙⊕⊖→×◇≤≥≡∇

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
    (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP:   SKIPA B,[440700,,[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```

000 █		040		100 e @		140 ' `
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 γ γ		051))		111 I I		151 i i
012 δ δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ⊕ ⊕		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 c c		060 0 0		120 P P		160 p p
021 ⊃ ⊃		061 1 1		121 Q Q		161 q q
022 n u		062 2 2		122 R R		162 r r
023 U n		063 3 3		123 S S		163 s s
024 V v		064 4 4		124 T T		164 t t
025 E e		065 5 5		125 U U		165 u u
026 ⊙ ⊙		066 6 6		126 V V		166 v v
027 ↔ ↔		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ≡		076 > >		136 ^ ^		176 ~ ~
037 v v		077 ? ?		137 _ _		177 f █

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~█
↓αβ^~επλγδ†±⊕∞∂c⊃U∩V∃⊗↔↔≠♦≤Σ≡V

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP:  SKIPA B,[440700],[ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC,A
        ILDB A,B
        JUMPN A,LOOP ;jump unless terminating null
  
```

000 █		040		100 @ @		140 ' `
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 γ γ		051))		111 I I		151 i i
012 δ δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ⊕ ⊕		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 c c		060 0 0		120 P P		160 p p
021 ∩ ∩		061 1 1		121 Q Q		161 q q
022 ∩ ∩		062 2 2		122 R R		162 r r
023 U U		063 3 3		123 S S		163 s s
024 ∇ ∇		064 4 4		124 T T		164 t t
025 ∃ ∃		065 5 5		125 U U		165 u u
026 ⊗ ⊗		066 6 6		126 V V		166 v v
027 ↔ ↔		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ♦ ♦		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ≡		076 > >		136 ^ ^		176 ~ ~
037 √ √		077 ? ?		137 _ _		177 f █

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789
!"#\$%&'()*+,-./:;<=>?[\]^_`{|}~█
↓αβ^~επλγδ↑±⊕∞∂↔↔←→≠≤≥≡√

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP:   SKIPA B, [440700;, [ASCIZ \FOOBAR\]] ;loop to print char
        .IOT TYOC, A
        ILDB A, B
        JUMPN A, LOOP ;jump unless terminating
  
```


000 █	040	100 e .	140 ' .
001 ↓	041 ! .	101 A .	141 a .
002 α	042 " .	102 B .	142 b .
003 β	043 # .	103 C .	143 c .
004 ^	044 \$.	104 D .	144 d .
005 ~	045 % .	105 E .	145 e .
006 €	046 & .	106 F .	146 f .
007 π	047 ' .	107 G .	147 g .
010 λ	050 (.	110 H .	150 h .
011 Y	051) .	111 I .	151 i .
012 δ	052 * .	112 J .	152 j .
013 ↑	053 + .	113 K .	153 k .
014 ±	054 , .	114 L .	154 l .
015 ⊕	055 - .	115 M .	155 m .
016 ∞	056 . .	116 N .	156 n .
017 ∂	057 / .	117 O .	157 o .
020 c	060 0 .	120 P .	160 p .
021 ∩	061 1 .	121 Q .	161 q .
022 ∩	062 2 .	122 R .	162 r .
023 U	063 3 .	123 S .	163 s .
024 V	064 4 .	124 T .	164 t .
025 ∃	065 5 .	125 U .	165 u .
026 ⊙	066 6 .	126 V .	166 v .
027 ⇄	067 7 .	127 W .	167 w .
030 ←	070 8 .	130 X .	170 x .
031 →	071 9 .	131 Y .	171 y .
032 ≠	072 : .	132 Z .	172 z .
033 ◇	073 ; .	133 [.	173 { .
034 ≤	074 < .	134 \ .	174 | .
035 ≥	075 = .	135] .	175 } .
036 ≡	076 > .	136 ^ .	176 ~ .
037 √	077 ? .	137 _ .	177 f .

```

RECD EFGHIJKLMNOPRSTUVAQXZ
abcd e fgh i jklmnopqrstuvwxyz
0123456789
"ab" (0x00000000) [3] [1]
RECD EFGHIJKLMNOPRSTUVAQXZ
    
```

THE SICK BROCK DUCK JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things:
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y)
  (COND ((NULL X) Y)
        ((CONS (CAR X) (APPEND (CDR X) Y))))
    
```

JAPPEND FUNCTION FOR LISP

```

SKIPR 0, (440700,, (R0C12 -FOOBAR-))
LOOP1 .NOT TVOC, R
ILDR R, R
JAPPN R, LOOP
    
```

Jump unless terminating null

000 █		040		100 @ @		140 ' '
001 ↓ ↓		041 ! !		101 A A		141 a a
002 α α		042 " "		102 B B		142 b b
003 β β		043 # #		103 C C		143 c c
004 ^ ^		044 \$ \$		104 D D		144 d d
005 ~ ~		045 % %		105 E E		145 e e
006 € €		046 & &		106 F F		146 f f
007 π π		047 ' '		107 G G		147 g g
010 λ λ		050 ( (		110 H H		150 h h
011 Υ Υ		051))		111 I I		151 i i
012 δ δ		052 * *		112 J J		152 j j
013 ↑ ↑		053 + +		113 K K		153 k k
014 ± ±		054 , ,		114 L L		154 l l
015 ⊕ ⊕		055 - -		115 M M		155 m m
016 ∞ ∞		056 . .		116 N N		156 n n
017 ∂ ∂		057 / /		117 O O		157 o o
020 c c		060 ø ø		120 P P		160 p p
021 ∩ ∩		061 1 1		121 Q Q		161 q q
022 ∪ ∪		062 2 2		122 R R		162 r r
023 u u		063 3 3		123 S S		163 s s
024 v v		064 4 4		124 T T		164 t t
025 ∃ ∃		065 5 5		125 U U		165 u u
026 ⊗ ⊗		066 6 6		126 V V		166 v v
027 ⊕ ⊕		067 7 7		127 W W		167 w w
030 ← ←		070 8 8		130 X X		170 x x
031 → →		071 9 9		131 Y Y		171 y y
032 ≠ ≠		072 : :		132 Z Z		172 z z
033 ∠ ∠		073 ; ;		133 [ [		173 { {
034 ≤ ≤		074 < <		134 \ \		174 | |
035 ≥ ≥		075 = =		135]]		175 } }
036 ≡ ≡		076 > >		136 ^		176 ~ ~
037 ∨ ∨		077 ? ?		137 _ _		177 ∫ ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\] _ () ~ ∫
 ↓αβ^~επλγδ↑±⊕∞∂c∩∪u∃⊗⊕←→≠∠≤≥≡∨

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ; APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

```

```

LOOP: SKIPA B, [440700., [ASCIZ \FOOBAR\]] ; loop to print char
      . 10T TYOC, A

```

000 █	040	100 @ @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 - -	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N N	156 n n
017 ∂ ∂	057 / /	117 O O	157 o o
020 c c	060 ø ø	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 η η	062 2 2	122 R R	162 r r
023 υ υ	063 3 3	123 S S	163 s s
024 v v	064 4 4	124 T T	164 t t
025 ∃ ∃	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^	176 ~ ~
037 √ √	077 ? ?	137 _ _	177 ∫ ∫

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]_`{|}~
 ↓αβ^~επλγδ↑±⊕∞∂cɔηυ∃∂↔←→≠≤≥≡

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ; APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))
  
```

