Informations

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Last version: November 20, 2002

The *Mbboard* series are quite good quality fonts primarily intended to be used as blackboard bold fonts in mathematical texts typesetted in TEX with Computer Modern as main fonts' set. Their design comes from printed mathematical books and articles, and, thus, from some commercial fonts. One of the main contribution of the mbboard-series lies in its completeness as one could se further on, completeness due to their author's work only.

These fonts have been designed in such a way that they can be used as text fonts, even if such texts would be hardly readable. This also means that even if they are mostly intended to be used in mathematical formulae, they are not "mathematical fonts" as understood in the MetaFont experts' community. I believe that it doesn't matter to much since these are upright fonts (in some cases, one would have to insert some negative thin space in subscrits).

The current distribution of these fonts and TEX's packages is the *mbboard0.4* which appears to be quite good and stable. The two supported subseries are *mbbXX* and *mbbxXX* where *XX* is the point size. Other subseries should be seen as oddities and, then, unsupported. The author also claims no responsability in translations of these fonts into other formats (type 1, etc.).

Progress

Mbboard0.0, january 2000. Space and time initial distribution. If most glyphs look correct, kerning properties are to be checked. The dagesh marking is to be changed.

Mbboard0.1, april 2000. There have been changes in ligtables and designs:

- There is no more automatic c–t nor s–t ligature in the basic encoding. The corresponding glyphs have to be accessed directly with `\ctlig` or `\stlig` in text mode.
- There is now a dagesh sign such that this sign plus a Hebrew letter give the Hebrew letter with dagesh by ligaturing system. Otherwise, it does nothing. Its location on mbb's encoding is the former shereq sign's location. This last glyph has been removed from the basic encoding.
- Some vertical overshots have been corrected.
- The Roman shaped 'a' and '3' have been slightly modified.
- Dorian pi has been rewritten.
- Kerning properties are still to be checked.

Mbboard0.2, december 2000. Just code-check before the first "expected to be stable"-distribution.

Mbboard0.3, june 2001. Input files' names have been changed in order to avoid conflicts with other source files—such as the bbold's ones (Alan Jeffrey's fonts).

Roundish bowls are experimented. It will lead to a simpler code: there will be less explicit intersection control sequences.

Mbboard0.4, october 2001. Some control sequences' names or variables' names have been changed. Roundish bowls have been (not fully) implemented. Some important changes have been done:

- The width of 'lambda' is now equal to the width of 'A'. (so that metrics have changed!)
- Percent sign and related ones have been corrected. (someone could have told me of that error!)
- The letter 'e' and related ones have been sharpen; 'xi', 'zeta' have been slightly changed… and so on.
- 17pt size has been introduced.
- A whole bold extended font has been created.
- Kerning properties are still to be checked.

Mbboard0.5, october 2001. The main change is my trial to get rid of every `square_end` control sequence. But it alters design quite deeply. So design itself is at least slightly changed. Some metrics have changed too just because I could not remember why I've made some odd choices. All those changes can not be reported without making a comparison between this version and the former one.

- The width of 'cedilla' has changed, it's now very thin just as 'ogonek'. (So that metrics have changed!)
- Kerning properties are still to be checked.

Miscellaneous symbols

$\Bbbk$ `\Bbbk` (ord),

Some delimiters

$\bbvert$ `\bbvert` (rel), $\bbslash$ `\bbslash` (ord), $\bbbackslash$ `\bbbackslash` (ord), $\bblbrack$ `\bblbrack` (open), $\bbrbrack$ `\bbrbrack` (close), $\bblbrace$ `\bblbrace` (open), $\bbrbrace$ `\bbrbrace` (close), $\bblangle$ `\bblangle` (open), $\bbrangle$ `\bbrangle` (close),

Greek lowercase

$\bbalpha$ `\bbalpha` (ord), $\bbbeta$ `\bbbeta` (ord), $\bbgamma$ `\bbgamma` (ord), $\bbdelta$ `\bbdelta` (ord), $\bbepsilon$ `\bbepsilon` (ord), $\bbzeta$ `\bbzeta` (ord), $\bbeta$ `\bbeta` (ord), $\bbtheta$ `\bbtheta` (ord), $\bbiota$ `\bbiota` (ord), $\bbkappa$ `\bbkappa` (ord), $\bblambda$ `\bblambda` (ord), $\bbmu$ `\bbmu` (ord), $\bbnu$ `\bbnu` (ord), $\bbxi$ `\bbxi` (ord), $\bbomicron$ `\bbomicron` (ord), $\bbpi$ `\bbpi` (ord), $\bbrho$ `\bbrho` (ord), $\bbsigma$ `\bbsigma` (ord), $\bbtau$ `\bbtau` (ord), $\bbupsilon$ `\bbupsilon` (ord), $\bbphi$ `\bbphi` (ord), $\bbchi$ `\bbchi` (ord), $\bbpsi$ `\bbpsi` (ord), $\bbomega$ `\bbomega` (ord), $\bbvarepsilon$ `\bbvarepsilon` (ord), $\bbvartheta$ `\bbvartheta` (ord), $\bbvarkappa$ `\bbvarkappa` (ord), $\bbvarpi$ `\bbvarpi` (ord), $\bbvarrho$ `\bbvarrho` (ord), $\bbvarsigma$ `\bbvarsigma` (ord), $\bbvarphi$ `\bbvarphi` (ord),

