A (Not So?) Short Introduction to LaTeX

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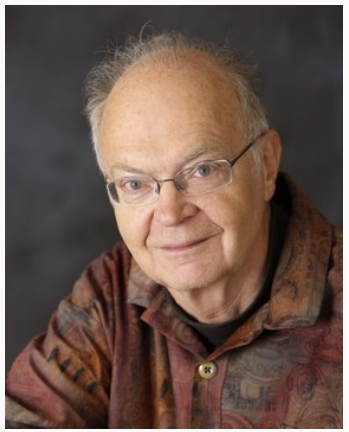
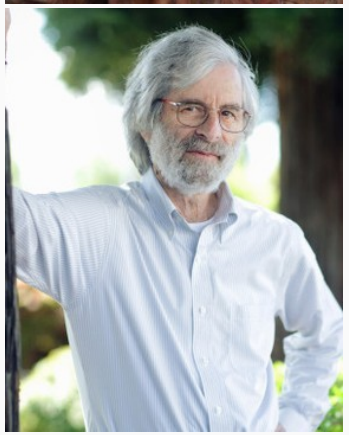
About Me

- PhD student, Texas A&M University
- GNU/Linux user since 2009
- LaTeX user since 2010
- Author the `beamerthemetamu` LaTeX package

TEX and LATEX

- TEX: $\tau\varepsilon\chi$ (/'tɛx/, /'tɛk/)
  - A typesetting system for beautiful books
  - Originally developed by Donald E. Knuth in 1978
  - Latest release: 3.14159265 in Jan 2014
  - Free software
- LATEX (/'la:tɛx/, /'leɪtɛk/)
  - Originally developed by Leslie Lamport
  - Based on TEX, with higher level abstraction
  - Extensive packages as addons
  - Widely adopted in academia, e.g. journal, conference, thesis, etc.





Why LaTeX (and why not)?

Pros

- Users focus on contents
- Beautiful outputs, especially math
- Versatile: letter, manual, slides, chess, etc.
- Stable core

Cons perhaps…

- Not WYSIWYG
- Not easy to be TeXpert

Showcase: Math

Single Equation

$$\mathcal{F}(\xi) = \int_{-\infty}^{\infty} f(x) \mathrm{e}^{-\mathrm{j}2\pi\xi x} \mathrm{d}x$$

Multiple Equations

$$y = d \qquad z = 1 \tag{1}$$

$$y = cx + d \qquad z = x + 1 \tag{2}$$

$$y_{12} = bx^2 + cx + d \qquad z = x^2 + x + 1$$

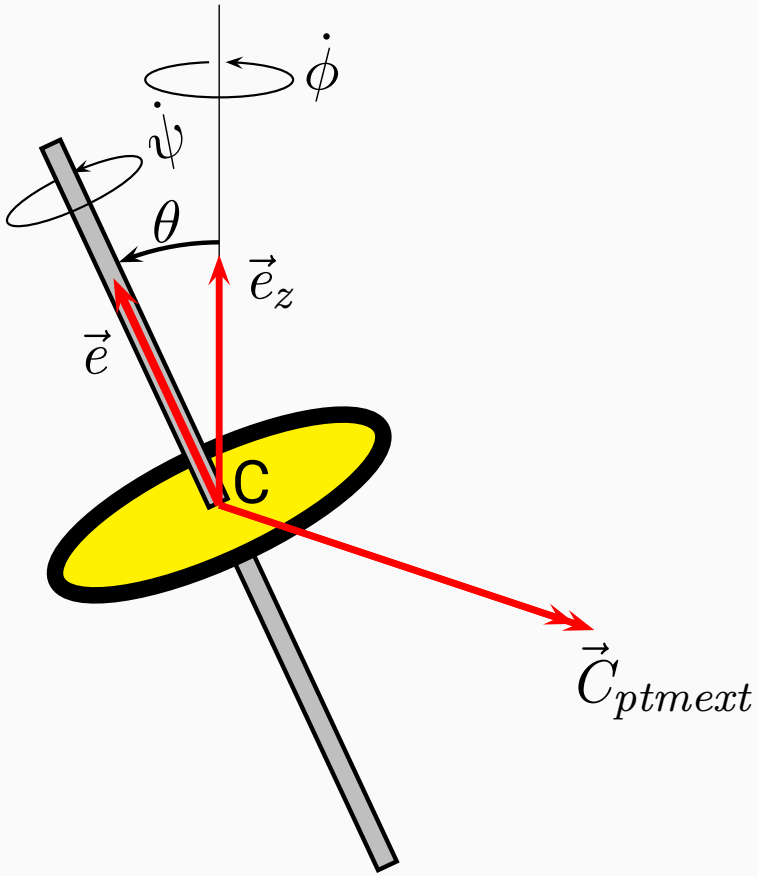
$$y(x) = ax^3 + bx^2 + cx + d \qquad z = x^3 + x^2 + x + 1 \tag{3}$$

