Support for the Lucida OpenType fonts from TUG

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1 Introduction

This document contains examples of the Lucida OpenType fonts available through TUG. They can be used with any OpenType-aware application, including the LuaT_EX and X_HT_EX extensions of T_EX (but not pdfT_EX).

A brief overview:

- Math fonts: Lucida Bright Math and Lucida Bright Math Demi, extended OpenType versions of the original Type 1 Lucida math fonts.
- Three text families (regular, italic, bold, bold italic) also coming from the original Type 1 distribution: Lucida Bright, Lucida Sans, and Lucida Sans Typewriter.
- Three specialized fonts from the original Type 1 distribution: Blackletter, Calligraphy, and Handwriting.
- Two additional monospaced font families (same four variants): Lucida Grande Mono DK and Lucida Console DK. These have O (oh), and Q glyphs modified to a somewhat squarish shape, and the 0 (zero) glyph open rather than slashed, as preferred by Don Knuth. As usual, Lucida ConsoleDK has shorter capitals than Grande Mono, among

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1 INTRODUCTION 2

other smaller changes. (If you don't have the DK fonts and want to remake this document as a test, you'll need to remove the references to them.)

The package lucida-otf supports all families with specific optional arguments:

name	meaning			
RM	Lucida Bright (Roman)			
SS	Lucida Sans			
TT	Lucida Sans Typewriter			
GTT	Lucida GrandeDK			
CTT	Lucida ConsoleDK			
MM	Lucida Math			
MMbold	Lucida Boldmath			
BL	Lucida Blacklatter			
CAL	Lucida Calligraphy			
HW	Lucida Handwriting			
DefaultFeatures	for all font styles			

Except math all fonts are preset with Scale=0.92. For this documentation we use instead:

The standard font families rm, sf, and tt can be used as usual for any LATEX engine. The other specific Lucida fonts can be used by one of the macros \LucidaBlackletter , \LucidaCalligraphy , \LucidaGrandeMonoDK , and \LucidaConsoleDK . They are defined as:

```
% The specialized one-off fonts:
\newfontface\LucidaBlackletter{Lucida Blackletter OT}[\lucidaBL@features]
\newfontface\LucidaCalligraphy{Lucida Calligraphy OT Italic}[\lucidaCAL@features]
\newfontface\LucidaHandwriting{Lucida Handwriting OT Italic}[\lucidaHW@features]
%
% GrandeMono and Console fonts for an example:
```

1 INTRODUCTION 3

```
BoldFont = * Bold,
  BoldItalicFont = * Bold Italic
]
%
\newfontfamily\LucidaConsoleDK{LucidaConsoleDK}[%
  \lucidaConsoleTT@features,
      ItalicFont = * Italic,
        BoldFont = * Bold,
  BoldItalicFont = * Bold Italic
]
   By default the fonts are defined by their symbolic name. As an alternative you can load
the package with the option usefilenames.
\usepackage[usefilenames,
            TT={Scale=0.88, FakeStretch=0.9},
            SS=\{Scale=0.9\},\
            RM=\{Scale=0.9\},
            DefaultFeatures={Ligatures=TeX}]{lucida-otf} % support opentype math fonts
   Then all definitions uses the extension .otf and the filename of the fonts:
% The specialized one-off fonts:
\newfontface\LucidaBlackletter{LucidaBlackletterOT}[Extension=.otf,\lucidaBL@features]
\newfontface\LucidaCalligraphy{LucidaCalligraphyOT-Italic}[Extension=.otf,\lucidaCAL@features]
\newfontface\LucidaHandwriting{LucidaHandwritingOT-Italic}[Extension=.otf,\lucidaHW@features]
% GrandeMono and Console fonts for an example:
\newfontfamily\LucidaGrandeMonoDK{LucidaGrandeMonoDK}[
       Extension = .otf,
  \lucidaGrandeTT@features,
      ItalicFont = *-Italic,
        BoldFont = *-Bold,
  BoldItalicFont = *-BoldItalic
]
\newfontfamily\LucidaConsoleDK{LucidaConsoleDK}[%
       Extension = .otf,
  \lucidaConsoleTT@features,
      ItalicFont = *-Italic,
        BoldFont = *-Bold,
```

2 TEXT EXAMPLES 4

```
BoldItalicFont = *-BoldItalic
]
```

2 Text examples

The basic text family is LucidaBrightOT, with the usual four variants—regular, italic, bold, and bold italic, all with oldstyle figures; small caps are available in the upright shapes:

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés? SPHINX OF BLACK QUARTZ, JUDGE MY VOW. 0123456789. For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés? 0123456789.

LucidaBright0T

LucidaBrightOT-Italic

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés? SPHINX OF BLACK QUARTZ, JUDGE MY VOW. 0123456789.

LucidaBrightOT-Demibold

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés? 0123456789.

LucidaBrightOT-DemiboldItalic

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés? For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

LucidaSans0T

LucidaSansOT-Italic

2 TEXT EXAMPLES 5

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

LucidaSansOT-Demibold

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

LucidaSansOT-DemiboldItalic

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

LucidaSansTypewriter0T

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

LucidaSansTypewriterOT-Oblique

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

LucidaSansTypewriterOT-Bold

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

LucidaSansTypewriterOT-BoldOblique

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

LucidaGrandeMonoDK

2 TEXT EXAMPLES 6

For £45, almost anything can be found floating in LucidaGrandeMonoDK-Italic fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

For £45, almost anything can be found floating in LucidaGrandeMonoDK-Bold fields. ¡THE DAZED BROWN FOX QUICKLY GAVE

12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

For £45, almost anything can be found floating in LucidaGrandeMonoDK-BoldItalic fields. ¡THE DAZED BROWN FOX QUICKLY GAVE

12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

For £45, almost anything can be found floating in LucidaConsoleDK fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

For £45, almost anything can be found floating in LucidaConsoleDK-Italic fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

For £45, almost anything can be found floating in LucidaConsoleDK-Bold fields. ¡THE DAZED BROWN FOX QUICKLY GAVE

12345-67890 JUMPS! - ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy soufflés?

