STANFORD ARTIFICIAL INTELLIGENCE LABORATORY Operating Note 74

May 1976 M. Frost

Find & FONT

Les Earnest

Abstract

Typefaces currently available for the Xerox Graphics Printer are presented herein, warts and all. Procedures for creating, modifying and stealing fonts are discussed.

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Apology

This note attempts to describe the public fonts available at the Stanford A. I. Lab. as they are. In a number of cases they should be quite different. Unfortunately, it has not been possible to allocate sufficient resources to tidy things up. Documentation facilities are an interesting sideline, but not our main business. For the most part, we are dependent on volunteers, both here and elsewhere, for the generation and improvement of fonts.

"Here is the whole set! a character dead at every word." *The School for Scandal* – Richard Sheridan

"Give ample room, and verge enough, The characters of hell to trace." The Bard - Thomas Gray

"I'll publish, right or wrong: Fools are my theme, let satire be my song." English Bards and Scotch Reviewers - Lord Byron

"Publish and be damned." - Duke of Wellington

"Tis from high life high characters are drawn." Moral Essays – Alexander Pope

"I feel a little bored; Will some one take me to a Pub?" Ballade of an Anti-Puritan - Gilbert Chesterton



I. INTRODUCTION

This note describes symbol sets available for our Xerox Graphics Printer. Each symbol is defined by a rectangular bit array, with 1 and 0 representing "black" and "white". [The basic representation should be quite different, but that is another story.]

A font file generally contains a collection of characters of a certain size and style. The standard font files in our system have ".FNT" extensions and are stored in [XGP,SYS]. Most programs that deal with font files default to these values. Users may create and use their own font files. The internal structure of these files, which need not concern the casual user, is described in Appendix C.

Font Dissemination Policy

We have no objection to other University research groups copying our font files. Most other groups in the research community appear to have similar policies. Appendix D is a guide to font theft via the ARPAnet.

Commercial organizations wishing to use our fonts will be expected to pay a licensing fee (negotiable). Only fonts that were created in our laboratory will be considered for licensing by us.

(In)Compatibility

In exchanging documentation files with other organizations, there are a number of potential difficulties. For example, the SAIL character set uses a number of ASCII control codes to represent exotic symbols, to the endless pain of other groups who try to use our software. Appendix B itemizes differences between our code and others.

Not only do character codes vary, but so do XGP adjustments: CMU makes their resolution about 183 pixels/inch; PARC and ISI use 192; we and MIT-AI use 200. Overall, one must worry about differences in symbol sets, character codes, documentation languages, font files, and XGP resolutions. [Sigh.] Perhaps we will get it together next time.

Programs that use Font Files

Users may write programs that output directly to the XGP as described in the UUO Manual [1]. A more common approach is to prepare a text file for processing by a document compiler, which writes a file containing XGP commands that is XSPOOLed [2].

There are two document compilers currently in use here: Pub [3] and Pox [4]. Pox is substantially faster than Pub and offers somewhat greater freedom in positioning text, but has a rather messy syntax and an incredible array of possible states. Pub has an ALGOL-like syntax and better facilities for dealing with arbitrary source text formats, but is large (50k+ in pass 1) and slow. Neither is the ultimate document compiler.

While the use of multiple fonts can improve the readability of documents, it also imposes a computing load both in compiling and printing. To minimize the system costs, please observe the following rules.

- 1. Don't declare more fonts than you use.
- Whenever possible, avoid the use of the larger fonts except in small documents.

For example, if you want to use SIGN57 on the cover and title page of a sizable document, you should compile and print those pages by themselves. For A. I. Memos, there is a Pub macro available that makes covers and title pages [5].

Because of stringent timing requirements in printing on the XGP, the font files are not used directly, but are first "compiled" into a data structure that is well suited to XGP output. The timesharing system takes care of this automatically.

If your document uses too many fonts (requiring more than 65k words of font

storage or more than one minute of elapsed time to compile any one font), the printing task will automatically abort. The latter restriction can often be circumvented by precompiling a font [6]. Compiled font files normally have ".CFT" extensions.

If you suspect that the document compiler of your choice has run amok, use XGPTYP to convert the XGP file into readable commands so that you can see what happened. Say "R XGPTYP" to the Monitor, then "?" for operating instructions.

Font Manipulation Programs

To examine any given font on a Data Disk terminal, say "R DDFONT" and give the font name (e.g., "NGR25").

To generate a sample of any particular font on the XGP, give the command

R FCOPY;/SAMPLE

FCOPY can also be used to convert fonts stolen from outside organizations to our font file format, to make fonts fixed width, or to rotate them [7].

To create a new font, use TVFONT [8]. TVFONT can also stretch existing fonts (after polygon conversion) or slant them.

- To modify an existing font, use EDFONT [9]. It allows you to draw, rotate, and mirror image fonts up to 40 pixels high. To combine selected characters from two fonts, use EDFONT or COMBIN [10]. If you forget all this, say "HELP FONT" to the system.
- If you want to examine or modify font parameters or permute characters and you don't mind living dangerously, use FONT [11].

Please be careful in modifying public fonts. Cleaning up ragged characters is generally OK, but permuting or replacing characters may introduce bugs in existing documents. It is safer to introduce a new font with the improved character arrangement, declare the old one "obsolescent", and eventually delete it.

References

- Martin Frost, UUO Manual, SAILON-55.4, Page 160.
- [2] Brian Harvey and Martin Frost, Monitor Manual, SAILON-54.5, Appendix 3, or see file SPOOL.REG [UP,DOC].
- [3] Larry Tesler, Pub, the Document Compiler, SAILON-70, September 1972 (out of print); also in file PUB.TES
 [S,DOC]. Update in file PUB.UPD
 [S,DOC].
- [4] Robert Maas, Prototype Overlay Xerographics, in file POX.XGP [UP,DOC].
- [5] Les Earnest, COVER, in file COVER.PUB [SUB,SYS], with description in PUBMAC.LES [UP,DOC].
- [6] Ralph Gorin, User Font Compiler, in file UFC.REG [UP,DOC].
- [7] Tovar, FCOPY, say "HELP FCOPY" to view the meager documentation.
- [8] Bruce Baumgart, TVFONT Television Font Maker, in file TVFONT.BGB [UP,DOC].
- [9] Tovar, EDFONT Font Editor, in file. EDFONT.TVR [UP,DOC].
- [10] Tovar, COMBINE, say "HELP COMBIN" for a summary of features.
- [11] Brian Harvey, FONT, in file FONT.DOC [1,BH]. To run it, say "RU FONT [S,BH]" (experts only, please).

Introduction

2. FONT DESCRIPTIONS

This catalog takes a forthright stand against some forms of evil, but compromises with others. Ad hoc substitutions in certain character positions are treated as a "missing symbols" and the symbols that are there currently are not identified. The purpose is to permit these fonts to be corrected. If you use ad hoc symbols, you do so at your own risk. Some day they will be replaced by the correct symbols for that font.

This catalog ignores characters that are "hidden" under control codes such as CR, LF, and ALT. While both Pub and Pox provide facilities for printing these things, it is all a silly business. If one hides alternate characters under CR, for example, why not put them under each letter of the alphabet? Since hidden characters are basically a bad idea, they are not reported below.

While a number of fonts in this catalog are rather ragged or silly, some are too bad for even our loose standards, or have been superseded. Appendix A is a Blacklist of such fonts, with the reason given for each rejection. The expectation is that these fonts will be deleted eventually.

Organization and Terminology

Fonts are organized below on the following basis:

- (1) symbol class (variable width regular, fixed width regular, special symbols),
- (2) typeface (e.g. "Baskerville"),
- (3) size (smallest to largest),
- (4) style (e.g. light, italic, or bold).

The traditional printer's units are the pica (1/6 inch) and point (1/72 inch). Font heights are given below both in points and in pixels (picture cells, i.e. XGP raster units). The "points" height includes an assumed interline spacing of 3 pixels, which is the default value in Pub. The default interline spacing in POX is 0 in simulator mode and 4 pixels in non-simulator mode. The notation "height = 25 pixels = 20 + 5" means that the font is 25 pixels high, not counting any interline spacing, with 20 above the baseline and 5 below. The maximum width is also given in pixels. For a diagram of these parameters and others used to define fonts, see Appendix C.

Pixel to Point Conversion

Our XGP is adjusted to about 200 pixels/inch, which means that **L** "point" is about 2.8 pixels. If you need to make a master that will photographically reduce to a font of a certain size (in points), here is a table of font heights (in XGP pixels) that should be used for various reduction ratios, assuming an interline spacing of 3 pixels.

		Mag	nifica	tion		
Result	xI	x0.9	x 0.8	x0.7	x 0.6	x 0.5
(points)		Font	Heig	ght (p	oixel	s)
6	13	15	17	20	24	30
8	19	21	24	28	34	41
10	24	27	31	36	43	52
12	30	34	38	44	52	63
14	35	40	45	52	61	74
18	47	52	59	68	80	97
24	63	71	80	92	108	130
30	80	89	101	116	135	163
36	97	108	122	139	163	197
42	113	126	142	163	191	230
48	130	145	163	187	219	263
60	163	182	205	235	274	330
72	197	219	247	282	330	397

The name of the originator of each font is given below where known. In some cases we have guessed, perhaps inaccurately. Corrections are solicited. For fonts that originated outside SAIL we generally have no information about the originator(s) so we simply indentify the probable originating organization, e.g. CMU (Carnegie-Mellon University AI group), MIT (M.I.T. AI group), or ISI (Information Sciences Institute, University of Southern California) or the SHY Corporation. In describing character sets, we use "SAIL set" to mean the peculiar character set that we use, as described in Appendix B. The "ASCII set" is taken (inacurately) to mean those characters in the SAIL set with codes greater than '40, while the "special characters" are SAIL symbols with character codes less than '40.

For fonts with nonstandard characters in some positions, we use the notation " $\alpha \rightarrow \beta$ " to mean that the code that normally prints as " α " prints as symbol " β " in this font. In fonts where senseless substitutions have been made, they are not listed.

3. VARIABLE WIDTH REGULAR FONTS

Baskerville

The Baskerville fonts include lightface, *italic*, and bold. The "BAS" fonts include ligatures in place of certain special characters, as noted below. The ligatures and some additional special characters are also available in BAXS30 (see Section 5, Miscellaneous fonts). If you are using Pub and want ligatures, use BASK.PUB [SUB,SYS] to make the substitutions automatically.

For special accents, use the zero-width font ZERO30. There are some supplementary Baskerville symbols in BAXS30.

