The **UUxetex** package*

Joseph Scott

`joseph.scott@it.uu.se`

September 23, 2011

1 Introduction

A package to use the official Uppsala University fonts as the default fonts when typesetting with XeLaTeX.

2 Usage

With no options, the package will load the Berling font as the main (roman) font, and Gill Alt One MT as the san-serif font. These fonts are not included with the package; they are licensed by the University for official use, and are available to staff through the webpage of the Office of Communication [1]. To use the fonts, simply install them on your system, and XeTeX should be able to do the rest.

Note to Mac users: the University provided packages for Mac fonts are quite remakably out of date—they are actually System 9 font suitcases. While they will still work on a modern system, they are not (in the author's experience) compatible with XeTeX. The PC fonts, on the other hand, are simple TrueType packages that work just fine with both Macs and XeTeX.

If you don't have these fonts, use the **backup** option to load the standard fall back fonts (Times New Roman and Arial); alternately, you can specify fonts by name using the **sanserif** and **serif** options.

UUxetex also turns on the `tex-text` mapping (because why you you ever not want that?) and fixes the tilde as the non-breaking space.

3 Options

beamer Let the package know you will be using the beamer slide creation package.
For some reason beamer does not appear to play well with Gill Alt One MT;

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*This document corresponds to UUxetex v1.1, dated 2011/09/23.

[1] Available from the astonishingly long web address of `http://uadm.uu.se/Avdelningen_for_kommunikation_och_externa_relationer/Kommunikationsenheten/grafisk-profil/Ladda_ned_logotyp__mallar_mm/Ladda_ned/Ladda_ned_teckensnitt/`

this option causes Gill Sans to be loaded instead (the difference is relatively minor).

math=⟨*font*⟩ Specify a unicode math font. By default, UUxetex leaves the math font untouched, but if you have a unicode math font installed you can call for it with this option. This option is really only here because the author detests the sans-serif math font used by default in beamer. If **math** is passed without specifying a font by name, UUxetex will assume you want the XITS Math font to be loaded. [2]

xits Almost an alias for **math=[XITS Math]**, but with one addition: some attempt is made to make the glyphs used in the `\mathcal` range a little less dorky by switching them to stylistic set 1. Hopefully a better option will present itself in the future.

backup Use Arial and Times New Roman fonts.

serif=⟨*font*⟩ Specify a serif replacement font by name.

sanserif=⟨*font*⟩ Specify a san-serif replacement font by name.

`\UUsans`
`\UUroman`
noreplace Instead of replacing the main fonts, defines `\UUsans` and `\UUroman` as new font instances, so you can use them just where you want them.

4   Implementation

```
1 \RequirePackage{xkeyval}
2 \newif\if@uuxetex@standard
3 \DeclareOptionX{standard} {
4 \def \uuxetex@sanserif@font {Gill Alt One MT}
5 \def \uuxetex@serif@font {Berling Roman}
6 \@uuxetex@standardtrue
7 }
8 \DeclareOptionX{sanserif}[Arial]{
9 \def \uuxetex@sanserif@font {#1}
10 \@uuxetex@standardfalse
11 }
12 \DeclareOptionX{serif}[Times New Roman]{
13 \def \uuxetex@serif@font {#1}
14 \@uuxetex@standardfalse
15 }
16 \newif\if@uuxetex@mathoverride
17 \DeclareOptionX{math}[XITS Math]{
18 \@uuxetex@mathoverridetrue
19 \def \uuxetex@math@font {#1}
20 }
21 \newif\if@uuxetex@xits
22 \DeclareOptionX{xits}{
```

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[2]Download from `https://github.com/khaledhosny/xits-math/downloads`

```
23 \def \uuxetex@math@font {XITS Math}
24 \@uuxetex@xitstrue
25 \@uuxetex@mathoverridetrue
26 }
27 \DeclareOptionX{backup}{
28 \ExecuteOptionsX{serif,sanserif}
29 }
30 \newif\if@uuxetex@beamer
31 \DeclareOptionX{beamer}{
32 \def\uuxetex@sanserif@font{Gill Sans}
33 }
34 \newif\if@uuxetex@noreplace
35 \DeclareOptionX{noreplace}{
36 \@uuxetex@noreplacetrue
37 }
38 \ExecuteOptionsX{standard}
39 \ProcessOptionsX\relax
40
41 \RequirePackage{xunicode} %Unicode extras!
42 \RequirePackage{xltxtra}
43
44 \if@uuxetex@mathoverride
45 \RequirePackage{unicode-math}
46 \setmathfont{\uuxetex@math@font}
47 \if@uuxetex@xits
48 \setmathfont[range={\mathcal,\mathbfcal},StylisticSet=1]{XITS Math}
49 \fi
50 \fi
51
52 \defaultfontfeatures{Mapping=tex-text}
53 \renewcommand{\nobreakspace}{\nobreak\ }
54
55 \if@uuxetex@noreplace
```

\UUsans Use these if you just want a few things in UU fonts:
\UUroman
```
56 \newfontinstance{\UUsans}{\uuxetex@sanserif@font}
57 \if@uuxetex@standard
58 \newfontinstance{\UUroman}[BoldFont={Berling Bold}, ItalicFont={Berling Italic}]{Berling Roman}
59 \else
60 \newfontinstance{\UUroman}{\uuxetex@serif@font}
61 \fi

62 \else
63 \setsansfont{\uuxetex@sanserif@font}
64 \if@uuxetex@standard
65 \setmainfont[BoldFont={Berling Bold}, ItalicFont={Berling Italic}]{Berling Roman}
66 \else
67 \setmainfont{\uuxetex@serif@font}
68 \fi
69 \fi
```

Change History

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Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.