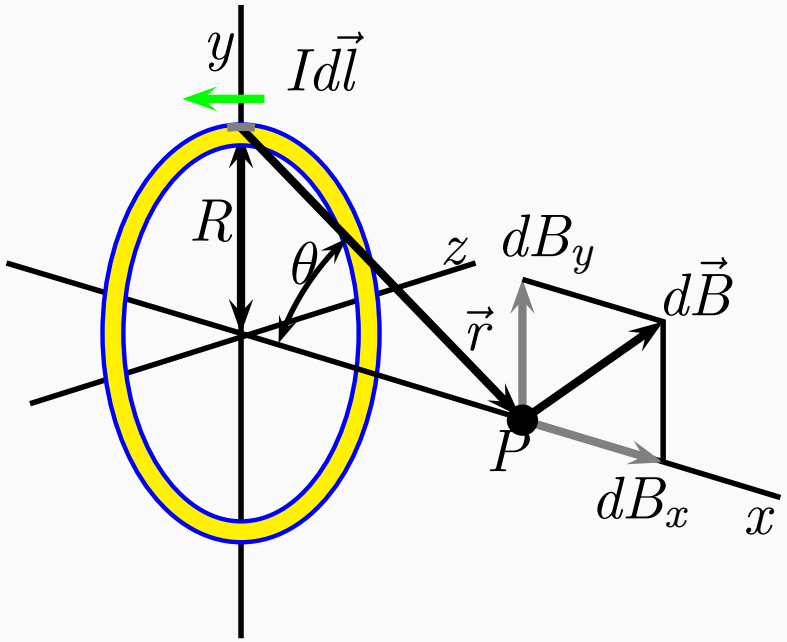
Showcase: More Math Equations

Extremely Long Equations

$$
\begin{aligned}
A = \lim_{n\to\infty} \Delta x \Big(& a^2 + \left(a^2 + 2a\Delta x + (\Delta x)^2\right) \\
& + \left(a^2 + 2\cdot 2a\Delta x + 2^2 (\Delta x)^2\right) \\
& + \left(a^2 + 2\cdot 3a\Delta x + 3^2 (\Delta x)^2\right) \\
& + \dots \\
& + \left(a^2 + 2\cdot (n-1)a\Delta x + (n-1)^2 (\Delta x)^2\right)\Big) \\
& = \frac{1}{3}\left(b^3 - a^3\right) \qquad (4)
\end{aligned}
$$

Showcase: Graphics





Showcase: Documents

potential to have context sources or sensors (and sensor networks) in the vicinity of a mobile user sold as services to the mobile user, to support context-aware applications. However, challenges are present in order to "elastically" on-demand form clouds of services and resources efficiently, seamlessly and in a robust manner.

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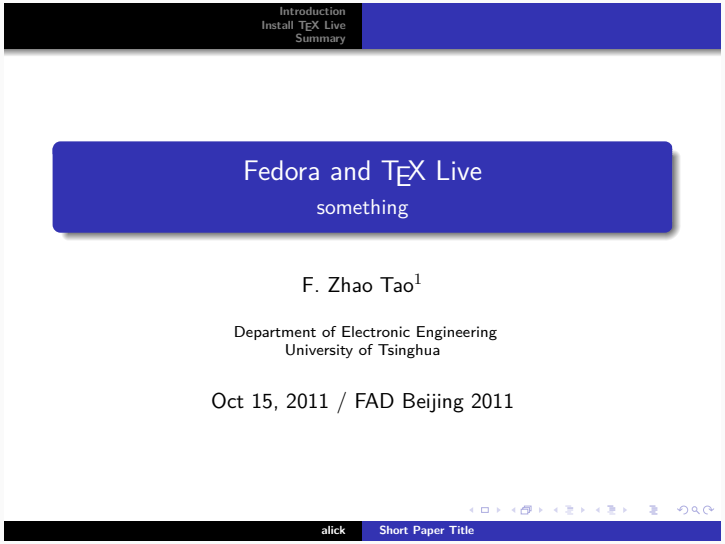
Showcase: Slides



How to install LaTeX?