```

LOOP:   SKIPA B.[440700].[ASCIZ \FOOBAR\]] ; loop to print char
        . IOT TYOC.A
  
```

FOREIGN ALPHABETS

This division contains all foreign alphabets. It is usually the case that character assignments between different sizes of a given language are the same or at least similiar. There is no guarantee of this of course. Fonts are listed alphabetically by language.

Foreign Alphabets

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTS; KRIVO KST	V	100	50	49	21	--	--	Arabic
FONTS; OLDERA KST	F	15	9	15	15	--	--	an older Arabic?
FONTS; S25CYR KST	V	29	24	28	12	23	20	Cyrillic (Russian)
FONTS; S30CYR KST	V	38	30	37	17	29	24	Cyrillic
FONTS; S38CYR KST	V	38	30	37	17	29	24	Cyrillic
FONTS; S35GER KST	V	35	30	32	10	30	24	Fraktur (German)
FONTS1; 12GERM KST	V	30	22	29	10	20	15	Fraktur
FONTS; S25GRK KST	V	26	21	26	16	21	19	Greek
FONTS1; 11GRK KST	V	30	24	29	10	20	14	Greek
FONTS; S30GRK KST	V	31	26	35	20	26	24	Greek
FONTS1; GREEK 12PT	V	33	25	35	13	23	15	Greek
FONTS1; GRKL30 KST	V	35	25	30	11	25	23	Greek
FONTS1; GREEK 14PT	V	39	31	41	13	27	18	Greek
FONTS; S25HBR KST	V	45	32	20	14	--	--	Hebrew
FONTS; S40HBR KST	V	64	50	29	--	42	--	Hebrew
FONTS; S30LAT KST	F	30	25	16	16	25	22	Latin?
FONTS; S30SWD KST	F	30	25	16	16	23	19	Swedish
FONTS1; TENGWR KST	V	40	0	32	16	--	--	Tengwar (Elvish)

000 ■	040	100 @ و	140 ' .
001 ↓	041 ! غ	101 A ة	141 a ا
002 α	042 " ف	102 B ة	142 b *
003 β	043 # ف	103 C ر	143 c ب
004 ^	044 \$ ف	104 D .	144 d ب
005 -	045 % ف	105 E .	145 e ا
006 €	046 & ه	106 F ي	146 f ب
007 π	047 ' د	107 G ي	147 g ب
010 λ	050 (ح	110 H ي	150 h خ
011 γ	051) ه	111 I ي	151 i خ
012 ε	052 * ن	112 J لآ	152 j د
013 ↑	053 + ن	113 K كا	153 k خ
014 ±	054 , ن	114 L في	154 l خ
015 ⊕	055 - ز	115 M بر	155 m د
016 ∞	056 . م	116 N لله	156 n ز
017 ∂	057 / م	117 O م	157 o ز
020 c	060 θ م	120 P مح	160 p ش
021 >	061 1 م	121 Q لي	161 q ش

022 n	062 2 ل	122 R لم	162 r شه
023 u	063 3 ل	123 S ل	163 s ص
024 v	064 4 ل	124 T ل	164 t ص
025 3	065 5 ل	125 U ا	165 u ش
026 *	066 6 ك	126 v ٢	166 v ص
027 +	067 7 ك	127 W ٣	167 w ص
030 -	070 8 ك	130 X ٤	170 x ظ
031 →	071 9 ك	131 Y ٥	171 y ظ
032 =	072 : ق	132 Z ٦	172 z ظ
033 ♦	073 ; ق	133 [٧	173 { ظ
034 ≤	074 < ق	134 \ ٨	174 | ف
035 ≥	075 = ق	135] ٩	175) غ
036 ≡	076 > ي	136 ^ °	176 ~ غ
037 v	077 ? و	137 _	177 f غ

١٢٣٤٥٦ الجلم لي محمد لله بر في كلالا يبي يهته

ظاظظ ص ش ص ش ش ش ز ز دخ دخ دخ ببا بي* ا

ككك كلالل مم

غغغ غوظ: ٧٨٩ ويقق ق مم ننن ههه ههه ههه

000 █		040		100 @ Ш		140 ' ъ
001 ↓ ж		041 !		101 A A		141 a а
002 α		042 " ч		102 B Б		142 b б
003 β		043 # Ч		103 C		143 c
004 ^ Ъ		044 \$ ě		104 D Д		144 d д
005 →		045 % Ě		105 E Е		145 e е
006 €		046 & Щ		106 F Ф		146 f ф
007 π		047 ' Ь		107 G Г		147 g г
010 λ		050 (		110 H Х		150 h х
011 Υ		051)		111 I И		151 i и
012 δ		052 *		112 J		152 j
013 ↑		053 + щ		113 K К		153 k к
014 ±		054 ,		114 L Л		154 l л
015 φ		055 -		115 M М		155 m м
016 ∞		056 .		116 N Н		156 n н
017 ∂		057 /		117 O О		157 o о
020 с Ю		060 0		120 P П		160 p п
021 ∃ Я		061 1		121 Q		161 q
022 η Ъ		062 2		122 R Р		162 r р
023 U Э		063 3		123 S С		163 s с
024 Υ		064 4		124 T Т		164 t т
025 Э		065 5		125 U У		165 u у
026 φ ш		066 6		126 V В		166 v в
027 ⇨		067 7		127 W		167 w
030 ←		070 8		130 X		170 x
031 → ц		071 9		131 Y Й		171 y й
032 ≠		072 :		132 Z З		172 z з
033 ♦		073 ;		133 [		173 {
034 ≤		074 < ю		134 \		174 |
035 ≥		075 = ы		135]		175 }
036 ≡ Ы		076 > я		136 ^ Ж		176 ~
037 √ э		077 ?		137 _ Ц		177 /

АБДЕФГХИҚЛМНОПРСТУВЎЎЗ
абдефгхиклмнопрстувўўз

чЧѐĚЩЪщюыяЖЦ
жьЮЯЬЭщцЬэ

ТХЕ СИК БРОН УУ УМПЕД ОВЕР ТХЕ ЛАЗЙ ФРОГ

чТхе тиме хас омеч тхе алрус саид
чТо талк оф манй тхингс
Оф схоес анд схипс анд сеалинг а
Оф аббагес анд кингс
Анд хй тхе сеа ис боилинг хот
Анд хетхер пингс хаве ингсч

ДЕФУН АППЕНД Й
ОНД НУЛЛ Й
Т ОНС АР АППЕНД ДР Й

АППЕНД ФУНТИОН ФОР ЛИСП

СКИПА БАСИЗ ФООБАР
ЛООП ИОТ ТЙОА
ИЛДБ АБ
УМПН АЛООП

лооп то принт харс

умп унлесс терминатинг нулл

000 ■	040	100 @ Ш	140 ' Ъ
001 ↓ ж	041 !	101 A А	141 a а
002 α	042 " ч	102 B Б	142 b б
003 β	043 # Ч	103 C	143 c
004 ^ Ъ	044 \$ ě	104 D Д	144 d д
005 ~	045 % Ё	105 E Е	145 e е
006 €	046 & Щ	106 F Ф	146 f ф
007 π	047 ' Ь	107 G Г	147 g г
010 λ	050 (	110 H Х	150 h х
011 γ	051)	111 I И	151 i и
012 δ	052 *	112 J	152 j
013 ↑	053 + щ	113 K К	153 k к
014 ±	054 ,	114 L Л	154 l л
015 ⊕	055 -	115 M М	155 m м
016 ∞	056 .	116 N Н	156 n н
017 ∂	057 /	117 O О	157 o о
020 с Ю	060 Ø	120 P П	160 p п
021 > Я	061 1	121 Q	161 q
022 n Ъ	062 2	122 R Р	162 r р
023 u Э	063 3	123 S С	163 s с
024 v	064 4	124 T Т	164 t т
025 Э	065 5	125 U У	165 u у
026 ⊗ ш	066 6	126 V В	166 v в
027 ⇄	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 → ц	071 9	131 Y Й	171 y й
032 ≠	072 :	132 Z З	172 z з
033 ♦	073 ;	133 [	173 {
034 ≤	074 < ю	134 \	174 |
035 ≥	075 = ы	135]	175 }
036 ≡ Ы	076 > я	136 ^ Ж	176 ~
037 √ э	077 ?	137 _ Ц	177 f

АБДЕФГХИҚЛМНОПРСТУВЅ
абдефгхиклмнопрстувџз

чЧёЁЩЪщюыяЖЦ
жьЮЯЬЭщџџэ

ТХЕ СИК БРОН УУ УМПЕД ОВЕР ТХЕ ЛАЗЙ ФРОГ

чТхе тиме хас омеч тхе алрус санд

чТо талк оф манй тхингс

Оф схоес анд схипс анд сеалинг а

Оф аббагес анд кингс

Анд хй тхе сеа ис боилинг хот

Анд хетхер пигс хаве ингсч

ДЕФУН АППЕНД Й

АППЕНД ФУНТИОН ФОР ЛИСП

000 ■	040	100 e	140 ' °
001 ↓ Й	041 !	101 A A	141 a a
002 α й	042 " "	102 B B	142 b в
003 β	043 # #	103 C C	143 c c
004 ^ ъ	044 \$ \$	104 D Д	144 d Д
005 ~ Ё	045 % %	105 E E	145 e е
006 € ё	046 & ×	106 F Ф	146 f ф
007 π	047 ' ?	107 G Г	147 g г
010 λ	050 ( (	110 H H	150 h H
011 γ	051))	111 I И	151 i и
012 δ	052 * *	112 J Ж	152 j ж
013 ↑	053 + +	113 K К	153 k к
014 ±	054 , ,	114 L Л	154 l л
015 ø	055 - -	115 M М	155 m м
016 ∞ П	056 . .	116 N Ч	156 n ч
017 ð п	057 / /	117 O О	157 o о
020 с	060 Ø O	120 P Р	160 p р
021 ÷	061 1 1	121 Q Щ	161 q щ
022 п ь	062 2 2	122 R Я	162 r я
023 u Ы	063 3 3	123 S Ц	163 s ц
024 v ы	064 4 4	124 T Т	164 t т
025 Э Э	065 5 5	125 U Ю	165 u ю
026 ø э	066 6 6	126 V Б	166 v б
027 ↔	067 7 7	127 W Ш	167 w ш
030 ← ←	070 8 8	130 X X	170 x x
031 →	071 9 9	131 Y У	171 y у
032 ≠	072 : :	132 Z З	172 z з
033 ♦	073 ; ;	133 [ [	173 { {
034 ≤	074 < <	134 \ \	174 | |
035 ≥	075 = =	135]]	175 } }
036 ≡	076 > >	136 ^ ^	176 ~ ~
037 √	077 ? ?	137 _ _	177 ∫ ∫

АВСДЕФГНИЖКЛМЧОРЩЯЦТЮБШХУЗ

авсдефгнижклмчорщяцтюбшхуз

0123456789

"#\$%&'()*+,-./:;=[\|]

ЙйЪёЁПпЬьЫыЭэ-

ТНЕ ЦИСК ВЯОШЧ ЦЮЮОХ ЖЮМРЕД ОБЕЯ ТНЕ ЛАЗУ ФЯОГ.

"Тне тиме нац соме," тне Шаляюц цаид,

"То талк оф мачу тничгц;

Оф цноец, ачд цпирц, ачд цеаличг шах,

Оф саввагец ачд кичгц,

Ачд шну тне цеа иц воиличг нот,

Ачд шнетнея ригц набе шичгц."

000 █	040	100 e	140 '
001 ↓	041 !	101 A A	141 a a
002 α	042 "	102 B B	142 b b
003 β	043 #	103 C C	143 c c
004 ^	044 \$	104 D D	144 d d
005 ~	045 %	105 E E	145 e e
006 €	046 &	106 F F	146 f f
007 π	047 '	107 G G	147 g g
010 λ	050 (	110 H H	150 h h
011 γ	051)	111 I I	151 i i
012 δ	052 *	112 J J	152 j j
013 ↑	053 +	113 K K	153 k k
014 ±	054 ,	114 L L	154 l l
015 ⊕	055 -	115 M M	155 m m
016 ∞	056 .	116 N N	156 n n
017 ∂	057 /	117 O O	157 o o
020 c	060 0	120 P P	160 p p
021 ∩	061 1	121 Q Q	161 q q
022 ∩	062 2	122 R R	162 r r
023 U	063 3	123 S S	163 s s
024 V	064 4	124 T T	164 t t
025 E	065 5	125 U U	165 u u
026 ⊙	066 6	126 V V	166 v v
027 ⇄	067 7	127 W W	167 w w
030 ←	070 8	130 X X	170 x x
031 →	071 9	131 Y Y	171 y y
032 ≠	072 :	132 Z Z	172 z z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
abcdefghijklmnopqrstuvwxyz

T H E T I M E H A S C O M E T H E W A L R U S S A I D

The time has come the Walrus said
 To talk of many things
 Of shoes and ships and sealing wax
 Of cabbages and kings
 And why the sea is boiling hot
 And whether pigs have wings

D E F U N A P P E N D X Y
C O M M A N D X Y

A P P E N D F U N C T I O N F O R X Y Z

T H E T I M E H A S C O M E T H E W A L R U S S A I D

000	█	040	100	@	140	'		
001	↓	041	101	A	У	141	a	а
002	α	042	102	B	В	142	b	б
003	β	043	103	C	С	143	c	с
004	^	044	104	D	Д	144	d	д
005	¬	045	105	E	Е	145	e	е
006	ε	046	106	F	Ф	146	f	ф
007	π	047	107	G	Г	147	g	г
010	λ	050	110	H	Н	150	h	н
011	Υ	051	111	I	И	151	i	и
012	δ	052	112	J	Ј	152	j	ј
013	↑	053	113	K	К	153	k	к
014	±	054	114	L	Л	154	l	л
015	⊕	055	115	M	М	155	m	м
016	∞	056	116	N	Н	156	n	н
017	∂	057	117	O	О	157	o	о
020	c	060	120	P	Р	160	p	р
021	∩	061	121	Q	Қ	161	q	қ
022	∩	062	122	R	Р	162	r	р
023	U	063	123	S	С	163	s	с
024	V	064	124	T	Т	164	t	т
025	E	065	125	U	У	165	u	у
026	⊙	066	126	V	В	166	v	в
027	⊕	067	127	W	В	167	w	в
030	†	070	130	X	Х	170	x	х
031	→	071	131	Y	У	171	y	у
032	≠	072	132	Z	З	172	z	з
033	♦	073	133	[		173	[
034	≤	074	134	\		174	|	
035	≥	075	135	]		175]	
036	≡	076	136	^		176	~	
037	v	077	137	_		177	f	

У В С D E F G H I J K L M N O P Q R S T U V W X Y Z
 abcdefghijklmnopqrstuvwxyz

Т.С.Е. С.З.С.Н. В.М.О.В.М. Д.И.И.Х. З.И.М.П.С.Д. О.В.С.М. Т.С.Е. У.В.З.У. Т.М.О.С.

The time has come the Walrus said
 To talk of many things
 Of shoes and ships and sealing wax
 Of cabbages and kings
 And why the sea is boiling hot
 And whether pigs have wings

Д.С.Е.И.И. У.П.П.С.М.Д. Х. У
 С.О.М.Д. М.И.И.У. Х. У
 Т. С.О.М.С. С.У.М. Х. У.П.П.С.М.Д. С.О.М. Х. У

С.А.З.П.Х. В.Х.С.С.З.С. Т.О.О.В.У.М. Loop to print charf
 У.О.О.П. З.О.Т. Т.У.О.С.У.
 З.У.Д.Х. У.В.
 З.И.М.П.С.Н. У.У.О.О.П.

jump unless terminating null

000 █	040	100 @	140 ' α
001 ↓	041 !	101 A Α	141 a α
002 α	042 "	102 B Β	142 b β
003 β	043 #	103 C Χ	143 c χ
004 ^	044 \$	104 D Δ	144 d δ
005 ~	045 %	105 E Ε	145 e ε
006 €	046 &	106 F Φ	146 f φ
007 π	047 ' .	107 G Γ	147 g γ
010 λ	050 (	110 H Η	150 h η
011 Υ	051)	111 I Ι	151 i ι
012 δ	052 *	112 J ϕ	152 j ϑ
