Adam T. Lindsay VOORJAAR 2004 33

Apple Symbols

Abstract

This Mac-specific My Way documents some fonts available exclusively on MacOSX 10.3, "Panther," and makes them available to Mac users with fairly minimal installation effort. I do not distribute the fonts themselves.

Introduction

This Mac-specific My Way documents some fonts available exclusively on MacOSX 10.3, "Panther," and makes them available to Mac users with fairly minimal installation effort. I do not distribute the fonts themselves.

The fonts in question are Apple Symbols.ttf and LucidaGrande.dfont. The first is a generic font that makes available many of the symbolic/non-linguistic characters from the UNICODE character set, and the second is a large UNICODE font, optimised for screen viewing, with many additional Macintosh-specific font glyphs.

Installation

Installation is fairly simple, as long as you have a modicum of knowledge of the Terminal. Start by downloading (∇ -click in Safari) the package symb-mac.tar.gz, and note where your download directory is. Go to the Terminal and change directory to wherever you keep your TEX local changes. That may be ~/Library/texmf or /usr/local/teTeX/texmf.local. Once there, type:

tar xzvf /path/to/downloaded/symb-mac.tar

If that directory is not writeable, you will get some error messages, and will need to precede all of the commands in this section with sudo, and enter your password occasionally.

Assuming all goes well, the files should be installed on your machine, along with an alias to the Apple Symbols.ttf font, which PDFTEX should be able to read directly. LucidaGrande is in a format that PDFTEX cannot currently read, so you must convert the format manually. For this, we need George Williams' fondu utility, perhaps the Mac TeXer's best friend. From the directory where you just installed the symb-mac package, type:

```
cd fonts/truetype/apple/lucidagrande
fondu /System/Library/LucidaGrande.dfont
ls
```

At this point, you should see both LucidaGrande.ttf and LucidaGrandeBold.ttf listed in that folder. Finish the installation by letting $T_{\underline{E}}X$ know where the new files are:

texhash

Usage

The fonts that are now installed can serve two purposes: there is a large set of UNICODE symbols enabled by the fonts, and there are Mac-specific symbols that may be useful for typesetting Macintosh documentation.

Unicode Symbols

The first usage of these fonts was to complement the $\mathtt{symb-uni.zip}^5$ ConTeXT package, not only linking Unicode glyphs with ConTeXT symbolsets, but making the glyphs available so that Mac users can actually use these symbolsets in their documents.

To setup your document for the UNICODE symbols, load the symbol file, the map file, and make the appropriate font synonyms:

\usesymbols [uni]

\loadmapfile[unicode-apple-applesymbols]

\definefontsynonym[UnicodeRegular20] [applesymbols20xx-AppleSymbols] \definefontsynonym[UnicodeRegular21] [applesymbols21xx-AppleSymbols] \definefontsynonym[UnicodeRegular24] [applesymbols24xx-AppleSymbols] \definefontsynonym[UnicodeRegular25] [applesymbols25xx-AppleSymbols]

\definefontsynonym[UnicodeRegular26] [applesymbols26xx-AppleSymbols] \definefontsynonym[UnicodeRegular27] [lucidasans27xx-LucidaSansRegular]

To actually place these symbols in your documents, follow the instructions in

UnicodeSymbols.pdf.⁶

Mac-Specific Symbols

Once the fonts were installed for UNICODE purposes, I started examining the glyphs that were left over. There were a myriad of interesting glyphs related to the Macintosh keyboard, historical Apple hardware, multimedia, and other miscellany. However, there are few ways of automating the creation of encodings (groups of 256 named glyphs) or of symbol sets, so these had to be created largely by hand.

To use the Mac symbols, load the symb-mac file with:

\usesymbols[mac]

By loading the symbols this way, the map files are loaded and the appropriate font synonyms are created in the header of that file, so no other commands are needed. However, as the map files are loaded at the time \usesymbols is called, be sure to call this before the first page is shipped out, ideally in the document's header.