- TeX distro: a comprehensive collection of TeX utils
- TeX Live
  - Developed since 1996 by the TeX Users Group (TUG)
  - Originally for GNU/Linux, now cross-platform
  - Portable installation on USB
  - Yearly release: latest TeX Live 2017

How to install TeX Live?

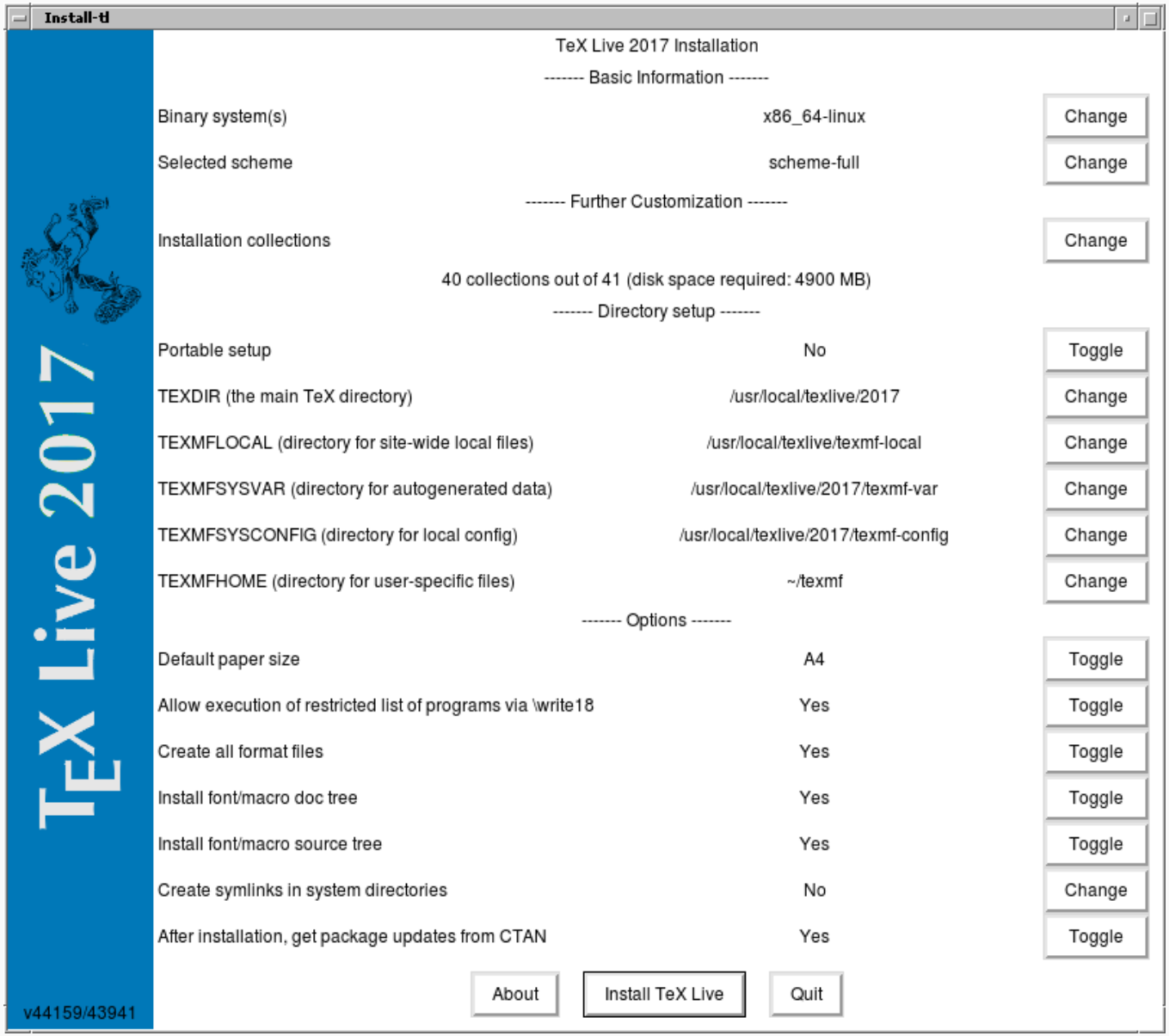
- OS distro
  - `sudo dnf install texlive`
- TeX Users Group (TUG)
  - $ Be a TUG member and get TeX Live on DVD
  - ☹ Download the huge DVD iso
  - ☺ Net install