BAXL30 12 point Baskerville (height = 30 pixels = 22 + 8, width \leq 31) by Mike Clancy Derived from BASL30. Full SAIL set. **ABCDE FGHIJ KLMNO PQRST UVWXYZ** abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \alpha \beta$. $\land \neg \in \pi \lambda \otimes \partial \subset \neg n \cup \forall \exists \otimes \leftrightarrow \Box \rightarrow \sim \# \leq \geq \equiv \lor ! " \# \$ \% \& `() * + , - . / :; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BASL30 12 point Baskerville (height = 30 pixels = 22 + 8, width ≤ 48) by Brian Harvey Complete except for ligature substitutions (see below) and missing ∈ V.
ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 ↓ α β
Λ π λ ∂ ⊂ ⊃ ∩ U ∃ ⊕ ↔ _ → ~ ≤ ! " * \$ % & '() * + , - . / :; < = > ? @ [\] ↑ ← ' { | }
Ligatures: =>fi ∨⇒fl ≥→ff ≠→ffi ∞→ffl ¬→−

BAXI30 12 point Baskerville Italic (height = 30 pixels = 22 + 8, width ≤ 30) by Mike Clancy Derived from BASI30. Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \lambda \otimes \partial \subseteq \supset \cap \cup \forall \exists \oplus \leftrightarrow _ \rightarrow \# \leq \geq \equiv \lor / " \# \$ \% G'() * + , - . / :; < = > ? @ [\] \uparrow \leftarrow ` {] }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BASI30 12 point Baskerville Italic (height = 30 pixels = 22 + 8, width ≤ 30) by Brian Harvey Complete except for ligature substitutions (see below) and missing ~.
ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 ↓ ∞ β ∧ € π λ ∂ ⊂ ⊃ ∩ ∪ ∀ ∃ ⊕ ↔ _ → ≤ ! " # \$ 7. G' () * + , - . ! :; < = > ? @ [\] ↑ ↔ ' { } }

Ligatures: $= \rightarrow fi \lor \rightarrow fl \ge \rightarrow ff \neq \rightarrow ffi \space \infty \rightarrow ffl \dashv \rightarrow -$

BAXM30 12 point Baskerville Mathematical (height = 30 pixels = 22 + 8, width ≤ 48) by Les Earnest Same as BAXL30 except that the alphabet is italic, has wide-spaced period, and prime ' in place of '. Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \alpha \beta \land \neg \in \pi \lambda \infty \partial \subseteq \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor !" * \$ \% \& `() * + , - . /:; < = > ? @ [\] \uparrow \leftarrow `{ |}$

BAXB30 12 point Baskerville Bold (height = 30 pixels = 22 + 8, width ≤ 30) by Mike Clancy Derived from BASB30. Full SAIL set.

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality: since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BASB30 12 point Baskerville Bold (height = 30 pixels = 22 + 8, width ≤ 30) by Brian Harvey Complete except for ligature substitutions (see below).
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 ↓ ∝ β

 $\wedge \in \pi \lambda \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \leq ! " \# \$\%\&'() * +, -./:; \langle = \rangle ? @ [\] \uparrow \leftarrow ` \{ | \}$ Ligatures: =>fi v>fl ≥>ff ≠>ffi ∞>ffl ¬>=

BASL35 13 point Baskerville (height = 34 pixels = 25 + 9, width \leq 38) by Arthur Samuel Includes ligatures; missing \in Y. A slightly enlarged version of BASL30. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \alpha \beta \land \pi \lambda \partial \subset \neg n \cup \exists \oplus \leftrightarrow _ \rightarrow \sim \leq ! " * \$\% \& `() * + , - . / : ; < = > ? @ [\] \uparrow \leftarrow `\{ | \}$

Ligatures: =→fi ∨→fi ≥→ff ≠→ffi ∞→ffi ¬→-

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Variable Width

Bocklin

BEESIX 14 point Bocklin (height = 36 pixels = 27 + 9, width ≤ 38) by Bruce Baumgart Letters and digits only (no punctuation). RBCDE FGNIJ KLINNO PORST UVWXYZ abcde Ighij klmno porst uvwxyz 01234 56789

If time be of all things the most precious wasting time must be fun but without punctuation words run together and we eventually lose track of what we are talking about which is just as well because Poor Richard was such a dingaling that he used to fly kites in the rain

 BUCK75
 27 point Bocklin (height = 73 pixels = 58 + 15, width ≤ 75)
 by Bruce Baumgart

 Letters and digits only (no punctuation).
 PORST

 ABCDE
 FGSIJ
 KLARDO
 PORST

 UVWXYZ
 abcde Ighij klmno pqrst uvwxyz
 01234 56789

The noblest motive is the pubic good Never play leapfrog with a Unicorn

Bodoni

BDJ20 8 point Bodoni Mathematical (height = 20 pixels = 16 + 4, width ≤ 22) by Bill Gosper Italic alphabet, everything else upright. Full SAIL set.

 $\begin{array}{l} \textbf{ABCDE FCIIIJ KLMNO PORST UVW XYZ nbcdr fghij klimno porst uvwxyz 01234 56789 <math>\downarrow & \beta \land \neg \in \pi \land \infty \ni \Box \supset n \cup \forall \exists \otimes \infty _ \rightarrow \neg e \leq \geq \gamma \lor ! " \bullet \delta 7 \& ` |) * +, -. / : ; < = >? @[\] 1 + ` |] \\ \end{array}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the grentest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDR2510 point Bodoni (height = 26 pixels = 20 + 6, width \leq 25)by @CMUFull SAIL set. \leq 25)

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \land \infty$ $\partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " * \$ \% \& '() * + , - . / :; \langle = \rangle ? @ [\] \uparrow \leftarrow ` \{ | \}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

If time he of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDJ25 10 point Bodoni Mathematical (height = 26 pixels = 20 + 6, width ≤ 27) by Bill Gosper Italic alphabet, everything else upright. Full SAIL set.

ABCDE FGIIIJ KLMNO PORST UVW XYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi$ $\lambda \otimes \partial \subset \supset \cap \cup \forall \exists \oplus \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " = \$\%\% ? \% ? () \# + , - . / : ; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDR25X10 point Bodoni Bold (height = 26 pixels = 20 + 6, width ≤ 25)by TovarFull SAIL set.Full SAIL set.ABCDE FGHIJ KLMNO PORST UVWXYZ abcdc fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \land \infty$ $\partial \subset \supset \Pi \cup \lor \exists \ \leftrightarrow \ \rightarrow \sim \neq \leq \geq \equiv \lor 1^{"} \neq \$ \% \& `() \Rightarrow +, -./:; < \equiv >? @[\] \uparrow \leftarrow ` \{ \} \}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Variable Width

Bodoni (continued)

BDR30 12 point Bodoni (height = 31 pixels = 25 + 6, width ≤ 28) by Tovar Full SAIL set.

ABCDE FCHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \lambda \infty \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geqslant \equiv \lor ! " * $% & '() * +, -. / :; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDI30 12 point Bodoni Italic (height = 31 pixels = 24 + 7, width ≤ 34) by Andy Moorer A bit uneven, alas. Full SAIL set. ABCDE FGHIJ KLMNO PORST UVW XYZ abcde fghij klmno pqrst uvwxyz 01234 56789

 $\downarrow \propto \beta \land \neg \in \pi \lambda \otimes \beta \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " \# \$ \% \& `() * +, - . / :; \leq \equiv > ? \\ @ / () \uparrow \leftarrow ` \{ | \}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDB30 12 point Bodoni Bold (height = 31 pixels = 25 + 6, width ≤ 30) by Tovar Made from BDR30. Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \land \infty \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geqslant \equiv \lor ! " * $ % & '() * +, -. / :; < = > ? @ [$ $\] ↑ ← ' { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDR40	15 point Bodoni (height = 40 pixels = 30 + 10, width ≤ 38) Full SAL set.	by Kurt VanLehn
ABCDE	FGHIJ KLMNO PQRST UVWXYZ abcde fghij	klmno pqrst
	01234 56789 $\downarrow \propto \beta \land \neg \in \pi \lambda \infty \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _$ & '() * + , / :; < = > ? @ [\] $\uparrow \leftarrow ` \{ \}$	$\rightarrow \sim \neq \leq \geq \equiv \vee$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Find a Font

BDI40 15 point Bodoni Italic (height = 40 pixels = 33 + 7, width ≤ 43) by Tovar Extremely ragged; made from BDI25. Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \land \infty \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow =$ $\rightarrow \sim \neq \leq \geq \equiv \lor ! " \# \$ \% \& `() * + , - . / :; < = > ? @ [\] \uparrow \leftarrow ` {$]

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

BDR66 25 point Bodoni (height = 66 pixels = 51 + 15, width ≤ 63) by Tovar ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \lambda \infty \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq$ $\leq \geq \equiv \lor ! " \# \$ \% \& `() * + , - . / :; < = > ? @$ $[\land] \uparrow \leftarrow ` \{ \}$ If time be of all things the most precious,

wasting time must be, as Poor Richard says, the greatest prodigality;

10

Clarendon

CLAR30 14 point Clarendon (height = 37 pixels = 27 + 10, width \leq 39) by Paul Martin Missing $\downarrow \beta \land \neg \in \pi \lambda \otimes \partial \cap \cup \otimes \leftrightarrow _ \sim \leq \geq \vee ! \& * < \geq \otimes \uparrow \{ \}.$ ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\triangleleft \subset \supset \forall \boxdot \rightarrow \neq \equiv " \# \$ \% ? () + , - .$ /:; =? [\] + * |

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

SAILON-74

Find a Font

Coronet

CORON 18 point Coronet Bold (height = 48 pixels = 37 + 11, width ≤ 51) by Stan Kugell A cursive set of letters, digits, and a little punctuation. Rather uneven. ABCDE JGAJJ KLMMO PQRSJ UVWXYZ abcde fghij klmno parst unwayz 01234 56789 ; ; . .

> Little Bo Peep has lost her sheep, and cant tell where to find them; Leave them alone and theyll come home, and bring their tails behind them. Little Bo Peep fell fast asleep, And dreamt she heard them bleating; But when she awoke, she found it a joke, For they were still a fleeting.

Countdown

 CNT57
 22 point Countdown (height = 57 pixels = 50 + 7, width ≤ 68)

 Upper case letters only.

 CNT57

by Paul Martin

COURTOOLUR HRS NO INTEGERS TO COURT DOLLA LUTH BUT IT COMPENSATES BU RENG INFERRE PROFILIENT

Variable Width

Meteor

All the Meteor fonts have the same (mostly ASCII) character set. File name suffixes are interpreted as follows: S = small, M = medium, L = large, I = italic, B = bold.

 METS
 10 point Meteor (height = 25 pixels = 20 + 5, width ≤ 28)
 by @SHY

 ASCII set less ' plus _ ~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 _ ~!" # \$ % & '() * + ,

 ./:i < = >? @[\] + { []

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METSI
 10 point Meteor Italic (height = 25 pixels = 20 + 5, width ≤ 23)
 by @SHY

 ASCII set less ' plus _ ~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde tghlj klmno pqrst uvwxyz 01234 56789
 ~!" # \$ % & ' () *

#BCDE FGHIJ KLMNO FGHIJ UVWXY2 #0cde rghij kimno pqrst uVWXy2 01234 56789 _ ~ ! * # 5 % & () * +,-./!!< =>? @[\]++{[]

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough. Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METSB
 10 point Meteor Bold (height = 25 pixels = 20 + 5, width ≤ 26)
 by @SHY

 ASCII set less ' plus _ ~.
 .