Greek uppercase

$\bbAlpha$ `\bbAlpha` (ord), $\bbBeta$ `\bbBeta` (ord), $\bbGamma$ `\bbGamma` (ord), $\bbDelta$ `\bbDelta` (ord), $\bbEpsilon$ `\bbEpsilon` (ord), $\bbZeta$ `\bbZeta` (ord), $\bbEta$ `\bbEta` (ord), $\bbTheta$ `\bbTheta` (ord), $\bbIota$ `\bbIota` (ord), $\bbKappa$ `\bbKappa` (ord), $\bbLambda$ `\bbLambda` (ord), $\bbMu$ `\bbMu` (ord), $\bbNu$ `\bbNu` (ord), $\bbXi$ `\bbXi` (ord), $\bbOmicron$ `\bbOmicron` (ord), $\bbPi$ `\bbPi` (ord), $\bbRho$ `\bbRho` (ord), $\bbSigma$ `\bbSigma` (ord), $\bbTau$ `\bbTau` (ord), $\bbUpsilon$ `\bbUpsilon` (ord), $\bbPhi$ `\bbPhi` (ord), $\bbChi$ `\bbChi` (ord), $\bbPsi$ `\bbPsi` (ord), $\bbOmega$ `\bbOmega` (ord),

Greek like symbols

𝔽 `\bbdigamma` (ord), ∇ `\bbnabla` (ord), ⨿ `\bbcoprod` (ord), ℧ `\bbmho` (ord), ⅀ `\bbslashSigma` (ord), ∇ `\bbslashnabla` (ord), λ `\bbslashlambda` (ord),

Hebrew

ℵ `\bbaleph` (ord), ℶ `\bbbeth` (ord), ℷ `\bbgimmel` (ord), ℸ `\bbdalet` (ord), ה `\bbhe` (ord), ו `\bbvav` (ord), ז `\bbzayin` (ord), ח `\bbhet` (ord), ט `\bbtet` (ord), י `\bbyod` (ord), ך `\bbfinalkaf` (ord), כ `\bbkaf` (ord), ל `\bblamed` (ord), ם `\bbfinalmem` (ord), מ `\bbmem` (ord), ן `\bbfinalnun` (ord), נ `\bbnun` (ord), ס `\bbsamekh` (ord), ע `\bbayin` (ord), ף `\bbfinalpe` (ord), פ `\bbpe` (ord), ץ `\bbfinaltzadik` (ord), צ `\bbtzadik` (ord), ק `\bbqof` (ord), ר `\bbresh` (ord), ש `\bbshin` (ord), ת `\bbtav` (ord), ּ `\bbdagesh` (ord),

Currency signs

$ `\bbdollar` (ord), € `\bbeuro` (ord), £ `\bbpound` (ord), ¢ `\bbcent` (ord), ¥ `\bbyen` (ord),

Different sizes

mbb17. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () []

mbbx17. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () []

mbb12. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () []

mbbx12. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () []

mbb10. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () []

mbbx10. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () []

mbb9. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () [[]]

mbbx9. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqr stuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () [[]]

mbb8. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæ œøß+=# @ 1234567890 $ & () [[]]

mbbx8. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvw xyz ÆŒØæœøß+=# @ 1234567890 $ & () [[]]

mbb7. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœø ß+=# @ 1234567890 $ & () [[]]

mbbx7. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () [[]]

mbb6. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 1234567890 $ & () [[]]

mbbx6. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæ œøß+=# @ 1234567890 $ & () [[]]

mbb5. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+=# @ 123456 7890 $ & () [[]]

mbbx5. — ABCDEFGHIJKLMNOPQRTSUVWXYZ abcdefghijklmnopqrstuvwxyz ÆŒØæœøß+= # @ 1234567890 $ & () [[]]

mbb10/cmr10

‹Γ ›Δ «Θ »Λ “Ξ ”Π „Σ ¡Υ ¿Φ ctΨ stΩ ffff fifi flfl ffiffi fflffl ıı ȷȷ ˋˋ ˊˊ ˇˇ ˘˘ ¯¯ ˚˚ ¸¸ ßß ææ œœ øø ÆÆ ŒŒ ØØ -!! ”” ## $$ %% && ’’ (( )) ** ++ ,, -- .. // 00 11 22 33 44 55 66 77 88 99 :: ;; <¡ == >¿ ?? @@ AA BB CC DD EE FF GG HH II JJ KK LL MM NN OO PP QQ RR SS TT UU VV WW XX YY ZZ [[\“]] ˆˆ ˙˙ ‘‘ aa bb cc dd ee ff gg hh ii jj kk ll mm nn oo pp qq rr ss tt uu vv ww xx yy zz — —— ˝˝ ˜˜ ¨¨ ℘ A B Γ Δ E Z H Θ I K Λ M N Ξ O Π P Σ T Υ Φ X Ψ Ω F ∇ ⊔ ℧ ∐ ∀ λ ∂ α β γ δ ϵ ζ η θ ι κ λ μ ν ξ o π ρ σ τ υ ϕ χ ψ ω ε ϑ ϰ ϖ ϱ ς φ ℵ ℶ ℷ ℸ ה ו ז ח ט י ך כ ל ם מ ן נ ס ע ף פ ץ צ ק ר ש ת { | } ( ) א ב ג ד ה ו ז ח ט י ך כ ל ם מ ן נ ס ע ף פ ץ צ ק ר ש ת € £ ¢ ¥ ·