013 ↑	053 +	113 K Κ	153 k κ
014 ±	054 ,	114 L Λ	154 l λ
015 ⊕	055 -	115 M Μ	155 m μ
016 ∞	056 .	116 N Ν	156 n ν
017 ∂	057 /	117 O Ο	157 o ο
020 Ϸ	060 0	120 P Π	160 p π
021 Ϸ	061 1	121 Q Θ	161 q θ
022 η	062 2	122 R Ρ	162 r ρ
023 U	063 3	123 S Σ	163 s σ
024 V	064 4	124 T Τ	164 t τ
025 ∃	065 5	125 U Τ	165 u υ
026 ⊙	066 6	126 V ε	166 v ε
027 ⇄	067 7	127 W Ω	167 w ω
030 ←	070 8	130 X Ξ	170 x ξ
031 →	071 9	131 Y Ψ	171 y ψ
032 ≠	072 :	132 Z Ζ	172 z ζ
033 ♦	073 ;	133 I	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ΑΒΧΔΕΦΓΗΙΘΚΛΜΝΟΠΘΡΣΤΤεΩΞΨΖ
αβχδεφγηθκλμνοπθροστυωξψζ

THE ΣΙΚΚ ΒΡΩΝ ΘΤΤε φΤΜΠΕΔ ΟεΕΡ THE ΛΑΖΨ ΦΡΟΓ

Τηε τιμε ηασ χομε τηε Ωαλρυσ σαιδ
Το ταλκ οφ μανψ τημγσ
Οφ σηοεσ ανδ σηιπσ ανδ σεαλυγ ωαξ
Οφ χαββαγεσ ανδ κινγσ
Ανδ ωηψ τηε σεα ισ βοιλινγ ηοτ
Ανδ ωηετηερ πιγσ ηασε ωινγσ

ΔΕΦΤΝ ΑΠΠΕΝΔ Ξ Ψ
ΧΟΝΔ ΝΤΑΛ Ξ Ψ
Τ ΧΟΝΣ ΧΑΡ Ξ ΑΠΠΕΝΔ ΧΑΡ Ξ Ψ

ΑΠΠΕΝΔ ΦΤΝΧΤΙΟΝ ΦΟΡ ΛΙΣΠ

ΣΚΙΠΑ ΒΑΣΧΙΖ ΦΟΟΒΑΡ
ΛΟΟΠ ΙΟΤ ΤΨΟΧΑ
ΙΛΔΒ ΑΒ
φΤΜΠΙΝ ΑΛΟΟΠ

λοοπ το πριντ χηαρσ

θυμπ υλλεσσ τερμνατωγ νυλλ

000	█	040		100	ⓔ	ⓔ	140	·	·
001	↓	041	!	101	A	A	141	a	α
002	α	042	"	102	B	B	142	b	β
003	β	043	#	103	C	X	143	c	χ
004	^	044	\$	104	D	Δ	144	d	δ
005	~	045	%	105	E	E	145	e	ε
006	ε	046	&	106	F	Φ	146	f	φ
007	π	047	'	107	G	Γ	147	g	γ
010	λ	050	(	110	H	H	150	h	η
011	Υ	051	)	111	I	I	151	i	ι
012	δ	052	*	112	J	ϕ	152	j	ϑ
013	↑	053	+	113	K	K	153	k	κ
014	±	054	,	114	L	Λ	154	l	λ
015	⊕	055	-	115	M	M	155	m	μ
016	∞	056	.	116	N	N	156	n	ν
017	∂	057	/	117	O	O	157	o	ο
020	c	060	0	120	P	Π	160	p	π
021	∩	061	1	121	Q	Θ	161	q	θ
022	∩	062	2	122	R	Ρ	162	r	ρ
023	U	063	3	123	S	Σ	163	s	σ
024	Υ	064	4	124	T	T	164	t	τ
025	Ξ	065	5	125	U	Υ	165	u	υ
026	⊙	066	6	126	V		166	v	ς
027	↔	067	7	127	W	Ω	167	w	ω
030	←	070	8	130	X	Ξ	170	x	ξ
031	→	071	9	131	Y	Ψ	171	y	ψ
032	≠	072	:	132	Z	Z	172	z	ζ
033	◇	073	;	133	[	[	173	{	{
034	≤	074	<	134	\	\	174	|	|
035	≥	075	=	135	]	]	175	}	}
036	≡	076	>	136	^		176	~	~
037	v	077	?	137	_	_	177	ƒ	ƒ

ΑΒΧΔΕΦΓΗΙΦΚΛΜΝΟΠΘΡΣΤΥΩΞΨΖ

αβχδεφγηηθκλμνοπθρστυωξψζ

0123456789

!"#\$%&'()*+,-./:;<=>?[_{}~|

THE ΣΙΚΚ ΒΡΩΝ ΘΥΤΞ ΦΥΜΠΕΔ ΟΕΡ THE ΛΑΖΨ ΦΡΟΓ.

"Τηε τιμε ηασ χομε," τηε Ωαλρυσ σαιδ,

"Το ταλκ οφ μανψ τηηγσ;

Οφ σηοεσ, ανδ σηηπσ, ανδ σεαλιηγ ωαξ,

Οφ χαββαγεσ ανδ κινγσ,

Ανδ ωηψ τηε σεα ισ βοιλιηγ ηοτ,

Ανδ ωηετηερ πιγσ ηασε ωινγσ."

(ΔΕΦΥΝ ΑΠΠΕΝΔ (Ξ Ψ)

;ΑΠΠΕΝΔ ΦΥΝΧΤΙΟΝ ΦΟΡ ΛΙΣΠ

(ΧΟΝΔ ((ΝΥΛΛ Ξ) Ψ)

(Υ (ΧΟΝΣ (ΧΑΡ Ξ) (ΑΠΠΕΝΔ (ΧΑΡ Ξ) Ψ))))

ΣΚΙΠΑ Β,[440700,,[ΑΣΧΙΖ \ΦΟΟΒΑΡΙ]]

;λοοπ το πρωτ χηαρσ

ΛΟΟΠ: ΙΟΤ ΤΨΟΧ,Α

ΙΛΔΒ Α,Β

φΥΜΠΝ Α,ΛΟΟΠ

;θυμπ υνλεσσ τερμνατιηγ νυλλ

000 █	040	100 e	140 ' α
001 ↓	041 !	101 A Α	141 a β
002 α	042 "	102 B Β	142 b γ
003 β	043 #	103 C Χ	143 c δ
004 ^	044 \$	104 D Δ	144 d ε
005 ~	045 % %	105 E Ε	145 e φ
006 €	046 &	106 F Φ	146 f γ
007 π	047 ' .	107 G Γ	147 g η
010 λ	050 (	110 H Η	150 h ι
011 Υ	051)	111 I Ι	151 i θ
012 δ	052 *	112 J ϕ	152 j κ
013 ↑	053 +	113 K Κ	153 k λ
014 ±	054 ,	114 L Λ	154 l μ
015 ϕ	055 -	115 M Μ	155 m ν
016 ∞	056 .	116 N Ν	156 n ο
017 ϑ	057 /	117 O Ο	157 o π
020 c	060 0	120 P Π	160 p ϑ
021 >	061 1	121 Q Θ	161 q ρ
022 η	062 2	122 R Ρ	162 r σ
023 υ	063 3	123 S Σ	163 s τ
024 Υ	064 4	124 T Τ	164 t υ
025 Ξ	065 5	125 U Υ	165 u ς
026 ϕ	066 6	126 V	166 v ω
027 ⇄	067 7	127 W Ω	167 w ξ
030 †	070 8	130 X Ξ	170 x ψ
031 →	071 9	131 Y Ψ	171 y ρ
032 ≠	072 :	132 Z Ζ	172 z ς
033 †	073 ;	133 [	173 |
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^ ^	176 ~
037 ∨	077 ?	137 _	177 f

ΑΒΧΔΕΦΓΗΙϕΚΛΜΝΟΠΘΡΣΤΤΩΞΨΖ
αβχδεφγηιδκλμνοπθρστυςωξψζ

%^

THE ΣΙΧΚ ΒΡΟΩΝ ΘΤΤΞ ϕΤΜΠΕΔ ΟΕΡ THE ΛΑΖΨ ΦΡΟΓ

Τηε τιμε ηασ χομε τηε Βαλρυσ σαιδ
Το ταλκ οφ μανψ τηηγσ
Οφ σηοεσ ανδ σηηπσ ανδ σεαλιηγ ωαξ
Οφ χαββαγεσ ανδ κινγσ
Ανδ ωηψ τηε σεα ισ βοιλινγ ηοτ
Ανδ ωηετηερ πιγσ ηασε ωινγσ

ΔΕΦΤΝ ΑΠΠΕΝΔ Ξ Ψ ΑΠΠΕΝΔ ΦΤΝΧΤΙΟΝ ΦΟΡ ΛΙΣΠ
ΧΟΝΔ ΝΤΛΛ Ξ Ψ
Τ ΧΟΝΣ ΧΑΡ Ξ ΑΠΠΕΝΔ ΧΔΡ Ξ Ψ

ΛΟΟΠ ΣΚΙΠΑ ΒΑΣΧΙΖ ΦΟΟΒΑΡ λσοπ το πριωτ χηαρσ
ΙΟΤ ΤΨΟΧΑ
ΙΛΔΒ ΑΒ
ϕΤΜΠΗΝ ΑΛΟΟΠ
δυμπ υνλεσο τερμινατιηγ νυλλ

000	█	040		100	e	140	'
001	↓	041	!	101	A A	141	a α
002	α	042	"	102	B B	142	b β
003	β	043	#	103	C X	143	c χ
004	∧	044	\$ ∫	104	D Δ	144	d δ
005	—	045	% ϕ	105	E E	145	e ε
006	ε	046	&	106	F Φ	146	f φ
007	π	047	'	107	G Γ	147	g γ
010	λ	050	( (	110	H H	150	h η
011	Υ	051	) )	111	I I	151	i ι
012	δ	052	*	112	J ϕ	152	j ϑ
013	↑ ∫	053	+	113	K K	153	k κ
014	±	054	,	114	L Λ	154	l λ
015	⊕	055	-	115	M M	155	m μ
016	∞	056	.	116	N N	156	n ν
017	∂	057	/	117	O O	157	o ο
020	c	060	0	120	P Π	160	p π
021	⊃	061	1	121	Q Θ	161	q θ
022	∩	062	2	122	R P	162	r ρ
023	U	063	3	123	S Σ	163	s σ
024	V	064	4	124	T T	164	t τ
025	∃	065	5	125	U Υ	165	u υ
026	⊗	066	6	126	V ∇	166	v ς
027	↔	067	7	127	W Ω	167	w ω
030	←	070	8	130	X Ξ	170	x ξ
031	→	071	9	131	Y Ψ	171	y ψ
032	≠	072	:	132	Z Ζ	172	z ζ
033	♦	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	∫

ΑΒΧΔΕΦΓΗΙϕΚΛΜΝΟΠΘΡΣΤΤΥΩΞΨΖ
αβχδεφγηηθκλμνοπθρστυςωξψς

∫ ϕ()
∫

THE ΣΙΧΚ ΒΡΟΝΝ ΘΤΤΞ ϕΤΜΠΕΔ ΟΥΕΡ ΤΗΕ ΛΑΖΨ ΦΡΟΓ

Τηε τιμε ηασ χομε τηε Ωαλρυσ σαιδ
Το ταλκ οφ μανψ τηηγσ
Οφ σηοεσ ανδ σηηπσ ανδ σεαλινγ ωαξ
Οφ χαββαγεσ ανδ κινγσ
Ανδ ωηψ τηε σεα ισ βοιλινγ ηοτ
Ανδ ωηετηερ πιγσ ηασε ωινγσ

(ΔΕΦΤΝ ΑΠΠΕΝΔ (Ξ Ψ)
(ΧΟΝΔ ((ΝΤΛΛ Ξ) Ψ)
(Τ (ΧΟΝΣ (ΧΑΡ Ξ) (ΑΠΠΕΝΔ (ΧΔΡ Ξ) Ψ))))

ΑΠΠΕΝΔ ΦΤΝΧΤΙΟΝ ΦΟΡ ΛΙΣΠ

000 █	040	100 e	140 '
001 ↓	041 !	101 A A	141 a α
002 α	042 "	102 B B	142 b β
003 β	043 #	103 C X	143 c χ
004 ^ ▽	044 \$	104 D Δ	144 d δ
005 ~	045 %	105 E E	145 e ε
006 €	046 &	106 F Φ	146 f φ
007 π	047 ' .	107 G Γ	147 g γ
010 λ	050 (	110 H H	150 h η
011 γ	051)	111 I I	151 i ι
012 δ	052 *	112 J ϕ	152 j ϑ
013 ↑	053 +	113 K K	153 k κ
014 ±	054 ,	114 L Λ	154 l λ
015 ⊕	055 -	115 M M	155 m μ
016 ∞	056 .	116 N N	156 n ν
017 ∂ ∂	057 /	117 O O	157 o ο
020 c	060 0	120 P Π	160 p π
021 >	061 1	121 Q Θ	161 q θ
022 η	062 2	122 R Ρ	162 r ρ
023 U	063 3	123 S Σ	163 s σ
024 V	064 4	124 T Τ	164 t τ
025 E	065 5	125 U Υ	165 u υ
026 ⊗	066 6	126 V Ϝ	166 v ϝ
027 ⇨	067 7	127 W Ω	167 w ω
030 ←	070 8	130 X Ξ	170 x ξ
031 →	071 9	131 Y Ψ	171 y ψ
032 ≠	072 :	132 Z Ζ	172 z ζ
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ΑΒΧΔΕΦΓΗΙϕΚΛΜΝΟΠΘΡΣΤΥϜΩΞΨΖ
αβχδεφγηιθκλμνοπθρστυςωξψζ

▽∂

ΤΗΕ ΣΙΧΚ ΒΡΟΩΝ ΘΥΤΞ ϕΥΜΠΕΔ ΟϕΕΡ ΤΗΕ ΛΑΖΨ ΦΡΟΓ

Τηε τιμε ηασ χομε τηε Ωαλρυσ σαιδ
Το ταλκ οφ μανψ τηινγσ
Οφ σηοεσ ανδ σηιπσ ανδ σεαλιγγ வாξ
Οφ χαββαγεσ ανδ κινγσ
Ανδ ωηψ τηε σεα ισ βοιλινγ ηοτ
Ανδ ωηετηερ πιγσ ηασε ωινγσ

000 ■	040	100 e	140 ' "
001 ↓	041 ! !	101 A א	141 a א
002 α א	042 " '	102 B ב	142 b ב
003 β	043 #	103 C ד	143 c
004 ^	044 \$	104 D ד	144 d
005 -	045 % ף	105 E ע	145 e
006 €	046 & צ	106 F פ	146 f ף
007 π א	047 ' "	107 G ג	147 g
010 λ ,	050 ( (	110 H ה	150 h
011 Y	051))	111 I י	151 i י
012 δ	052 *	112 J ע	152 j
013 ↑	053 + ץ	113 K כ	153 k כ
014 ±	054 , ,	114 L ל	154 l ל
015 ⊕	055 - -	115 M מ	155 m מ
016 ∞	056 . .	116 N נ	156 n נ
017 ∂ ך	057 /	117 O ו	157 o
020 c v	060 0	120 P פ	160 p פ
021 >	061 1	121 Q ק	161 q
022 n :	062 2	122 R ר	162 r
023 u \	063 3	123 S ש	163 s ש
024 v	064 4	124 T ט	164 t
025 E	065 5	125 U ו	165 u
026 ⊗	066 6	126 V ו	166 v ו
027 ⇨	067 7	127 W ת	167 w ת
030 ← -	070 8	130 X ח	170 x
031 →	071 9	131 Y י	171 y י
032 ≠	072 : :	132 Z ז	172 z
033 †	073 ; ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡ ..	076 >	136 ^	176 ~
037 √	077 ? ?	137 _	177 f

זיחתוטרקפונמלבעייגפערסבא
 ייחושפוסלביףבא

יחושפוסלביףבא?

דבא

גורם יואל עהט רעוו דעפמוע חויק נתורב כפיש עהט

000 ■	040	100 e	140 ' .
001 ↓	041 !	101 A א	141 a
002 α	042 "	102 B ב	142 b
003 β	043 #	103 C ג	143 c
004 ^	044 \$	104 D ד	144 d
005 -	045 %	105 E	145 e
006 €	046 & ז	106 F	146 f
007 π	047 ' .	107 G ח	147 g
010 λ	050 (	110 H ט	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J י	152 j
013 ↑	053 +	113 K כ	153 k
014 ±	054 ,	114 L ל	154 l
015 ⊙	055 -	115 M מ	155 m
016 ∞	056 .	116 N נ	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P פ	160 p
021 ∽	061 1	121 Q ק	161 q
022 n	062 2	122 R ר	162 r
023 u	063 3	123 S ש	163 s
024 v	064 4	124 T ט	164 t
025 ∃	065 5	125 U	165 u
026 ⊙	066 6	126 V ו	166 v
027 ⇄	067 7	127 W ן	167 w
030 ←	070 8	130 X ן	170 x
031 →	071 9	131 Y י	171 y
032 ≠	072 :	132 Z ז	172 z
033 ♦	073 ;	133 [173 {

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037 >

077 ?

137 -

177 J

036 =

076 <

136 >

176 ~

035 >

075 =

135]

175 }

034 <

074 <

134 \

174 |

000 █	040	100 @ @	140 ' '
001 ↓ ↓	041 ! !	101 A Ā	141 a ā
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C Ć	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E Ē	145 e ē
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G Ğ	147 g ğ
010 λ λ	050 ( (	110 H H	150 h h
011 Y	051))	111 I Ī	151 i ī
012 δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K Ķ	153 k ķ
014 ±	054 , ,	114 L Ļ	154 l ļ
015 ø	055 - -	115 M M	155 m m
016 ∞ ∞	056 . .	116 N Ņ	156 n ņ
017 ð ð	057 / /	117 O O	157 o o
020 c c	060 ø ø	120 P P	160 p p
021 ɔ ɔ	061 1 1	121 Q Q	161 q q
022 n n	062 2 2	122 R R	162 r r
023 u u	063 3 3	123 S Š	163 s š
024 v v	064 4 4	124 T T	164 t t
025 ɛ ɛ	065 5 5	125 U Ū	165 u ū
026 ø ø	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Ž	172 z ž
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 v v	077 ? ?	137 _ _	177 f █

ĀBCĎĒĜĤĪJKĻMŅOPQRŠTŪVWXYŽ
 ābcđēfĝhĭjķļmņopqŗštūvwxyž
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_{}~█
 ↓αβλ~επλ↑∞ðcɔnuyɛø↔→≠♦≤≥v

THE ŠTĪĶ BROWN QŪŪX JŪMPĒD OVĒR THE ĻĀŽY FROĢ.

"Thē tīmē hās cōmē," thē Wā|ŗūš sātđ,
 "To tāĵk of māny thīŋģš;
 Of šhoēs, ānd šhīpš, ānd sēā|ŭŋģ wāx,
 Of čābbāģēs ānd ķŭŋģš,
 Ānd why thē sēā īš boŭ|ŭŋģ hot,
 Ānd whēther, pīģš hāvē wŭŋģš."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR ŁTSP
  (COND ((NULL X) Y)
        (T (CONS (CHAR X) (APPEND (CHR X) Y)))))
  
