Typeset by X-JT-X and Beamer with font Optima

Introduction to

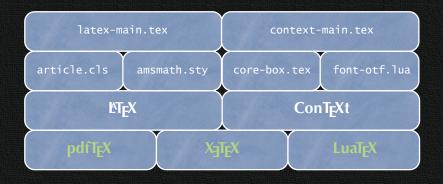


Lecture Two

Background from **Darkroom** in iWeb with color **Lime**

조진환 (수원대학교 수학과)

엔진, 포맷, 매크로, 그리고... 텍의 계층도 (복습)



What is XTEX? TUGboat Volume 26 (2005), No. 2

- ▼ X₁TεX은 유니코드(Unicode/ISO 10646)를 지원하는 ε-TεX의 확장판이다.
- ◀ XgTeX은 Mac OS X 운영체제에 들어 있는 유니코드 텍스트 렌더링 엔진, ATSUI(Apple Type Services for Unicode Imaging)를 이용했다. (ATSUI는 Mac OS X 10.5(Leopard)에서 Core Text 엔진으로 대체)
- ◄ X_{JTE}X은 Linux 또는 윈도우 운영체제에서 폰트 정보를 추출하기 위해 FreeType2 라이브러리를 이용한다. (대신 대부분의 폰트 처리는 dvipdfmx 엔진을 이용한다.)
- ◀ 이외에도 여러 가지 기능들이 계속 추가되고 있는 중이다...

Jonathan Kew²⁰⁰⁵ 서로 및 TeXworks 제작자

- Growing up, I was always the small, quiet kid, more likely to be found in my room with a book than out with a crowd. (Those who know me will realize that this hasn't changed too much over the years!) (from TEX people—Interviews from the world of TEX)
- ▼ 현재 Mozilla Corporation (재택) 근무
- ▼ X∃TEX, http://scripts.sil.org/xetex
- ▼ TEXworks, http://tug.org/texworks/
 lowering the entry barrier to the TEX world
- ◆ T_EX as an ebook reader (T_EX on iPhone)
 with Kaveh Bazargan, CEO of River Valley Tech.



http://river-valley.tv/tex-as-an-ebook-reader/

Components of X-TEX xetex --version

XeTeX 3.1415926-2.2-0.9995.2 (TeX Live 2009) kpathsea version 5.0.0 Copyright 2009 SIL International and Jonathan Kew. There is NO warranty. Redistribution of this software is covered by the terms of both the XeTeX copyright and the Lesser GNU General Public License. For more information about these matters, see the file named COPYING and the XeTeX source. Primary author of XeTeX: Jonathan Kew. Compiled with ICU version 3.8.1 [with modifications for XeTeX] Compiled with zlib version 1.2.3; using 1.2.3 Compiled with FreeType2 version 2.3.9: using 2.3.9

Using Mac OS X Carbon, Cocoa & QuickTime frameworks

(Mac OS X)

Compiled with fontconfig version 2.3.1; using 2.8.0 Compiled with libpng version 1.2.39; using 1.2.39 Compiled with xpdf version 3.02pl3

(Linux/MS-Windows)

Landscape 서도 다른 엔진들을 어떻게 바라보나?

▼ The pdfTfX/LuaTfX team is taking quite a different approach to some issues, and so it's unclear whether there will come a time when merging the projects makes sense. But I am of course happy to share ideas (and code), and hope that wherever possible we can provide features in ways that make it easy for macro writers and users to work with either system. If LuaTFX proves successful and popular, and develops to the point where it offers users all the same capabilities as X₇T_FX (even if the underlying implementation is quite different), I'll be delighted, and may no longer feel a need to continue working on XeTeX. But for the time being, at least, I think the two projects each need the freedom and flexibility to explore their own ideas, and users are of course free to work with whichever serves their needs best. (from TFX people—Interviews from the world of T_FX)

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Simple Example of X₃T_EX Document

```
\documentclass{article}
\usepackage{ifxetex}
\begin{document}
We are using \ifxetex XeTeX\else pdfTeX\fi\ engine.
\end{document}
xelatex simple
This is XeTeX. Version 3.1415926-2.2-0.9995.2 (TeX Live 2009)
entering extended mode
Output written on simple.pdf (1 page).
Transcript written on simple.log.
xelatex -no-pdf simple: xdvipdfmx simple
Output written on simple.xdv (1 page, 272 bytes).
Transcript written on simple.log.
simple.xdv -> simple.pdf
[1]
3412 bytes written
```

simple.tex

dvipdfmx & xdvipdfmx 하나되는 그날을 위해...

dvipdfmx --version

This is dvipdfmx-20090708 by the DVIPDFMx project team, an extended version of dvipdfm-0.13.2c developed by Mark A. Wicks.

Copyright (C) 2002-2009 by the DVIPDFMx project team

xdvipdfmx --version

This is xdvipdfmx-0.7.8 by Jonathan Kew and Jin-Hwan Cho, an extended version of DVIPDFMx, which in turn was an extended version of dvipdfm-0.13.2c developed by Mark A. Wicks.

Copyright (c) 2006-2008 SIL International and Jin-Hwan Cho.