mbb10/cmbx10

‹Γ ›Δ «Θ »Λ “Ξ ”Π „Σ ¡Υ ¿Φ ctΨ stΩ ffff fifi flfl ffiffi fflffl ıı ȷȷ ˋˋ ˊˊ ˇˇ ˘˘ ¯¯ ˚˚ ¸¸ ßß ææ œœ øø ÆÆ ŒŒ ØØ -!! ”” ## $$ %% && ’’ (( )) ** ++ ,, -- .. // 00 11 22 33 44 55 66 77 88 99 :: ;; <¡ == >¿ ?? @@ AA BB CC DD EE FF GG HH II JJ KK LL MM NN OO PP QQ RR SS TT UU VV WW XX YY ZZ [[\“]] ˆˆ ˙˙ ‘‘ aa bb cc dd ee ff gg hh ii jj kk ll mm nn oo pp qq rr ss tt uu vv ww xx yy zz — —— ˝˝ ˜˜ ¨¨ ℘ A B Γ Δ E Z H Θ I K Λ M N Ξ O Π P Σ T Υ Φ X Ψ Ω F ∇ ⊔ ℧ ∐ ∀ λ ∂ α β γ δ ϵ ζ η θ ι κ λ μ ν ξ o π ρ σ τ υ ϕ χ ψ ω ε ϑ ϰ ϖ ϱ ς φ ℵ ℶ ℷ ℸ ה ו ז ח ט י ך כ ל ם מ ן נ ס ע ף פ ץ צ ק ר ש ת { | } ( ) א ב ג ד ה ו ז ח ט י ך כ ל ם מ ן נ ס ע ף פ ץ צ ק ר ש ת € £ ¢ ¥ ·

mbb10/mbbx10

‹‹ ›› «« »» ““ ”” „„ ¡¡ ¿¿ ctct stst ffff fifi flfl ffiffi fflffl ıı ȷȷ ˋˋ ˊˊ ˇˇ ˘˘ ¯¯ ˚˚ ¸¸ ßß ææ œœ øø ÆÆ ŒŒ ØØ !! ”” ## $$ %% && ’’ (( )) ** ++ ,, -- .. // 00 11 22 33 44 55 66 77 88 99 :: ;; << == >> ?? @@ AA BB CC DD EE FF GG HH II JJ KK LL MM NN OO PP QQ RR SS TT UU VV WW XX YY ZZ [[\\ ]] ^^ ˙˙ ‘‘ aa bb cc dd ee ff gg hh ii jj kk ll mm nn oo pp qq rr ss tt uu vv ww xx yy zz –– —— ˝˝ ˜˜ ¨¨ ℘℘ ΑΑ ΒΒ ΓΓ ΔΔ ΕΕ ΖΖ ΗΗ ΘΘ ΙΙ ΚΚ ΛΛ ΜΜ ΝΝ ΞΞ ΟΟ ΠΠ ΡΡ ΣΣ ΤΤ ΥΥ ΦΦ ΧΧ ΨΨ ΩΩ ϜϜ ∇∇ ⊔⊔ ℧℧ ⅁⅁ ∀∀ ƛƛ ∂∂ αα ββ γγ δδ ϵϵ ζζ ηη θθ ιι κκ λλ μμ νν ξξ οο ππ ρρ σσ ττ υυ ϕϕ χχ ψψ ωω εε ϑϑ ϰϰ ϖϖ ϱϱ ςς φφ אא בב גג דד הה וו זז חח טט יי ךך כב ךך לל םם מם ןן ןן סס עע ףף פפ ץץ צצ קק רר שש תת {{ || }} (( )) אא בב גג דד הה וו זז חח טט יי ךך כב לל םם מם ןן ןן סס עע ףף פפ ץץ צצ קק רר שש תת €€ ££ ¢¢ ¥¥ ··

mbb10/cmss10

‹Γ ›Δ «Θ »Λ “Ξ ”Π „Σ ¡Υ ¿Φ ctΨ stΩ ffff fifi flfl ffiffi fflffl ıı ȷȷ ˋˋ ˊˊ ˇˇ ˘˘ ¯¯ ˚˚ ¸¸ ßß ææ œœ øø ÆÆ ŒŒ ØØ -!! ”” ## $$ %% && ’’ (( )) ** ++ ,, -- .. // 00 11 22 33 44 55 66 77 88 99 :: ;; <¡ == >¿ ?? @@ AA BB CC DD EE FF GG HH II JJ KK LL MM NN OO PP QQ RR SS TT UU VV WW XX YY ZZ [[\“]] ^^ ˙˙ ‘‘ aa bb cc dd ee ff gg hh ii jj kk ll mm nn oo pp qq rr ss tt uu vv ww xx yy zz –– —— ˝˝ ˜˜ ¨¨ ℘ Α Β Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω Ϝ ∇ ⊔ ℧ ⅁ ∀ ƛ ∂ α β γ δ ϵ ζ η θ ι κ λ μ ν ξ ο π ρ σ τ υ ϕ χ ψ ω ε ϑ ϰ ϖ ϱ ς φ א ב ג ד ה ו ז ח ט י ך כ ל ם מ ן ן ס ע ף פ ץ צ ק ר ש ת { | } ( ) א ב ג ד ה ו ז ח ט י ך כ ל ם מ ן ן ס ע ף פ ץ צ ק ר ש ת € £ ¢ ¥ ·