Install TeX Live

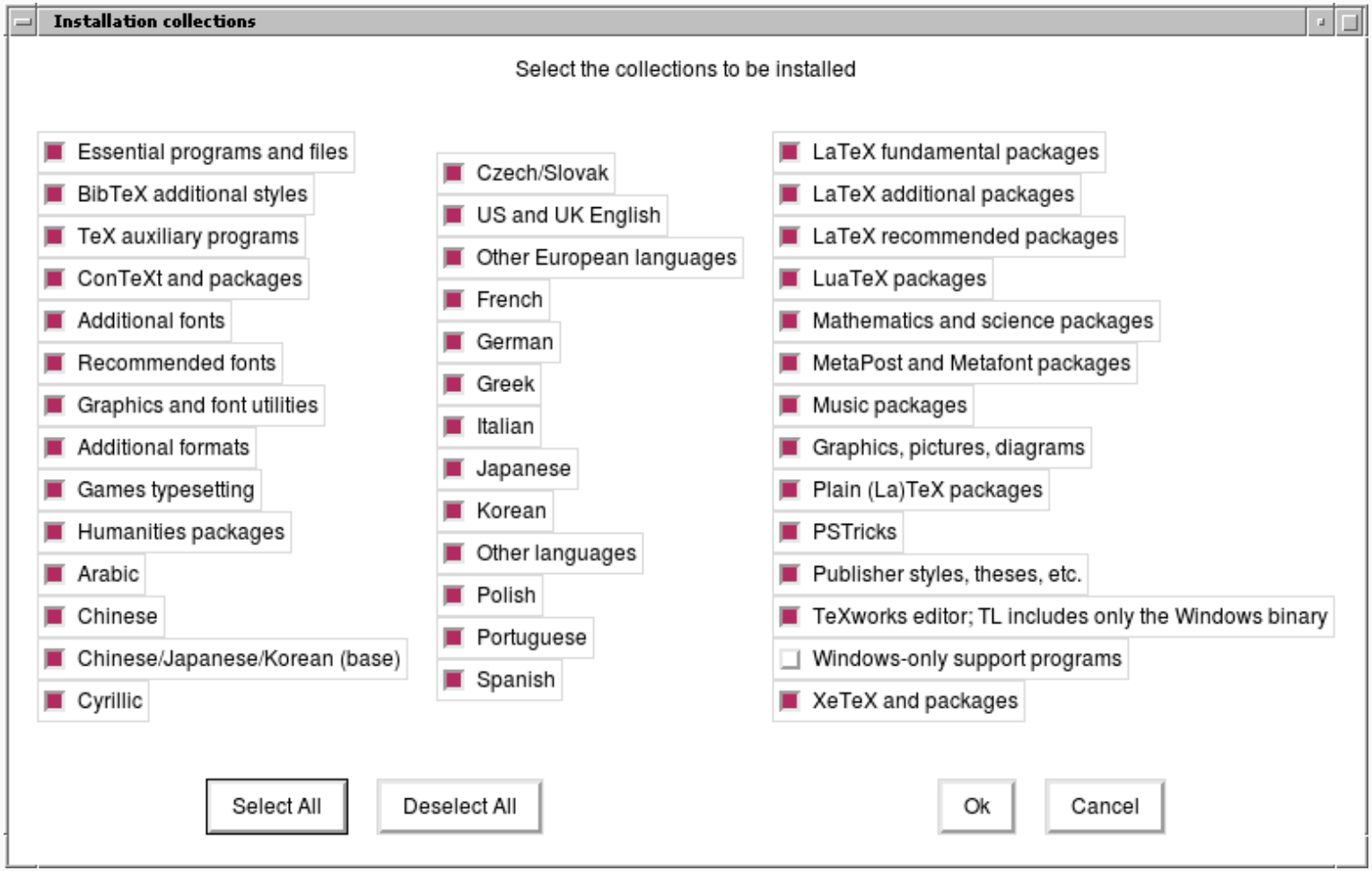
- Navigate to `https://tug.org/texlive`
- Follow the “download” link
- GNU/Linux: `install-tl-unx.tar.gz{,.sha256}`
- Verify the archive

```
$ LANG=C sha256sum --check install-tl-unx.
    tar.gz.sha256
install-tl-unx.tar.gz: OK
```

- GUI: `sudo dnf install perl-Tk`



/usr/local vs. $HOME?