```

```

LOOP: ŠĶĪPĀ B, [440700,, [ĀŠĶĪŽ \FOOBĀR\]] ;loop to print chars
      .TOT TYOČ, Ā
      ĪLDB Ā, B
      JUMPŅ Ā, LOOP ;jump un|ēšš tērmŭŋātŭŋģ ņŭ||
  
```

000 █	040	100 @ @	140 ' '
001 ↓ ↓	041 ! !	101 A A	141 a a
002 α α	042 " "	102 B B	142 b b
003 β β	043 # #	103 C C	143 c c
004 ^ ^	044 \$ \$	104 D D	144 d d
005 ~ ~	045 % %	105 E E	145 e e
006 € €	046 & &	106 F F	146 f f
007 π π	047 ' '	107 G G	147 g g
010 λ λ	050 ( (	110 H H	150 h h
011 Υ Υ	051))	111 I I	151 i i
012 δ δ	052 * *	112 J J	152 j j
013 ↑ ↑	053 + +	113 K K	153 k k
014 ± ±	054 , ,	114 L L	154 l l
015 ⊕ ⊕	055 - -	115 M M	155 m m
016 ∞ Å	056 . .	116 N N	156 n n
017 ∂ å	057 / /	117 O O	157 o o
020 c Ö	060 ø ø	120 P P	160 p p
021 ɔ ö	061 1 1	121 Q Q	161 q q
022 n Æ	062 2 2	122 R R	162 r r
023 U ä	063 3 3	123 S S	163 s s
024 V v	064 4 4	124 T T	164 t t
025 Э э	065 5 5	125 U U	165 u u
026 ⊙ ⊙	066 6 6	126 V V	166 v v
027 ↔ ↔	067 7 7	127 W W	167 w w
030 ← ←	070 8 8	130 X X	170 x x
031 → →	071 9 9	131 Y Y	171 y y
032 ≠ ≠	072 : :	132 Z Z	172 z z
033 ♦ ♦	073 ; ;	133 [ [	173 { {
034 ≤ ≤	074 < <	134 \ \	174 | |
035 ≥ ≥	075 = =	135]]	175 } }
036 ≡ ≡	076 > >	136 ^ ^	176 ~ ~
037 ∨ ∨	077 ? ?	137 _ _	177 / /

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#%&'()*+,-./:;<=>?[\]^_`{|}~f
 ↓αβ∧-επλγδ↑±⊕ÅåÛöÄäVЭ⊙↔←→≠♦≤≥≡

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

LOOP:   SKIP A B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
        .IOT TYOC, A
        ILDB A, B
        JUMPN A, LOOP ;jump unless terminating null
  
```


000 █	040	100 e	140 ' ,
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 -	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' ~	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 u	063 3	123 S	163 s
024 v	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ⇄	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }

036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

εραδραλβαλιεαζωκααργυροβα"ε
*ho' adl. q'za' n'p' n'gal

ε~:β)
ζαγδ

ρλα βιδε μαγατω οο εφομρμφο αβαλλ ρλα ζεβ" ηγαα.

pd' h' d' θ' ^' hd' α' ζ' n' θ' θ' ho
 p' h' ζ' q' ^' *ααη hcl' αιαδθ:
 α θ' d' ^' θ' *ααη θ' d' θ' *ααη θ' ^' ζ' αιαδ n'
 α *α' α' θ' *ααη θ' αιαδθ
 ααηηο ncl' η hcl' θ' ^' θ' ^' ζ' αιαδ d' h
 ααηηο ncl' hcl' n' α' d' d' ^' n' αιαδθ.

ρολβοω ερρλωφο " :ερρλωφο βομαδριαω βαγ ζι6ρ
 δαιωφο ποζζ " p δαιω6 δεγ ερρλωφο θρωγ "

ζαιαρ βαιρε με6διδε ηβαιμαεγ) :ζ' ^' h' n' αιη d' θ' θ'
 αιαρ p' αδε
 ιζρωμ εμ
 εφομρμφο εζαιαρ : ' αιζ' θ' θ' h' n' αι' h' αιαδ αι' ζζ

SYMBOLS AND SPECIAL CHARACTERS

All fonts containing symbols and special characters which are meant to be used in normal text appear in this division. This includes all mathematical symbols and special typographic characters. There are no fonts for two-dimensional layout or pictures.

There are no standard character assignments among these fonts, so check the actual sample sheets for the character of your choice. Some fonts will contain characters of zero-width which are made to be superimposed on the following character. Accents and notational modifiers are of this nature, but not all will be zero-width. There is unfortunately no way to indicate such characters in the font samples. We can only warn the user that these things exist.

The division is further divided into two families: Mathematical Symbols and Miscellaneous Symbols. These are not mutually exclusive. You will find several non-math symbols in the former and even more math symbols in the latter. The grouping is a convenience based on the majority of characters in a font.

Symbols and Special Characters

Family: Mathematical Symbols

The Computer Modern mathematics symbols are probably the most complete and have the advantage of consistency between sizes. They were also designed by a mathematician, so there are most of the right ones. The CMATHX KST font is an extended set containing several sizes of some characters, and parts of others which allows very big characters (like large parentheses) to be constructed.

The TIMES 12MTH1 font was an experiment in using the Times family for math typesetting. In addition to several math symbols, it contains the TIMES 12ITAL alphabetic, but these are not kerned (that is, they will not overlap as normal italics should) so that spacing will not be too screwed up.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
TEXFNT; CMSY5 KST	V	18	13	26	23	--	--	
TEXFNT; CMSY6 KST	V	22	16	29	25	--	--	
TEXFNT; CMSY7 KST	V	25	18	34	29	--	--	
FONTS; S25SYM KST	V	25	20	24	10	--	--	
TEXFNT; CMSY8 KST	V	29	21	36	31	--	--	
FONTS; PLUNK KST	V	30	21	26	20	--	--	
TEXFNT; CMSY9 KST	V	32	23	39	33	--	--	
FONTS1; QRZ KST	V	30	22	31	--	--	--	
FONTS1; MATH 12PT	V	33	25	34	15	--	--	
FONTS; TIMES 12MTH1	V	33	25	34	17	--	--	for use with Times in math
FONTS1; PSYMBL KST	V	34	25	27	--	--	--	
TEXFNT; CMSY10 KST	V	36	26	42	36	--	--	
FONTS1; QRP KST	F	40	33	25	--	--	--	
FONTS1; SCOTT KST	V	40	30	51	20	--	--	
FONTS1; SIGMA KST	V	40	33	16	--	--	--	
FONTS1; MATH 18PT	V	50	38	55	17	--	--	
FONTS; S53SYM KST	V	53	35	34	10	--	--	
FONTS1; SPLUNK KST	V	60	47	40	12	--	--	
FONTS1; MATH 24PT	V	67	50	34	17	--	--	
TEXFNT; CMATHX KST	V	108	27	70	23	--	--	

000 █	040	100 e	140 ' .
001 ↓ (	041 ! □	101 A α	141 a
002 α {	042 " "	102 B	142 b
003 β \	043 # †	103 C	143 c C
004 ^ ^	044 \$ §	104 D	144 d
005 ~ }	045 % ‡	105 E ε	145 e ε
006 € }	046 &	106 F	146 f ε
007 π }	047 ' ' .	107 G	147 g €
010 λ	050 (<	110 H h	150 h
011 γ	051) >	111 I f	151 i
012 δ	052 * x	112 J	152 j
013 ↑	053 + ±	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 - ∓	115 M	155 m
016 ∞	056 . ·	116 N	156 n IN
017 ∂ ∇	057 / +	117 O	157 o °
020 c	060 0 i	120 P Π	160 p
021 ∩	061 1 l	121 Q	161 q Q
022 ∩	062 2 √	122 R Σ	162 r R
023 U ∫	063 3 ⊕	123 S Σ	163 s
024 V ∫	064 4 ⊗	124 T c	164 t
025 ∃ ∫	065 5 ∩	125 U c	165 u
026 ⊕ ∫	066 6 U	126 V c	166 v √
027 + ∫	067 7 \	127 W c	167 w
030 ← /	070 8 |	130 X φ	170 x
031 → /	071 9 /	131 Y ∩	171 y
032 ≠ \	072 : =	132 Z	172 z Z
033 ∓	073 ; ⊥	133 [	173 [
034 ≤	074 < ≪	134 \	174 |
035 ≥	075 = ≫	135]	175]
036 ≡ ≈	076 > ≫	136 ^ ^	176 ~
037 √	077 ? ,	137 _	177 f

αεη/ΠΣΣΣcφc∩φ∩
 Cεε∉IN°QR^Z
 il√⊕⊗∩U\|/
 □†‡‡'(<)x±∓·∩∩≪≈≈,^~
 (()) ∇ ∩ ∩ ∫ / \ ≈

c h ε Σ ∫ Σ ∩ φ φ φ φ Π ε c ε Σ c h ε α ∩ Σ .

"cε ∈ C°ε" ∈ ∩ R
 "c° ° ∩ IN IN ∉ ⊥
 ∩ ° ∈ IN IN ∈ IN ∉
 ∩ C ∉ ∈ IN IN ∉
 α IN ∈ ∈ ° IN ∉ °
 α IN ∈ ∈ R ∉ √ ∈ IN ∉ "

<εφ αΠΠε <φ ∩ >
 < <<φ φ ∩ >
 <c <Σ <αΣ φ> <αΠΠε <Σ φ ∩ >>>>>

Σ ∫ Π α ⊗ ⊗ i \ i i α Σ ∫ ~ α Σ ~ ~ ∩ ° ° RN CR
 Π ∩ ∫ c c ∩ α ∩ IN ∈ ER IN IN ∉ IN
 ∫ α
 φ Π α Π ∩ IN ∈ ER IN IN ∉ IN

000	█	040		100	Ⓢ	X	140	ˆ
001	↓	041	!	101	A	À	141	a
002	α	042	"	102	B	Ā	142	b
003	β	043	#	103	C	Ĉ	143	c
004	^	044	\$	104	D	Ď	144	d
005	~	045	%	105	E	Ě	145	e
006	€	046	&	106	F	Ĝ	146	f
007	π	047	'	107	G	Ğ	147	g
010	λ	050	(	110	H	Ĥ	150	h
011	Υ	051	)	111	I	İ	151	i
012	δ	052	*	112	J	Ĵ	152	j
013	↑	053	+	113	K	Ķ	153	k
014	±	054	,	114	L	Ĺ	154	l
015	⊕	055	-	115	M	Ļ	155	m
016	∞	056	.	116	N	Ń	156	n
017	∂	057	/	117	O	Ń	157	o
020	c	060	0	120	P	Ń	160	p
021	⊃	061	1	121	Q	Ń	161	q
022	n	062	2	122	R	Ń	162	r
023	u	063	3	123	S	Ń	163	s
024	v	064	4	124	T	Ń	164	t
025	∃	065	5	125	U	Ń	165	u
026	⊗	066	6	126	V	Ń	166	v
027	↔	067	7	127	W	Ń	167	w
030	←	070	8	130	X	Ń	170	x
031	→	071	9	131	Y	Ń	171	y
032	⌘	072	:	132	Z	Ń	172	z
033	⌘	073	;	133	[	Ń	173	{
034	≤	074	<	134	\	Ń	174	|
035	≥	075	=	135	]	Ń	175	}
036	≡	076	>	136	^	Ń	176	~
037	v	077	?	137	_	Ń	177	ſ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 CRIQZNN
 !"°.: '() . + - ° / ÷ ÷ < = > ? [] { } ~
 ↓ α λ ^ ~ ± ⊕ ∞ ∂ c ⊃ n u v ∃ ⊗ ↔ ← → ⌘ ≤ ≥ ≡ v

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come" the Walrus said
 "To talk of many things=
 Of shoes and ships and sealing wax
 Of cabbages and kings
 And why the sea is boiling hot
 And whether pigs have wings="

```

(DEFUN APPEND (X Y)                               ≐APPEND FUNCTION FOR LIST
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