From there, you can call the symbols like any other:

Some headphones: \symbol[Apple Audio][Headphones]

Some headphones: Ω

Help wanted

Naming things is hard, and this axiom applies to these signs and symbols. I've tried my hardest to name the symbols accurately, but it's fairly labour intensive and there are fairly obscure symbols. So, if there are enthusiastic Mac users willing to fill in the gaps with these glyphs, please, contributions are appreciated. Send contributions to the Context mailing list or to atl@comp.lancs.ac.uk.

Apple Symbol Examples

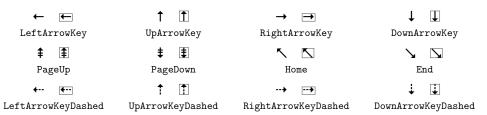
Apple Cursor Keys

\downarrow \Box	← (=	\rightarrow \Rightarrow	\uparrow \blacksquare
DownArrowKey	LeftArrowKey	RightArrowKey	UpArrowKey
4 ■	# ₺	Γ 🖸	7 2
PageUp	PageDown	Home	End
\downarrow \downarrow	←	\rightarrow \longrightarrow	\uparrow \blacksquare
DownArrowKeyDashed	LeftArrowKeyDashed	RightArrowKeyDashed	UpArrowKeyDashed

Apple Cursor Keys 2



Apple Cursor Keys Bold



Apple Control Keys

~ △	\leftarrow	→ →	⊬	\bigcirc	৩ ৩
Enter	CarriageReturn	Tab	TabLeft	PowerOn	Escape
A A	X X	← ⊫	X X		
Eject	${\tt ForwardDelete}$	BackDelete	${\tt ForwardDeleteItalic}$	Clear	Space

Apple Control Keys 2

~ ~	\leftarrow	\rightarrow \rightarrow	→ I → I	ı←	0
Enter	CarriageReturn	CarriageReturnRight	Tab	TabLeft	Power0n
5			\propto		
Escape	Eject	ForwardDelete	BackDelete	Clear	Space

Apple Control Keys Bold

~ ~	\leftarrow	\rightarrow \rightarrow	→ I → I	I←	0 0
Enter	CarriageReturn	${\tt CarriageReturnRight}$	Tab	TabLeft	PowerOn
5		X	\propto		
Escape	Eject	ForwardDelete	BackDelete	Clear	Space

Apple Alt Control Keys

~ 🔼	⊼	\$ \$	Γ
EnterAlt	EnterAlt2	ControlIso	OptionIso
$\overline{}$		₽ ₽	\hookrightarrow \hookrightarrow
OptionAlt	ClearAlt	${\tt CarriageReturnAlt}$	${\tt CarriageReturnRightAlt}$
#	5 . 5 .	V 50	
LineBreakLeft	LineBreakRight	NonBreakingSpace	

Apple Modifier Keys

♪ ☆	全 😭	^ 🔼	\mathbb{H}	~ 🖾
Shift	Capslock	Control	Command	Option

Apple Modifier Keys 2

☆ ☆	앞	^ _	\mathbb{H}	Z Z
Shift	Capslock	Control	Command	Option

Apple Modifier Keys Bold

☆ ☆	숨 🔂	^ ^	\mathbb{H}	Z Z
Shift	Capslock	Control	Command	Option

Apple Function Keys

F1 F1	F2	F3 E3	F4 F4	F5 F5
F1	F2	F3	F4	F5
F6 F6	F7 EZ	F8 F8	F9 F9	F10 F10
F6	F7	F8	F9	F10
F11 F11	F12 F12	F13 F13	F14 F14	F15 F15
F11	F12	F13	F14	F15

Apple Function Keys Bold

F1	F2 F2	F3 F3	F4 F4	F5 F5
F1	F2	F3	F4	F5
F6 F6	F7	F8 F8	F9 F9	F10 F10
F6	F7	F8	F9	F10
F11 F11	F12 F12	F13 F13	F14 F14	F15 F15
F11	F12	F13	F14	F15