Font? Font??? 확장된 \font 명령

▼ T_FX (8-bit)

\font\myfont=ptmr7t at 24pt \myfont Times Roman \bye

- (URW) Nimbus Roman No9 L Regular (utmr8a.pfb)
- ◀ X¬T¬FX (Unicode)

\font\myfont="Times New Roman" at 24pt \myfont Times New Roman \bye

- TimesNewRomanPSMT
- Mac OS X: /Library/Fonts/Times New Roman.ttf
- MS-Windows: C:\Windows\Fonts\times.ttf

 $\mbox{font-myfont="[lmroman10-regular]" at 24pt \myfont LM Roman \bye}$

- LMRoman10-Regular (1mroman10-regular.otf)
- Search TDS (T_EX Directory Structure)

XzkTeX in a Nutshell ifxetex माराय

- ◀ 현재 텍 엔진이 XJTEX이 아니면 \RequirexeTex 명령에서 멈춤 \usepackage{ifxetex} \RequirexeTeX
- 현재 텍 엔진이 XJTEX인 경우와 아닌 경우로 나누어 각각 실행 \usepackage{ifxetex}
 We are using \ifxetex XeTeX\else pdfTeX\fi\ engine.

XgETEX in a Nutshell 그냥 한글 및 일본어 쓰기

locale.tex

- 1 \XeTeXlinebreaklocale "ko"
- 2 \font\myfont="NanumMyeongjo" at 24pt
- 3 \myfont 한글 텍 없이도 한글을 쓸 수 있다. 한글 텍 없이도 한글을 쓸 수 있다.
- 4 \par\bigskip
- 5 \XeTeXlinebreaklocale "ja"
- 6 \font\myfont="Hiragino Mincho Pro-W3" at 24pt
- フ \myfont 日本語ウェブページコンテスト 日本語ウェブページコンテスト
- 8 \bye

한글 텍 없이도 한글을 쓸 수 있다. 한글 텍 없이도 한글을 쓸 수 있다.

日本語ウェブページコンテスト 日本語ウェブ ページコンテスト

XzeteX in a Nutshell 라틴 및 한글 폰트 설정

 ● 현재 이 문서의 라틴 폰트 설정은 다음과 같다. \usepackage{fontspec,xunicode,xltxtra} \setmainfont[Mapping=tex-text]{Palatino} \setsansfont[Mapping=tex-text]{Optima} \setmonofont[Scale=.9]{LucidaConsole}

● 현재 이 문서의 한글 폰트 설정은 다음과 같다.
 \usepackage{xetexko}
 \setmainhangulfont[Mapping=tex-text]{NanumMyeongjo}
 \setsanshangulfont[Mapping=tex-text]{NanumGothic}
 \setmonohangulfont[Scale=0.95]{NanumGothic}

fontspec, xunicode, xltxtra স্থান 3ৰূপা

- ◀ fontspec.sty written by Will Robertson
 - provides a high-level interface to native Unicode fonts in X₃T_EX,
 integrating them with the Lagrangian formula supporting a wide range of features in both AAT and OpenType fonts.
- xunicode.sty written by Ross Moore
 - provides access to latin accents and many other characters in the Unicode lower plane.
- ◀ xltxtra.sty written by Will Robertson
 - implements some odds-and-ends features and improved functionality for broken or sub-standard LTEX methods when using the XJTEX format.

Toward X-TFX-ko... 현존하는 최고의 한글 텍 매크로

- ▲ 2009년 6월 한국텍학회 집행부 워크숍를 마치고 결심을 한다... 텍 엔진을 pdfT_FX에서 X_TT_FX으로 바꾸기로.
- ◀ 먼저 기존의 강의 노트, 시험지, 퀴즈 등의 클래스 파일들을 X₁TӻX 용으로 바꾸며 경험을 쌓는다.
- 2009년 7월 TUG 2009 발표자료를 X₁T₂X으로 작업한다.
- Asian Journal of T_FX, Volume 3 편집을 X₇T_FX-ko를 이용하기로 결정한다... 마침내 그 결과가 공개된다.

(http://ajt.ktug.kr/2009/volume3.html)

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Character Classes 서다.ko를 가능하게 한 바로 그것

- \documentclass{article}
- 2 \usepackage{color}
- 3 \XeTeXinterchartokenstate = 1
- 4 \newXeTeXintercharclass \mycharclassa
- 5 \newXeTeXintercharclass \mycharclassA
- 6 \newXeTeXintercharclass \mycharclassB
- 7 \XeTeXcharclass \\a \mycharclassa
- 8 \XeTeXcharclass \A \mycharclassA
- XeTeXcharclass `\B \mycharclassB
- % between "a" and "A":
- \XeTeXinterchartoks \mycharclassa \mycharclassA = {[\itshape}
- 12 \XeTeXinterchartoks \mycharclassA \mycharclassa = {\upshape]}
- 13 % between " " and "B":
- 14 \XeTeXinterchartoks 255 \mycharclassB = {\bgroup\color{blue}}
- 15 \XeTeXinterchartoks \mycharclassB 255 = {\egroup}
- 16 % between "B" and "B":
- 17 \XeTeXinterchartoks \mycharclassB \mycharclassB = {.}
- 18 \begin{document}
- 19 aAa A a B aBa BB
- 20 \end{document}

a[A]a A a B aBa B.B