SKIPIA B[ZZCCC[ASCIZ ||FOOBAR||]] ≐loop to print chars
LOOP÷ ○IOT TYOCA
  
```


000	█	040	100	e	140	'		
001	↓	041	!	101	A	141	a	
002	α	042	"	102	B	142	b	
003	β	043	#	103	C	143	c	
004	^	044	\$	104	D	144	d	
005	-	045	%	105	E	145	e	
006	ε	046	&	106	F	146	f	
007	π	047	'	107	G	147	g	
010	λ	050	(	110	H	150	h
011	Υ	051)	111	I	∫	151	i
012	δ	052	*	112	J	152	j	
013	↑	053	+	113	K	153	k	
014	±	054	,	114	L	154	l	
015	⊕	055	-	115	M	155	m	
016	∞	056	.	116	N	156	n	
017	∂	057	/	117	O	157	o	
020	c	060	∅	120	P	π	160	p
021	▷	061	1	121	Q	161	q	
022	∩	062	2	122	R	162	r	
023	∪	063	3	123	S	Σ	163	s
024	V	064	4	124	T	164	t	
025	∃	065	5	125	U	∪	165	u
026	⊗	066	6	126	V	166	v	
027	↔	067	7	127	W	167	w	
030	←	070	8	130	X	170	x	
031	→	071	9	131	Y	171	y	
032	≠	072	:	132	Z	172	z	
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|	
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~	
037	∇	077	?	137	_	177	∫	

∫πΣ∪

'

→

Σ∫∪∪∪π

000 █	040	100 e	140 ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L ℓ	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ⊃	061 1	121 Q	161 q
022 ∩	062 2	122 R	162 r
023 U	063 3	123 S Σ	163 s
024 ∪	064 4	124 T	164 t
025 ∃	065 5	125 U U	165 u
026 ⊙	066 6	126 V	166 v
027 ↔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f



000 █	040	100 e	140 ' [
001 ↓	041 !	101 A	141 a [
002 α	042 "	102 B	142 b [
003 β	043 #	103 C	143 c [
004 ^	044 \$	104 D	144 d [
005 ~	045 %	105 E	145 e [
006 €	046 &	106 F	146 f [
007 π	047 ' }	107 G	147 g [
010 λ	050 ({	110 H	150 h [
011 γ	051) }	111 I ∫	151 i [
012 δ	052 *	112 J	152 j [
013 ↑	053 +	113 K	153 k [
014 ±	054 ,	114 L	154 l [
015 ⊙	055 -	115 M	155 m [
016 ∞	056 .	116 N	156 n [
017 ∂	057 / /	117 O	157 o [
020 c	060 Ø	120 P ∏	160 p [
021 ∃	061 1	121 Q	161 q [
022 n ∩	062 2 ✓	122 R	162 r [
023 u U	063 3	123 S ∑	163 s [
024 v	064 4	124 T	164 t [
025 ∃	065 5	125 U	165 u [
026 ⊙	066 6	126 V	166 v [
027 ⇄	067 7	127 W	167 w [
030 ←	070 8	130 X	170 x [
031 →	071 9	131 Y	171 y [
032 ≠	072 :	132 Z	172 z [
033 ♦	073 ;	133 [ [	173 { [
034 ≤	074 <	134 \	174 | [
035 ≥	075 =	135]]	175 } [
036 ≡	076 >	136 ^	176 ~ [
037 v	077 ?	137 _	177 ∫ [

000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 '	107 G	147 g
010 λ	050 ( (	110 H	150 h
011 γ	051))	111 I ∫	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 @	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 u	063 3	123 S Σ	163 s
024 v	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 @	066 6	126 V	166 v
027 ↔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [ [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]]	175 }

Codes 036, 037, 076, 077, 136, 137, 176, and 177 are undefined for this font.

000 ■	040	100 e	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 -	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 '	107 G	147 g
010 λ	050 ( (	110 H	150 h
011 γ	051))	111 I	151 i
012 s	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M ∫	155 m ∫
016 ∞	056 .	116 N	156 n
017 ∂	057 / /	117 O	157 o
020 c	060 0	120 P ∏	160 p
021 ∃	061 1	121 Q √	161 q
022 n	062 2	122 R	162 r
023 u	063 3	123 S ∑	163 s
024 v	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊕	066 6	126 V	166 v
027 ⇔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y <	171 y >
032 ≠	072 :	132 Z [	172 z]

033 ♦	073 ;	133 [173 {
034 ≤	074 <	134 \	174
035 ≥	075 =	135]	175 } }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 /

∫Π√Σ<[
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 O/Π}

Σ √ ∫Π [<
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>

(ΠΠ (◊ ΠΠ ΣΠ

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((Σ () (ΠΠ () ◊))))

ΣΠ [Σ[]

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∫Π Π

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000 ■	(040	{	100 e)	140 ' 0
001 ↓)	041 !	}	101 A)	141 a 0
002 α	[042 "		102 B		142 b 0
003 β]	043 #		103 C		143 c
004 ^	[044 \$		104 D		144 d 3
005 -	]	045 %	|	105 E		145 e 3
006 ε	[	046 &	|	106 F	U	146 f 2
007 π	]	047 '	|	107 G	U	147 g 3
010 λ	{	050 (	{	110 H	f	150 h
011 γ	}	051)	}	111 I	f	151 i
012 δ	<	052 *	~	112 J	⊙	152 j
013 ↑	>	053 +	~	113 K	⊙	153 k
014 ±	|	054 ,	/	114 L	⊕	154 l
015 ⊕	||	055 -	/	115 M	⊕	155 m
016 ∞	/	056 .	⊗	116 N	⊗	156 n
017 ∂	/	057 /	⊗	117 O	⊗	157 o

020 c	(	060 0	(	120 P	Σ	160 p	✓
021 >	)	061 1	)	121 Q	Π	161 q	✓
022 n	(	062 2	[	122 R	∫	162 r	✓
023 u	)	063 3	]	123 S	∪	163 s	✓
024 v	[	064 4	[	124 T	∩	164 t	✓
025 z	]	065 5	]	125 U	⊕	165 u	|
026 ⊙	[	066 6	|	126 V	∧	166 v	Γ
027 ⇔	]	067 7	|	127 W	∨	167 w	
030 ←	[	070 8	(	130 X	Σ	170 x	▶
031 →	]	071 9	)	131 Y	Π	171 y	↗
032 ≠	{	072 :	⌋	132 Z	∫	172 z	⌋
033 ♦	}	073 ;	)	133 [	∪	173 {	⌋
034 ≤	<	074 <	}	134 \	∩	174 |	⌋
035 ≥	>	075 =	}	135]	⊕	175 }	⌋
036 ≡	/	076 >	.	136 ^	∧	176 ~	G
037 √	/	077 ?		137 -	∨	177 f	⊕

Symbols and Special Characters

Family: Miscellaneous Symbols

Fonts which are not clearly meant for mathematics are contained here. This includes fonts with small characters whose relative baselines have been raised or lowered to function as subscripts and superscripts. Since virtually all of our text formatting systems are capable of doing this by other means, these fonts could be flushed. We include them here only for completeness.

In addition, some programming and alternative language fonts, the APL and IPA fonts in particular, are placed here.

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTSl; 2AS KST	V	2	2	20	4	--	--	leaders and underlining
FONTSl; SUBSUB KST	V	14	0	13	5	10	7	sub-subscripts
FONTSl; SUPSUP KST	V	14	36	13	5	10	7	super-superscripts
FONTSl; SUB KST	V	21	9	20	8	16	13	subscripts
FONTSl; SUP KST	V	21	28	20	8	16	13	superscripts
FONTSl; SYMBOL 8PT	V	22	16	14	--	--	--	typographical symbols
FONTSl; S25APL KST	V	25	20	27	10	20	--	APL font
FONTSl; S25IPA KST	F	25	20	16	16	20	17	Int'l Phonetic Alphabet (partial)
FONTSl; SMKBD KST	F	25	0	0	0	--	--	for video terminal display
FONTSl; ARROW3 KST	V	26	8	59	--	--	--	for video terminal display
FONTSl; SYMBOL 10PT	V	28	21	16	--	--	--	typographical symbols
FONTSl; 31AS KST	V	31	24	33	12	--	--	originally for the R manual
FONTSl; JDBSPC KST	V	32	24	26	--	--	--	
FONTSl; SYMBOL 12PT	V	33	25	20	--	--	--	typographical symbols
FONTSl; SYMBOL 18PT	V	50	38	30	--	--	--	typographical symbols
FONTSl; SYMBOL 24PT	V	67	50	39	--	--	--	typographical symbols

000	█	040	100	@	140	'
001	↓	041	101	A	141	a
002	α	042	102	B	142	b
003	β	043	103	C	143	c
004	^	044	104	D	144	d
005	→	045	105	E	145	e
006	◁	046	106	F	146	f
007	π	047	107	G	147	g
010	λ	050	110	H	150	h
011	Υ	051	111	I	151	i
012	δ	052	112	J	152	j
013	↑	053	113	K	153	k
014	±	054	114	L	154	l
015	⊕	055	115	M	155	m
016	∞	056	116	N	156	n
017	∂	057	117	O	157	o
020	◡	060	120	P	160	p
021	▷	061	121	Q	161	q
022	∩	062	122	R	162	r
023	U	063	123	S	163	s
024	V	064	124	T	164	t
025	∃	065	125	U	165	u
026	⊙	066	126	V	166	v
027	+	067	127	W	167	w
030	†	070	130	X	170	x
031	→	071	131	Y	171	y
032	⌘	072	132	Z	172	z
033	◇	073	133	[	173	{
034	≤	074	134	\	174	|
035	≥	075	135	]	175	}
036	≡	076	136	^	176	~
037	∨	077	137	_	177	ƒ

000 █	040	100 @	140 ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 Y	051)	111 I	151 i
012 S	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 E	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ⇄	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!@#\$%^&*()-+=?[\|/;

~`~'~"~#~\$~%~&~*~)~(~)~{~}~|~_~.~:~;~<~>~?~@~#~\$~%~&~*~)~(

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things:

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))

SKIP A B,[440700,[ASCIZ \FOOBAR\]]

loop to print chars

LOOP: JOY TYOCA

000 █	040	100 @	140 ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 -	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 Υ	051)	111 I	151 i
012 s	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ∩	061 1	121 Q	161 q
022 ∩	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊕	066 6	126 V	166 v
027 ⇨	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!@#\$%^&*()-+=~?{}|~|

[UVW]@-_-#SDV

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things:

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

000 █	040	100 e	140 ' ,
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' ,	107 G	147 g
010 λ	050 ( (	110 H	150 h
011 Y	051))	111 I	151 i
012 S	052 * *	112 J	152 j
013 ↑	053 + +	113 K	153 k
014 ±	054 , ,	114 L	154 l
015 ⊕	055 - -	115 M	155 m
016 ∞	056 . .	116 N	156 n
017 ∂	057 / /	117 O	157 o
020 C	060 0 0	120 P	160 p
021 ⊃	061 1 1	121 Q	161 q
022 n	062 2 2	122 R	162 r
023 U	063 3 3	123 S	163 s
024 V	064 4 4	124 T	164 t
025 ∃	065 5 5	125 U	165 u
026 ⊗	066 6 6	126 V	166 v
027 ⇨	067 7 7	127 W	167 w
030 ⇐	070 8 8	130 X	170 x
031 →	071 9 9	131 Y	171 y
032 ×	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

!"#\$%&'()*+,-./:;<=>?[_{}~

↓αβγδελζηθικςπρστυφχψω∞∂∃⊕⊗⇨⇐→×

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,

"To talk of many things;

Of shoes, and ships, and sealing wax,

Of cabbages and kings,

And why the sea is boiling hot,

And whether pigs have wings."

(DEFUN APPEND (X Y)

;APPEND FUNCTION FOR LISP

(COND ((NULL X) Y)

(T (CONS (CAR X) (APPEND (CDR X) Y))))))

SKIP A,B,[440700,;[ASCIZ \FOOBAR\]]

;loop to print chars

LOOP: .IOT TYOC,A

ILDB A,B

JUMPN A,LOOP

;jump unless terminating null

000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	# ■	103	C	143	c
004	∧	044	\$ ●	104	D	144	d
005	¬	045	% *	105	E	145	e
006	€	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	▷	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	∃	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≠	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	∨	077	?	137	_	177	ƒ

000 █	040	100 e ←	140 ' →
001 ↓ ;	041 ! (	101 A α	141 a A
002 α :	042 ")	102 B l	142 b B
003 β [	043 #]	103 C n	143 c C
004 ^ ^	044 \$ \$	104 D l	144 d D
005 ~ !	045 % =	105 E €	145 e E
006 € φ	046 & x	106 F _	146 f F
007 π φ	047 ' >	107 G v	147 g G
010 λ I	050 (v	110 H Δ	150 h H
011 Y	051) ^	111 I l	151 i I
012 δ	052 * ≠	112 J .	152 j J
013 ↑	053 + ÷	113 K '	153 k K
014 ±	054 , ,	114 L □	154 l L
015 ⊕	055 - +	115 M |	155 m M
016 ∞ □	056 . .	116 N T	156 n N
017 ∂ ⊙	057 / /	117 O o	157 o O
020 c ^	060 0 0	120 P *	160 p P
021 ∩ ∨	061 1 1	121 Q ?	161 q Q
022 ∩ ∩	062 2 2	122 R ρ	162 r R
023 U Δ	063 3 3	123 S [	163 s S
024 V ∇	064 4 4	124 T ~	164 t T
025 ∃ ⊙	065 5 5	125 U ↓	165 u U
026 ⊙ /	066 6 6	126 V U	166 v V
027 ⇨ \	067 7 7	127 W	167 w W
030 ← x	070 8 8	130 X ∩	170 x X
031 → ∇	071 9 9	131 Y ↑	171 y Y
032 ≠ ⊕	072 : <	132 Z c	172 z Z
033 ∠ ⊕	073 ; <	133 [{	173 { V
034 ≤ ⊕	074 < -	134 \	174 | ∃
035 ≥ ⊕	075 = ..	135] }	175 } ⇨
036 ≡ \$	076 > >	136 ^	176 ~
037 v ⊕	077 ? \	137 _ -	177 f

α1n[ε_∇Δl·□|to*?ρf~↓u>↑c
 ABCDEFGHIJKLMNOPQRSTUVWXYZ
 0123456789
 () \$ % ^ > ∨ ^ ≠ + , / < < ~ · > \ { } - ∨ ∃ ⇨
 :: [! φ φ I □ ⊙ ^ ∨ ∩ Δ ∇ ∇ / \ x ∇ ⊕ ⊕ ⊕ ⊕ \$ ⊕

~Δε |n' lpot ?↓> ∙|*ε| ouερ ~Δε □αc↑ _ρov.

*)~HE TIME HAS COME,) THE ALRUS SAID,
)~O TALK OF MANY THINGS<
 OF SHOES, AND SHIPS, AND SEALING WAX,
 OF CABBAGES AND KINGS,
 AND WHY THE SEA IS BOILING HOT,
 AND WHETHER PIGS HAVE WINGS.)*

v[ε_↓T α**εT| v> ↑^ <α**εT| _↓Tn~10T _op [l]*
 vnot| vvt↓□□ >^ ↑^
 v~ vnot| vnaρ >^ vα**εT| vn|ρ >^ ↑^AAAA

[r*α l,{440700,,{α[nlc _oo1αρ}} <LOOP TO PRINT CHARS

□oo*≤ .10~ ~↑on,α
 1□l α,l
 ∙↓*T α,□oo*

<JUMP UNLESS TERMINATING NULL

000	␣	040		100	e	e	140	'	'
001	↓	041	!	101	A	A	141	a	a
002	α	042	"	102	B	B	142	b	b
003	β	043	#	103	C	C	143	c	c
004	^	044	\$	104	D	D	144	d	d
005	¬	045	%	105	E	E	145	e	e
006	ε	046	&	106	F	F	146	f	f
007	π	047	'	107	G	G	147	g	g
010	λ	050	(	110	H	H	150	h	h
011	Υ	051	)	111	I	I	151	i	i
012	δ	052	*	112	J	J	152	j	j
013	↑	053	+	113	K	K	153	k	k
014	±	054	,	114	L	L	154	l	l
015	⊕	055	-	115	M	M	155	m	m
016	∞	056	.	116	N	N	156	n	n
017	∂	057	/	117	O	O	157	o	o
020	c	060	0	120	P	P	160	p	p
021	⊃	061	1	121	Q	Q	161	q	q
022	∩	062	2	122	R	R	162	r	r
023	U	063	3	123	S	S	163	s	s
024	Υ	064	4	124	T	T	164	t	t
025	∃	065	5	125	U	U	165	u	u
026	⊗	066	6	126	V	V	166	v	v
027	↔	067	7	127	W	W	167	w	w
030	←	070	8	130	X	X	170	x	x
031	→	071	9	131	Y	Y	171	y	y
032	≠	072	:	132	Z	Z	172	z	z
033	≠	073	;	133	[	[	173	{	{
034	≤	074	<	134	\	\	174	|	|
035	≥	075	=	135	]	]	175	}	}
036	≡	076	>	136	^	^	176	~	~
037	v	077	?	137	_	←	177	ƒ	ƒ

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 0123456789
 !"#\$%&'()*+,-./:;<=>?[\]^_`{|}~
 ↓!cλæουλθσ̄ηθ̄ς̄f̄ð̄ζ̄?_→i#≤≥čj

THE SICK BROWN QUUX JUMPED OVER THE LAZY FROG.

"The time has come," the Walrus said,
 "To talk of many things;
 Of shoes, and ships, and sealing wax,
 Of cabbages and kings,
 And why the sea is boiling hot,
 And whether pigs have wings."