Installation collections
Select the collections to be installed
Essential programs and files
BibTeX additional styles
TeX auxiliary programs
ConTeXt and packages
Additional fonts
Recommended fonts
Graphics and font utilities
Additional formats
Games typesetting
Humanities packages
Arabic
Chinese
Chinese/Japanese/Korean (base)
Cyrillic
Czech/Slovak
US and UK English
Other European languages
French
German
Greek
Italian
Japanese
Korean
Other languages
Polish
Portuguese
Spanish
LaTeX fundamental packages
LaTeX additional packages
LaTeX recommended packages
LuaTeX packages
Mathematics and science packages
MetaPost and Metafont packages
Music packages
Graphics, pictures, diagrams
Plain (La)TeX packages
PSTricks
Publisher styles, theses, etc.
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Windows-only support programs
XeTeX and packages
Select All
Deselect All
Ok
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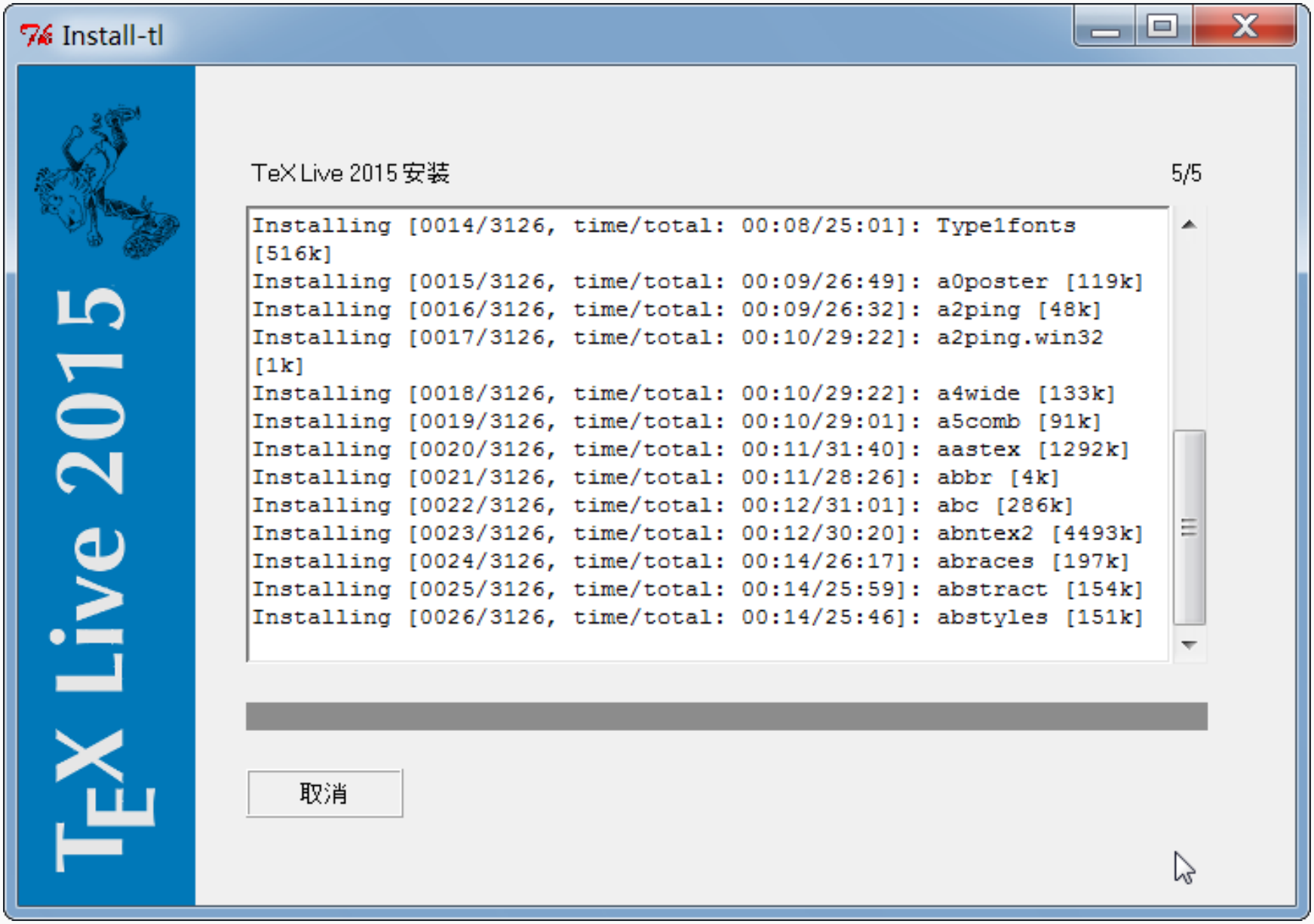
