Programming \LaTeX —
A survey of documentation and packages

Brian Dunn
Github: \url{https://github.com/bdtc/docsurvey}
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March 23, 2024

Abstract
A survey of documentation for \LaTeX. Included are references to printed and electronic books and manuals, symbol lists, \textsc{faqs}, the \LaTeX source code, CTAN and distributions, programming-related packages, users groups and online communities, and information on creating packages and documentation.

Contents

Introduction 3
Printed books 3

Books and documentation by category 5
\TeX 5
\LATEX 7
Lua\LaTeX 9
Xe\LaTeX 10
\LaTeX3 and expl3 10
Lua 11
Bibliography 11
Math 11
Page headings 12
Tables 12
Graphics 12
Music 13
Presentations 13
Fonts 14
\textsc{faqs}, symbol references, cheat sheets 15
Source code 17
International languages 17
Multiple languages 17
Brazilian Portuguese 18
Bulgarian 18
Catalan 18
Chinese 18
Czech 20
Dutch 20
Estonian 20

∗This work may be distributed and/or modified under the conditions of the \LaTeX Project Public License, either version 1.3 of this license or (at your option) any later version. The latest version of this license is in \url{http://www.latex-project.org/lppl.txt} and version 1.3 or later is part of all distributions of \LaTeX version 2005/12/01 or later.
Introduction

Reinventing the wheel may be useful if you think that you can do it better. Worse, though, is not even being aware that the wheel has already been invented in the first place, which can be an embarrassing waste of time. Such can be the case both for a new \LaTeX{} programmer who isn't aware of the many ways things may be done, but also for someone, this author included, who learned \LaTeX{} many years ago but may have missed some of the recent advancements in package code and documentation.

A wealth of information is available, not only in print and online, but also directly embedded in the typical \LaTeX{} distribution. The following is meant to be a broad overview of some of today's resources for \LaTeX{} programmers.

In some cases the same document may be listed in several categories. For example, a graphics FAQ also available in French may be listed under graphics, FAQs, and also French documents.

Many older documents are not included.

(The latest version of this document is available as the \LaTeX{} docsurvey package.)

Printed books

Even in an electronic/online era, printed books still have the advantage of being able to be opened for reference without taking up space on the screen. Printed books also provide extended discussion of useful topics, have extensive human-edited indexes which are more useful than a simple document-wide search function, and some are also available in electronic format.

\TeX{} FAQ

\TeX{} FAQ. URL: https://texfaq.org/.

An online resource, which includes a detailed list of printed books.

More Math Into \LaTeX{} \hfill Grätzer


Updated edition.

Programming in Lua \hfill Ierusalimschy


A detailed and authoritative introduction to all aspects of Lua programming written by Lua's chief architect. Recent edition, available as book or ebook.

Guide to \LaTeX{} \hfill Kopka et al.


An introduction and more advanced material, including an extensive reference guide.
\LaTeX\ Beginner's Guide  
An overview with numerous examples.

\LaTeX\ Cookbook  
More examples.

\LaTeX: A Document Preparation System  
The classic introduction to \LaTeX, in continuous reprint for decades.

The \LaTeX\ Companion, 3rd Edition  
Provides extended discussion and examples of the inner workings of \LaTeX\ and hundreds of useful packages.

Books about \TeX, typography, and friends  
\TeX\ Users Group. \textit{Books about \TeX, typography, and friends}. URL: \url{http://tug.org/books/}.
\TeX\ Users Group book store, with reviews. Includes more than 75 books. Categories: published by TUG, by Donald E. Knuth, about \TeX\ and its applications, about typography and fonts, and about other related topics. Discounts for TUG members.

Presentations with \LaTeX  

PSTricks: Graphics and PostScript for \TeX\ and \LaTeX  
Books and documentation by category

Most of these are provided with the \TeX{} distribution, and may be updated with each release. Access the embedded documentation from a command line using the `texdoc` program.