 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 _ ~ ! " # \$ % & ' ()

 *+, -. / :; < = > ? @[\] + + { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METSBI
 10 point Meteor Bold Italic (height = 25 pixels = 20 + 5, width ≤ 24)
 by @SHY

 ASCII set less ' plus _ ~.
 ABCDE FGHIJ KLMNO PORST UVWXYZ abcde 1ghij klmno pqrst uvwxyz 01234 56789 _ ~!" # \$ % & '()

 * + , - . / ii < = > ? @[]] + {]}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality, since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Find a Font

METM12 point Meteor (height = 30 pixels = 21 + 9, width ≤ 33)by @SHYASCII set less ' plus _ ~.ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 __ ~!" # \$ % & '()*+,-./:;<=>?@[\]++{|}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METMI
 12 point Meteor Italic (height = 30 pixels = 21 + 9, width ≤ 31)
 by @SHY

 ASCII set less ' plus _ ~.
 ABCDE ECHLI KIMNO POPST UNIVERSE abode fabili kimpo paret universe 01224 55789

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METMB
 12 point Meteor Bold (height = 30 pixels = 21 + 9, width ≤ 36)
 by @SHY

 ASCII set less ' plus _ ~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234.

 56789 _ ~!"# \$ % & '() * + , - . / : ; < = > ? @[\] + + {|}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

METMBI 12 point Meteor Bold Italic (height = 30 pixels = 21 + 9, width ≤ 32) by @SHY ASCII set less ' plus _ ~.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 __~!" # \$ % & '() * +, -. /:; < = >?@[\] + { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Variable Width

Meteor (continued)

METL14 point Meteor (height = 35 pixels = 28 + 7, width ≤ 34)by @SHYASCII set less ' plus _ ~.ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 0123456789~!"#\$%&'()*+,-./:;<=>?@[\]++{]}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

METLI14 point Meteor Italic (height = 35 pixels = 28 + 7, width \leq 33)by @SHYASCII set less ' plus _ ~.ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz01234 56789 \sim ! " # \$ % & ' () * + , - . / : ; < = >? @ [\] + \leftarrow {] }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METLB
 14 point Meteor Bold (height = 35 pixels = 28 + 7, width ≤ 37)
 by @SHY

 ASCII set less ' plus _ ~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz

 01234 56789
 ~! "#\$ % & '() * +, -./:; < = >? @[\]↑ + {]}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 METLBI
 14 point Meteor Bold Italic (height = 35 pixels = 28 + 7, width ≤ 37)
 by @SHY

 ASCII set less ' plus _.~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz

 01234 56789 __~!" # \$%&'() * +, -./:; <=>? @[\] + + {|}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

SAILON-74

Find a Font

Microgramma

MICR25 10 point Microgramma (height = 25 pixels = 20 + 5, width ≤ 16) by @CMU Full SAIL set.

ABCDE FGHIJ KLMND PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz D1234 56789 $\downarrow \propto \beta$ $\land = \in \pi \land \infty \land \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " # 5 \% & '() \Rightarrow +, -./:; < = > ? @ [\] \uparrow \leftarrow ' { [~$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

News Gothic

NGR13 6 point News Gothic (height = 14 pixels = 11 + 3, width ≤ 13) by @CMU Rather unreadable. Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fehij klmne parst uvwXyz 01234 56789 1 @ # A ~ En X @ d = > N U Y 3 @ + _ + + # 52 + V 1" + \$ \$ 8 '() + +, -, / : : <+>? # [\] t + '[]

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality: since, as he elsewhere tells us, lost time is never found again; and what we call time enough, stways proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with loss perplexity.

 NGR20
 9 point News Gothic (height = 21 pixels = 16 + 5, width ≤ 18)
 by @CMU

 Full SAIL set.
 ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno porst uvwxyz 01234 56789 ↓ ∝ β ∧ ¬ ∈ π λ ∞ ∂ c ⊃ ∩ U ∀ 3 ⊗ ↔ _ → ~ ≠ ≤

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij kimno pqrst uvwxyz 01234 56789 $\downarrow \propto /3 \land \neg \in \pi \land \infty \partial c \supset \Pi \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq = v ! " # $ 7 & '() + +, - /:; < = > ? @ [\] ↑ <math>\leftarrow `{|}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NGI20 8 point News Gothic Italic (height = 20 pixels = 16 + 4, width ≤ 18) by ? Letters only.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz

If time be of all things the most precious wasting time must be as Poor Richard says the greatest prodigality since as he elsewhere tells us lost time is never found again and what we call time enough always proves little enough. Let us then up and be doing and doing to the purpose so by diligence shall we do more with less perplexity.

17

NGR2510 point News Gothic (height = 26 pixels = 20 + 6, width ≤ 23)by @CMUThis is a good size for compact text. Full SAIL set.ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \lambda \infty$ $\partial \subset \supset \cap \cup \forall \exists \Leftrightarrow \Box \rightarrow \sim \neq \leq \geq \equiv \lor ! " # \$ \% \& ? () * + , - . / :; < = > ? @ [] \uparrow \leftarrow ` {] }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NGI25 10 point News Gothic Italic (height = 25 pixels = 20 + 5, width ≤ 23) by @CMU Letters only.

ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno porst uvwxyz

If time be of all things the most precious wasting time must be as Poor Richard says the greatest prodigality since as he elsewhere tells us lost time is never found again and what we call time enough always proves little enough. Let us then up and be doing and doing to the purpose so by diligence shall we do more with less perplexity.

NGB25 10 point News Gothic Bold (height = 26 pixels = 20 + 6, width ≤ 23) by @CMU Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij kimno pqrst uvwxyz 01234 56789 $\downarrow \propto \beta \land \neg \in \pi \land \infty \partial = \neg \cap U \lor \exists \otimes \leftrightarrow _ \rightarrow \sim \not f \le 2 \equiv \lor 1 " = $ \% \& '() * + , - . / : ; < = > ? @ []] \uparrow \leftarrow ' {] }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NGR30 12 point News Gothic (height = 31 pixels = 24 + 7, width ≤ 31) Missing $\downarrow \propto \beta \neg \lambda \otimes \partial \subset n \cup \exists \otimes \leftrightarrow \leq \geq \pi$. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvw×yz 01234 56789 ∧ $\in \pi \supset \forall _ \rightarrow \sim \neq \lor 1$ " # \$ % & '() * + , - . / ; ; < = > ? $\otimes [\setminus] \uparrow \leftarrow ` \{ | \}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NGB3012 point News Gothic Bold (height = 31 pixels = 24 + 7, width \leq 32)by TovarMissing $\downarrow \propto \beta \neg \lambda \otimes \partial \subset \cap \cup \exists \bullet \leftrightarrow \leq \geq \pi$.ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\land \in \pi \supset \forall _ \rightarrow \sim \neq \lor ! " # $ \% \& ? () \neq +, - . / :; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity. SAILON-74

Find a Font

NGR40L 16 point News Gothic (height = 42 pixels = 32 + 10, width ≤ 37) by Tovar Full SAIL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz Ø1234 56789↓ $\alpha \beta \land \neg \in \pi \lambda \infty \partial \subset \neg \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " \#$ \$ % & '() * + , - . / : ; < = > ? @ [\]] ↑ ← ' {] }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NGR40 16 point News Gothic Medium (height = 41 pixels = 32 + 9, width ≤ 37) by David Levy Has only alphabet, digits and a little punctuation. ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 + - / ":;,?.

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NGB40 15 point News Gothic Bold (height = 40 pixels = 32 + 8, width ≤ 3) by Andy Moorer Rather ragged, alas. Full SAIL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 ↓ $\propto \beta \land \neg \in \pi \land \infty \partial \subset \supset \cap U \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor !$ "*\$7.&'()*•, -./:; <=>? @[\]↑ ← '{|}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Variable Width

Nonie

All the Nonie fonts have the same (mostly ASCII) character set. File name suffixes are interpreted as follows: S = small, M = medium, L = large, l = italic, B = bold.

 NONS
 10 point Nonie (height = 25 pixels = 20 + 5, width ≤ 23)
 by @SHY

 ASCII less ' plus _ ~.

 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghlj klmno pqrst uvwxyz 01234 56789 _ ~ ! " # \$ % & ' () * + , - . / : ; < =</td>

 > ? @ [\] + + { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NONSI 10 point Nonie Italic (height = 25 pixels = 20 + 5, width ≤ 21) by @SHY ASCII less ' plus _ ~.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij kimno pqrst uvwxyz 01234 56789 _ ~ ! " # \$ % & ' () * + , - . / :; < = > ? @ [\] + + { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 NONSB
 10 point Nonie Bold (height = 25 pixels = 20 + 5, width ≤ 25)
 by @SHY

 ASCII less ' plus _ ~.
 ASCII less ' plus _ ~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 _ ~! " # \$ % & ' () * + , - . /
 :; < = > ? @ [\] ! + {] }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NONSBI 10 point Nonie Bold Italic (height = 25 pixels = 20 + 5, width ≤ 23) by @SHY ASCII less ' plus _ ~. ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno porst uvwxyz 01234 56789 _ ~!" # \$ % & ' () * + , -./:; < = >? @[\]++{[]

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 NONM
 12 point Nonie (height = 30 pixels = 21 + 9, width ≤ 27)
 by @SHY

 ASCII less ' plus _ ~.

 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghlj klmno pqrst uvwxyz 01234 56789 _ ~ ! " #

 \$ % & ' () * + , - . / : ; < = > ? @ [\] t ← { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 NONMI
 12 point Nonie Italic (height = 30 pixels = 21 + 9, width ≤ 26)
 by @SHY

 ASCII less ' plus _ ~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghlj klmno pqrst uvwxyz 01234 56789 _ ~ ! "
 # \$ % & ' () * + , - . / : ; < = > ? @ [\] 1 + { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 NONMB
 12 point Nonie Bold (height = 30 pixels = 21 + 9, width ≤ 30)
 by @SHY

 ASCII less ' plus _ ~.
 ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij kimno pqrst uvwxyz 01234 56789 _ ~

 I " # \$ % & ' () * + , - . / : ; < = > ? @ [\] t + {] }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Var	iab	le '	Wi	idt	h
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Nonie (continued)

NONL 14 point Nonie (height = 35 pixels = 28 + 7, width ≤ 33	by @SHY
ASCII less ' plus _ ~.	
ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno	pqrst uvwxyz 01234 56789
_~!"#\$%&'()*+,/:;<=>?@[\]++{	()

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 NONLI
 14 point Nonie Italic (height = 35 pixels = 28 + 7, width ≤ 32)
 by @SHY

 ASCII less ' plus _ ~.

 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789

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

if time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

NONLB14 point Nonie Bold (height = 35 pixels = 28 + 7, width \leq 34)by @SHYASCII less ' plus _ ~.ABCDE FGHIJ KLMINO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 0123456789 \sim ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] + \leftarrow { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

 NONLBI
 14 point Nonie Bold Italic (height = 35 pixels = 28 + 7, width ≤ 34)
 by @SHY

 ASCII less ' plus _~.
 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij kimno pqrst uvwxyz 01234

 56789
 ~!"#\$%&'()*+,-./:;<<=>?@[\] t + {|}

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Øld English

OLDENG 12 point Old English (height = 30 pixels = 24 + 6, width ≤ 26) by ? Letters, digits, and a little punctuation. AWODE MOBILI REMAND HORST UNHXIIZ abede fahil klumo parst ubuxyz 01234 56789 `. - . : ;

> Thus the might before Christmas, when all through the house Not a creature was stirring, not even a mouse: The stockings were hung by the chinney with care. In hopes that St. Nicholas soon would be there:

XMAS25 14 point Old English (height = 37 pixels = 28 + 9, width ≤ 70) by Bruce Baumgart Letters, digits, and a little punctuation.