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TeX Live 2015
TeX Live 2015 安装
5/5
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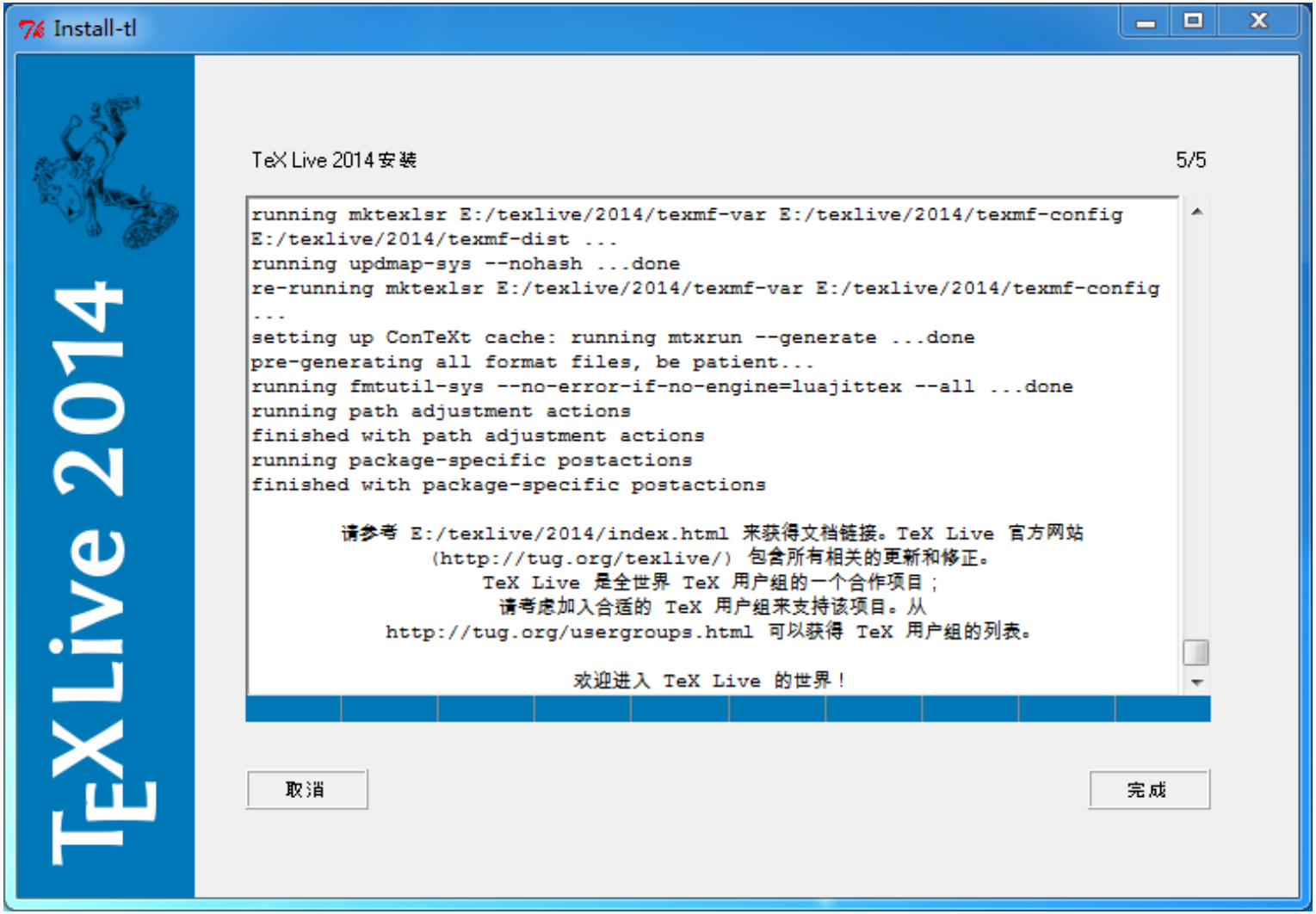
Install-tl
TeX Live 2014
TeX Live 2014安装
5/5
running mktexlsr E:/texlive/2014/texmf-var E:/texlive/2014/texmf-config
E:/texlive/2014/texmf-dist ...
running updmap-sys --nohash ...done
re-running mktexlsr E:/texlive/2014/texmf-var E:/texlive/2014/texmf-config
...
setting up ConTeXt cache: running mtxrun --generate ...done
pre-generating all format files, be patient...
running fmtutil-sys --no-error-if-no-engine=luajittex --all ...done
running path adjustment actions
finished with path adjustment actions
running package-specific postactions
finished with package-specific postactions
请参考 E:/texlive/2014/index.html 来获得文档链接。TeX Live 官方网站
(http://tug.org/texlive/) 包含所有相关的更新和修正。
TeX Live 是全世界 TeX 用户组的一个合作项目；
请考虑加入合适的 TeX 用户组来支持该项目。从
http://tug.org/usergroups.html 可以获得 TeX 用户组的列表。
欢迎进入 TeX Live 的世界！
取消
完成