mbb10/msbm10

AA$_{65}$ BB$_{66}$ CC$_{67}$ DD$_{68}$ EE$_{69}$ FF$_{70}$ GG$_{71}$ HH$_{72}$ II$_{73}$ JJ$_{74}$ KK$_{75}$ LL$_{76}$ MM$_{77}$ NN$_{78}$ OO$_{79}$ PP$_{80}$ QQ$_{81}$ RR$_{82}$ SS$_{83}$ TT$_{84}$ UU$_{85}$ VV$_{86}$ WW$_{87}$ XX$_{88}$ YY$_{89}$ ZZ$_{90}$

msbm10/ptmr

AA$_{65}$ BB$_{66}$ CC$_{67}$ DD$_{68}$ EE$_{69}$ FF$_{70}$ GG$_{71}$ HH$_{72}$ II$_{73}$ JJ$_{74}$ KK$_{75}$ LL$_{76}$ MM$_{77}$ NN$_{78}$ OO$_{79}$ PP$_{80}$ QQ$_{81}$ RR$_{82}$ SS$_{83}$ TT$_{84}$ UU$_{85}$ VV$_{86}$ WW$_{87}$ XX$_{88}$ YY$_{89}$ ZZ$_{90}$

Greek letters

αα ββ γγ δδ ϵϵ ζζ ηη θθ ιι κκ λλ μμ νν ξξ οo ππ ρρ σσ ττ υυ ϕϕ χχ ψψ ωω εε ϑϑ ςς ϰϖϖ ϱϱ ςς φφ

ΑA ΒB ΓΓ ΔΔ ΕE ΖZ ΗH ΘΘ ΙI ΚK ΛΛ ΜM ΝN ΞΞ ΟO ΠΠ ΡP ΣΣ ΤT ΥΥ ΦΦ ΧX ΨΨ ΩΩ

Accents

ÅåŖŘR̄ṚṘR̈R̀ŔR̂ŘR̃R̋ ąăāạȧäàáâǎãa̋ ǫŏōọȯöòóôǒõő ęĕēẹėëèéêěẽe̋ ç

ÅåŖŘR̄ṚṘR̈R̀ŔR̂ŘR̃R̋ ąăāạȧäàáâǎãa̋ ǫŏōọȯöòóôǒõő ęĕēẹėëèéêěẽe̋ ç

Other basic control sequences

The most important control sequence is `\mathbb` which has one argument and is similar to the classical one. There is also `\mbb` which changes current font in text or math mode to blackboard. Those two control sequences are available in plainTEX and LaTEX. About text, usual TEX's control sequences or ligaturing mechanisms apply. The c–t and s–t ligatures can be used via `\ctlig` and `\stlig` in text mode only, but switching to another font may produce oddities. French double quotes are obtained by '<<' and '>>'. But french single quotes cannot be obtained by '<' nor '>', they have to be reached by their `charcode`.

« 𝕋𝕙𝕚𝕤 𝕨𝕒𝕤 𝕥𝕙𝕖 𝕟𝕠𝕓𝕝𝕖𝕤𝕥 ℝ𝕠𝕞𝕒𝕟 𝕠𝕗 𝕥𝕙𝕖𝕞 𝕒𝕝𝕝...»

The `\bbdagesh` construction

One of the most current diacritic marks in Hebrew is dagesh. If Hebrew is quite rarely used in mathematical composition, to our knowledge it appeared one time in a logic book with Hebrew letters from aleph to gimmel with, or not, dagesh mark. The fact that this mark cannot be applied by simply putting aside lead pieces lead us to design particuliar characters for those cases. The big question was how to switch from normal characters to marked ones. The last solution is to use ligaturing properties to make a dagesh mark meeting a Hebrew character becoming a dagesh marked Hebrew character. This means that a dagesh sign had to be designed, and that it had to have a nice behavior with other characters. By now, we don't know if the solution that we retain could be considered as a canonical one. It's just the one that is built-in the current version of our fonts. Look at samples below:

ℵℶℷ·𝕋·ℝ·𝕌·𝕆

Mbb, the regular blackboard serie

The following font is actually the only one that is fully supported. This essentially means that evolution of metrical properties will be based on them. Other series could get some improvement as this one may do (I hope so), but that's not certain...

mbb10	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	‹	›	«	»	“	”	„	¡	″0x
´01x	¿	ct	st	ff	fi	fl	ffi	ffl	
´02x	ı	ȷ	`	´	ˇ	˘	¯	˚	″1x
´03x	¸	ß	æ	œ	ø	Æ	Œ	Ø	
´04x		!	"	#	$	%	&	'	″2x
´05x	(	)	⋆	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	
´10x	@	A	B	C	D	E	F	G	″4x
´11x	H	I	J	K	L	M	N	O	
´12x	P	Q	R	S	T	U	V	W	″5x
´13x	X	Y	Z	[	\	]	ˆ	˙	