REQUE FOULD KINNO PORST UYWXYZ abede fahij klmno parst nywxyz 01234 56789 . . : :

> The children were nestled all snug in their beds, While visions of sugar plums danced in their heads; And mamma in her kerchief, and I in my cap, Mad just settled our brains for a long winters nan.

XMAS40 17 point Old English (height = 43 pixels = 35 + 8, width ≤ 56) by Tovar Letters and digits only (no punctuation). ABUBE FGHIJ PORST UVWX KIMNO abcde fahij klimno porst uvwxyz 01234 56789

When out on the lawn there arose such a clatter I sprang from the bed to see what was the matter Away to the window I flew like a flash Tore open the shutters and threw up the sash

Old German

GERM35 15 point Old German (height = 40 pixels = 31 + 9, width ≤ 32) by Robert Maas Letters and a little punctuation only (latter contributed by Bill van Melle). UBCDG FGGSS ALWRO BORGE 11823298 abde fghil timno parit unwebs ! "'(), . : ; ? Supplementary: ∞→ä β→β ∞→ö ∨→ü S→5 ∪→Ü ∀→Ü →→ ∞→" →> :→.

In olden times when wishing still helped one, there lived a ting whose daughters were all beautiful, but the youngest was so beautiful that the sun itself, which has seen so much, was astonished whenever it shone in her sace.

GERM70 26 point Old German (height = 68 pixels = 60 + 8, width ≤ 63) by Dave Barstow Letters and period only.

ABCDE FUHJJ ALMNO PORST UVERENS abcde fghii flmno parst uvwryz.

Der schnelle braune Por hat den faulen Pubuebersprungen.

Original City Lights

CTL2510 point Original City Lights (height = 26 pixels = 19 + 7, width ≤ 25)by @CMUFull SAIL set.Full SAIL set.

ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno pqrst uvwxyz $0123456789 \downarrow \propto \beta \land \neg \in \pi \land \infty \partial \subset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " # $ % & '() * + , - . / : ; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Playbill

PLAYBI14 point Playbill (height = 36 pixels = 27 + 9, width ≤ 16)by TovarA slim font with many missing characters (e.g. digits 4-9).by TovarAJCDE FGHIJ KLWNO PORST UVWXYZ abede fghij klmae perst uvwxyz 0123 = $e \leq 2 < > / * + - & $ % () [] * ':;...?!$

Now playing: a film that depicts the struggle against environmental pollution by a courageous woman. Marilyn Chambers gives a spirited performance in "Behind the Green Door". Coming soon: a penetrating examination of an amazing talent. In "Deep Throat", Linda Lovelace gives a stirring performance of great depth.

SAILON-74

Quux

QUUV25 10 point Quux Variable Bold (height = 25 pixels = 20 + 5, width ≤ 25) by TGQ @MIT Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \alpha \beta \land \neg \in \pi \lambda \otimes \partial \subset \supset \cup \cap \forall \exists \otimes + \rightarrow \sim \neq \leq \geq \equiv \vee ! " \# \$ % & '$ $() * +, -. /:; < = > ? @[\] <math>\uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

SCICOD C

THE SHADOM FONT IS AN EXCELLENT CHOICE FOR PROFOUND PREDICTIONS, IT HAS THE ADVANTAGE OF BEING ALMOST UNREADABLE,

SIGN

SIGN5722 point Sign (height = 57 pixels = 50 + 7, width ≤ 95)
Upper case letters, digits, and a little punctuation only.by @CMUABCDEFGHIJKLMNOPQRSTUVWXYØ123456789 \Rightarrow * , -. / : ; \Leftrightarrow Substitutions: $| \rightarrow m_{r} \rightarrow m_{r}$

THIS FONT WAS INVENTED BY A DRAFTSMAN WHO HAD LOST HIS FRENCH CURVE.

Variable Width

SIGN (continued)

CLEANLINESS IS NEXT TO IMPOSSIBLE.

4. FIXED WIDTH REGULAR FONTS

Courier

COR20 8 point Courier (height = 20 pixels = 16 + 4, width = 16) by OSHY Similar to IBM Selectric Courier. ASCII set less ' { | } plus _.

ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 _ ! " # \$ % & ' () * + , -.. / : ; < = > ? @ [\] ↑ +.

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality, since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Delegate

SAIL25 by ? 10-point Delegate (height = 25 pixels = 20 + 5, width = 17) Similar to IBM Selectric Delegate, Full SAIL set.

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 $\downarrow \alpha$ $\beta \land \neg \in \pi \land \infty \partial \subset \neg \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow ~ \neq \leq \geq \equiv \lor i " \# \$ \$ \S ' () * + , - . /$:; < = > ? @ [\] $\uparrow \leftarrow '$ (|)

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Fix

The Fix fonts have are modelled after our line printer character set and are all complete.

FIX13 6 point Fix (height = 14 pixels = 11 + 3, width = 9) by @CMU A small and rather illegible font. Full SAIL set. ABCDE FGHIJ ELMNO PQPST UUHXYZ abede fehij klmno porst uv∺yz 01234 56789 i ∞ β ∧ ¬ ∈ n λ m ∂ ⊂ ⊃ ∩ U Y 3 # + _ + - # 5 ≥ % ∨ ! * # \$ ≿ \$ ` () # + , - , / ; ; (+ > ? # [\] 1 + ' (])

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found grain; and what we call time enough, elways proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

FIX13X 6 point Fix Bold (height = 14 pixels = 11 + 3, width = 10)

If time be of all things the apet precious, westing time aust be, as Poor Richard says, the greatest prodigality) since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough; Let us then up and be doing, and doing to the purpose; se by diligence shall we do more with less perplexity.

FIX20 9 point Fix (height = 21 pixels = 15 + 6, width = 12) by @CMU A good size for compact text. Full SAIL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij kimno pqrst uvwxyz 81234 56789 ↓ σβΛ¬ επλ ⊷ ∂ ⊂ ⊃ Π U ∀ ∃ ■ ⊷ _+~#≤≥#v!"#\$%&'()*+,-./s;<=>?@[\]↑+'[])

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

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Find a Font

Fixed Width

FIX25 10 point Fix (height = 25 pixels = 20 + 5, width = 16) by @CMU The closest thing to a "standard font" that we have. This is the default font if you don't specify one. Full SAIL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz Ø1234 56789 $\downarrow \alpha \beta \land \neg \in \pi \lambda \infty \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " \# \$ \% \& '() * + , - . / : : < =$

 $\neg \in \pi \land \infty \circ C \supset \Pi \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq 2 \equiv \lor ! = \# a \land \diamond = (1 \ast + , - \cdot / : ; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

LPT 10 point Line Printer (height = 25 pixels = 20 + 5, width = 18) by Tovar Same as FIX25, but with character width increased to match our line printer. Full SALL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz Ø1234 56789 $\forall \alpha \beta \land \neg \in \pi \lambda \otimes \partial c \supset \cap \cup \forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " \# \$ \% \&$ ' () * + , - . / : ; < = > ? @ [\] ↑ + ' {] }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

FIX25X10 point Fix Bold (height = 25 pixels = 20 + 5, width = 17)by TovarMade by "fattening" FIX25. Full SAIL set.ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno porst uvwxyz Ø1234 56789 \$\u03c6 \u03c6 \u

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

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SAILON-74

Find a Font

FIX3012 point Fix (height = 30 pixels = 25 + 5, width = 19)by TovarFull SAIL set.ABCDE FGHIJ KLMND PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 0123456789 $\psi \alpha \beta \land \neg \in \pi \lambda \infty \partial c \supset \cap U \forall \exists \otimes \leftrightarrow \neg \leftrightarrow \neg \neq \leq \geq \equiv \lor ! " \# \$ % & \cdot () * + , - . / : ; < = > ? @ [\] \uparrow \leftarrow ` { | }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

FIX4015 point FIX (height = 40 pixels = 33 + 7, width = 25)by TovarGenerated from FIX25--a bit inconsistent. Full SAIL set.ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijkImnopqrstuvwxyzØ123456789 $\checkmark \alpha \beta \land \neg \in \pi \lambda \infty \partial \subset \supset \cap U$ $\forall \exists \otimes \leftrightarrow _ \rightarrow \sim \neq \leq \geq \equiv \lor ! " \# \$ % \& ' () * + , - ./ : ; < = > ? @ [\] \uparrow \leftarrow ' {] }$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Gacham

GACL16 7 point Gacham (height = 16 pixels = 11 + 5, width = 10) by @SHY ASCII set less \ ' plus ~. ABCDE FOHTJ KLMNO PORST UVVXYZ abcde fghtj klmno porst uvvxyz 01234 56789 ~ 1 " # \$ X & ' () * + , - . / : ; < - > 7 @ [] * + (]

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

GACL18 8 point Gacham (height = 18 pixels = 13 + 5, width = 12) by @SHY ASCII set less ' plus _ ~. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 _ ~ ! " # \$ % & ' () • + , - . / : 1 < • > 7 • [\] + • (])

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perpiexity.

GACL22 9 point Gacham (height = 21 pixels = 17 + 4, width = 13) by @SHY ASCII set less ' plus _ ~. ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij kimno porst uvwxyz 01234 56789 _ ~ ! " # \$ % & ' () * +

. - . / : ; < = > ? @ [\] # + { | }

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

GACL25 10 point Gacham (height = 25 pixels = 20 + 5, width = 14) by @SHY ASCII set plus _ ~. ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno porst uvwxyz 01234 56789 _ ~ ! " # \$ % & < () * + , - . / : ; < = > ? @ [\] ↑ + ` { | } If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing_ to the purpose; so by diligence shall we do more with less perplexity. GACI25 10 point Gacham Italic (height = 25 pixels = 20 + 5, width = 16) by @SHY ASCII set less ' plus _ ~. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 _ ~ / " # \$ % & ' () # + , - . / : ; < = > ? @ [\] + + { | } If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity. GACB25 10 point Gacham Bold (height = 25 pixels = 20 + 5, width = 16) by @SHY Full SAIL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 🖡 α β ∧ ¬ ε π λ ∞ θ c ⊃ n u V ∃ ● + _ + ~ ≠ ≤ ≥ ≡ v ! " # \$ % & ' () * + , - . / : ; < =

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

>?@[\]t+'{|}

Fixed Width

Quux

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Set 1

SET113 point Set1 (height = 34 pixels = 23 + 11, width = 23)by TovarThis was the first SAIL font. Full SAIL set.by Tovar

ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz Ø1234 56789 $\downarrow \alpha \beta \land \neg \in \pi \lambda \infty a \subset \supset \cap \cup \forall \exists \otimes \Leftrightarrow _$ $\rightarrow \sim \neq \leq \geq \equiv \sim ! " \# \$ \% \& `() * + , - . / : ; < = > ? @$ [\] $\uparrow \leftarrow ` \{ | \}$

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

SET11. 13 point Set1 Italic (height = 33 pixels = 24 + 9, width = 26) by Tovar-Full SAIL set. ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij kimno pqrst $uvwxyz \emptyset 1234 56789 \downarrow \alpha \beta \land \neg \in \pi \lambda \approx \partial \subset \supset \cap \cup \forall \exists \otimes \leftrightarrow _$ $\rightarrow \sim \neq \leq \geq \equiv \lor ! " \# \$ \% \& '() * + , - . / : ; < = > ? @$ [\] ↑ ← '(|)

If time be of all things the most precious, wasting time must be, as Poor Richard says, the greatest prodigality; since, as he elsewhere tells us, lost time is never found again; and what we call time enough, always proves little enough: Let us then up and be doing, and doing to the purpose; so by diligence shall we do more with less perplexity.