**\TeX{}**

For a list of older books, see [https://www.texfaq.org/FAQ-tex-books](https://www.texfaq.org/FAQ-tex-books).

**\TeX{} for the Impatient**  

A tutorial and reference for \TeX{}, plain \TeX{}, and Eplain. Also available in French and Chinese.  
(texdoc impatient).

**A Gentle Introduction to \TeX{}**  

A comprehensive tutorial on plain \TeX{}.  
(texdoc gentle).

**\TeX{} by Topic**  

A reference for \TeX{}. This may be useful for understanding the source code of \LaTeX{} packages, many of which are quite old and written in low-level \TeX{}.  
(texdoc texbytopic).

**\TeX{} in a Nutshell**  

The basics of plain \TeX{}.  
(texdoc tex-nutshell).

**Wikibooks**

An online book about low-level \TeX.

**Getting Started with Plain \TeX**

Programming \LaTeX — A survey of documentation and packages 7

\LaTeX

Writing Scientific Documents Using \LaTeX  

An introduction to typesetting scientific documents.

Formatting Information, A beginner's introduction to typesetting with \LaTeX  

A beginner's introduction to typesetting with \LaTeX.

The very short guide to typesetting with \LaTeX  
Peter Flynn. The very short guide to typesetting with \LaTeX. 2016. url: https://ctan.org/pkg/latex-veryshortguide.

A four-page introduction.

\LaTeX for Word Processor Users  

Helps converting knowledge and techniques of word processing into the \LaTeX typesetting environment. (\texttt{texdoc latex4wp}).

\LaTeX 2\varepsilon: An unofficial reference manual  

A thorough but concise reference manual for \LaTeX 2\varepsilon, available in several languages. (\texttt{texdoc -l latex2e-help}).

Getting something out of \LaTeX  

Create your first document in \LaTeX.

Guide to \LaTeX  

An introduction and more advanced material, including an extensive reference guide.
Programming \LaTeX{} — A survey of documentation and packages

\begin{itemize}
\item \textbf{\LaTeX{} Beginner's Guide} \hspace{1.5cm} Kottwitz


An overview with numerous examples.

\item \textbf{\LaTeX{} Cookbook} \hspace{1.5cm} Kottwitz


More examples.

\item \textbf{\LaTeX{}: A Document Preparation System} \hspace{1.5cm} Lamport


The classic introduction to \LaTeX{}, in continuous reprint for decades.

\item \textbf{\LaTeX{} for Undergraduates} \hspace{1.5cm} Lounsbury

Andrew Lounsbury. \textit{\LaTeX{} for Undergraduates}. 2022. 18 pp. \url{https://ctan.org/pkg/latex-for-undergraduates}.

A minimalist introduction for undergraduate students, including setup and editors. Be sure to locate and open the source file \LaTeX{}\_for\_Undergraduates.tex (\texttt{texdoc latex-for-undergraduates}).

\item \textbf{The \LaTeX{} Companion, 3rd Edition} \hspace{1.5cm} Mittelbach et al.


Provides extended discussion and examples of the inner workings of \LaTeX{} and hundreds of useful packages.

\item \textbf{Yet Another Guide to \LaTeX{} 2\epsilon} \hspace{1.5cm} Morris


Guide for users of Windows and TeXLive. (\texttt{texdoc yet-another-guide-latex2e}).

\item \textbf{The Not So Short Introduction to \LaTeX{} 2\epsilon} \hspace{1.5cm} Oetiker

Tobias Oetiker. \textit{The Not So Short Introduction to \LaTeX{} 2\epsilon}. Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slove-
nian, Spanish, Thai, Turkish, Ukrainian, Vietnamese. 2015. 153 pp. URL: [https://ctan.org/pkg/lshort](https://ctan.org/pkg/lshort).

Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

<table>
<thead>
<tr>
<th><strong>\LaTeX for authors — current version</strong></th>
<th><strong>\LaTeX Project team</strong></th>
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<tr>
<td>\LaTeX Project team. \LaTeX for authors — current version. 2023. 22 pp. URL: <a href="https://www.latex-project.org/help/documentation/usrguide.pdf">https://www.latex-project.org/help/documentation/usrguide.pdf</a>.</td>
<td></td>
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<tr>
<td>Guide to the new programming interface for document authors.</td>
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<tr>
<td>(texdoc usrguide).</td>
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<td>\LaTeX Project team. \LaTeX for authors — historic version. 2022. 31 pp. URL: <a href="https://ctan.org/pkg/usrguide">https://ctan.org/pkg/usrguide</a>.</td>
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<tr>
<td>An overview of the new features of \LaTeX2ε compared to \LaTeX2.09.</td>
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<td>(texdoc usrguide-historic).</td>
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<tr>
<th><strong>\LaTeX for Complete Novices</strong></th>
<th><strong>Talbot</strong></th>
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<tr>
<td>An extensive introduction for a non-technical person.</td>
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<tr>
<td>(texdoc dickimaw-novices).</td>
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<th><strong>Using \LaTeX to Write a PhD Thesis</strong></th>
<th><strong>Talbot</strong></th>
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<tr>
<td>A followup to \LaTeX for Complete Novices, including extensive discussion about bibliographies, indexes, and glossaries.</td>
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<td>(texdoc dickimaw-thesis).</td>
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<th><strong>Wikibooks</strong></th>
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<td>Wikibooks. \LaTeX. 2017. URL: <a href="https://en.wikibooks.org/wiki/LaTeX">https://en.wikibooks.org/wiki/LaTeX</a>.</td>
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<tr>
<td>An online book, includes information about creating \LaTeX packages and classes.</td>
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<th><strong>Lua\LaTeX</strong></th>
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<td>Lua\LaTeX Reference Manual</td>
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<tr>
<td>The complete reference.</td>
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<tr>
<td>(texdoc luatex).</td>
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A guide to Lualatex


An overview, and references to related packages. (texdoc lualatex-doc).

Xetex

font-change-xetex


For plain Xetex. (texdoc font-change-xetex).

The Xetex Companion


Introduction to OpenType and Unicode, using OpenType fonts, handling Unicode-encoded sources.

The Xetex reference guide


A summary of additional features over \TeX. (texdoc xetex-reference).

LaTeX3 and expl3

The \LaTeX3 Interfaces

\LaTeX3 Project team. *The \LaTeX3 Interfaces*. 2020. 310 pp. url: [https://ctan.org/pkg/l3kernel](https://ctan.org/pkg/l3kernel).

Reference documentation for the expl3 programming environment. (texdoc interface3).

The \LaTeX3 kernel: style guide for code authors

\LaTeX3 Project team. *The \LaTeX3 kernel: style guide for code authors*. 2020. 5 pp. url: [https://ctan.org/pkg/l3kernel](https://ctan.org/pkg/l3kernel).

Style guide for authors using expl3. (texdoc l3styleguide).

The expl3 package and \LaTeX3 programming

\LaTeX3 Project team. *The expl3 package and \LaTeX3 programming*. 2020. 16 pp. url: [https://ctan.org/pkg/l3kernel](https://ctan.org/pkg/l3kernel).

Introduction to expl3. (texdoc expl3).
### \LaTeX3: Programming in \LaTeX with Ease

Ziyue “Alan” Xiang. *\LaTeX3: Programming in \LaTeX with Ease*. [URL](https://www.alanshawn.com/latex3-tutorial/).

A \LaTeX3 programming tutorial.

#### Lua

### Programming in Lua


A detailed and authoritative introduction to all aspects of Lua programming written by Lua’s chief architect. First edition, available free online.

### Bibliography

#### Tame the BeaST

Nicolas Markey. *Tame the BeaST. The B to X of \BibTeX*. 2009. 48 pp. [URL](https://ctan.org/pkg/tamethebeast/).

About bibliographies and \BibTeX.

#### Biblatex Cheat Sheet


A tri-fold quick reference.