´14x	‘	a	b	c	d	e	f	g	″6x
´15x	h	i	j	k	l	m	n	o	
´16x	p	q	r	s	t	u	v	w	″7x
´17x	x	y	z	–	—	˝	˜	¨	
´20x	℘	A	B	Γ	Δ	E	Z	H	″8x
´21x	Θ	I	K	Λ	M	N	Ξ	O	
´22x	Π	P	Σ	T	Υ	Φ	X	Ψ	″9x
´23x	Ω	Ϝ	∇	∐	℧	Σ̸	∀̸	ƛ	
´24x	∂	α	β	γ	δ	ϵ	ζ	η	″Ax
´25x	θ	ι	κ	λ	μ	ν	ξ	o	
´26x	π	ρ	σ	τ	υ	ϕ	χ	ψ	″Bx
´27x	ω	ε	ϑ	ϰ	ϖ	ϱ	ς	φ	
´30x	א	ב	ג	ד	ה	ו	ז	ח	″Cx
´31x	ט	י	ך	כ	ל	ם	מ	ן	
´32x	נ	ס	ע	ף	פ	ץ	צ	ק	″Dx
´33x	ר	ש	ת	{	|	}	(	)	
´34x	אּ	בּ	גּ	דּ	הּ	וּ	זּ	חּ	″Ex
´35x	טּ	יּ	ךּ	כּ	לּ	םּ	מּ	ןּ	
´36x	נּ	סּ	עּ	ףּ	פּ	ץּ	צּ	קּ	″Fx
´37x	רּ	שּ	תּ	€	£	¢	¥	·	
	″8	″9	″A	″B	″C	″D	″E	″F	

On November 14, 1885, Senator & Mrs. Leland Stanford called together at their San Francisco mansion the 24 prominent men who had been chosen as the first trustees of The Leland Stanford Junior University. They handed to the board the Founding Grant of the University, which they had executed three days before. This document—with various amendments, legislative acts, and court decrees—remains as the University's charter. In bold, sweeping language it stipulates that the objectives of the University are "to qualify students for personal success and direct usefulness in life; and to promote the publick welfare by exercising an influence in behalf of humanity and civilization, teaching the blessings of liberty regulated by law, and inculcating love and reverence for the great principles of government as derived from the inalienable rights of man to life, liberty, and the pursuit of happiness." ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés? (¡THE DAZED BROWN FOX QUICKLY GAVE 12345–67890 JUMPS!)

Ångelå Beatrice Claire Diana Érica Françoise Ginette Hélène Iris Jackie Kāren Laura María Nāta Iïe Øctave Pauline Quêneau Roxanne Sabine Tãja Uršula Vivian Wendy Xanthippe Yvønne Zäzilie

Mbbx, the regular blackboard bold extended serie

mbbx10	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	‹	›	«	»	“	”	„	¡	″0x
´01x	¿	ct	st	ff	fi	fl	ffi	ffl	
´02x	ı	ȷ	`	´	ˇ	˘	¯	˚	″1x
´03x	¸	ß	æ	œ	ø	Æ	Œ	Ø	
´04x		!	"	#	$	%	&	’	″2x
´05x	(	)	*	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	
´10x	@	A	B	C	D	E	F	G	″4x
´11x	H	I	J	K	L	M	N	O	
´12x	P	Q	R	S	T	U	V	W	″5x
´13x	X	Y	Z	[	\	]	ˆ	˙	
´14x	‘	a	b	c	d	e	f	g	″6x
´15x	h	i	j	k	l	m	n	o	
´16x	p	q	r	s	t	u	v	w	″7x
´17x	x	y	z	–	—	˝	˜	¨	
´20x	℘	Α	Β	Γ	Δ	Ε	Ζ	Η	″8x
´21x	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	
´22x	Π	Ρ	Σ	Τ	Υ	Φ	Χ	Ψ	″9x
´23x	Ω	Ϝ	∇	Ш	℧	⅀	∀	ƛ	
´24x	∂	α	β	γ	δ	ϵ	ζ	η	″Ax
´25x	θ	ι	κ	λ	μ	ν	ξ	ο	
´26x	π	ρ	σ	τ	υ	ϕ	χ	ψ	″Bx
´27x	ω	ε	ϑ	ϰ	ϖ	ϱ	ς	φ	
´30x	ℵ	ב	ג	ד	ה	ו	ז	ח	″Cx
´31x	ט	י	ך	כ	ל	ם	מ	ן	
´32x	נ	ס	ע	ף	פ	ץ	צ	ק	″Dx
´33x	ר	ש	ת	{	|	}	⟦	⟧	
´34x	אּ	בּ	גּ	דּ	הּ	וּ	זּ	חּ	″Ex
´35x	טּ	יּ	ךּ	כּ	לּ	םּ	מּ	ןּ	
´36x	נּ	סּ	עּ	ףּ	פּ	ץּ	צּ	קּ	″Fx
´37x	רּ	שּ	תּ	€	£	¢	¥	·	
	″8	″9	″A	″B	″C	″D	″E	″F	

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Ångelå Beatrice Claire Diana Érica Françoise Ginette Hélène Iris Jackie Kāren Lauřa María Nāta Iĭe Øctave Pauline Quêneau Roxanne Sabine Tãǰa Uršula Vivian Wendy Xanthippe Yvønne Zäzilie