Post Installation Configurations

- Suppose TEXDIR is set to `~/texlive/2017`
- Symlink `~/texlive/current` to `~/texlive/2017`
- Add the following lines into your `~/.bash_profile`:

```
export PATH=$HOME/texlive/current/bin/x86_64
   -linux:$PATH
export MANPATH=$HOME/texlive/current/texmf/
   doc/man:$MANPATH
export INFOPATH=$HOME/texlive/current/texmf/
   doc/info:$INFOPATH
```

- Try `texdoc texlive`

Post Installation Tests

Use installed sample files:

- `latex sample2e.tex #` .tex $\rightarrow$ .dvi (device independent)
  `xdvi sample2e.dvi #` also try dvipdf sample2e.dvi
- try `pdflatex sample2e` directly

Sample TEX File

```
\documentclass{article} % or letter, etc.
% Start of preamble.
\usepackage{graphicx} % for graph support
\graphicspath{{fig/}} % set graphics directory
% End of preamble.
\begin{document}
Here are the main contents.
\end{document}
```

LaTeX Commands or macros, control sequences

- Simple commands
  - `\cmd` `\LaTeX` ⇒ LaTeX
  - `\cmd[optional]{mandatory}`
    `\section[Short Title]{An Extremely Long Section Title}`
    ⇒ **Section 1. An Extremely Long Section Title**
- Environments

```
\begin{equation*}
  a^2-b^2=(a+b)(a-b)
\end{equation*}
```

$$a^2 - b^2 = (a + b)(a - b)$$

Common LaTeX Commands

Simple Commands

`\chapter`	`\section`	`\subsection`	`\paragraph`
`\centering`	`\emph`	`\verb`	`\url`
`\footnote`	`\item`	`\caption`	`\includegraphics`
`\label`	`\cite`	`\ref`	

Environments

`table`	`figure`	`equation`
`itemize`	`enumerate`	`description`

Document Structure

```
\tableofcontents
\part{Supervised Learning}
\chapter{SVM}
\section{Introduction}
\subsection{History}
\subsubsection{Birth}
```

Contents

Part I Supervised Learning
Chapter 1 SVM
1. Introduction
1.1 History
1.1.1 Birth

List Examples

```
\begin{itemize}
  \item foo
  \item bar
  \item baz
\end{itemize}
```

- foo
- bar
- baz

```
\begin{enumerate}
  \item foo
  \item bar
  \item baz
\end{enumerate}
```