Apple Number Keys

O O Boxed0	1 1 Boxed1	2 2 Boxed2	3 3 Boxed3	4 4 Boxed4	5 5 Boxed5
6 6 Boxed6	7 7 Boxed7	8 8 Boxed8	9 9 Boxed9	* * BoxedAsterisk	+ + BoxedPlus
BoxedSpace	BoxedMinus	BoxedPeriod	/ / // BoxedSlash	BoxedEquals	

Apple Number Keys Bold

O O Boxed0	1 1 Boxed1	2 2 Boxed2	3 3 Boxed3	4 4 Boxed4	5 5 Boxed5
6 6 Boxed6	7 7 Boxed7	8 8 Boxed8	9 9 Boxed9	* * BoxedAsterisk	+ + BoxedPlus
BoxedSpace	BoxedMinus	BoxedPeriod	/ [/] BoxedSlash	BoxedEquals	

Apple Printing

8∜ 8 <u>∜</u> PaperJam	PaperFeed	C C PaperFeed2	₽ ₽ ₽ PaperFeed3	EToner
🖟 🖟 Portrait	🗓 🛅 Landscape	4 4 Paper1	△ △ Paper2	A A Paper3
↑ Paper4	Paper5	⊠ ⊠ Envelope	⊠ ⊠ Envelope2	⊠ ⊠ EnvelopeSealed

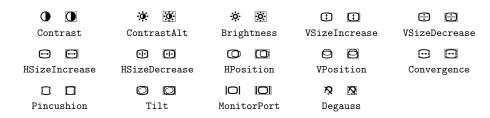
Apple Audio

181		$oldsymbol{\Omega}$	Ψ Ψ	y y
LineIn	LineInAlt	Headphones	${ t Microphone White}$	${\tt MicrophoneMute}$
₩ W MicrophoneActive	●)) ●)) SpeakerHigh	◄)) SpeakerMedium	∢) ⑤ SpeakerLow	◀ ■ SpeakerMute

Apple Video

*	IN IN	OUT OUT		OUT OUT
MovieCamera	VideoIn	VideoOut	SVideoIn	SVideoOut

Apple Monitors



Apple Communications

	હેં 🖸		
TelephonePort	ModemPort	PrinterModemPort	PrinterPort

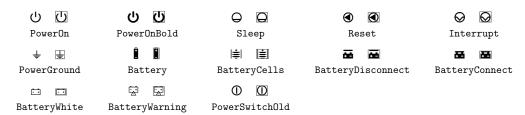
Apple Peripherals

♦ ♦	⟨··⟩	ት 🖫	දුං මුං		KD KD
SCSI	Ethernet	ADB	ADBOutline	ADBWhite	HD
floppyDisk	 PowerPort	\$ 5 SecurityPort	∯ ∯ AppleTalk	Shetworking	
riobbanisk	rowerPort	SecurityPort	whbrelark	Merworking	

Apple Cursors



Apple Power and Battery



Apple Help

? 7	? ?	?	ê E	�	?
HelpWhite	BalloonHelp	AppleGuide	${\tt ClassicMacQuestion}$	HelpDiamond	HelpCircle

Apple Logo



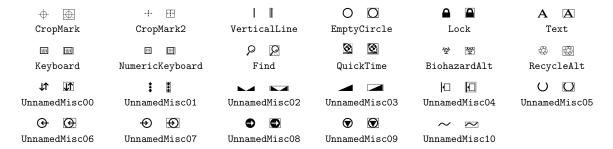
Apple Newton



Apple Warning

<u> </u>		Ņ N	AA	lack	\bigcirc	* *
FragileUpDry	ThisEndUp	MagneticFields	Shock	Warning	Restriction	Hazardous

Apple Miscellaneous



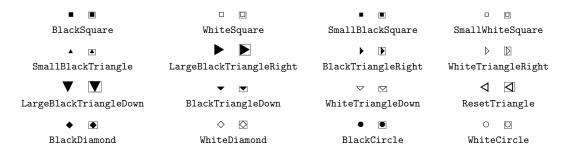
Apple Miscellaneous 2

		TEL TEL	FAX FAX	€ €
Pencil	PencilRight	Telephone	Fax	EuroLarge
€ €	✓ ✓	% %	* *	
Euro	Check	DiagonalFill	ContextualMenu	