#### Math

### User's Guide for the amsmath Package


How to use amsmath. Also see International languages for the Italian, Japanese, and Vietnamese translations.

### Short Math Guide for \LaTeX

A summary of features in \LaTeX{} and packages for writing math formulas. (\texttt{texdoc short-math-guide}).

### More Math Into \LaTeX{}


Updated edition.

### Farbige Mathematik


Math in color. In German, but with easy-to-use examples. (\texttt{texdoc voss-mathcol}).

### Typesetting Mathematics with \LaTeX{}


### Page headings

**The fancyhdr and extramarks packages**


Documents the fancyhdr and extramarks packages. Also includes an overview of the \LaTeX{} page mark system. (\texttt{texdoc fancyhdr}).

### Tables

Also see the \TeX{} FAQ Floats section: \url{https://www.texfaq.org/#floats}

**Publication-quality tables in \LaTeX{}**


Documents the booktabs package, and also includes thoughts on the design of tabular layouts in general. (\texttt{texdoc booktabs}).

### Typesetting Tables with \LaTeX{}


### Graphics

Also see the \TeX{} FAQ Graphics section: \url{https://www.texfaq.org/#graphics}
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Authors</th>
<th>Year</th>
<th>Pages</th>
<th>URL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using Imported Graphics in \LaTeX\ and pdflatex</td>
<td>Using Imported Graphics in \LaTeX\ and pdflatex</td>
<td>Keith Reckdahl</td>
<td>2006</td>
<td>124 pp.</td>
<td><a href="https://ctan.org/pkg/epslatex">https://ctan.org/pkg/epslatex</a></td>
<td>The TikZ and PGF Packages Tantau</td>
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<tr>
<td>The TikZ and PGF Packages</td>
<td>The TikZ and PGF Packages</td>
<td>Till Tantau</td>
<td>2020</td>
<td>1321 pp.</td>
<td><a href="https://ctan.org/pkg/pgf">https://ctan.org/pkg/pgf</a></td>
<td>As well as documenting the packages, this manual also includes “General guidelines and principles concerning the creation of graphics for scientific presentations, papers, and books”. (texdoc pgfmanual).</td>
</tr>
<tr>
<td>PSTricks: Graphics and PostScript for \TeX\ and \LaTeX\</td>
<td>PSTricks: Graphics and PostScript for \TeX\ and \LaTeX\</td>
<td>Herbert Voß</td>
<td>2011</td>
<td>ISBN: 978-1-906-86013-4</td>
<td><a href="https://www.uit.co.uk/pstricks">https://www.uit.co.uk/pstricks</a></td>
<td>PSTricks: Graphics and PostScript for \TeX\ and \LaTeX\</td>
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<tr>
<td>Music</td>
<td>\LaTeX\ for Musicians</td>
<td>Guido Gonzato</td>
<td>2019</td>
<td>66 pp.</td>
<td><a href="https://ctan.org/pkg/latex4musicians">https://ctan.org/pkg/latex4musicians</a></td>
<td>Packages and programs for music symbols, lyrics, chord sheets, sheet music, and guitar tablature. (texdoc latex4musicians).</td>
</tr>
</tbody>
</table>
Examples from the book Presentations with \LaTeX


Source for examples from the book.

Examples from the book Presentations with \LaTeX


Source for examples from the book.

Presentations with \LaTeX


Fonts

Also see the \TeX FAQ Fonts section: [https://www.texfaq.org/#fonts](https://www.texfaq.org/#fonts)

The \LaTeX Font Catalogue

Palle Jørgensen. *The \LaTeX Font Catalogue*. [url: https://www.tug.org/FontCatalogue/].

A detailed list of fonts for \LaTeX, each with samples and setup information.

\LaTeX font encodings


About T1 encoding, OT1, etc.

(txdoc encguide).

Essential NFSS2, version 2


A user’s view of the New Font Selection Scheme, version 2.