Find a Font

by ?

4. SPECIAL FONTS

APL

APL25 10 point APL symbols (height = 25 pixels = 20 + 5, width ≤ 27) Includes Iverson's weird collection of operators.

ABCDE FGIIIJ KLMNO PORST UVWXYZ 01234 56789↓ & ∧ € ⊂ ⊃ ∩ U ∀ ∃ ↔ _ ~ # ≤ ≥ ∨ !\$ '() * +, -./:;<=>?[\]↑←{|} Special operators: ¬→¯ π→\φλ→Ι ∞→□ ∂→● ⊗→f →→→ "→A #→Ⅳ @→日 a→Φ b→⊥ c→4 d→l e→⊽ f→∃ g→⊽ h→Δ

i→1 j→ k→¢ l→□ m→e n→T 0→0 p→A q→¥ r→p s→l t→♥ u→t v→+ w→.. x→x y→⊡ z→x

Astrology

ASTR25 9 point Astrology (height = 22 pixels = 20 + 2, width ≤ 26) Aspects are incomplete.

Solar system: Sun 0→⊙ Mercury 1→♀ Venus 2→♀ Earth 3→⊕ Mars 4→♂ Jupiter 5→4 Saturn 6→h Uranus 7→8 Neptune 8→¥ Pluto 9→¥

d→° Moon ⊃→D Ascending node ∩→Ω Descending node U→℃

Zodiac: Aries A→T Taurus B→8 Gemini C→I Cancer D→S Leo E→S Virgo F→M Libra G→≏ Scorpius H→M Sagittarius I→A Capricornus J→B Aquarius K→∞ Pisces L→H

Chess

CHS50 19 point Chess pieces (height = 50 pixels = 40 + 10, width ≤ 50) Should be used with interline spacing set to zero.

by @CMU

by Tovar



HTTTTTTTX

VZZAZF VZZZOF V o Z Z ZF VZZZF V M Z Z ZF V iPZ Z Z F V ZKZ Z ZF VZZZZF MUUUUUUUUG



White mates in three moves.

32
Special Fonts

Cyrillic

CYR25 12 point Light Cyrillic (height = 29 pixels = 24 + 5, width ≤ 28) by Tovar Has no punctuation.

АБВГД ЕЁЖЗИ ЙКЛМН ОПРСТ УФХЦЧ ШЩЪЫЬ ЭЮЯ абвгд еёжзи йклмн опрст уфхцч ищъыь эюя Transliteration: $A \rightarrow A \ B \rightarrow B \ V \rightarrow B \ G \rightarrow \Gamma \ D \rightarrow Д \ E \rightarrow E \ % \rightarrow E \ \uparrow \rightarrow Ж \ Z \rightarrow 3 \ | \rightarrow H \ Y \rightarrow H \ K \rightarrow K \ L \rightarrow J \ M \rightarrow M \ N \rightarrow H \ O \rightarrow O \ P \rightarrow \Pi \ R \rightarrow P \ S \rightarrow C \ T \rightarrow T \ U \rightarrow Y \ F \rightarrow \Phi \ H \rightarrow X \ \leftarrow \rightarrow Ц \ # \rightarrow H \ @ \rightarrow Ш \ & \rightarrow Ш \ ' \rightarrow D \ = \rightarrow b \ \cap \rightarrow b \ U \rightarrow 9 \ \subset \rightarrow H \ O \rightarrow A \ B \rightarrow G \ V \rightarrow B \ g \rightarrow r \ d \rightarrow g \ e \rightarrow e \ S \rightarrow e \ \downarrow \rightarrow ж \ Z \rightarrow 3 \ i \rightarrow H \ Y \rightarrow H \ N \rightarrow H \ O \rightarrow O \ P \rightarrow \Pi \ P \rightarrow H \ A \rightarrow K \ Z \rightarrow 3 \ i \rightarrow H \ Y \rightarrow H \ A \rightarrow K \ Z \rightarrow 3 \ i \rightarrow H \ Y \rightarrow H \ A \rightarrow K \ Z \rightarrow 3 \ i \rightarrow H \ Y \rightarrow H \ A \rightarrow K \ Z \rightarrow 3 \ Z \rightarrow K \ A \rightarrow K \ Z \rightarrow S \ Z \rightarrow K \ Z$

Весна Я не понимаю Это не роза

CYR30 15 point Medium Cyrillic (height = 39 pixels = 31 + 8, width ≤ 37) by Tovar Uses the same transliteration scheme as CYR25 and has digits but no punctuation.

АБВГД ЕЁЖЗИ ЙКЛМН ОПРСТ УФХЦЧ ШЩЪЫЬ ЭЮЯ абвгд еёжзи йклмн опрст уфхцч шщъыь эюя 01234 56789

Весна Я не понимаю Это не роза

Decoration

CRTURZ 57 point Creatures (height = 155 pixels = 124 + 31, width ≤ 200) by Bonnie Dazell @MIT Beasties contributed by various people at MIT.

Q

C-



CORNER 74 point Corner Decorations (height = 202 pixels = 106 + 96, width ≤ 148) by Stan Kugelt

Special Fonts

Graphics

GRFX25 10 point Graphics (height = 25 pixels = 20 + 5, width = 16) by Paul Martin Graphics font for making block diagrams, as described in GRFX.XGP[UP,DOC]. Identical to FIX25 except for the substitutions listed below.

ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 ↓ ∞ ↔ _ → ≠ ≡ ∨ ! " () * + , - . /:; < = > ? [∞] ↑ ← { | }

GRFX35 14 point Graphics (height = 35 pixels = 23 + 12, width = 16) by Dave Barstow Graphics font for making block diagrams, as described in GRFX.XGP[UP,DOC]. Identical to FIX25 except for the substitutions listed below.

ABCDE FGHIJ KLMNO PORST UVWXYZ abcde fghij klmno pqrst uvw×yz 01234 56789 ↓ ∞ ↔ _ → ≠ ≡ ∨ ! " (_) * + , - . /:; < = > ? [∞] ↑ ← { | }

Example: this source

produces this.

Cαααααπααααα⊃ cαααααπααααα⊃
~ # ~ # αβααααα→~ B ~ NIL ~
%ααβαα∀ααααα\$ %ααααα∀ααααα\$
~ cαααααπααααα⊃
%α→~ A ~ NIL ~
%ααααα∀ααααα\$



Greek

The larger Greek fonts below (40 and 50) are needlessly ragged. Brian Reid of CMU has done some cleaning-up that will appear shortly after this catalog goes to press. All of the Greek fonts use the following transliteration scheme.

 $\begin{array}{l} A \rightarrow A \quad B \rightarrow B \quad G \rightarrow \Gamma \quad D \rightarrow \Delta \quad E \rightarrow E \quad Z \rightarrow Z \quad H \rightarrow H \quad Q \rightarrow \Theta \quad i \rightarrow I \quad K \rightarrow K \quad L \rightarrow \Lambda \quad M \rightarrow M \quad N \rightarrow N \quad X \rightarrow \Xi \quad O \rightarrow O \quad P \rightarrow \Pi \quad R \rightarrow P \quad S \rightarrow \Sigma \quad T \rightarrow T \\ U \rightarrow \Upsilon \quad F \rightarrow \Phi \quad C \rightarrow X \quad Y \rightarrow \Psi \quad W \rightarrow \Omega \quad a \rightarrow \alpha \quad b \rightarrow \beta \quad g \rightarrow \gamma \quad d \rightarrow \delta \quad e \rightarrow \epsilon \quad z \rightarrow s \quad h \rightarrow \eta \quad q \rightarrow \theta \quad i \rightarrow \iota \quad k \rightarrow \kappa \quad I \rightarrow \lambda \quad m \rightarrow \mu \quad n \rightarrow \nu \quad x \rightarrow \xi \quad o \rightarrow O \quad p \rightarrow \pi \\ r \rightarrow \rho \quad s \rightarrow \sigma \quad t \rightarrow \tau \quad u \rightarrow U \quad f \rightarrow \phi \quad c \rightarrow X \quad y \rightarrow \psi \quad w \rightarrow \omega \end{array}$

Integrals (if present): \$→5 %→\$

GRK25 10 point Greek (height = 26 pixels = 21 + 5, width ≤ 29) by Tovar Alphabet only. Transliteration scheme given above. ΑΒΓΔΕ ΖΗΘΙΚ ΛΜΝΞΟ ΠΡΣΤΤ ΦΧΨΩ αβγδε ζηθικ λμνξο προτυ φχψω GRKL30 14 point Greek (height = 35 pixels = 25 + 10, width ≤ 32) by Andy Moorer & Tovar Alphabet, parentheses and integrals. Transliteration scheme given above. ΑΒΓΔΕ ΖΗΘΙΚ ΛΜΝΞΟ ΠΡΣΤΥ ΦΧΨΩ αβγδε ζηθικ λμνέο προτυ φχψω () 5 \$ V = trailing Sigma S GRK30 13 point Greek Medium (height = 32 pixels = 27 + 5, width ≤ 35) by Tovar Alphabet'only. Upper case heights very uneven. Transliteration scheme given above. ΑΒΓΔΕ ΖΗΘΙΚ ΛΜΝΞΟ ΠΡΣΤΥ ΦΧΨΩ αβγδε ζηθικ λμυξο προτυ φχψω ~= trailing signa GRKB30 12 point Greek Bold (height = 31 pixels = 25 + 6, width ≤ 32) by Andy Moorer & Tovar Alphabet plus integrals. Transliteration scheme given above. ΑΒΓΔΕ ΖΗΘΙΚ ΛΜΝΞΟ ΠΡΣΤΥ ΦΧΨΩ αβγδε ζηθικ λμνξο πρστυ φχψω δ \$ GRKL40 16 point Greek (height = 42 pixels = 32 + 10, width ≤ 40) by Andy Moorer Alphabet and Integrals. Transliteration scheme given above. ΑΒΓΔΕ ΖΗΘΙΚ ΛΜΝΞΟ ΠΡΣΤΥ ΦΧΨΩ αβγδε ζηθικ λμυξο προτυ σχψω 5 φ GRKB40 15 point Greek Bold (height = 40 pixels = 32 + 8, width ≤ 40) by Andy Moorer Alphabet and integrals. Transliteration scheme given above. ΖΗΘΙΚ ΛΜΝΞΟ ΠΡΣΤΤ ΦΧΨΩ αβγδε ζηθικ λωνέο ΑΒΓΔΕ πρστυ φχψω 5 \$ **GRKL50** 22 point Greek (height = 57 pixels = 41 + 16, width \leq 49) by Andy Moorer Alphabet, parentheses, and integrals. Very ragged and uneven in lower case heights. Transliteration scheme given above. ABFAE ZHOIK AMNEO $\Pi P \Sigma T T \Phi X \Psi \Omega \alpha \beta \gamma \delta \epsilon$ so the second se λμνξο προτυ φχψω () 5 Φ

GRKB50 19 point Greek Bold (height = 50 pixels = 40 + 10, width \leq 49) by Andy Moorer Alphabet and Integrals. Rather ragged. Transliteration scheme given above. **ABFAE ZHOIK AMNEO MPETT \Phi X \Psi \Omega \alpha \beta \gamma \delta \epsilon (how)** $\lambda \mu \nu \xi \sigma \pi \rho \sigma \tau \nu \phi X \psi \omega \int \phi$

36

SAILON-74

Find a Font

Special Fonts

Hands

FING

FINGA

55 point Hands (height = 150 pixels = 150 + 0, width \leq 125) Alphabet only.