Apple Block Elements



Apple Geometric Shapes



Apple Geometric Shapes Bold

• •		• •	
${\tt BlackSquare}$	WhiteSquare	SmallBlackSquare	${\tt SmallWhiteSquare}$
		• •	\triangleright \triangleright
${\tt SmallBlackTriangle}$	${\tt LargeBlackTriangleRight}$	${\tt BlackTriangleRight}$	${\tt WhiteTriangleRight}$
	▼ ▼	∇ \square	4 4
${\tt LargeBlackTriangleDown}$	${\tt BlackTriangleDown}$	${\tt WhiteTriangleDown}$	ResetTriangle
♦	\Diamond $igoriant{igoriant}$	•	0 0
BlackDiamond	WhiteDiamond	BlackCircle	WhiteCircle

Apple Geometric Shapes 2

UnnamedArrow06

UnnamedArrow07

■ ■ UnnamedShape01	□ □ UnnamedShape02	UnnamedShape03	UnnamedShape04	UnnamedShape05
UnnamedShape06	□ □ UnnamedShape07	UnnamedShape08	▲ ▲ UnnamedShape09	△ △ UnnamedShape10
\triangle \triangle UnnamedShape11	▲ ▲ UnnamedShape12	▼ ▼ UnnamedShape13	◆ ● UnnamedShape14	♦ • UnnamedShape15
▶ ▶ UnnamedShape16	◀ 【 UnnamedShape17	◀ ◀ UnnamedShape18	\triangleleft \square UnnamedShape19	
$ec{oldsymbol{ec{Q}}}$ UnnamedShape21	√ ☐ UnnamedShape22	∢ ﴿ ☑ UnnamedShape23	● ■ UnnamedShape24	
Apple Arrows				
A A	▼ ▼	◄ ■	> >	←
UnnamedArrow01	UnnamedArrow02	UnnamedArrow03	UnnamedArrow04	UnnamedArrow05

UnnamedArrow08

UnnamedArrow09

UnnamedArrow10

Unicode Chart Forms

NQ NQ SP	MQ MQ SP	EN EN SP
EnQuad	${\tt EmQuad}$	EnSpace
EM EM SP	3/M 3/M S P	4/M 4/M SP SP
EmSpace	ThreePerEmSpace	FourPerEmSpace
6/M 6/M S P	F SP SP	P P SP
${\tt SixPerEmSpace}$	FigureSpace	PunctuationSpace
TH SP	H SP	ZW ZW SP
ThinSpace	HairSpace	ZeroWidthSpace
ZW ZW NJ	zw zy	LRM
ZeroWidthNonJoiner	ZeroWidthJoiner	${\tt LeftToRightMark}$
RLM	NB NB	SEP SEP
${\tt RightToLeftMark}$	NonBreakingHyphen	LineSeparator
SEP SEP	LRE	RLE
ParagraphSeparator	LeftToRightEmbedding	${\tt RightToLeftEmbedding}$
PDF	LRO LRO	RLO
${\tt PopDirectionalFormatting}$	LeftToRightOverride	${\tt RightToLeftOverride}$
NNB NNB SP	ss ss	SS SS
NarrowNoBreakSpace	${\tt InhibitSymmetricSwapping}$	${\tt ActivateSymmectricSwapping}$
AFS. AFS.	A A A A A A A A A A A A A A A A A A A	NA DS DS
${\tt InhibitArabicFormShaping}$	ActivateArabicFormShaping	NationalDigitShapes
NO NO DS		
NominalDigitShapes		

Notes

1. Nor will I respond to requests for them. Sorry, but I do need to respect Apple's intellectual property.

- 2. from http://homepage.mac.com/atl/tex
- 3. I leave it up to your conscience whether this local font conversion is legal and/or ethical.
- 4. downloadable from http://fondu.sourceforge.net/
- 5. from http://homepage.mac.com/atl/tex
- 6. from http://homepage.mac.com/atl/tex

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