

1 Introduction

XITS is Times-like font for scientific publishing with support for mathematical typesetting. It has wide coverage of Latin, Greek and Cyrillic scripts, as well as extensive coverage of Unicode symbols used in mathematics and other fields of science. XITS supports also proper mathematical typesetting and can be used to typeset complex mathematical equations in modern T_EX engines, namely LuaT_EX and X_YT_EX, as well as Microsoft Office starting from 2007 version¹.

XITS is available as an OpenType font, in four styles; regular, bold, italic and bold italics, besides the maths font.

2 Font features

XITS supports the following OpenType features:

feature	Description
<i>All fonts</i>	
kern	Kerning
liga	Ligatures
onum	Oldstyle numbers
frac	Diagonal fractions
<i>The maths font, supports additional features</i>	
ss01	Mathematical Calligraphic Alphabet
ss02	Mathematical Greek Sans Serif Alphabet
ss03	Mathematical Italic Sans Serif Digits
ss04	Mathematical Bold Monospace Digits
ss05	Mathematical Bold Double-Struck Alphabet
ss06	Mathematical Italic Double-Struck Alphabet
ss07	Mathematical Bold Italic Double-Struck Alphabet
ss08	Upright Integrals

¹ Only on Microsoft Windows, versions of Microsoft Office on Mac OS X does not support OpenType features needed for mathematics.

3 Installation

3.1 ConT_EXt

ConT_EXt MkIV are needed for using the math font, text fonts can be used with either MkIV or MkII with X_YT_EX engine, MkII with pdfT_EX is not supported.

Recent versions of ConT_EXt already have typescripts for XITS, so just installing the fonts into TEXMF tree is enough.

3.2 L^AT_EX

A modern T_EX engine with Unicode and OpenType support is needed, namely LuaT_EX or X_YT_EX. In addition to fontspec package, unicode-math is needed for using XITS fonts in math mode.

If you are using LuaT_EX then you can either install the fonts OS wide or in TEXMF tree. If you are using X_YT_EX then you need to either install fonts OS wide, or adapt your fontconfig configuration to look for fonts installed under TEXMF tree, otherwise you will not be able to access fonts by font name.

3.3 MS Office

MS Office 2007 or newer is required, the fonts can be installed the regular way.

4 Usage

4.1 L^AT_EX

4.1.1 Examples

```
\documentclass{article}
\usepackage{unicode-math}
\setmainfont{XITS}
\setmathfont{XITS Math}

\begin{document}
Text  $x+y=\sqrt{z}$ 
```

```
\end{document}
```

4.2 ConT_EXt

4.2.1 Examples

```
\setupbodyfont[xits]
```

```
\starttext
```

Text $x+y=\sqrt{z}$

```
\stoptext
```