Mbbr, a variant that may look better for text (unsupported yet)

mbbr10	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	‹	›	«	»	“	”	„	¡	″0x
´01x	¿	ct	st	ff	fi	fl	ffi	ffl	
´02x	ı	ȷ	`	´	ˇ	˘	¯	˚	″1x
´03x	¸	ß	æ	œ	ø	Æ	Œ	Ø	
´04x		!	"	#	$	%	&	’	″2x
´05x	(	)	*	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	
´10x	@	A	B	C	D	E	F	G	″4x
´11x	H	I	J	K	L	M	N	O	
´12x	P	Q	R	S	T	U	V	W	″5x
´13x	X	Y	Z	[	\	]	ˆ	˙	
´14x	‘	a	b	c	d	e	f	g	″6x
´15x	h	i	j	k	l	m	n	o	
´16x	p	q	r	s	t	u	v	w	″7x
´17x	x	y	z	–	—	˝	˜	¨	
´20x	℘	Α	Β	Γ	Δ	Ε	Ζ	Η	″8x
´21x	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	
´22x	Π	Ρ	Σ	Τ	Υ	Φ	Χ	Ψ	″9x
´23x	Ω	Ϝ	∇	⊔	℧	⅀	∀	ƛ	
´24x	∂	α	β	γ	δ	ϵ	ζ	η	″Ax
´25x	θ	ι	κ	λ	μ	ν	ξ	ο	
´26x	π	ρ	σ	τ	υ	ϕ	χ	ψ	″Bx
´27x	ω	ε	ϑ	ϰ	ϖ	ϱ	ς	φ	

´30x	א	ב	ג	ד	ה	ו	ז	ח	″Cx
´31x	ט	י	ך	כ	ל	ם	מ	ן	
´32x	נ	ס	ע	ף	פ	ץ	צ	ק	″Dx
´33x	ר	ש	ת	{	‖	}	[	]	
´34x	אּ	בּ	גּ	דּ	הּ	וּ	זּ	חּ	″Ex
´35x	טּ	יּ	ךּ	כּ	לּ	םּ	מּ	ןּ	
´36x	נּ	סּ	עּ	ףּ	פּ	ץּ	צּ	קּ	″Fx
´37x	רּ	שּ	תּ	€	£	¢	¥	∘	
	″8	″9	″A	″B	″C	″D	″E	″F	

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Mbbi, an italic version (unsupported yet)

mbbi10	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	‹	›	«	»	“	”	„	¡	″0x
´01x	¿	ct	st	ff	fi	fl	ffi	ffl	
´02x	ı	ȷ	`	´	ˇ	˘	¯	˚	″1x
´03x	¸	ß	æ	œ	ø	Æ	Œ	Ø	
´04x		!	"	#	$	%	&	’	″2x
´05x	(	)	*	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	
´10x	@	A	B	C	D	E	F	G	″4x
´11x	H	I	J	K	L	M	N	O	
´12x	P	Q	R	S	T	U	V	W	″5x
´13x	X	Y	Z	[	\	]	^	˙	

´14x	ʻ	a	b	c	d	e	f	g	″6x
´15x	h	i	j	k	l	m	n	o	
´16x	p	q	r	s	t	u	v	w	″7x
´17x	x	y	z	–	—	˝	˜	¨	
´20x	℘	A	B	Γ	Δ	E	Z	H	″8x
´21x	Θ	I	K	Λ	M	N	Ξ	O	
´22x	Π	P	Σ	T	Υ	Φ	X	Ψ	″9x
´23x	Ω	Ϝ	∇	Ш	℧	⨊	∇̸	⅄	
´24x	∂	α	β	γ	δ	ϵ	ζ	η	″Ax
´25x	θ	ι	κ	λ	μ	ν	ξ	ο	
´26x	π	ρ	σ	τ	υ	ϕ	χ	ψ	″Bx
´27x	ω	ε	ϑ	ϰ	ϖ	ϱ	ς	φ	
´30x	א	ב	ג	ד	ה	ו	ז	ח	″Cx
´31x	ט	י	ך	כ	ל	ם	מ	ן	
´32x	נ	ס	ע	ף	פ	ץ	צ	ק	″Dx
´33x	ר	ש	ת	{	|	}	(	)	
´34x	אּ	בּ	גּ	דּ	הּ	וּ	זּ	חּ	″Ex
´35x	טּ	יּ	ךּ	כּ	לּ	םּ	מּ	ןּ	
´36x	נּ	סּ	עּ	ףּ	פּ	ץּ	צּ	קּ	″Fx
´37x	רּ	שּ	תּ	€	£	¢	¥	∘	
	″8	″9	″A	″B	″C	″D	″E	″F	

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Ångelå Beatrice Claire Diana Érica Françoise Ginette Hélène Iris Jackie Kāren Laũra María Năta lĭe Øctave Pauline Quêneau Roxanne Sabine Tãja Uršula Vivian Wendy Xanthippe Yvønne Zäzilie