1. foo
2. bar
3. baz

More Lists

```
\begin{enumerate}
\item Why \LaTeX{}?
  \begin{description}
    \item[Useful] Useful to
        prepare documents
    \item[Beautiful] Beautiful
         output
    \item[Free] Free as in
        freedom
  \end{description}
\item What else?
  \begin{itemize}
    \item Another point
    \item One more point
  \end{itemize}
\end{enumerate}
```

1. Why LaTeX?

   Useful Useful to prepare documents

   Beautiful Beautiful output

   Free Free as in freedom

2. What else?
   - Another point
   - One more point

Cross References

- Label the figure, table, section, etc. with `\label{name}`
- Refer to the label with `\ref{name}`

```
Figure~\ref{fig:logo} ...
\begin{figure}[htbp]
  \centering
  \includegraphics%
  [height=.2\textheight]%
  {lp-logo-in-square}
  \caption{Logo.}
  \label{fig:logo}
\end{figure}
```

Figure 1 ...

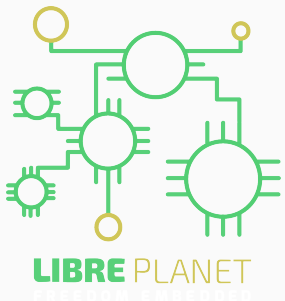

Figure 1: Logo.

Floating Bodies

- Figures/tables float to avoid bad typesetting.
- Use cross references, e.g.
  `Fig.~\ref{fig:logo}`
- `\begin{figure}[placement]`
  - placement: locations where float is allowed
  - `h` (here), `t` (top), `b` (bottom), `p` (page)

Common Errors

- `! Undefined control sequence.`
  - Typo
  - Misremember the command
  - Forgot to `\usepackage{...}`
- Unmatched braces, environments
- `Unknown graphics extension ...`
  - Use EPS figure with pdfTeX without `\usepackage{epstopdf}`
- `... graphic ... (no BoundingBox).`
  - Bad EPS figure generated by some tools
- `!TeX capacity exceeded, sorry [...].`
  - Recursive macro definition
  - Tune memory setting

Tips

- Focus on the content, not the layout
  - Use well-designed document classes
  - Packages: `siunitx`, `listings`
  - Structure: `\section`, `\subsection`, etc.
  - Semantic: `\emph`, `\label`
- Word counting: `texcount report.tex`
- Big projects: `\input`, `\include`, `latexmk`, Git
- Which TeX Editor? (Vim, Emacs, TeXworks, LyX, etc.)
- Use `texdoc`

TeX Live Tools

- texdoc
  - e.g. `texdoc texlive`, `texdoc symbols`
  - GUI: `texdoctk`
  - Web: `texdoc.net`
- tlmgr
  - `tlmgr update --all`
  - `tlmgr install pkg`
  - `tlmgr option`
  - `tlmgr gui`

Converting to LaTeX

- LibreOffice: Export to LaTeX
- Pandoc: LaTeX $\leftrightarrow$ odt, md, html etc.

Dive Deep

- WikiBooks: `https://en.wikibooks.org/wiki/LaTeX`
- *The Not So Short Introduction to LaTeX 2$_\varepsilon$* (`texdoc lshort`)
- *The TeXbook*

TeX Jargons

- Core: low-level macro language
- Formats: Plain TeX, LaTeX, ConTeXt
- Engines: tex, latex, pdf(la)tex, xe(la)tex, lua(la)tex
- Distros: TeX Live, MacTeX

TEX Community

- Where to ask?
  - QA: TeX StackExchange
  - Forum:
    `https://latex.org/forum/`
  - Mailing list: TEX Live
  - Google
- How to ask?
  - Describe your environment, setup
  - Minimal Working Example (MWE)

About the Slides

- Slides: `https://pagure.io/textalk`
- Based on:
  - `https://github.com/alick/fad-texlive-talk`
  - `https://github.com/tuna/thulib-latex-talk`
  - `https://github.com/alick/latex-tips`
- License: CC BY-SA 4.0 Unported 

Figure Sources

- Photos of Donald Knuth and Leslie Lamport: TUNA slides
- Graphics showcase, slides showcase left: ThuThesis User Guide
- Heart shape: TeX StackExchange
- Installation: first two from *The TEX Live Guide — 2017*, 2015 one from TUNA slides, 2014 one from myself
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- Keep Calm: Copyright (c) KeepCalmAndPosters.com
- TEX Friendly Zone: TUG

Thank you!