```

(DEFUN APPEND (X Y) ;APPEND FUNCTION FOR LISP
  (COND ((NULL X) Y)
        (T (CONS (CAR X) (APPEND (CDR X) Y)))))

LOOP: SKIPA B, [440700,, [ASCIZ \FOOBAR\]] ;loop to print chars
      .IOT TYOC,A
      ILDB A,B
      JUMPN A,LOOP ;jump unless terminating null
  
```

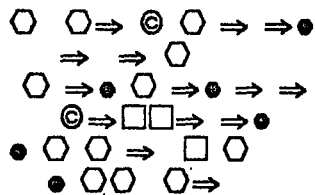
000	█	040		100	e	140	·
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	-	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	▷	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	E	065	5	125	U	165	u
026	⊙	066	6	126	V	166	v
027	+	067	7	127	W	167	w
030	†	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	⋈	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	√	077	?	137	_	177	ƒ



000	█	040		100	@	140	'
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	# █	103	C	143	c
004	^	044	\$ ●	104	D	144	d
005	¬	045	% ★	105	E	145	e
006	€	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∩	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	E	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	⊕	067	7	127	W	167	w
030	↑	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	*	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	f

000	█	040		100	e	140	'
001	↓	041	!	101	A	141	a ⇒
002	α	042	"	102	B	142	b □
003	β	043	#	103	C	143	c ⊙
004	^	044	\$	104	D	144	d ●
005	~	045	%	105	E	145	e
006	ε	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h ○
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	∅	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∪	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	E	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	↔	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	≈	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	√	077	?	137	_	177	f

⇒ □ ⊙ ● ○



⊙ ○ ⇒

⇒

000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 # █	103 C	143 c
004 ^	044 \$ ●	104 D	144 d
005 ~	045 % ★	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 '	107 G	147 g
010 λ	050 (	110 H	150 h
011 Υ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ∩	061 1	121 Q	161 q
022 ∩	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊗	066 6	126 V	166 v
027 ↔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

█●★

000 ■	040	100 e	140 ' .
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 # ■	103 C	143 c
004 ^	044 \$ ●	104 D	144 d
005 ~	045 % ★	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' .	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 u	063 3	123 S	163 s
024 v	064 4	124 T	164 t
025 E	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ↔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

000 ■	040	100 e	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B	142 b
003 β	043 # ■	103 C	143 c
004 ^	044 \$ ●	104 D	144 d
005 -	045 % ★	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 '	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ∃	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 u	063 3	123 S	163 s
024 v	064 4	124 T	164 t
025 ∫	065 5	125 U	165 u
026 ⊗	066 6	126 V	166 v
027 ↔	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z

GRAPHIC FONTS

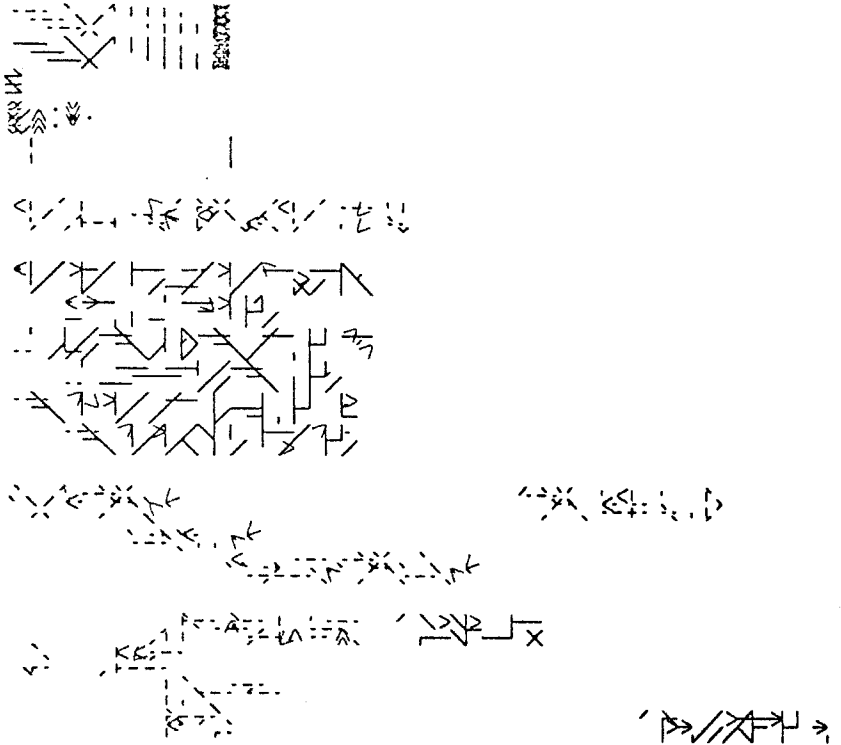
The final division is for all the graphic fonts, those which contain pictures or characters for layouts and drawing. The larger fonts typically have only a few characters and are not presented in the usual XGP sample page format. For many applications the user may want the exact sizes of a picture, we have provided custom-made pages that show the character and give all the size information about it which is in the font. For an explanation of the terms, see Appendix Three on the KST font format.

There are two files below which contain the MIT logotype. They are provided for convenience in making letterheads, and it is assumed that the user will exercise good judgment when using them.

Graphic Fonts

Font Name	Pitch	HT	BL	MW	SW	XC	XL	
FONTSI; 32FIG KST	V	32	23	16	16	--	--	figure drawing
FONTSI; CRTURZ KST	V	155	0	200	--	--	--	our favorite animals
FONTSI; DANCER KST	F	46	36	47	47	--	--	
FONTSI; ENT KST	V	170	0	640	--	--	--	U.S.S. Enterprise
FONTSI; JDBFNT KST	V	32	23	24	16	--	--	
FONTSI; MIT KST	V	142	142	160	--	--	--	MIT logo
FONTSI; MITBIG KST	F	226	226	241	--	--	--	large MIT logo
FONTSI; O20 KST	F	20	20	20	20	--	--	
FONTSI; RUNLEN KST	V	3	3	96	18	--	--	
FONTSI; S50CHS KST	V	50	40	50	50	--	--	chessboard layout
FONTSI; STEML KST	F	28	28	28	28	--	--	
FONTSI; S25CHP KST	V	25	23	34	--	--	--	chess pieces

000	█	040		100	@	140	*
001	↓	041	!	101	A	141	a
002	α	042	"	102	B	142	b
003	β	043	#	103	C	143	c
004	^	044	\$	104	D	144	d
005	~	045	%	105	E	145	e
006	c	046	&	106	F	146	f
007	π	047	'	107	G	147	g
010	λ	050	(	110	H	150	h
011	Υ	051	)	111	I	151	i
012	δ	052	*	112	J	152	j
013	↑	053	+	113	K	153	k
014	±	054	,	114	L	154	l
015	⊕	055	-	115	M	155	m
016	∞	056	.	116	N	156	n
017	∂	057	/	117	O	157	o
020	c	060	0	120	P	160	p
021	∩	061	1	121	Q	161	q
022	∪	062	2	122	R	162	r
023	U	063	3	123	S	163	s
024	V	064	4	124	T	164	t
025	E	065	5	125	U	165	u
026	⊗	066	6	126	V	166	v
027	⊕	067	7	127	W	167	w
030	←	070	8	130	X	170	x
031	→	071	9	131	Y	171	y
032	*	072	:	132	Z	172	z
033	◇	073	;	133	[	173	{
034	≤	074	<	134	\	174	|
035	≥	075	=	135	]	175	}
036	≡	076	>	136	^	176	~
037	v	077	?	137	_	177	∫



Character code 101 A

Height 150
 Baseline 0
 Raster width 100
 Character width 100
 Left kern 0

101 A



Character code 102 B

Height 150
 Baseline 0
 Raster width 123
 Character width 123
 Left kern 0

102 B



Character code 103 C

Height 150
 Baseline 0
 Raster width 200
 Character width 200
 Left kern 0

103 C



Character code 104 D

Height 150
 Baseline 0
 Raster width 100
 Character width 100
 Left kern 0

104 D



Character code 141 a

Height 150
 Baseline 0
 Raster width 160
 Character width 160
 Left kern 0

141 a



Character code 142 b

Height 150
 Baseline 0
 Raster width 140
 Character width 140
 Left kern 0

142 b



Character code 143 c

Height 150
 Baseline 0
 Raster width 160
 Character width 160
 Left kern 0

143 c



000 ■	040	100 e	140 ' □
001 ↓	041 !	101 A A	141 a □
002 α	042 "	102 B B	142 b □
003 β	043 #	103 C C	143 c □
004 ^	044 \$	104 D D	144 d □
005 ~	045 %	105 E E	145 e □
006 €	046 &	106 F F	146 f
007 π	047 ' .	107 G G	147 g
010 λ	050 (	110 H H	150 h
011 Y	051)	111 I I	151 i
012 s	052 *	112 J J	152 j
013 ↑	053 + +	113 K K	153 k
014 ±	054 ,	114 L L	154 l
015 ⊕	055 - —	115 M M	155 m
016 ∞	056 . •	116 N N	156 n
017 ∂	057 /	117 O O	157 o
020 c	060 0 0	120 P P	160 p □
021 >	061 1 1	121 Q Q	161 q
022 n	062 2 2	122 R R	162 r
023 U	063 3 3	123 S S	163 s
024 V	064 4 4	124 T T	164 t
025 E	065 5 5	125 U U	165 u
026 ⊙	066 6 6	126 V V	166 v
027 ⇨	067 7 7	127 W W	167 w ■
030 ←	070 8 8	130 X X	170 x //
031 →	071 9 9	131 Y Y	171 y ⊕
032 ≠	072 :	132 Z Z	172 z □
033 ♦	073 ;	133 [	173 {
034 ≤	074 <	134 \	174 | |
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 v	077 ?	137 _	177 f

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 □ □ □ □ □ □ ■ // ⊕ □
 0 1 2 3 4 5 6 7 8 9

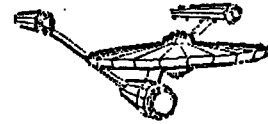
+ . |

. T H E S I C K B R O W N Q U U X J U M P E D O V

Character code 105 E

Height 170
Baseline 0
Raster width 268
Character width 500
Left kern -20

105 E



Character code 106 F

Height 170
Baseline 0
Raster width 368
Character width 640
Left kern -20

106 F



Character code 101 A

Height 142
Baseline 142
Raster width 160
Character width 160
Left kern 0

101 A



Character code 102 B

Height 142
Baseline 142
Raster width 75
Character width 75
Left kern 0

102 B



Character code 103 C

Height 142
Baseline 142
Raster width 85
Character width 85
Left kern 0

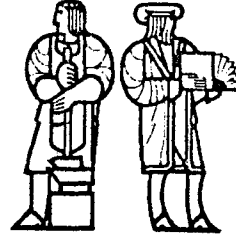
103 C



Character code 101 A

Height 226
Baseline 226
Raster width 241
Character width 241
Left kern 0

101 A



000 █	040	100 @	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B ☐	142 b
003 β	043 #	103 C	143 c
004 ^	044 \$	104 D	144 d
005 ~	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' (grave)	107 G	147 g
010 λ	050 (	110 H	150 h
011 γ	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 ⊃	061 1	121 Q	161 q
022 n	062 2	122 R	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 ∃	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ↔	067 7	127 W ☐	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ♦	073 ;	133 [173 {
034 ≤	074 <	134 \	174
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _ ☐	177 f

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
















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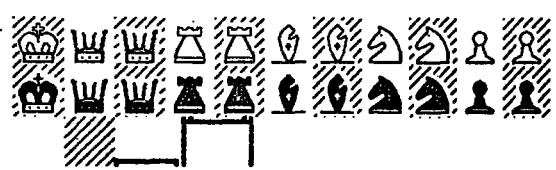
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000 █	040	100 e		140 ' 
001 ↓	041 !	101 A		141 a 
002 α	042 "	102 B		142 b 
003 β	043 #	103 C		143 c 
004 ^	044 \$	104 D		144 d 
005 -	045 %	105 E		145 e 
006 €	046 &	106 F		146 f 
007 π	047 ' (grave)	107 G		147 g 
010 λ	050 (	110 H		150 h 
011 Y	051)	111 I		151 i 
012 s	052 *	112 J		152 j 
013 ↑	053 +	113 K		153 k 
014 ±	054 ,	114 L		154 l
015 ⊕	055 -	115 M		155 m
016 ∞	056 .	116 N		156 n
017 ∂	057 /	117 O		157 o
020 c	060 Ø	120 P		160 p
021 >	061 1 	121 Q		161 q
022 n	062 2 .	122 R		162 r
023 U	063 3 	123 S		163 s
024 V	064 4	124 T		164 t
025 E	065 5 	125 U		165 u
026 ⊙	066 6 	126 V		166 v
027 ⇄	067 7 .	127 W		167 w
030 ←	070 8	130 X		170 x
031 →	071 9 	131 Y		171 y
032 ≠	072 :	132 Z		172 z
033 ♦	073 ;	133 [		173 {
034 ≤	074 <	134 \		174 |
035 ≥	075 =	135]		175 }
036 ≡	076 >	136 ^		176 ~
037 v	077 ?	137 _		177 f



000 █	040	100 e	140 '
001 ↓	041 !	101 A	141 a
002 α	042 "	102 B 𐀀	142 b
003 β	043 #	103 C 𐀁	143 c
004 ^	044 \$	104 D	144 d
005 -	045 %	105 E	145 e
006 €	046 &	106 F	146 f
007 π	047 ' (grave)	107 G	147 g
010 λ	050 (	110 H	150 h
011 Y	051)	111 I	151 i
012 δ	052 *	112 J	152 j
013 ↑	053 +	113 K 𐀂	153 k
014 ±	054 ,	114 L	154 l
015 ⊕	055 -	115 M	155 m
016 ∞	056 .	116 N 𐀃	156 n
017 ∂	057 /	117 O	157 o
020 c	060 0	120 P	160 p
021 >	061 1	121 Q 𐀄	161 q
022 n	062 2	122 R 𐀅	162 r
023 U	063 3	123 S	163 s
024 V	064 4	124 T	164 t
025 E	065 5	125 U	165 u
026 ⊙	066 6	126 V	166 v
027 ⇨	067 7	127 W	167 w
030 ←	070 8	130 X	170 x
031 →	071 9	131 Y	171 y
032 ≠	072 :	132 Z	172 z
033 ⋄	073 ;	133 [173 {
034 ≤	074 <	134 \	174
035 ≥	075 =	135]	175 }
036 ≡	076 >	136 ^	176 ~
037 √	077 ?	137 _	177 f

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APPENDICES

Appendix One: Font/Family Index

Following is a list of all the fonts which are displayed in this catalog. They are given alphabetically (ascending Ascii order) by first filename, regardless of home directory. Each font file is indexed by the family or division under which its sample page will be found in the main body of the catalog. This form of indexing is necessary since the sample pages are not numbered.

FONTSl; 10BAXI KST	Baskerville	FONTSl; 25VCTL KST	Miscellaneous
FONTSl; 10BAXL KST	Baskerville	FONTSl; 25VG KST	News Gothic
FONTSl; 114VSG KST	Decorative	FONTSl; 25VGB KST	News Gothic
FONTSl; 11GRK KST	Foreign	FONTSl; 25VGBK KST	News Gothic
FONTSl; 12GERM KST	Foreign	FONTSl; 25VGC KST	News Gothic
FONTSl; 13FG KST	LPT	FONTSl; 25VGH KST	News Gothic
FONTSl; 13FGB KST	LPT	FONTSl; 25VGI KST	News Gothic
FONTSl; 13VG KST	News Gothic	FONTSl; 25VMIC KST	Miscellaneous
FONTSl; 14BAXB KST	Baskerville	FONTSl; 25VQXB KST	Miscellaneous
FONTSl; 14BAXI KST	Baskerville	FONTSl; 25VQXZ KST	Miscellaneous
FONTSl; 14BAXL KST	Baskerville	FONTSl; 25VR KST	Bodoni
FONTSl; 14TIMS ROMAN	Times	FONTSl; 25VRB KST	Bodoni
FONTSl; 16FG KST	Gacham	FONTSl; 25VRI KST	Bodoni
FONTSl; 18FG KST	Gacham	FONTSl; 27VR KST	Baskerville
		FONTSl; 2AS KST	Misc. Symbol
FONTSl; 20FCOR KST	Typewriter		
FONTSl; 20FG KST	LPT	FONTSl; 30FG KST	LPT