Mbbsl, a slanted version (unsupported yet)

mbbsl10	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	‹	›	«	»	“	”	„	¡	″0x
´01x	¿	ct	st	ff	fi	fl	ffi	ffl	
´02x	ı	ȷ	`	´	ˇ	˘	¯	˚	″1x
´03x	¸	ß	æ	œ	ø	Æ	Œ	Ø	
´04x		!	"	#	$	%	&	'	″2x
´05x	(	)	*	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	
´10x	@	A	B	C	D	E	F	G	″4x
´11x	H	I	J	K	L	M	N	O	
´12x	P	Q	R	S	T	U	V	W	″5x
´13x	X	Y	Z	[	\	]	ˆ	˙	
´14x	‘	a	b	c	d	e	f	g	″6x
´15x	h	i	j	k	l	m	n	o	
´16x	p	q	r	s	t	u	v	w	″7x
´17x	x	y	z	–	—	˝	˜	¨	
´20x	℘	A	B	Γ	Δ	E	Z	H	″8x
´21x	Θ	I	K	Λ	M	N	Ξ	O	
´22x	Π	P	Σ	T	Υ	Φ	X	Ψ	″9x
´23x	Ω	Ϝ	∇	Ш	℧	Σ̸	∇̸	ƛ	
´24x	∂	α	β	γ	δ	ϵ	ζ	η	″Ax
´25x	θ	ι	κ	λ	μ	ν	ξ	ο	
´26x	π	ρ	σ	τ	υ	ϕ	χ	ψ	″Bx
´27x	ω	ε	ϑ	ϰ	ϖ	ϱ	ς	φ	
´30x	א	ב	ג	ד	ה	ו	ז	ח	″Cx
´31x	ט	י	ך	כ	ל	ם	מ	ן	
´32x	נ	ס	ע	ף	פ	ץ	צ	ק	″Dx
´33x	ר	ש	ת	{	|	}	⦅	⦆	
´34x	אּ	בּ	גּ	דּ	הּ	וּ	זּ	חּ	″Ex
´35x	טּ	יּ	ךּ	כּ	לּ	םּ	מּ	ןּ	
´36x	נּ	סּ	עּ	ףּ	פּ	ץּ	צּ	קּ	″Fx
´37x	רּ	שּ	תּ	€	£	¢	¥	˙	
	″8	″9	″A	″B	″C	″D	″E	″F	

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Mbbcr, a T1-encoded version (unsupported yet)

As one can see in the following table, the Euro sign has been introduced in this T1-encoding. I just cannot remember which symbol I've then removed.

mbbcr10	´0	´1	´2	´3	´4	´5	´6	´7	
´00x	`	´	ˆ	˜	¨	˝	˚	ˇ	″0x
´01x	˘	¯	˙	¸	˛	‚	‹	›	
´02x	“	”	„	«	»	–	—		″1x
´03x	o	ı	ȷ	ff	fi	fl	ffi	ffl	
´04x		!	"	#	$	%	&	’	″2x
´05x	(	)	☆	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	
´10x	@	A	B	C	D	E	F	G	″4x
´11x	H	I	J	K	L	M	N	O	
´12x	P	Q	R	S	T	U	V	W	″5x
´13x	X	Y	Z	[	\	]	^	_	
´14x	‘	a	b	c	d	e	f	g	″6x
´15x	h	i	j	k	l	m	n	o	
´16x	p	q	r	s	t	u	v	w	″7x
´17x	x	y	z	{	|	}	~	-	
´20x	Ă	Ą	Ć	Č	Ď	Ě	Ę	Ğ	″8x
´21x	Ĺ	Ľ	Ł	Ń	Ň	Ŋ	Ő	Ŕ	
´22x	Ř	Ś	Š	Ş	Ť	Ţ	Ű	Ů	″9x
´23x	Ÿ	Ź	Ž	Ż	Ĳ	İ	đ	€	
´24x	ă	ą	ć	č	ď	ě	ę	ğ	″Ax
´25x	ĺ	ľ	ł	ń	ň	ŋ	ő	ŕ	
´26x	ř	ś	š	ş	ť	ţ	ű	ů	″Bx
´27x	ÿ	ź	ž	ż	ĳ	¡	¿	£	

´30x	À	Á	Â	Ã	Ä	Å	Æ	Ç	″Cx
´31x	È	É	Ê	Ë	Ì	Í	Î	Ï	
´32x	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	″Dx
´33x	Ø	Ù	Ú	Û	Ü	Ý	Þ	SS	
´34x	à	á	â	ã	ä	å	æ	ç	″Ex
´35x	è	é	ê	ë	ì	í	î	ï	
´36x	ð	ñ	ò	ó	ô	õ	ö	œ	″Fx
´37x	ø	ù	ú	û	ü	ý	þ	ß	
	″8	″9	″A	″B	″C	″D	″E	″F	

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Angela Beatrice Claire Diana «rica Francoise Ginette Hel„ne Iris Jackie Karen Laura Mar“a N}ta I“e ﬄctave Pauline Quêneau Roxanne Sabine Tã”a Ursula Vivian Wendy Xanthippe Yvﬁnne Zazilie

Mbbgr, why not some Greek version? (unsupported yet)

The following font consists only of a fairly simple rewriting of some driver file. Encoding has been inspired by Silvio Levy's work and some foregoing contributors. It is not (at that time) supposed to be a complete Greek font.

mbbgr10	*´0*	*´1*	*´2*	*´3*	*´4*	*´5*	*´6*	*´7*	
´00x	‹	›	«	»	‘‘	’’	„	ı	″0x
´01x	¿								
´02x	‘	’	`	´	˘	˘	¯	˚	″1x
´03x	‚								
´04x		!	"	#	$	%	&	’	″2x
´05x	(	)	⋆	+	,	-	.	/	
´06x	0	1	2	3	4	5	6	7	″3x
´07x	8	9	:	;	<	=	>	?	

