

TeX Online

Hiroshi Suzuki (鈴木寛)

International Christian University

April 8, 2016

Table of Contents

- 1 What is T_EX?
- 2 T_EX Online?
- 3 Online T_EX Sites
- 4 Let's Try T_EX Online!
- 5 日本語 Template

T_EX, L^AT_EX

T_EXは数学者・計算機科学者であるドナルド・クヌース (Donald E. Knuth) により1978年にリリースされた組版処理ソフトウェア。

T_EX is a typesetting system that is designed with two main goals in mind: to allow anybody to produce high-quality books using a reasonably minimal amount of effort, and to provide a system that would give exactly the same results on all computers, now and in the future.

T_EX, L^AT_EX

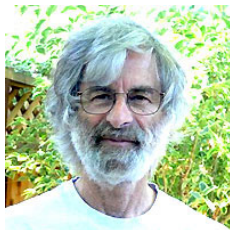
T_EXは数学者・計算機科学者であるドナルド・クヌース (Donald E. Knuth) により1978年にリリースされた組版処理ソフトウェア。

T_EX is a typesetting system that is designed with two main goals in mind: to allow anybody to produce high-quality books using a reasonably minimal amount of effort, and to provide a system that would give exactly the same results on all computers, now and in the future.

L^AT_EX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation.

L^AT_EX is based on Donald E. Knuth's T_EX typesetting language or certain extensions. L^AT_EX was first developed in 1985 by Leslie Lamport, and is now being maintained and developed by the L^AT_EX3 Project

D. Knuth, L. Lamport and R. Stallman



- D. Knuth: T_EX, METAFONT, macro, written in WEB which is based on *literate programming*, a way of producing compilable source code and cross-linked documentation typeset in T_EX from the same original file. Created in 1978, current version 3.14159265.
- L. Lamport: L^AT_EX
- R. Stallman: Emacs, Free Software, GNU, GPL

Why T_EX Online?

You can install T_EX and L^AT_EX in your computer.
Then why?

- 1 Installation is not easy and takes time.
TeXLive 2015 (Size 4GB) + Updates
- 2 Need to maintain, and still deveping.
- 3 Need to carry your computer.

Why T_EX Online?

You can install T_EX and L^AT_EX in your computer.
Then why?

- 1 Installation is not easy and takes time.
TeXLive 2015 (Size 4GB) + Updates
- 2 Need to maintain, and still deveping.
- 3 Need to carry your computer.

Solution

Enjoy Cloud Computing!

Japanese? 日本語も使えますか?

Yes!

But

Compile Engine によっと多少注意が必要ですが、ほぼ問題ないと思います。多言語使用については、まだ完全には理解できていません。力不足でゴメンナサイ。

Let's Try T_EX Online

T_EX を使ってみよう

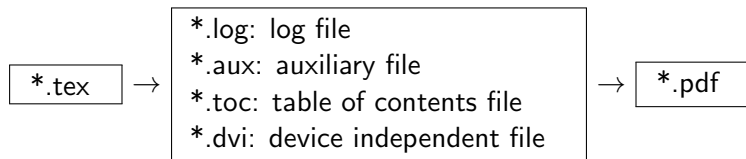
- JaxEdit: Online LaTeX editor with instant preview.
- <http://jaxedit.com/note/>
- Just try.

Let's Try T_EX Online

T_EX を使ってみよう

- JaxEdit: Online LaTeX editor with instant preview.
- <http://jaxedit.com/note/>
- Just try.

T_EX Engine



LaTeX + dvipdf, pdfLaTeX, XeLaTeX, LuaLaTeX

Online T_EX Sites

- ① Cloud LaTeX
 - URL <https://cloudlatex.io/ja>
 - 日本語 LaTeX が default で、かつ compile engine が選択できる。
- ② OverLeaf
 - URL <https://www.overleaf.com>
 - Many templates
 - Changed the name from writeLaTeX
- ③ ShareLaTeX
 - URL <https://ja.sharelatex.com>
 - Many templates
 - You can change engine
- ④ Cloud Sage (SMC)
 - URL <http://cloud.sagemath.org>
 - You can do almost anything.

Let's Try!

- Templates are online.
- Levels of using Japanese using English engine (pdfLaTeX, etc.) in OverLeaf, ShareLaTeX, SageMath
 - ① Japanese or mixed docuemnt 日本語のまたは日本語を含む文書
e.g. English (Senior) Thesis with mixed title page and Japanese summary.
 - ② Document using Japanese stylefile
目次などを日本語で生成するスタイルファイルを使う場合
e.g. Japanese (Senior) Thesis with mixed English title page and English summary

Use LuaLaTeX and replace the first line by

```
\documentclass[a4paper, 12pt, report]{ltjsbook}
% ltjsaticle for short paper
\usepackage[ipa]{luatexja-preset}
```

日本語 Template

```
\documentclass[a4paper,12pt]{article}
%\usepackage[whole]{bxcjkjatype} % 英語エンジンのときは、% を
消して下さい。
\usepackage{amsmath, amssymb} % package for various math symbols
\usepackage{graphicx} % packages for including graphics
\begin{document}
\title{タイトル}
\author{なまえ}
\maketitle
\section{はじめに}
これは、サンプルです。日本語を含む文章を簡単に書くための
template と考えて下さい。この部分に文章を書きます。
\end{document}
```