FONTSl; 20FGI KST	LPT	FONTSl; 30FGB1 KST	Gacham
FONTSl; 20VG KST	News Gothic	FONTSl; 30PSCL KST	Baskerville
FONTSl; 20VG2 KST	News Gothic	FONTSl; 30VMS KST	Decorative
FONTSl; 20VGI KST	News Gothic	FONTSl; 30VR KST	Baskerville
FONTSl; 20VR KST	Bodoni	FONTSl; 30VRB KST	Baskerville
FONTSl; 22FG KST	Gacham	FONTSl; 30VRE KST	Baskerville
FONTSl; 22FGS KST	Gacham	FONTSl; 30VRI KST	Baskerville
FONTSl; 25FDEL KST	Typewriter	FONTSl; 30VRI1 KST	Baskerville
FONTSl; 25FG KST	LPT	FONTSl; 30VRZ KST	Baskerville
FONTSl; 25FG1 KST	Gacham	FONTSl; 31AS KST	Misc. Symbol
FONTSl; 25FGB KST	LPT	FONTSl; 31FG KST	LPT
FONTSl; 25FGB1 KST	Gacham	FONTSl; 31VG KST	News Gothic
FONTSl; 25FGB2 KST	Gacham	FONTSl; 31VGB KST	News Gothic
FONTSl; 25FG11 KST	Gacham	FONTSl; 31VGI KST	News Gothic
FONTSl; 25FGZ KST	LPT	FONTSl; 31VGBK KST	News Gothic
FONTSl; 25FQXB KST	Miscellaneous	FONTSl; 31VGZ KST	News Gothic
FONTSl; 25FR KST	Typewriter	FONTSl; 31VR KST	Bodoni
FONTSl; 25FR1 KST	Typewriter	FONTSl; 31VRB KST	Bodoni
FONTSl; 25FR2 KST	Typewriter	FONTSl; 31VRI KST	Bodoni
FONTSl; 25FR3 KST	Typewriter	FONTSl; 32FIG KST	Graphic
FONTSl; 25FR11 KST	Typewriter	FONTSl; 32FRB KST	Typewriter
FONTSl; 25PSCL KST	Bodoni	FONTSl; 33FR KST	Miscellaneous

FONTs; 33FR1 KST	Miscellaneous	TEXFNT; CMSC10 KST	Computer Modern
FONTs; 35VRB KST	Bodoni	TEXFNT; CMSS12 KST	Computer Modern
FONTs; 36VBEE KST	Decorative	TEXFNT; CMSS8 KST	Computer Modern
FONTs; 36VPLY KST	Miscellaneous	TEXFNT; CMSSB KST	Computer Modern
FONTs; 37VRB KST	Clarendon	TEXFNT; CMSSS8 KST	Computer Modern
FONTs1; 37VXMS KST	Decorative	TEXFNT; CMSY10 KST	Math Symbols
		TEXFNT; CMSY5 KST	Math Symbols
FONTs; 40FG KST	LPT	TEXFNT; CMSY6 KST	Math Symbols
FONTs; 40VG KST	News Gothic	TEXFNT; CMSY7 KST	Math Symbols
FONTs; 40VGL KST	News Gothic	TEXFNT; CMSY8 KST	Math Symbols
FONTs; 40VR KST	Bodoni	TEXFNT; CMSY9 KST	Math Symbols
FONTs; 40VRI KST	Bodoni	TEXFNT; CMT10 KST	Computer Modern
FONTs; 40VSHD KST	Decorative	TEXFNT; CMT18 KST	Computer Modern
FONTs; 43VXMS KST	Decorative	TEXFNT; CMT19 KST	Computer Modern
FONTs1; 48SCR P KST	Decorative	TEXFNT; CMTITL KST	Computer Modern
		TEXFNT; CMTT KST	Computer Modern
FONTs; 57VSGN KST	Decorative	TEXFNT; CMTT1 KST	Computer Modern
FONTs; 5X7 KST	Miscellaneous	TEXFNT; CMTT8 KST	Computer Modern
		TEXFNT; CMTT81 KST	Computer Modern
FONTs; 66VR KST	Bodoni	TEXFNT; CMTT9 KST	Computer Modern
		FONTs1; CRTURZ KST	Graphic
FONTs; 75VBEE KST	Decorative		
FONTs; ARROW3 KST	Misc. Symbol	FONTs; DANCER KST	Graphic
		FONTs; ENT KST	Graphic
FONTs1; BAXB30 KST	Baskerville	FONTs1; FIXED 12PT	Fixed
FONTs1; BAXI30 KST	Baskerville	FONTs1; FIXED 14PT	Fixed
FONTs1; BAXL30 KST	Baskerville	FONTs1; FIXED 18PT	Fixed
FONTs1; BAXL40 KST	Baskerville	FONTs1; FIXED 24PT	Fixed
		TEXFNT; GACS25 KST	Gacham
FONTs1; CLAR30 KST	Clarendon	FONTs1; GREEK 12PT	Foreign
TEXFNT; CMATHX KST	Math Symbols	FONTs1; GREEK 14PT	Foreign
TEXFNT; CMB10 KST	Computer Modern	FONTs1; GRKL30 KST	Foreign
TEXFNT; CMB8 KST	Computer Modern		
TEXFNT; CMB9 KST	Computer Modern	FONTs; HELVET 20BOLD	Miscellaneous
TEXFNT; CMCSC KST	Computer Modern		
TEXFNT; CMCSC8 KST	Computer Modern	FONTs1; JDBFNT KST	Graphic
TEXFNT; CMDUNH KST	Computer Modern	FONTs1; JDBSPC KST	Misc. Symbol
TEXFNT; CM110 KST	Computer Modern		
TEXFNT; CM15 KST	Computer Modern	FONTs; KRIVO KST	Foreign
TEXFNT; CM16 KST	Computer Modern		
TEXFNT; CM17 KST	Computer Modern	TEXFNT; LENA KST	Computer Modern
TEXFNT; CM18 KST	Computer Modern		
TEXFNT; CM19 KST	Computer Modern	FONTs1; MATH 12PT	Math Symbols
TEXFNT; CMR10 KST	Computer Modern	FONTs1; MATH 18PT	Math Symbols
TEXFNT; CMR5 KST	Computer Modern	FONTs1; MATH 24PT	Math Symbols
TEXFNT; CMR6 KST	Computer Modern	FONTs1; MET25 KST	Meteor
TEXFNT; CMR7 KST	Computer Modern	FONTs1; METL KST	Meteor
TEXFNT; CMR8 KST	Computer Modern	FONTs1; METLB KST	Meteor
TEXFNT; CMR9 KST	Computer Modern	FONTs1; METLBI KST	Meteor
TEXFNT; CMS10 KST	Computer Modern	FONTs1; METLI KST	Meteor
TEXFNT; CMS8 KST	Computer Modern		
TEXFNT; CMS9 KST	Computer Modern		

FONTSI; METM KST	Meteor	FONTSI; S25XIF KST	LPT
FONTSI; METMI KST	Meteor	FONTSI; S30CYR KST	Foreign
FONTSI; METMB KST	Meteor	FONTSI; S30GRK KST	Foreign
FONTSI; METMB1 KST	Meteor	FONTSI; S30LAT KST	Foreign
FONTSI; METMBI KST	Meteor	FONTSI; S30SWD KST	Foreign
FONTSI; METMI KST	Meteor	FONTSI; S35GER KST	Foreign
FONTSI; METS KST	Meteor	FONTSI; S38CYR KST	Foreign
FONTSI; METSB KST	Meteor	FONTSI; S40HBR KST	Foreign
FONTSI; METSBI KST	Meteor	FONTSI; S50CHS KST	Graphic
FONTSI; METSI KST	Meteor	FONTSI; S53SYM KST	Math Symbols
FONTSI; MIT KST	Graphic	FONTSI; SCOTT KST	Math Symbols
FONTSI; MITBIG KST	Graphic	FONTSI; SCRIPT 12PT	Decorative
FONTSI; MONA33 KST	Decorative	FONTSI; SIGMA KST	Math Symbols
FONTSI; MONA66 KST	Decorative	FONTSI; SMKBD KST	Misc. Symbol
		FONTSI; SPLUNK KST	Math Symbols
FONTSI; NONL KST	Nonie	FONTSI; STEML KST	Graphic
FONTSI; NONL1 KST	Nonie	FONTSI; SUB KST	Misc. Symbol
FONTSI; NONLB KST	Nonie	FONTSI; SUBSUB KST	Misc. Symbol
FONTSI; NONLB1 KST	Nonie	FONTSI; SUP KST	Misc. Symbol
FONTSI; NONLBI KST	Nonie	FONTSI; SUPSUP KST	Misc. Symbol
FONTSI; NONLBI1 KST	Nonie	FONTSI; SYMBOL 10PT	Misc. Symbol
FONTSI; NONLI KST	Nonie	FONTSI; SYMBOL 12PT	Misc. Symbol
FONTSI; NONM KST	Nonie	FONTSI; SYMBOL 18PT	Misc. Symbol
FONTSI; NONM1 KST	Nonie	FONTSI; SYMBOL 24PT	Misc. Symbol
FONTSI; NONMB KST	Nonie	FONTSI; SYMBOL 8PT	Misc. Symbol
FONTSI; NONMBI KST	Nonie		
FONTSI; NONMI KST	Nonie	FONTSI; TENGWR KST	Foreign
FONTSI; NONS KST	Nonie	FONTSI; TIMES 10BOLD	Times
FONTSI; NONS1 KST	Nonie	FONTSI; TIMES 10ITAL	Times
FONTSI; NONSB KST	Nonie	FONTSI; TIMES 10ROM	Times
FONTSI; NONSB1 KST	Nonie	FONTSI; TIMES 11ROM	Times
FONTSI; NONSBI KST	Nonie	FONTSI; TIMES 12BOLD	Times
FONTSI; NONSI KST	Nonie	FONTSI; TIMES 12ITAL	Times
		FONTSI; TIMES 12MTH1	Math Symbols
FONTSI; O20 KST	Graphic	FONTSI; TIMES 12ROM	Times
		FONTSI; TIMES 12SAIL	Times
FONTSI; OLDERA KST	Foreign	FONTSI; TIMES 12SPEC	Times
		FONTSI; TIMES 14BOLD	Times
FONTSI; PLUNK KST	Math Symbols	FONTSI; TIMES 14ITAL	Times
FONTSI; PSYMBL KST	Math Symbols	FONTSI; TIMES 14ROM	Times
		FONTSI; TIMES 18ITAL	Times
FONTSI; QRP KST	Math Symbols	FONTSI; TIMES 18ROM	Times
FONTSI; QRZ KST	Math Symbols	FONTSI; TIMES 24ITAL	Times
		FONTSI; TIMES 24ROM	Times
FONTSI; RUNLEN KST	Graphic	FONTSI; TIMES 8ITAL	Times
		FONTSI; TIMES 8ROM	Times
FONTSI; S16ROT KST	LPT	FONTSI; TIMES 9ROM	Times
FONTSI; S25APL KST	Misc. Symbol		
FONTSI; S25CHP KST	Graphic	FONTSI; UPT175 KST	Nonie
FONTSI; S25CYR KST	Foreign		
FONTSI; S25GRK KST	Foreign		
FONTSI; S25HBR KST	Foreign		
FONTSI; S25IPA KST	Misc. Symbol		
FONTSI; S25SYM KST	Math Symbols		

Appendix Two: English Font Sampler

The following pages are provided to aid the user in selecting fonts for the main text, headings, and titles of documents to be printed by the XGP. Samples of most of the English alphabets are given in a more conventional and compact form, which makes it easier to compare alternatives. Fonts are grouped by family. Only sizes up to and including 24 point (67 XGP pixels in height) are shown. Some fonts which are found in the main body are not given here, because they are derivatives of others. Typically for these fonts there will be a difference only in the assignments to the Ascii control character codes, or a minor difference in the style of a non-alphabetic character.

English Font Sampler

Baskerville

FONTS1;10BAXL KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS;30VR KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS1;10BAXI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS;30VRB KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS;27VR KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS;30VRI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS;35VRB KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

FONTS1;BAXL40 KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnopqrstu**vw**xyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ ±
∞ ð ç ð ñ ù v ∑ ∏ ← → ↵ ∼ ≅ ∑ ∏ ∫

Baskerville

English Font Sampler

FONTS1;14BAXL KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] _ ' { } ~ ↓ α β λ ¬ ε π λ † ‡
∞ ∂ c ∩ ∪ √ ∑ ⊕ ⊖ ⊗ ⊘ ⊙ ⊚ ⊛ ⊜ ⊝ ⊞ ⊟ ⊠ ⊡ ⊢ ⊣ ⊤ ⊥ ⊦ ⊧ ⊨ ⊩ ⊪ ⊫ ⊬ ⊭ ⊮ ⊯ ⊰ ⊱ ⊲ ⊳ ⊴ ⊵ ⊶ ⊷ ⊸ ⊹ ⊺ ⊻ ⊼ ⊽ ⊾ ⊿

FONTS1;14BAXB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] _ ' { } ~ ↓ α β λ ¬ ε π λ † ‡
∞ ∂ c ∩ ∪ √ ∑ ⊕ ⊖ ⊗ ⊘ ⊙ ⊚ ⊛ ⊜ ⊝ ⊞ ⊟ ⊠ ⊡ ⊢ ⊣ ⊤ ⊥ ⊦ ⊧ ⊨ ⊩ ⊪ ⊫ ⊬ ⊭ ⊮ ⊯ ⊰ ⊱ ⊲ ⊳ ⊴ ⊵ ⊶ ⊷ ⊸ ⊹ ⊺ ⊻ ⊼ ⊽ ⊾ ⊿

English Font Sampler

Bodoni

FONTS;20VR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑
∞∂cɔ∩U∨∑∅⇔←→≠ϕ<>≡∇

FONTS;25VR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑±
∞∂cɔ∩U∨∑∅⇔←→≠~∑≡∇

FONTS;25VRB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑
∞∂cɔ∩U∨∑∅⇔←→≠~<≡∇

FONTS;25VRI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑ff
∞∂cɔ∩U∨∑∅⇔←→≠~∑≡∇

FONTS;66VR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑
∞∂cɔ∩U∨∑∅⇔←→≠ff<≡∇

FONTS;31VR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑
∞∂cɔ∩U∨∑∅⇔←→≠ϕ<>≡∇

FONTS;31VRB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑
∞∂cɔ∩U∨∑∅⇔←→≠ϕ<>≡∇

FONTS;31VRI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@\[_'{}~ ↓αβλ-επλ↑
∞∂cɔ∩U∨∑∅⇔←→≠ϕ<>≡∇

FONTS;40VR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
 abcdefghijklmnopqrstuvwxyz
 1234567890 !"#%&'()*+,-./:;<=>?
 @[\]_`{|}~ ↓αβλ-επλ†
 ∞∂cɔnυV∃⊗↔←→≠◇≤≥≡v

FONTS;40VRI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()+,-./:;<=>?*
@[\]_`{|}~ ↓αβλ-επλ†ff
∞∂cɔnυV∃⊗↔←→≠◇≤≥≡v

FONTS1;CLAR30 KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890 "\$%&'()*+,-./:;=?

[\]^_`]

FONTS;37VRB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

1234567890 "\$%&'()*+,-./:;<=>?

[\]^_`{}~

fflffiffifl/

English Font Sampler

Decorative

FONTS1;30VMS KST

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 ' , - . : ;

FONTS1;MONA33 KST

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 ! " # \$ % & ' () , - . : ; ?

FONTS1;37VXMS KST

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 . . . ;

FONTS; 43VXMS KST

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 ' () , - . ?

FONTS1;MONA66 KST

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 0 ! " # \$ % & ' () , - . : ; ?

FONTS;57VSGN KST

A B C D E F G H I J K L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0 ! * , - . / : ; =



Decorative

English Font Sampler

FONTS;36VBEE KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !" ' () , - . / : ; = ?
[]

FONTS1;SCRIPT 12PT

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
*1234567890 \$ () * + = / ;*
[]

FONTS1;48VSCRIP KST

ABCDEFGHIJG H I J K L MN OP QR S T UVW XYZ
abcdefghijklmnopqrstu vwxyz
1234567890 , . ;

FONTS;40VSHD KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
1234567890 ! " @ # \$ % & ' () * + =
[]
↔ ← → ↔

English Font Sampler

Gacham

FONTS;16FG KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ` †
•

FONTS;18FG KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ` †
•◊

FONTS;22FGS KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ ▯ ↓ α β λ - ε π λ γ δ † ± •
ω δ ς Ϸ UUV3 @ n + → x † ≤ ≥ ≡ v Δ

FONTS;25FG1 KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~
ˆ

FONTS;25FGB1 KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ †
‡

FONTS;25FGI1 KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ †
ˆ

FONTS;30FGB1 KST

ABCDEFGHIJKLMN OPQRSTUVWXYZ
abcdefghijklmnopqrstu vwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ { | } ~ †
‡≥

English Font Sampler

LPT