Using TrueType fonts with \TeX (\LaTeX) and pdf\TeX (pdflat\TeX)

Damir Rakityansky. *Using TrueType fonts with \TeX (\LaTeX) and pdf\TeX (pdflat\TeX)*. [url: http://www.radmir.com/tex/ttf-tex.htm].

Font selection in \LaTeX: The most frequently asked questions

Covers basic commands, default fonts, available font families, fonts for certain parts of the document.

**\LaTeX** \texttt{2e} font selection

\LaTeX{} Project team. \emph{\LaTeX{} \texttt{2e} font selection}. 2020. 35 pp. URL: \url{https://ctan.org/pkg/fntguide}.

Documentation of commands for selecting fonts, as well as those for defining the data-structures used by the selection commands. (\texttt{texdoc fntguide}).

**Fonts and \TeX**

\TeX{} User's Group. \emph{Fonts and \TeX{}}. URL: \url{http://tug.org/fonts/}.

A collection of links related to \TeX{} and fonts.

**Cyrillic languages support in \LaTeX**

Vladimir Volovich, Werner Lemberg, and \LaTeX{} Project team. \emph{Cyrillic languages support in \LaTeX{}}. 1999. 7 pp. URL: \url{https://ctan.org/pkg/cyrguide}.

Installation, usage, encodings. (\texttt{texdoc cyrguide}).

**FAQs, symbol references, cheat sheets**

\textbf{Visual PSTricks}  


A visual FAQ consisting of a small example for each effect. (\texttt{texdoc -l visualpstricks}).

\textbf{Visual TikZ}  


A visual FAQ consisting of a small example for each effect. (\texttt{texdoc -l visualtikz}).

\textbf{\LaTeX{} \texttt{2e} Cheat Sheet}  

Winston Chang. \emph{\LaTeX{} \texttt{2e} Cheat Sheet}. 2006. 2 pp. URL: \url{https://ctan.org/pkg/latexcheat}.

A quick-reference guide for \LaTeX{} and \BibTeX{}. Also in Brazilian Portuguese, German, Japanese, and Spanish. (\texttt{texdoc latexcheat}).

**Detexify**

\emph{Detexify}. URL: \url{http://detexify.kirelabs.org/classify.html}.

Draw a symbol, and the website tells you which macros might make that symbol.
### TeX FAQ

**TeX FAQ.** [URL: https://texfaq.org/](https://texfaq.org/).

An online resource, which includes a detailed list of printed books.

### Online tutorials on \LaTeX

**Indian \LaTeX Users Group**


An extensive tutorial covering many aspects of \LaTeX.

### \LaTeX Cheat Sheet

**Lammarsch**


A reference for \LaTeX with KOMA-Script. (texdoc latex-refsheet).

### The Comprehensive \LaTeX Symbol List

**Pakin**


More than 14,000 symbols and \LaTeX commands. (texdoc comprehensive).

### The Visual \LaTeX FAQ

**Pakin**


Click on a visual element to learn how it is programmed. (texdoc visualFAQ).

### Biblatex Cheat Sheet

**Rees**


A tri-fold quick reference. (texdoc biblatex-cheatsheet).

### Every symbol (most symbols) defined by unicode-math

**Robertson**


Unicode math symbols. (texdoc unimath-symbols).

### \TeX font errors: Cheatsheet

**Schlömer**


How \TeX integrates fonts, and related error messages. (texdoc tex-font-errors-cheatsheet).
shapecatcher


Draw a symbol, and the website tells you which Unicode symbols it might be.

**TEX Resources on the Web**


A large collection of links to numerous resources.

**Source code**

The source code for \LaTeX\ itself is also included in the distribution.

**The \LaTeX\ Sources**

Johannes Braams et al. *The \LaTeX\ Sources*. 955 pp. URL: [https://ctan.org/pkg/source2e](https://ctan.org/pkg/source2e).

Occasionally useful for figuring out how something really works. (\texttt{texdoc source2e}).