F→ (1) G. () (7) H Contraction E→ [91] D→ C→ 202 A 0, A M-N→ A String - Comp and the X 0 Ser. YY. AS R. ASS. ASS.

55 point Hand Alphabet (height = 150 pixels = 150 + 0, width \leq 125) Alphabet only in both forms.

A

-

A

by @MIT

E.

ANT I

Ar.

Per

37

by @MIT

Find a Font

Hebrew

HBRW25 17 point Hebrew (height = 45 pixels = 32 + 13, width ≤ 32) by Raphael Finkel Includes all final forms and Yiddish characters.

Transliteration: A+RA+RB+2b+2 π +3G+1D+1U+1U+1V+1Z+1X+1T+2Y+ii+iy+"I+2"K+2A+2I+2"I+

Vowels and special characters: $\land \rightarrow <$ half space> $\otimes \rightarrow <$ full space> $\lambda \rightarrow , \ \Box \rightarrow , \ \Box \rightarrow , \ \forall \rightarrow , \ \downarrow \rightarrow , \ \blacksquare \rightarrow , \ \Box \rightarrow , \ \Box \rightarrow , \ \forall \rightarrow , \ \downarrow \rightarrow , \ \blacksquare \rightarrow , \ \Box \rightarrow ,$

HBRW4024 point Hebrew (height = 64 pixels = 50 + 14, width \leq 29)by Raphael FinkelLacks final forms.Lacks final forms.Transliteration:A \rightarrow B \rightarrow D \rightarrow T \rightarrow D \rightarrow T \rightarrow D \rightarrow T \rightarrow D \rightarrow C \rightarrow D \rightarrow

אבגרה וזחטי כלמסנ סעפצק רשת.

Special Fonts

Mathematics

MATH25 10 point Math (height = 25 pixels = 20 + 5, width ≤ 23)	by Les Earnest
Collected from various fonts.	
$\$ \rightarrow \Sigma \vdash D \rightarrow \nabla \rightarrow \delta + \rightarrow \pm - \rightarrow \mp \times \rightarrow \times \ & \checkmark \rightarrow + \ \downarrow \rightarrow \checkmark \ast \rightarrow \bullet$	
$(\rightarrow \langle)\rightarrow \rangle <\rightarrow \langle \rightarrow \rightarrow \rangle \{\rightarrow \ll \}\rightarrow \gg r \rightarrow \vdash s \rightarrow \dashv T \rightarrow \perp m \rightarrow \parallel a \rightarrow \equiv b \rightarrow \equiv c \rightarrow \exists d \rightarrow \exists e \rightarrow \simeq = \rightarrow \approx$	
and the state was not been been been been and the second state and the second state and	
MATH30 13 point Math (height = 32 pixels = 23 + 9, width ≤ 27) Largely derived from PLUNK.	by Les Earnest
$\propto \land \neg \in c \supset \cap \cup \forall \exists \Leftrightarrow \Rightarrow \sim \equiv ' / C Q R Z [] \in I$	
$\pi \rightarrow \notin \lambda \rightarrow \ni \partial \rightarrow \delta \ \$ \rightarrow \Sigma \ i \rightarrow \int A \rightarrow \And \ \$ \rightarrow \& E \rightarrow E \rightarrow$	
$K \rightarrow \subseteq J \rightarrow \not\subset N \rightarrow \supset M \rightarrow \not\supset L \rightarrow \not\equiv O \rightarrow \not \varnothing$	
$0 \rightarrow \circ e \rightarrow \simeq = \rightarrow \approx < \rightarrow < > \rightarrow > \leq \rightarrow < \langle \rightarrow \rangle < \langle \rightarrow \rangle < \langle \rightarrow \rangle > \Rightarrow > (\rightarrow <) \rightarrow >$	
$ + \rightarrow \pm \rightarrow \mp x \rightarrow x \ \stackrel{\checkmark}{} \rightarrow + \ \stackrel{\checkmark}{} \rightarrow + \ \stackrel{\rightarrow}{} \rightarrow \cdots \rightarrow \therefore \ \stackrel{\rightarrow}{} \rightarrow y \rightarrow x z \rightarrow $	
$0 \rightarrow O \ 1 \rightarrow \Box \ 2 \rightarrow \Delta \ 3 \rightarrow \diamondsuit \ 4 \rightarrow \oplus \ 5 \rightarrow \Theta \ 6 \rightarrow \bigotimes \ 7 \rightarrow \oslash \ D \rightarrow \bigtriangledown$	
a→⊏ b→⊑ c→⊐ d→⊒ p→⊢ q→⊨ r→⊢ s→┤ T→⊥ i→ſ j→1 k→L l→J m→ll n→ll	
MATH40 15 point Math (height = 39 pixels = $33 + 6$, width ≤ 25)	by @MIT
A few big operators.	
s→Z u→L I→J ·→'	· · · · · · · · · · · · · · · · · · ·
MATH50 20 point Math (height = 53 pixels = 35 + 18, width ≤ 34)	by @MIT
More big stuff.	-,
$ \$ \rightarrow \sum \pi \rightarrow \prod 1 \rightarrow \int (\rightarrow \int (\rightarrow () \rightarrow) [\rightarrow]] \rightarrow] \{ \rightarrow \{ \} \rightarrow \} \rightarrow / \rightarrow /] $	
MATH55 21 point Math (height = 55 pixels = 48 + 7, width ≤ 40)	by @MIT
Top of the line.	
$ s \rightarrow \sum_{i \rightarrow j} (i \rightarrow (i \rightarrow)_{i \rightarrow j}) [i \rightarrow]_{i \rightarrow j}] $	

Miscellaneous

ZERO30 13 point Zero Width Accents (height = 34 pixels = 26 + 8, width = 0) by Les Earnest Zero width symbols overwrite the following character and are useful for accents in certain European languages and in mathematical notation.

Here are examples of the above accents used with Baskerville (BAXL30): á à à â ã ă à ā ā ç

Pie moni suni ar kaulu, otreiz nepienace ar galu.

Abols no abeles falu nehuit.

MS25. 10 point Miscellaneous (height = 25 pixels = 20 + 5, width ≤ 34) Collected from various places. !→i ?→i {→≪ }→≫ L→£ \$→¢ $\pi \rightarrow \Omega * \rightarrow * = \rightarrow \blacksquare$ A→§ B→† C→‡ @→% c→© r→@ d→° h→ π u→ μ →→⇒ ↑→↑ K→₽ ↔→≒ D→t, E→t F→t G→t H→+ I→~ J→2 e→¢ f→ g→∋ i→@ P→□ Q→∬ R→§ S→∅

MS30 13 point Miscellaneous (height = 32 pixels = 28 + 4, width \leq 22) Collected from various places. ! \rightarrow i ? \rightarrow i ? \rightarrow i \rightarrow L \rightarrow f A \rightarrow i B \rightarrow i C \rightarrow i = \rightarrow \implies \rightarrow L by Les Earnest

by Les Earnest

BAXS30 12 point Baskerville Supplement (height = 30 pixels = 22 + 8, width ≤ 48) by Les Earnest

BAXL30: @→ff A→ffi B→ffi C→fi D→fl E→-

BAXI30: $P \rightarrow ff Q \rightarrow ff R \rightarrow ff S \rightarrow fr T \rightarrow f U \rightarrow V \rightarrow A W \rightarrow a X \rightarrow A Y \rightarrow a Z \rightarrow Q [\rightarrow g$

BAXB30: '→ff a→ffi b→ffi c→fi d→fi e→-

Phonetics

V+3 3+2 @+3 ++> ~+1 =+č V+1 S+a ++*

Special Fonts

Rotated

Here are some fonts for sideways tables and other graphics.

FIXR13	5 point Rotated Fix (height = 10 pixels = 8 + 2, width = 13) FIX13 rotated clockwise 1/4 revolution.	by Tovar
	90274 209-J V L- V L- V L- V V L- V	
	02 30 HM 06 HD 02 20 02 30 02 30 02 30 02 30 02 30 02 30 04 	

FIXR16	7 point Rotated F	ix (height = 16 pixels	= 13 + 3, width = 25)		by Tovar
	FIX16 rotated clo	ckwise 1/4 revolution			
ABCOM			C <ex-n doudo<="" th=""><th>+0</th><th>K-BDC</th></ex-n>	+0	K-BDC
< ш ⊗	\$ 1 1 · S 1			· · · · +	
		$\neg / \neg \rightarrow \uparrow$	•		
			7-2		
			ų ų ų ų		
			h ng a		

Scandinavian

re you on your ear?

SCAN30 10 point Scandinavian (height = 26 pixels = 25 + 1, width ≤ 29) Supplementary symbols for several fonts.

by Odd Petterson

FIX25: V→Å ∞→å NGB25: A→Å a→å B→Æ b→æ C→Ø c→ø

BASI30: Q→A q→a R→A r→æ S→Ø s→ø

ICE34 13 point Old Icelandic (height = 34 pixels = 29 + 5, width ≤ 39) by Tom Fowler This font is a mess; it is apparently derived from IPA25.
ABDEF GHIJK LMNOP RSTUV XYZ abdef ghijk Imnop rstuv xyz Ø123456789 ↓ → "', -.:
; [\] ' I
Substitutions: α→1 ∧→ö (→ɔ λ→Ŭ ∞→ə ∂→í ∀→ð ∃→Ø ⊗→Ø ↔→Ú _→ý ≠→ť ≤→Ø ≥→Q =→Ø ∨→ú !→í #→æ
\$→ð %→Þ &→Q (→á)→é *→Æ +→o /→b <→œ =→Ø >→Œ ?→ú @→o C→É Q→Ý W→Ó ↑→É ←→Í c→Á q→Ú w→Í

{→á }→é .

Find a Font

Seals



STAN2

79 point Newer Stanford Seal (height = 216 pixels = 108 + 108, width = 225) by Tovar



Displaced

Here are some fonts that have been displaced from their normal positions. Since Pub and Pox have facilities for displacing any fonts up or down, these displaced fonts are not strictly necessary.