FONTS;13FG KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS;13FGB KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS;20FG KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS;20FGI KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS;25FG KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS;25FGB KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS1;25FGZ KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS;30FG KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

FONTS1;31FG KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ' { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾

English Font Sampler

Meteor

FONT1;METS KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

FONT1;METS B KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

FONT1;METS I KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

FONT1;METS BI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

FONT1;METM KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~
+@ _

FONT1;METMB KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

FONT1;METMI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

FONT1;METMBI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmnop**qr**stuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~

Meteor

English Font Sampler

FONTS1;METL KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ █

FONTS1;METLB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ █

FONTS1;METLI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ █

FONTS1;METLBI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ █

English Font Sampler

News Gothic

FONTS;13VG KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;20VG KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;20VGI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;25VG KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;25VGB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;25VGI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;31VG KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;31VGB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

FONTS;31VGI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\]^_`{|}~ ↓αβλ-επλ†
ωδϵζηυϑϷϸϹϺϻϼϽϾϿ

English Font Sampler

Nonie

FONT5;NONS KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT5;NONSI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT5;NONM KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT5;NONMI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT51;NONSB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT51;NONSBI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT51;NONMB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

FONT51;NONMBI KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ¡ ¢

Nonie

FONTS1;NONL KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abc**def**ghijklmnopqrstuv**xy**z
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]†←{||}~

FONTS1;NONLI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abc**def**ghi jklmnopqrstuv**xy**z
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]†←{||}~

English Font Sampler

FONTS1;NONLB KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abc**def**ghijklmnopqrstuv**xy**z
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]†←{||}~

FONTS1;NONLBI KST

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abc**def**ghi jklmnopqrstuv**xy**z
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]†←{||}~

English Font Sampler

Times

FONTS;TIMES 8ROM

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmn**op**qrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

FONTS;TIMES 8ITAL

*ABCDEFGHIJKLMN**OP**QRSTUVWXYZ*
*abcdefghijklmn**op**qrstuvwxyz*
1234567890 !"#\$%&'()+,-./:;<=>?*
@[\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

FONTS;TIMES 9ROM

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmn**op**qrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

FONTS;TIMES 10BOLD

ABCDEFGHIJKLMNOP**QRSTUVWXYZ**
abcdefghijklmnop**qrstuvwxyz**
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

FONTS;TIMES 10ROM

ABCDEFGHIJKLMN**OP**QRSTUVWXYZ
abcdefghijklmn**op**qrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

FONTS;TIMES 10ITAL

*ABCDEFGHIJKLMN**OP**QRSTUVWXYZ*
*abcdefghijklmn**op**qrstuvwxyz*
1234567890 !"#\$%&'()+,-./:;<=>?*
@[\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

FONTS;TIMES 11ITAL

*ABCDEFGHIJKLMN**OP**QRSTUVWXYZ*
*abcdefghijklmn**op**qrstuvwxyz*
1234567890 !"#\$%&'()+,-./:;<=>?*
@[\]^_`{|}~ '—
†‡§¡¼½¾ffflmnn#≡

Times

English Font Sampler

FONTS;TIMES 12ROM

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890 !"#\$%&'()*+,-./:;<=>?

@[\]^_`{|}~'---

†‡§¼½¾ffiffiffi≠≤≥

FONTS;TIMES 12BOLD

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890 !"#\$%&'()*+,-./:;<=>?

@[\]^_`{|}~'---

†‡§¼½¾ffiffiffi≠≤≥

FONTS;TIMES 12ITAL

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890 !"#\$%&'()*+,-./:;<=>?

@[\]^_`{|}~'---

†‡§¼½¾ffiffiffi≠≤≥

FONTS;TIMES 14ROM

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890 !"#\$%&'()*+,-./:;<=>?

@[\]^_`{|}~ ↓αβλ-επ†

∞∂c∩∪∩∩∩∩ ∅↔↔↔≠∠≡∇

FONTS;TIMES 14BOLD

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890 !"#\$%&'()*+,-./:;<=>?

@[\]^_`{|}~

ffiffiffi

FONTS;TIMES 14ITAL

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890 !"#\$%&'()*+,-./:;<=>?

@[\]^_`{|}~

English Font Sampler

Times

FONTS;TIMES 18ROM

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~ '---
†‡§¼½¾fffi flffiffi ≠ ≤ ≥

FONTS;TIMES 18ITAL

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()+,-./:;<=>?*
@[\]^_`{|}~ '---
†‡§¼½¾fffi flffiffi ≠ ≤ ≥

FONTS;TIMES 24ROM

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\\]^_`{|}~ '---
†‡§¼½¾fffi flffiffi ≠ ≤ ≥ /

FONTS;TIMES 24ITAL

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()+,-./:;<=>?*
@[\]^_`{|}~ '---
†‡§fffi flffiffi ≠ ≤ ≥

English Font Sampler

Typewriter

FONTS;20FCOR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ ↑
←

FONTS;25FR KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ † () ~ ↓ α β λ - ε π λ †
∞ ð ç ð ñ υ V } @ † † → † † ≤ † † ≡ †

FONTS;25FR1 KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ \ { | } ~ †
← →

FONTS;25FR2 KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ \ { | } ~ € ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾
À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï

FONTS;25FR3 KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ \ { | } ~ ▣ ↓ α β λ - ε π λ γ δ † ± ⊕
∞ ð ç ð ñ υ V } @ † † → † † ≤ † † ≡ †

FONTS;25FRI1 KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\] ^ _ \ { | } ~ †
←

FONTS;32FRB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

English Font Sampler

Miscellaneous

FONTS;5X7 KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\] _ ' { | } ~ ↓ α β λ ε π λ ↑
ω ð ç ã ù v [] @ # + ← → ≠ ~ ≤ ≥ ≡ v /

FONTS;36VPLY KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1230 !"\$%&'()*+,-./:;<=>?
[]
#52

FONTS;25VCTL KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\] _ ' { | } ~ ↓ α β λ ε π λ ↑
ω ð ç ã ù v [] @ # + ← → ≠ ~ ≤ ≥ ≡ v /

FONTS;25VMIC KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\] _ ' { | } ~ ↓ α β λ ε π λ ↑
ω ð ç ã ù v [] @ # + ← → ≠ ~ ≤ ≥ ≡ v /

FONTS;33FR KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\] _ ' { | } ~ ↓ α β λ ε π λ γ σ ↑ ± ⊕
ω ð ç ã ù v [] @ # + ← → ≠ ~ ≤ ≥ ≡ v /

FONTS;33FRI KST

ABCDEFGHIJKLMNPOQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#\$%&'()*+,-./:;<=>?
@[\] _ ' { | } ~ ↓ α β λ ε π λ γ σ ↑ ± ⊕
ω ð ç ã ù v [] @ # + ← → ≠ ~ ≤ ≥ ≡ v /

Miscellaneous

English Font Sampler

FONTS;25VQXZ KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ↓αβΛ¬επλγδ†±⊕
∞∂∑∏∪∩∇∃⊗⊕⊖⊗⊕⊖⊗⊕⊖

FONTS;25VQXB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ↓αβΛ¬επλγδ†±⊕
∞∂∑∏∪∩∇∃⊗⊕⊖⊗⊕⊖⊗⊕⊖

FONTS;25FQXB KST

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ ↓αβΛ¬επλγδ†±⊕
∞∂∑∏∪∩∇∃⊗⊕⊖⊗⊕⊖⊗⊕⊖

FONTS;HELVET 20BOLD

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 !"#%&'()*+,-./:;<=>?
@[\\]^_`{|}~ '—-■●★
≤≥

Appendix Three: Format of the MIT KST Font Files

Each KST font file (usually has "KST" as its second filename) has the following general format, regardless of type style or size:

- a two-word header ("word" means 36-bit PDP-10 word)
- an arbitrary number of character blocks (up to 128.), of a variable number of words each
- an end-of-file flag, the number -1 (binary all ones). However, there have always been two such flags at the end of all KST font files, and should continue that way.

The Header

The first word is the "KSTID", which is ignored by all programs at MIT. It is normally zero. The second word contains the Column Position Adjust (CPA), which is 0 for all of our files, the baseline (BL) of the font, and the height (HT) of the font. Arrangement is as

0	8 9	17 18	35

|	CPA	| BL	| HT

The height is the total number of scan lines required by any character in the font, and is the number of scan lines contained in each character block which follows. The basseline gives the number of scan lines *above* the baseline for every character in the font.

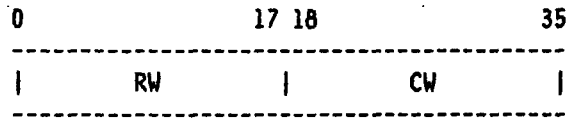
The Character Block

Each character block has a three-word header. The first word is a binary 1, which serves as a convenient separator between character blocks. (This is because only the high 32 bits of each raster word are used, with the low 4 zero.) The second word contains the left kern (LK) for the character, and the Ascii code:

0	17 18	35

|	LK	| Ascii char code

The third word contains the raster width (RW) for the character, and its character width (CW):



The left kern gives the number of units (XGP pixels) to start the actual raster display to the *left* of the current character position. A negative number means to start the raster to the right of the current position abs(LK) units. The raster width gives the number of bits which occur in each line of the following raster array for the character. The character width is the number of units to advance the current position after the character is printed. NOTE: CW is not measured from where the raster actually is placed, but from the current character position; that is, the LK is totally ignored when advancing the current position. This means that, in general, adjusting the left kern of a character requires changing its CW as well.

After this three-word header comes the actual raster display. There are HT lines, each of RW bits. The bits are grouped into 8-bit bytes, with four bytes per PDP-10 word. The low 4 bits of each word in the raster display must be zero. The bytes in each word correspond left to right with bits from the raster matrix (that is, bytes are used left to right in printing each line of the character). However, within each byte the bits are *reversed*, so are used right to left within the byte. This is an artifact of the way the bytes are shipped to the PDP-11 running the XGP. If RW is not a multiple of 8 bits, the remaining bits in the last byte of each scan line are zero. Each scan line begins on a new 8-bit byte. After the last scan line, remaining bytes in the word are zero.

The next word after the last scan line will be either a 1, signalling the next character block, or a double -1 for the end-of-file.

NOTES

- The order of the character blocks within the file is not significant (that is, they don't have to be in alphabetical order).
- The low order bits in each raster display word must be zero; unused bits in scan line raster must be zero.
- Not all 128 Ascii characters need to be defined in the file.
- Each raster display must have HT lines, even if those below the baseline are zero (unlike the AST files in this respect).