**List of internal \LaTeX\ Macros useful to Package Authors**

Martin Scharrer. *List of internal \LaTeX\ Macros useful to Package Authors*. 14 pp. URL: [https://ctan.org/pkg/macos2e](https://ctan.org/pkg/macos2e).

A list of the core \LaTeX\ macros, each of which is linked to the source code. (\texttt{texdoc macros2e}).

**International languages**

**Multiple languages**

The following are available in several languages. Also see CTAN’s topic for each language for additional translations of package and other documentation.

**Free Programming Books**


A variety of \TeX\-related and other programming books and documents.

**\LaTeX\: An unofficial reference manual**


A thorough but concise reference manual for \LaTeX, available in several languages. (\texttt{texdoc -l latex2e-help}).
The Not So Short Introduction to LATEX


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

LearnLATEX.org


Sixteen lessons with examples, in multiple languages.

Brazilian Portuguese

Guia Rápido LATEX


A quick-reference guide for LATEX and BibTEX. (texdoc latexcheat-ptbr).

LATEX Via Exemplos


A study course.

Bulgarian

The Not So Short Introduction to LATEX


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

Catalan

LearnLATEX.org


Sixteen lessons with examples, in multiple languages.

Chinese

(Also see the Chinese category of the package list: p. 34)
<table>
<thead>
<tr>
<th>Programming \LaTeX{} — A survey of documentation and packages</th>
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</thead>
</table>

**\TeX{} 急就帖**  

A tutorial and reference for \TeX{}, plain \TeX{}, and Eplain.  
(texdoc impatient-cn).

**Asymptote 范例教程**  

A tutorial for asymptote in the form of a graphical FAQ.  
(texdoc asymptote-by-example-zh-cn).

**CTEX FAQ (常见问题集)**  

FAQ from the Chinese \TeX{} Society.  
(texdoc ctex-faq).

**一份简短的关于 L\LaTeX{}安装的介绍**  

Installing L\LaTeX{} and compiling documents, using various operating systems.  
(texdoc install-latex-guide-zh-cn).

**Asymptote 中的常见问题 (FAQ)**  

A translation of the Asymptote FAQ.  
(texdoc asymptote-faq-zh-cn).

**L\LaTeX{} Notes v 1.20**  

An introduction to \TeX{} and L\LaTeX{}, including the use of Chinese fonts.  
(texdoc latex-notes).

**The Not So Short Introduction to L\LaTeX{} 2ε**  

Covers introductory material, customizations, and a simple package.  
(texdoc lshort).
关于 `tlmgr` 使用方法的简介


Chinese translation of *Basic Usage of `tlmgr`, the TeXLive Manager*. (texdoc tlmgr-intro-zh-cn).

**Czech**

The Not So Short Introduction to \LaTeX 2ε


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

**Dutch**

The Not So Short Introduction to \LaTeX 2ε


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

**Estonian**

The Not So Short Introduction to \LaTeX 2ε


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

**Finnish**

Käytännöllistä Latexia


A practical manual in Finnish (texdoc latexia).

**The Not So Short Introduction to \LaTeX 2ε**


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).
### Programming \LaTeX — A survey of documentation and packages

**French**

Also see [Online communities](#).

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<th><strong>\TeX</strong> pour l'Impatient</th>
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<th><strong>Apprends i\TeX!</strong></th>
<th><strong>Baudoin</strong></th>
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<tr>
<td>Marc Baudoin. <em>Apprends i\TeX!</em> French. 2012. 222 pp. <a href="http://www.babafou.eu.org/Apprends_LaTeX">URL</a>.</td>
<td></td>
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<tr>
<td>A full textbook written for École Nationale Supérieure de Techniques Avancées.</td>
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<th><strong>Bouzigues</strong></th>
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<td>A guide on i\TeX — for beginners or advanced users.</td>
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<td>(texdoc -l visualpstricks).</td>
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<td>(texdoc -l visualtikz).</td>
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<th><strong>Goulet</strong></th>
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<tr>
<td>An introductory course prepared for Université Laval, Québec, Canada.</td>
<td>(texdoc formation-latex-ul), (texdoc formation-latex-ul-diapos).</td>
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**LATEX: An unofficial reference manual**  

A thorough but concise reference manual for LATEX 2e, available in several languages. (`texdoc -l latex2e-help`).