SUP	9 point Superscript (height = 21 pixels = $28 + -7$, width ≤ 20)	by Tovar
	Made by displacing NGR20 upward.	
ABCDE FGHIJ K	LMNO PORST UVWXYZ ebcde fghij kimno porst uvwxyz 01234 56789 🕹 🖉 β ۸ ¬ 🤄 π λ ∞ δ ⊂ ⊃ Λ U ∀ 3 ⊗	+_+~#5
2	& ' () + + , / : ; < = > ? @ [\] † + ' { }	

Example using NGR25 for main text: $E = M C^2$ (Einstein was a square M.C.)

 SUB
 9 point Subscript (height = 21 pixels = 9 + 12, width ≤ 20)
 by Tovar

 Made by displacing NGR20 downward.

 ABCDE FGHIJ KLMNO PQRST UVWXYZ abcde fghij klmno pqrst uvwxyz 01234 56789 ↓ ∝ β ∧ - ∈ π λ ∞ ∂ ⊂ ⊃ ∩ U ∀ 3 ⊗ ↔ _ → ~ ≠ ≤ ≥ • v ! " * \$ 7 & '() + +, - / ::< = > ? @ [\]↑ ← '{]}

Example using NGR25 for main text: H₂O is tasteless; H₂SO₄ is tangy.

Tengwar

Here are tengwar (Elvish characters) from Tolkien's "Lord of the Rings". For a discussion of composition techniques, see TENGWR.DON [UP,DOC].

TNG40 15 point Tengwar (height = 40 pixels = 32 + 8, width ≤ 33) Modified by Don Woods.

by Bob Currier @ISI

TNG75 28 point Tengwar (height = 75 pixels = 50 + 25, width \leq 72) by Don Woods A larger set. 2+? B+p c+q D+p F+b G+Q H+J J+Cq K+q L+C M+p N+D 0+ P+p R+D S-O T-P U- V-D W-D Y-CI Z-O a- c-d d-b e- g-td i- j-ta n- or +>> s + cl t + b u + y + z + ccl 1+1 יֹדוֹמּמֹיק מֹיְמִיֹד וֹ. حنبزم ممرمزح الأشخ متحت خمط ا היישוֹש-מֹישׁבי מֹאָוֹש-וֹמ

ို ထိုလိုက် က်က်လူထိုဘီမှာ 🔪

מממיד וה להומל

ာာမ် ။က်. ၂ ကမ် ။ဖိုက်!

Find a Font



ကာမ် ။ကိ, ၂၇ ကာမ် ။ကိုကာ!

APPENDIX A

Blacklist

The following fonts are not included in the preceding catalog for the reasons given here. They should be fixed or deleted.

Font	Reason
BDJ22	Too ragged in many places.
BDJ28	Too ragged in many places.
FORN25	Identical to FIX25 except that the accents ' ' ~ have zero width, so that they overwrite the following character. ZER030 has an equivalent set of accents and is more complete.
KBD25	Keyboard is identical to FIX25 except for "' ' ~", which are made to look more like they do on keyboards, which is a difference of little utility.
LG25	Appears to be identical to GACB25.
LGI25	Despite its name, this italic doesn't match either LG25 or LGR25. GACI25 is better.
LGR25	Substantially the same as GACB25.
MISC25	Superseded by the more complete MS25 and ZER030.
MISC30	Superseded by the more complete MS30 and ZER030.
PLT11	This teeny font is unreadable.
PLT11R	So is its rotated cousin.
PLUNK	Superseded by the more complete MATH30 and MS25.
SUPSUP	Super-superscript font is unnecessary. Pub and Pox provide better ways of dealing with vertical displacements.
SUBSUP	Sub-superscript is unnecessary for the same reason.
SUBSUB	Sub-superscript is similarly unnecessary.

APPENDIX B

Character Codes

Here is the Stanford A. I. Lab. (SAIL) Character Set and corresponding octal codes.

•	0	1	2	3	4	5	6	7
000	NUL	+	α	ß	^	-	E	π
010	λ	HT	LF	ΥT	FF	CR	00	9
020	C	2	n	U	A	Е	0	++
030	-	->	~ .	#	≤	. 2	=	V
040	ŜΡ	1	н	#	1 \$	%	8	,
050	()	*	+		-		1
060	0	1	2	3	4	5	6	7
070	8	9	:	;	<	=	>	?
100	0	Α	В	C	D	E	F	G
110	н	1	J	K	L	Μ	N	0
120	P	Q	R	S	Т	U	٧	W
130	X	Y	Ζ]	1]	1	+
140		а	b	С	d	е	f	g
150	h	i	i	k	1	m	n	ō
160	р	q	r	s	t	u	V	ш
170	×	y	z	{	1	ESC	}	BS

Here is a list of octal code differences between the SAIL character set, the ASCII set upon which it was based, and the CMU and MIT sets, which was based on both. A blank entry in a given row means that symbol has no representation in the given character set.

In ASCII, all symbols from '0 through '37 are control characters whereas we use many of these codes for graphical symbols. The following list of differences between principal XGP users.

	· ·	CMU &			
Symbol	SAIL	ISI	MIT	ASCII	
λ	'10			•	
VT	'13	'13		'13	Vertical tab
-	'30	'30	'137	'137	
~	'32	'32	'176	'176	
*	'33	'33	'32		
t	'136	'136	'13		
+	'137	'137	'30		
ESC	'175	'176	'33	'33	Escape (Altmode)
}	'176	'175	'175	'175	
BS	'177	'177, '10	'10	'10	Backspace
e			'136	'136	
DEL			'177	'177	Delete

APPENDIX C

Font File Format

A font file is a collection of up to 128 glyphs, usually representing a character set in some typeface. Parameters defining size and relative placement of a glyph are diagrammed below.



Figure C-1. Glyph Parameters

The baseline is the distance from the logical top of the glyph to the imaginary line on which the row of glyphs rests (though they may extend below this line). All glyphs in a given font file have the same height and baseline.

The format of font files is given below, based on 36 bit words. All distances are measured in pixels, which for our XGP are .005 inch.

WORDS '0-'177: XWD CHARACTER_WIDTH, CHARACTER_ADDRESS

The first 128 words of the file contain pointers in the right half to the word number where the corresponding characters definition begins. The left half of each word contains the character width (i.e. the logical width).

WORDS '200-'237:

200 CHARACTER SET NUMBER 201 HEIGHT 202 MAX WIDTH 203 BASELINE 204 COLUMN POSITION AD JUSTMENT [Obsolete-should be left at 0] 205 FONT CHARACTERISTICS 206-237

[unused by us] Overall height of font (pixels). Width of widest character (seldom used). Logical height above the baseline. Reserved for future use Reserved for future use.

WORDS 240-377: ASCIZ /FONT DESCRIPTION/

This text field of up to 480 characters should contain the full name of the font, who made it or where it came from, and possibly how it was created.

REMAINDER OF FILE

The remainder of the file consists of glyph definitions pointed to by the right halves of words '0-'177. Each glyph has the following format, using the FAIL Byte instruction.

BYTE (9) RASTER_WIDTH, CHARACTER_CODE (18) WORD_COUNT+2

WORD_COUNT+2 is total space devoted to this definition. If RASTER_WIDTH is 0, then use CHARACTER_WIDTH (above). RASTER_WIDTH is the physical width of the glyph, while CHARACTER_WIDTH is the amount the column counter is advanced after printing this glyph. This allows glyph to space more or less than their actual width.

BYTE (9) LEFT_KERN, ROWS_FROM_TOP (18) DATA_ROW_COUNT

LEFT_KERN is the amount by which the glyph overlaps the preceding character. Note that the right kern is not specified, since its value is implied by the other width parameters (LEFT_KERN, CHARACTER_WIDTH, and RASTER_WIDTH).

ROWS_FROM_TOP is the number of blank rows between the logical top and the top of the bit raster. This avoids having to store rows of zeros for glyphs that do not extend all the way to the top. DATA_ROW_COUNT is the number of rows in the bit raster, which need not extend to the logical bottom.

BLOCK WORD COUNT

The balance of the glyph definition is the bit raster, with "0" representing "white" and "1" representing "black". If the CHARACTER_WIDTH is 36 or less, then the data are packed into words such that an ILDB gets the next scan line. Otherwise, each scan line starts at first available word boundary.

APPENDIX D

Other Places, Other Names

Stealing fonts is a lot like stealing jewels. To do it successfully, you have to know where to look and be able to recognize what you find. This appendix lists some of the classier joints on the ARPAnet and the names they use for fonts we have already, to aid in recognizing new fonts. If you are interested in questions of morality, see the "Font Dissemination Policy" in Section I.

Font swiping is complicated by name changes. Some font file collections have been totally renamed so that they are "more orderly" in some sense. In order to use an imported font, you must convert it to our font file format (Appendix C). This process is complicated by the fact that there are currently something over 10 different font file formats in use at just four sites that we know of. FCOPY "knows" how to convert the standard MIT and CMU formats and generally does the right thing, but you may need some help from our non-resident expert, Tovar (TVR @SU-AI).

CMU

The AI group at Carnegie-Mellon University was the first to implement an XGP system and did much of the pioneering work in creating fonts. Lee Erman (Erman @CMUB) is a good contact.

The CMU font files are located in area [A730KS00] @CMUB. They generally use the same file names that we do, except that their extension is ".KST". To convert to SAIL format, use FCOPY with the /CMU switch.

MIT

The MIT AI group has been quite active both in creating and stealing fonts. Tom Knight (TK eMIT-AI) usually knows what is happening.

The MIT fonts are in areas FONTS and FONTS1 @MIT-AI and have ".KST" extensions. Alas, they use a different naming convention, of the form

<height><width><type>.KST

where the *height* is in XGP pixels, the *width* is a single letter ("F" or "V", denoting fixed or variable), and the *type* is a 1 to 3 letter descriptor, with G or R for Gothic (sans serif) or Roman (serif) and L. I, or B for light, italic, or bold respectively. For example, our NGB25 is called 25VGB there. "Special" fonts fonts are marked with an "S" prefix. There is recent evidence that this tight little scheme is falling apart.

Known correspondences with our font names are listed below. To convert to our format, use FCOPY with the /MIT switch.

ISI

Pete Alfvin (ALFVIN eISIA) is a contact at ISI. Their fonts are in directory $\langle FONTS \rangle eISIx$ (where x = A, B, C, ...) and have ".XH" extensions. Alas, they too have succombed to the renaming fad and use font names of the form

<type><height><modification>.XH

where type is generally the same as ours (e.g. "NGB" for News Gothic Bold), the height is in "points" (1/72 inch), and the modification, if given, may be "B" for boldface, "I" for italic, or "L" for lightface.

The ISI font file format is described in <XGP-DOC> FONTS.DOC @ISIB and <XGP-DOC> FONTS.FILEFORMAT @ISIB. It is supposedly identical to MIT's font format, with the exception of the "byte count" field (see their documentation file). To convert, try FCOPY with the /MIT switch. Who knows, it might work.

Cross Index

Here is a list of all SAIL fonts, in alphabetical order, together with corresponding CMU, MIT and ISI names. Blanks mean no corresponding file is known. The correspondence is not exact in all cases.

