

Lucida OpenType fonts from TUG

T_EX Users Group
<http://tug.org/lucida>

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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_YT_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 Console has shorter capitals than Grande Mono, among other smaller changes. (If you don't have the DK fonts and want to re-make this document as a test, you'll need to remove the references to them.)

Samples of all the fonts follow.

For information on the OpenType features in these fonts, see section 3. If you're using the Lucida OpenType fonts with T_EX, examples and other details are in section ??.

For more information about the Lucida fonts available from TUG, and an order form, please see <http://tug.org/lucida>.

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2 Font samples

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. LucidaBrightOT

*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.* LucidaBrightOT-Italic

**For £45, almost anything can be found floating in fields.
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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-Demi

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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.*** LucidaBrightOT-DemiItalic

2.1 Samples: Lucida Sans OT

The sans serif, LucidaSansOT, is available in the same four variants (no small caps or oldstyle figures):

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
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LucidaSansOT-
Italic

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LucidaSansOT-
Demi

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LucidaSansOT-
DemiItalic

2.2 Samples: Lucida Sans Typewriter OT

The monospaced LucidaSansTypewriterOT family is again available in the usual four variants; no small caps or oldstyle figures.

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LucidaSans
TypewriterOT

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LucidaSans
TypewriterOT-
Oblique

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LucidaSans
TypewriterOT-
Bold

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LucidaSans
TypewriterOT-
BoldOblique

2.3 Samples: Lucida Grande Mono DK

The monospaced LucidaGrandeMonoDK family is available in the usual four variants; no small caps or oldstyle figures.

As mentioned at the beginning, the principal design difference from LucidaSansTypewriter is a squarish style for O (oh), Q, and related characters, and an open, rather than slashed, zero by default. A few other characters differ as well.

In addition, the Grande Mono fonts support the WGL4 (Windows Glyph List) repertoire, thus including Greek and Cyrillic.

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LucidaGrande
MonoDK

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LucidaGrande
MonoDK-Italic

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LucidaGrande
MonoDK-Bold

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LucidaGrande
MonoDK-
BoldItalic

2.4 Samples: Lucida Console DK

The monospace LucidaConsoleDK family is available in the usual four variants; no small caps or oldstyle figures.

The Console design has shorter capitals than LucidaGrandeMono, with the same style of O, Q, 0, and related. The Console fonts also support WGL4.

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LucidaConsoleDK

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LucidaConsoleDK-Italic

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LucidaConsoleDK-Bold

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LucidaConsoleDK-BoldItalic

2.5 Samples: Blackletter, Calligraphy, Handwriting

These three specialized text fonts are included: LucidaBlackletterOT, LucidaCalligraphyOT, and LucidaHandwritingOT.

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?

LucidaBlackletterOT

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 phœnix's official rôle in fluffy soufflés?*

Lucida
CalligraphyOT

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 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?*

Lucida
HandwritingOT

2.6 Samples: Lucida Bright Math OT

Finally, two OpenType math fonts are provided: LucidaBrightMathOT and LucidaBrightMathOT-Demi. The -Demi variant has bold letters in the normal positions, to be used for typesetting math within bold text, such as section headings. This is distinct from the math characters which are specified as bold in Unicode for specific semantics; those are bold in both math fonts.

$e^{i\pi} + 1 = 0$ LucidaBrightMathOT

$e^{i\pi} + 1 = 0$ LucidaBrightMathOT-Demi

The above are the Lucida OpenType fonts available from TUG. Many additional fonts are available directly from B&H: see lucidafonts.com.

3 Font features in Lucida OpenType

3.1 General features in Lucida OpenType text fonts

The following are the OpenType features available in (at least some of) the Lucida text fonts:

feature	description	default(*)
dlig	discretionary ligatures (f-ligatures in typewriter font)	off
liga	standard ligatures (f-ligatures in most fonts)	on
onum	old style numbers	off
smcp	small caps	off
zero	slashed zero	off
locl	script/language specific (localized) forms	on

The `loc1` feature is described in the next section.

(*) Which features are on or off by default is controlled by the application program, not the font. The settings listed here are the most common defaults for OpenType-aware applications.

One more feature, `ss01`, has different meanings in different fonts:

feature	font	description
<code>ss01</code>	Lucida Sans & Typewriter	use dotted zero: 0 vs. default 0.
<code>ss01</code>	Lucida Grande Mono	use Lucida-standard shapes: 00Q vs. default 00Q;
	Lucida Console	00Q vs. default 00Q.

The following table shows which features are available—not necessarily on by default—in which text fonts. (Math features follow.)

font name	dlig	liga	onum	smcp	zero	ss01
LucidaBrightOT		x	x	x		
LucidaBrightOT-Demi		x	x	x		
LucidaBrightOT-Italic		x	x			
LucidaBrightOT-DemiItalic		x	x			
LucidaSansOT		x			x	x
LucidaSansOT-Demi		x			x	x
LucidaSansOT-Italic		x			x	x
LucidaSansOT-DemiItalic		x			x	x
LucidaSansTypewriterOT	x				x	x
LucidaSansTypewriterOT-Bold	x				x	x
LucidaSansTypewriterOT-Oblique	x				x	x
LucidaSansTypewriterOT-BoldOblique	x				x	x
LucidaGrandeMonoDK	x				x	x
LucidaGrandeMonoDK-Bold	x				x	x
LucidaGrandeMonoDK-Italic	x				x	x
LucidaGrandeMonoDK-BoldItalic	x				x	x
LucidaConsoleDK	x				x	x
LucidaConsoleDK-Bold	x				x	x
LucidaConsoleDK-Italic	x				x	x
LucidaConsoleDK-BoldItalic	x				x	x
LucidaBlackletterOT		x				
LucidaCalligraphyOT		x				
LucidaHandwritingOT		x				

Incidentally, two additional features are present in the fonts: `mark` and `mkmk`. These are related to accent positioning, but at this time they are experimental, not supported, and hence not documented.

3.2 Language-specific features in Lucida OpenType

The Lucida text fonts have two language-specific features:

- with language NLD (Dutch) and when both of the `loc1` and `liga` features are on, `ij` and `IJ` ligatures are activated: `ij IJ`. Available in the four Lucida Bright fonts.
- with language TRK (Turkish) and when both `loc1` and `smcp` are on, the small cap `i` has a dot to differentiate it from dotless `i`: `i İ`. If just `loc1` is on, the ‘`fi`’ and ‘`ffi`’ ligatures are disabled: `fi ffi`. Available in the four Lucida Bright and four Lucida Sans Typewriter fonts.

3.3 Math features in Lucida OpenType

Following are the OpenType features for the math fonts. All math font features work only when the OpenType script `Math` is specified; this is the default in math mode.

- `ss01` alternate Latin lower case math italic identical to text italic. This option is not recommended as Greek ν (nu) and Latin ν (vee) become too similar; cf. the default vee: ν .
- `ss02` smaller arrows (original Type 1 size): \uparrow vs. default \Uparrow .
- `ss03` smaller operators (original Type 1 size): Σ vs. default \sum .
- `ss04` calligraphic alternative (similar to the Type 1 design) to the math script alphabet: $ABC xyz$ vs. default $\mathcal{ABC} xyz$.
- `ss05` use a slashed-zero style for the empty set character (U+2205): \emptyset vs. default \varnothing .