**Tout ce que vous avez toujours voulu savoir sur LATEX sans jamais oser le demander**  

A book for beginners.

**The Not So Short Introduction to LATEX 2ε**  

Covers introductory material, customizations, and a simple package. (`texdoc -l lshort`).

**Utilisation de Graphiques Importés dans LATEX2**  

How to import graphics in LATEX2ε. (`texdoc fepslatex`).

**XEmTEX — Appliqué aux sciences humaines**  

**Apprendre à programmer en TEx**  

Basic programming of TEx, with examples. (`texdoc apprendre`).

**TeXniques**  

A collection of resources.
Learn\LaTeX.org

Joseph Wright et al. \texttt{Learn\LaTeX.org}. Catalan, German, English, French, Marathi, Portuguese, Vietnamese. 2021. \url{https://www.learnlatex.org/}.

Sixteen lessons with examples, in multiple languages.

\textbf{German}

(Also see Users groups, and Online communities.)

\textbf{\LaTeX\,2ε Befehlsübersicht}


A quick-reference guide for \LaTeX\ and Bib\TeX. (\texttt{texdoc latexcheat-de}).

\textbf{The Not So Short Introduction to \LaTeX\,2ε}

Tobias Oetiker. \textit{The Not So Short Introduction to \LaTeX\,2ε}. Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukrainian, Vietnamese. 2015. 153 pp. \url{https://ctan.org/pkg/lshort}.

Covers introductory material, customizations, and a simple package. (\texttt{texdoc -l lshort}).

\textbf{The DANTE \TeX\ Users Group Frequently Asked Questions}

\textit{The DANTE \TeX\ Users Group Frequently Asked Questions}. German. \url{https://ctan.org/pkg/faq-de}.

\textbf{Farbige Mathematik}


Math in color. In German, but with easy-to-use examples. (\texttt{texdoc voss-mathcol}).

\textbf{Anleitung}


Using \LaTeX, Mik\TeX, and TrueType fonts.

Learn\LaTeX.org

Joseph Wright et al. \texttt{Learn\LaTeX.org}. Catalan,German,English,French,Marathi,Portuguese,Vietnamese. 2021. \url{https://www.learnlatex.org/}.

Sixteen lessons with examples, in multiple languages.
**Indian**

**A practical guide to \LaTeX\ and polyglossia for Indian Languages**

Holkar

Rohit Dilip Holkar. *A practical guide to \LaTeX\ and polyglossia for Indian Languages*. Marathi. 2017. 37 pp. [URL: https://ctan.org/pkg/latex-mr].

Discusses Marathi, but also relevant to other Indian languages. ([texdoc latex-mr]).

**Italian**

**Manuale utente per il pacchetto amsmath**

American Mathematical Society et al.


Manual for amsmath. ([texdoc amsldoc-it]).

**\LaTeX\ for Word Processor Users**

Gonzato

Guido Gonzato. *\LaTeX\ for Word Processor Users*, in Italian. 2015. 43 pp. [URL: https://ctan.org/pkg/latex4wp-it].

([texdoc latex4wp-it]).

**The Not So Short Introduction to \LaTeX\ 2ε**

Oetiker

Tobias Oetiker. *The Not So Short Introduction to \LaTeX\ 2ε*. Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukrainian, Vietnamese. 2015. 153 pp. [URL: https://ctan.org/pkg/lshort].

Covers introductory material, customizations, and a simple package. ([texdoc -l lshort]).

**Japanese**

(Also see the Japanese category of the package list: p. 34)

**User's Guide for the amsmath Package**

American Mathematical Society et al.


Manual for amsmath.