´10x	@	Α	Β		Δ	Ε	Φ	Γ	″4x
´11x	Η	Ι	Θ	Κ	Λ	Μ	Ν	Ο	
´12x	Π	Χ	Ρ	Σ	Τ	ϒ		Ω	″5x
´13x	Ξ	Ψ	Ζ	[	\	]	^	˙	
´14x	́	α	β	ς	δ	ε	φ	γ	″6x
´15x	η	ι	θ	κ	λ	μ	ν	ο	
´16x	π	χ	ρ	σ	τ	υ		ω	″7x
´17x	ξ	ψ	ζ	–	—	̋	~	¨	
	″8	″9	″A	″B	″C	″D	″E	″F	

Ον Νοεμβερ 14, 1885, Σενατορ & Μρσ. Λελανδ Στανφορδ ςαλλεδ τογετηερ ατ τηειρ Σαν Φρανςισςο μανσιον τηε 24 προμινεντ μεν ωηο ηαδ βεεν ςηοσεν ασ τηε φιρστ τρυστεεσ οφ Τηε Λελανδ Στανφορδ Θυνιορ ϒνιερσιτψ. Τηεψ ηανδεδ το τηε βοαρδ τηε Φουνδινγ Γραντ οφ τηε ϒνιερσιτψ, ωηιςη τηεψ ηαδ εξεςυτεδ τηρεε δαψσ βεφορε. Τηισ δοςυμεντ—ωιτη αριουσ αμενδμεντσ, λεγισλατιε αςτσ, ανδ ςουρτ δεςρεεσ—ρεμαινσ ασ τηε ϒνιερσιτψ'σ ςηαρτερ. Ιν βολδ, σωεεπινγ λανγυαγε ιτ στιπυλατεσ τηατ τηε οβθεςτιεσ οφ τηε ϒνιερσιτψ αρε ‟το χυαλιφψ στυδεντσ φορ περσοναλ συςςεσσ ανδ διρεςτ υσεφυλνεσσ ιν λιφε; ανδ το προμοτε τηε πυβλιςκ ωελφαρε βψ εξερςισινγ αν ινφλυενςε ιν βεηαλφ οφ ηυμανιτψ ανδ ςιιλιζατιον, τεαςηινγ τηε βλεσσινγσ οφ λιβερτψ ρεγυλατεδ βψ λαω, ανδ ινςυλςατινγ λοε ανδ ρεερενςε φορ τηε γρεατ πρινςιπλεσ οφ γοερνμεντ ασ δεριεδ φρομ τηε ιναλιεναβλε ριγητσ οφ μαν το λιφε, λιβερτψ, ανδ τηε πυρσυιτ οφ ηαππινεσσ.” ¿Βυτ αρεν'τ Καφκα'σ Σςηλο ανδ σοπ'σ υρεσ οφτεν να̈ε ισ-ὰ-ισ τηε δμονις πηνιξ'σ οφφιςιαλ ρο̂λε ιν φλυφφψ σουφφλέσ? (¡ΤΗΕ ΔΑΖΕΔ ΒΡΟΩΝ ΦΟΞ ΧϒΙΚΛΨ ΓΑΕ 12345–67890 ΘϒΜΠΣ!)
Åνγελα̊ Βεατριςε λαιρε Διανα Έριςα Φρανς̧οισε Γινεττε Ηέλὲνε Ιρισ Θαςκιε Κᾱρεν Λαυρα̊ Μαρ˛α Να̋τα λ˛̆ε ςταε Παυλινε Χυε̂νεαυ Ροξαννε Σαβινε Τα̃˛α ϒρσ̆υλα ιιαν Ωενδψ Ξαντηιππε Ψννε Ζα̈ζιλιε

Mbbheb, what about a Hebrew version? (unsupported yet)

The following font should not be taken too seriously. There are at least three reasons for that. The first one is that it seems to contain a lot of diacritic marks, but the fact is that we don't know how to deal with them. If they are to be handled by a `\accent` mecanism, their metrical design should fit that. If they are not, what should be done? Secondly, there is the great encoding matter. I can't remember why I choosed the following encoding. It was inspired, I think, by some comparisons with existing ones, expecially with unicode specifications and with Yannis Haralambous' work on tiqwah fonts. The last reason that comes to my mind is that I know nothing about Hebrew and, furthermore, about Hebrew typographical composition. So, most of this serie is a first draft for an unexpectable and unusefull Hebrew font.

mbbheb10	*´0*	*´1*	*´2*	*´3*	*´4*	*´5*	*´6*	*´7*	
´02x									″1x
´03x									

	″8	″9	″A	″B	″C	″D	″E	″F	
´04x	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	″2x
´05x	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
´06x	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	″3x
´07x	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
´10x	|	[illegible]	[illegible]	[illegible]	[illegible]				″4x
´11x									
´12x	א	ב	ג	ד	ה	ו	ז	ח	″5x
´13x	ט	י	ך	כ	ל	ם	מ	ן	
´14x	נ	ס	ע	ף	פ	ץ	צ	ק	″6x
´15x	ר	ש	ת					[illegible]	
´16x	װ	ױ	ײ	׳	״				″7x
´17x									
´20x	אּ	בּ	גּ	דּ	הּ	וּ	זּ	חּ	″8x
´21x	טּ	יּ	ךּ	כּ	לּ	םּ	מּ	ןּ	
´22x	נּ	סּ	עּ	ףּ	פּ	ץּ	צּ	קּ	″9x
´23x	רּ	שּ	תּ						
	″8	″9	″A	″B	″C	″D	″E	″F	