

Macintosh Font Test Files

Richard Koch

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1 Introduction

This folder contains three font test files which work both with XeTeX and with ConTeXt running over LuaTeX. The files contain short samples of all 215 fonts currently shipped by Apple in system 10.10.3, Yosemite.

These test files were used in 2015 by Khaled Hosney and Jiang Jiang to fix the font routines in XeTeX. When tests began, 18 fonts had problems. In the end, only two problem fonts remained, and that was because both were bitmap fonts: GB18030 Bitmap and Apple Color Emoji.

A list of fonts, with information about each, is provided by the Apple program “Font Book” in /Applications. The fonts are listed alphabetically in this book, except that a few “Apple” fonts are listed last. Our test files list the fonts in the same order.

Our test file is broken into three pieces for fear that XeTeX and LuaTeX cannot handle all 215 fonts in a single document. It would be easy to combine the test files.

The tests are not as exhaustive as they might be because most fonts come with five or more variants. For example, the Font Book contains a font named “Iowan Old Style”. This font has seven variants: Roman, Titling, Italic, Black, Bold, Black Italic, and Bold Italic. A more extensive test would try all these variants. To show how this is done, the test files provided do test the variants of this one particular font. Notice that a variant is specified by writing the file name, a hyphen, and the variant name.

The test samples also show the variants for Kohinoor Devanagari. At first, the fix for XeTeX in 2015 worked only for the font itself, or rather its first

variant, but not the others. This bug was then fixed.

2 Configuring the Test Files

The source for each file contains the following lines:

```
\newif \ifcontext
\contextfalse
```

In this form, the files work with XeTeX. To run under ConTeXt over LuaTeX, change **contextfalse** to **contexttrue**.

At the very top of each source file there are three lines

```
% !TEX TS-program = XeTeX
%\ !TEX TS-program = ConTeXt (LuaTeX)
% !TEX encoding = UTF-8 Unicode
```

These comment lines are used when typesetting with TeXShop; they probably also work, possibly with small modifications, in TeXworks. The first line tells TeXShop to run XeTeX; the second line tells TeXShop to run ConTeXt, but this line is commented out by the backslash just after the initial comment symbol; the third line tells TeXShop to read the source with UTF-8 encoding.

When testing LuaTeX rather than XeTeX, deactivate the first line by adding a backslash after the initial comment sign, and activate the second line by removing its backslash symbol.

3 Using the Test Files

Typeset until there is an error; the log will invariably indicate the font sample which caused the error. Comment out the code for this font and continue. TeXShop and other editors will color comment lines in red. In the end, problem fonts will stand out with red code in the test files. Fix these problem fonts.

As initially provided, only two fonts are commented out and appear in red: GB18030 Bitmap and Apple Color Emoji.