The **UUxetex** package*

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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Note to Mac users: the University provided packages for Mac fonts are quite remakably out of date—they are actually System 9 font suitcases.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;

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

¹Available 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=\langle font \rangle 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.

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.

 $\mathbf{serif} = \langle font \rangle$ Specify a serif replacement font by name.

 $sanserif = \langle font \rangle$ Specify a san-serif replacement font by name.

\UUsans

noreplace Does not replace standard document fonts. University fonts can be accessed via two macros: \UUsans and \UUroman. Note that these macros are always defined, not just when **noreplace** is invoked.

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
8 \DeclareOptionX{sanserif}[Arial]{
9 \def \uuxetex@sanserif@font {#1}
10 \Quuxetex@standardfalse
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 }
```

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

```
24 \QuuxetexQxitstrue
          25 \Quuxetex@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@replace
          35 \DeclareOptionX{noreplace}{
          36 \@uuxetex@replacefalse
          37 }
          38 \ExecuteOptionsX{standard}
          39 \ProcessOptionsX\relax
          41 \RequirePackage{xunicode} %Unicode extras!
          42 \RequirePackage{xltxtra}
          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
          52 \defaultfontfeatures{Mapping=tex-text}
          53 \renewcommand{\nobreakspace}{\nobreak\ }
\UUsans Use these if you just want a few things in UU fonts:
\UUroman
          55 \newfontinstance{\UUsans}{\uuxetex@sanserif@font}
          56 \if@uuxetex@standard
          57 \newfontinstance{\UUroman}[BoldFont={Berling Bold}, ItalicFont={Berling Italic}]{Berling Roman}
          59 \newfontinstance{\UUroman}{\uuxetex@serif@font}
          60 \fi
          61 \if@uuxetex@replace
          62 \setsansfont{\uuxetex@sanserif@font}
          63 \if@uuxetex@standard
          64\setmainfont[BoldFont={Berling Bold}, ItalicFont={Berling Italic}]{Berling Roman}
          66 \setmainfont{\uuxetex@serif@font}
          67\fi
```

21 \newif\if@uuxetex@xits
22 \DeclareOptionX{xits}{

23 \def \uuxetex@math@font {XITS Math}

Change History

v1.0	\UUroman: Added option to load	
General: Initial version 1	fonts into new font instances,	
v1.1	leaving original fonts un-	
General: Streamlined options pro-	touched	
cessing. $\dots \dots 1$		

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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.

Symbols	${f F}$	P
\@uuxetex@mathoverridetru	le\fi 49, 50, 60, 67, 68	\ProcessOptionsX 39
$\dots \dots 18, 25$		
\@uuxetex@replacefalse	I	${f R}$
	$\verb \if@uuxetex@beamer . 30$	\relax 39
\@uuxetex@standardfalse	\if@uuxetex@mathoverride	$\verb \renewcommand \dots \dots 53$
$\dots \dots 10, 14$	$\dots \dots 16, 44$	\RequirePackage
\@uuxetex@standardtrue	\if@uuxetex@replace	$\dots 1, 41, 42, 45$
6	$\dots 34, 61$	
\@uuxetex@xitstrue . 24	\if@uuxetex@standard	${f S}$
		\setmainfont $64, 66$
\ 53	$\c 0.01$	\setmathfont $46, 48$
\□ 53		\setsansfont 62
$^{ m M}$		
\DeclareOptionX	$\mbox{\mbox{\it mathbfcal}}$ 48	${f U}$
3, 8, 12,	\mathcal 48	\UUroman $\dots \dots 55$
17, 22, 27, 31, 35		\UUsans $\underline{55}$
\def 4, 5, 9, 13, 19, 23, 32	${f N}$	\uuxetex@math@font .
\defaultfontfeatures 52	\newfontinstance	
		\uuxetex@sanserif@font
${f E}$	\newif . $2, 16, 21, 30, 34$	\dots 4, 9, 32, 55, 62
\else $\dots \dots 58,65$	\nobreak 53	\uuxetex@serif@font
$\$ ExecuteOptionsX $28,38$	\nobreakspace 53	$\dots 5, 13, 59, 66$