3 MATH EXAMPLES 7

For £45, almost anything can be found floating in LucidaConsoleDK-BoldItalic fields. ; THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! - ¿But aren't Kafka's Schloß and Asop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

For £45, almost anything can be found floating in fields. TDEDA3€D BROWN FOX QUICKLY GAV€ 12345-67890 DUMPS! — But aren't kafka's Schlok and Æsop's Œuvres often naïve vis-à-vis the bæmonic phænix's official rôle in fluffy soufflés?

LucidaBlackletterOT

For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vís-à-vís the dæmonic phænix's official rôle in fluffy soufflés? For £45, almost anything can be found floating in fields. ¡THE DAZED BROWN FOX QUICKLY GAVE 12345-67890 JUMPS! — ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phænix's official rôle in fluffy soufflés?

LucidaCalligraphyOT

LucidaHandwritingOT

Math examples

```
Here's some text. And here's some math:
  \phi(x)=\int_{-\infty}^{\infty} e^{-x^{2}/2}
\1
And now bold math:
\boldmath
1/
  \phi(x)=\int_{-\infty}^{\infty} e^{-x^{2}/2}
\backslash ]
\unboldmath
Euro and copyright symbols are available: \texteuro\ \textcopyright.
```

Here's some text. And here's some math:

$$\phi(x) = \int_{-\infty}^{x} e^{-x^2/2}$$

4 CLOSING 8

And now bold math:

$$\phi(x) = \int_{-\infty}^{x} e^{-x^2/2}$$

Euro and copyright symbols are available: € ©.

4 Closing

If you have questions or problems regarding installation or use, please email lucida@tug. org; this is an open and publicly archived list for Lucida discussion; you can subscribe on the web at http://lists.tug.org/lucida. On the other hand, questions or problems related to ordering or licensing should go to lucida-admin@tug.org.

Finally, B&H's web site for Lucida is http://lucidafonts.com, and the home page for Lucida and T_EX is http://tug.org/lucida.

The font list of this documentation is:

name	type	encoding	emb sub uni obje	ct ID
IVITZF+LucidaBrightOT	CID Type OC	Identity-H	yes yes yes	8 0
OUEYKT+LucidaBrightOT-Demibold	CID Type OC	Identity-H	yes yes yes	10 0
DMZJZK+LucidaSansTypewriterOT	CID Type OC	Identity-H	yes yes yes	12 0
QTPVMR+LucidaBrightOT-Italic	CID Type OC	Identity-H	yes yes yes	18 0
JKNIKI+LucidaSansTypewriterOT-Obliqu	ie CID Type OC	Identity-H	yes yes yes	19 0
DNYNRV+LucidaBrightOT-DemiboldItalic	CID Type OC	Identity-H	yes yes yes	30 0
YHDTXW+LucidaSansOT	CID Type OC	Identity-H	yes yes yes	31 0
TSYNBM+LucidaSansOT-Italic	CID Type OC	Identity-H	yes yes yes	32 0
ZBOWTG+LucidaSansOT-Demibold	CID Type OC	Identity-H	yes yes yes	33 0
CBPZCR+LucidaSansOT-DemiboldItalic	CID Type OC	Identity-H	yes yes yes	38 0
XULIVE+LucidaSansTypewriterOT-Bold	CID Type OC	Identity-H	yes yes yes	39 0
RCJVJU+LucidaSansTypewriterOT-BoldOb	olique CID Type OC	Identity-H	yes yes yes	40 0
AHHNBA+LucidaGrandeMonoDK	CID Type OC	Identity-H	yes yes yes	41 0
NIAALZ+LucidaGrandeMonoDK-Italic	CID Type OC	Identity-H	yes yes yes	42 0
CGHAFT+LucidaGrandeMonoDK-Bold	CID Type OC	Identity-H	yes yes yes	47 0
QRPBBK+LucidaGrandeMonoDK-BoldItalic	CID Type OC	Identity-H	yes yes yes	48 0
BBEZKA+LucidaConsoleDK	CID Type OC	Identity-H	yes yes yes	49 0
ZJFTAW+LucidaConsoleDK-Italic	CID Type OC	Identity-H	, , ,	50 0
UBFFLP+LucidaConsoleDK-Bold	CID Type OC	Identity-H	, , ,	51 0
DTAMTW+LucidaConsoleDK-BoldItalic	CID Type OC	Identity-H	yes yes yes	52 0
FOWDUC+LucidaBlackletterOT	CID Type OC	Identity-H	yes yes yes	58 0
BRNAUX+LucidaCalligraphyOT-Italic	CID Type OC	Identity-H	yes yes yes	59 0
GSIBVZ+LucidaHandwritingOT-Italic	CID Type OC	Identity-H	, , ,	60 0
YBYGGX+LucidaBrightMathOT	CID Type OC	Identity-H	, , ,	62 0
FHKOND+LucidaBrightMathOT	CID Type OC	Identity-H	yes yes yes	63 0
IJDQZC+LucidaBrightMathOT	CID Type OC	Identity-H	yes yes yes	64 0
XVGNVQ+LucidaBrightMathOT-Demibold	CID Type OC	Identity-H	yes yes yes	65 0
MVXVTK+LucidaBrightMathOT-Demibold	CID Type OC	Identity-H	, , ,	66 0
TRUGVI+LucidaBrightMathOT-Demibold	CID Type OC	Identity-H	yes yes yes	67 0

REFERENCES 9

References

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