SAIL	CMU	MIT	ISI	Name
APL25	APL25	S25APL		APL symbols
ASTR25	ASTR25			Astrology
BASB30	BASB30	30VRB	BASIIB	Baskerville Bold
BASI30	BASI30	30.VRI	BASIII	Baskerville Italic
BASL30	BASL30	30VR	BASIIL	Baskerville
BASL35	BASL35			Baskerville
BAXB30	BASB30	30VRB	BASIIB	Baskerville Bold
BAXI30	BAXI30	30VRI	BASIII	Baskerville Italic
BAXL30	BAXL30	30VR	BASIIL	Baskerville
BAXM30				Baskerville Mathematical
BAXS30				Baskerville Supplement
BDB30	BDB30	31VRB		Bodoni Bold
BDI25	BDI25	25VRI	BOD9I	Bodoni Italic
BDI30	BDI30	· · · ·		Bodoni Italic
BDI40	BDI40	40VRI	BOD15I	Bodoni Italic
BDJ20	BDJ20			Bodoni Mathematical
BDJ25	BDJ25			Bodoni Mathematical
BDR25	BDR25	25VR	BOD9	Bodoni
BDR25X	BDB25	25VRB		Bodoni Bold
BDR 30	BDR 30	31VR		Bodoni
BDR40	BDR40	40VR	BOD15	Bodoni
BDR66	BDR66	66VR		Bodoni
BEESIX	BUCK 36	36VBEE		Bocklin
BUCK75	BUCK 75	73VBEE		Bocklin
CHS50	CHS50	S50CHS		Chess pieces
CLAR30		37VRB		Clarendon
CLAR40	CLAR45			Clarendon
CNT57				Countdown
COR20		20FCOR		Courier
CORNER				Corner Decorations
CORON		OBTURG		Coronet Bold
CRTURZ	OTION	CRTURZ	OTIO	Creatures
CTL25	CTL25	25VCTL	CTL9	Original City Lights
CYR25	CYR25	S25CYR		Light Cyrillic

Appendix D

SAIL	CMU	MIT	ISI	Name	
CYR 30	CYR 30.	S30CYR		Medium Cyrillic	
FING	· Ball Barry	FING		Hands	
FINGA		FINGA		Hand Alphabet	
FIX13	FIX13	13FG	FIX5	Fix	
FIX 13X		13FGB	M DUIDT	Fix Bold	MAG
FIX20	FIX20	20FG	FIX8	Fix	
FIX25	FIX25	25FG	FIX9	Fix	
FIX25X				Fix Bold	
FIX 30	FIX 30	30FG	FIX11	Fix	
FIX40	FIX40	40FG	FIX15	FIX	
FIXR13				Rotated Fix	
FIXR 16	FIXR 16	SIGROT		Rotated Fix	
GACB25	GACB25	25FGB1		Gacham Bold	
GACI25	GACI25	25FGI1		Gacham Italic	
GACL16		16FG	101 000	Gacham	
GACL18		18FG		Gacham	
GACL22		22FG		Gacham	
GACL25	GACL25	25FG1		Gacham	
GERM35	GERM35	S35GER		Old German	
GERM70	GERM70			Old German	1111
GRFX25				Graphics	
GRFX35				Graphics	
GRK25	GRK25	S25GRK	GREK9	Greek	
GRK 30	GRK 30			Greek Medium	
GRKB30	GRKB30			Greek Bold	
GRKB40	GRKB40		. 13	Greek Bold	
GRKB50	GRKB50			Greek Bold	
GRKL30	GRKL30	S30GRK	GREK11	Greek	
GRKL40	GRKL40			Greek	
GRKL50	GRKL50			Greek	
HBRW25	HBRW25	S25HBR		Hebrew	
HBRW40		S40HBR		Hebrew	
ICE34	1			Old Icelandic	
IPA25	IPA25	S25IPA		Phonetic	
LPT				Line Printer	
MATH25	Saline and	· · · ·		Math	
MATH30				Math	
MATH40		QRP		Math	
MATH50		S53SYM		Math	
MATH55		SPLUNK		Math	
METL		METL		Meteor	
METLB		METLB		Meteor Bold	
METLBI		METLBI		Meteor Bold Italic	
METLI		METLI		Meteor Italic	
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Appendix D

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SAIL	CMU	MIT	ISI	Name	
XMAS25	XMAS37	37VXMS	XMAS9	Old English	
XMAS40	XMAS43	43VXMS	XMAS14	Old English	
ZERO30				Zero Width Accents	

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APPENDIX E

Regular Font Size Index

Samples of variable and fixed width regular fonts (no specials) are given here in order of increasing size. For an alphabetical index, see Appendix D.

Variable Width

Heig	ht	File P	age
6	A finit a day keeps the typegrapher sway. The quick brown Pox jumps over the lazy Pub. I'll publish, right or wrong: Fools are my theme, let satire be my song.	NGR13	16
8	A font a day keeps the typographer away The quick brown Pox jumps over the lazy Pub III publish right o	NGI20	16
8	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub. I'll publish,	BDJ20	8
9	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub. I'll publish, right	NGR20	16
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub. I'll publish	NONS	19
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub. I'll pu	NONSI	19
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub. I'll	NONSB	19
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub.	NONSBI	19
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub.	CTL25	23
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub.	METS	13
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy P	METSI	13
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy	METSB	13 '
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy	METSBI	13
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy	BDR25	8
10	A font a day keeps the typographer away. The quick brown Pox jumps over the l	BDI25	8
10	A font a day keeps the typographer away. The quick brown Pox jumps over the l	BDJ25	8 :
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy	BDR25X	8
10	A font a day keeps the typoguapher away. The quick brown Pox jumps over the 4	NGR25	17
10	A font a day keeps the typographer away The quick brown Pox jumps over the la	NGI25	17
10	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy	NGB25	17
10	A font a day keeps the typographer away. The quick brown Pox jumps ove	MICR25	16
10	A font a day keeps the typographer away. The quick brown P	QUUV25	24
12	A font a day keeps the typographer away. The quick brown Plox jumps over the lazy Plub.	OLDENG	22
12	A font a day keeps the typographer away. The quick brown Pox jumps over th	BAXL30	5
12	A font a day keeps the typographer away. The quick brown Pox jumps over th	BASL30	5
12	A font a day keeps the typographer away. The quick brown Pox jumps over the la	BAXI30	5
12	A font a day keeps the typographer away. The quick brown Pox jumps over the la	BASI30	5
12	A font a day keeps the typographer away . The quick brown Pox jumps over th	ВАХМЗО	6
12	A font a day keeps the typographer away. The quick brown Pox jumps over	BAXB30	6
12	A font a day keeps the typographer away. The quick brown Pox jumps over	BASB30	6

Appendix E

	Hei	ght	File I	Page	
	12	A font a day keeps the typographer away. The quick brown Pox jumps over th	BDR30	9	
	12	A font a day keeps the typographer away. The quick brown Pox jump	BDI30	9	
	12	A font a day keeps the typographer away. The quick brown Pox jumps ov	BDB30	9	
	12	A font a day keeps the typographer away. The quick brown Pox jumps ov	NONM	20	
	12	A font a day keeps the typographer away. The quick brown Pox jumps over	NONMI	20	
	12	A font a day keeps the typographer away. The quick brown Pox jumps	NONMB	20	
	12	A font a day keeps the typographer away. The quick brown Pox jumps	NONMBI	20	
	12	A font a day keeps the typographer away. The quick brown Pox jumps o	METM	14	
	12	A font a day keeps the typographer away. The quick brown Pox jumps	METMI	14	
	12	A font a day keeps the typographer away. The quick brown Pox ju	METMB	14	
	12	A font a day keeps the typographer away. The quick brown Pox ju	METMBI	14	
	12	A font a day keeps the typographer away. The quick brown Pox jumps	NGR30	17	
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	13	A font a day keeps the typographer away. The quick brown Pox jump	BASL35	. 6	•
	14	A feat a day keeps the typegrapher away. The quick brown Pox jumps over the lasy Pub. I'll publish, rig	PLAYBI	23	
4	14	A font a day keeps the typographer away. The quick brown Pox jum	NONL	21-	•
	14	A font a day keeps the typographer away. The quick brown Pox jum	NONLI	21	
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	14	A font a day keeps the typographer away. The quick brown Pox	NONLBI	21	
	14	R lont a day keeps the typographer away The quick brown Pox	BEESIX	7	
	14	A font a day keeps the typographer away. The quick brown P	METL	15	
	14	A font a day keeps the typographer away. The quick brown P	METLI	15	
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	14	A font a day keeps the typographer away. The quick brow	METLBI	15	
	14	A font a day keeps the typographer away. The qu	XMAS25	22	
	14	A font a day keeps the typographer away. The q	CLAR30	11	
	15	A font a day keeps the typographer away. The quick brown Por jumps over the l	GERM35	23	
	15	A font a day keeps the typographer away. The quick bro	BDR40	9	
	15	A font a day keeps the typographer away. The quic	BDI40	10	
	15	A font a day keeps the typographer away. The quick br	NGB40	18	
4	15	a font a day keeps the typoerapher a	SHD40	24	

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16 A font a day keeps the typographer away. The quick brown	NGR40L	18
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17 A font a day keeps the typographer away Th	XMAS40	22
18 A font a day keeps the typographer away. The quick brown Pox jumps ou	CORON	12
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25 A font a day keeps the typographer	BDR66	10
26 A font a day keeps the typographer away.	GERM70	23
27 R font a day keeps the typographer	BUCK75	7
A FONT A D	SGN114	25

Appendix E

Fixed Width

He	eight	File	Page
6	A font a day keeps the typographer anay. The quick brown Pox jumps over the lazy Pub. I'll publish, right or wrón	FIX13	26
6	A font a day keeps the typographer nway. The quick brown Pox jumps over the lazy Pub. I'll publish, ri	FIX13X	26
7 .	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub. I'll publish, ri	GACL16	29
8	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub.	GACL18	29
8	A font a day keeps the typographer away. The quick brown Pox jum	COR20	26
9	A font a day keeps the typographer away. The quick brown Pox jumps over the lazy Pub.	FIX20	26
9	A font a day keeps the typographer away. The quick brown Pox jumps over the laz	GACL22	29
10	A font a day keeps the typographer away. The quick brown Pox jumps over t	GACL25	30
10	A font a day keeps the typographer away. The quick brown Pox jum	GACI25	30
10	A font a day keeps the typographer away. The quick brown Pox jum	GACB25	30
10	A font a day keeps the typographer away. The q	QUUX25	31
10	A font a day keeps the typographer away. The quick brown Pox jum	FIX25	27
10	A font a day keeps the typographer away. The quick brown	LPT	27
10	A font a day keeps the typographer away. The quick brown Pox	FIX25X	27
10	A font a day keeps the typographer away. The quick brown Pox	SAIL25	26
12	A font a day keeps the typographer away. The quick br	FIX30	28
13	A font a day keeps the typographer away. The	SET1	31
13	A font a day keeps the typographer away. The	SET1I	31
15	A font a day keeps the typographer away.	FIX40	28