**pl\LaTeX\ 2ε チートシート**

Chang


A quick-reference guide for \LaTeX\ and Bib\LaTeX. ([texdoc platexcheat]).
Short Math Guide for \LaTeX{}  

The Not So Short Introduction to \LaTeX{} 2\epsilon  
Tobias Oetiker. *The Not So Short Introduction to \LaTeX{} 2\epsilon.* Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukrainian, Vietnamese. 2015. 153 pp. URL: https://ctan.org/pkg/lshort.

Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

\LaTeX{}2e for authors  
\LaTeX{} Project team. *\LaTeX{}2e for authors.* Japanese. Trans. by Yukitoshi FUJIMURA. 2015. 34 pp. URL: https://www.latex-project.org/help/documentation/usrguide_jpn.pdf.

An overview of the new features of \LaTeX{}\,2\epsilon compared to \LaTeX{}2.09.

Korean  
(Also see the Korean category of the package list: p. 34)

The Not So Short Introduction to \LaTeX{} 2\epsilon  
Tobias Oetiker. *The Not So Short Introduction to \LaTeX{} 2\epsilon.* Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukrainian, Vietnamese. 2015. 153 pp. URL: https://ctan.org/pkg/lshort.

Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

Marathi  
Learn\LaTeX{}.org  

Sixteen lessons with examples, in multiples languages.

Mongol  
The Not So Short Introduction to \LaTeX{} 2\epsilon  
Tobias Oetiker. *The Not So Short Introduction to \LaTeX{} 2\epsilon.* Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukrainian, Vietnamese. 2015. 153 pp. URL: https://ctan.org/pkg/lshort.

Covers introductory material, customizations, and a simple package. (texdoc -l lshort).
**Persian**

*The Not So Short Introduction to \LaTeX\ 2ε*

Tobias Oetiker. *The Not So Short Introduction to \LaTeX\ 2ε*. Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukranian, Vietnamese. 2015. 153 pp. URL: [https://ctan.org/pkg/lshort](https://ctan.org/pkg/lshort).

Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

**Polish**

*The Not So Short Introduction to \LaTeX\ 2ε*

Tobias Oetiker. *The Not So Short Introduction to \LaTeX\ 2ε*. Bulgarian, Chinese, Czech, Dutch, Estonian, Finnish, French, German, Italian, Japanese, Korean, Mongol, Persian, Polish, Portuguese, Russian, Slovenian, Spanish, Thai, Turkish, Ukranian, Vietnamese. 2015. 153 pp. URL: [https://ctan.org/pkg/lshort](https://ctan.org/pkg/lshort).

Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

**Portuguese**

*Introdução ao Uso do Preparador de Documentos \LaTeX*


A tutorial as PDF slides. (texdoc cursolatex).

**Learn\LaTeX\.org**

Joseph Wright et al. *Learn\LaTeX\.org*. Catalan, German, English, French, Marathi, Portuguese, Vietnamese. 2021. URL: [https://www.learnlatex.org/](https://www.learnlatex.org/).

Sixteen lessons with examples, in multiples languages.

**Russian**

*Basic \LaTeX*


A tutorial in Russian.
The Not So Short Introduction to \LaTeX 2ε


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

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**Slovenian**

The Not So Short Introduction to \LaTeX 2ε


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).

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**Spanish**

CervanTeX (Spanish TeX Group) FAQ

*CervanTeX (Spanish TeX Group) FAQ*. Spanish. URL: [https://ctan.org/pkg/faq-es](https://ctan.org/pkg/faq-es).

A quick-reference guide for \LaTeX and Bib\TeX. (texdoc es-tex-faq).

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Acordeón para \LaTeX 2ε


A quick-reference guide for \LaTeX and Bib\TeX. (texdoc latexcheat-esmx).

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\LaTeX 2ε: An unofficial reference manual


A thorough but concise reference manual for \LaTeX 2ε, available in several languages. (texdoc -l latex2e-help).

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The Not So Short Introduction to \LaTeX 2ε


Covers introductory material, customizations, and a simple package. (texdoc -l lshort).
<table>
<thead>
<tr>
<th>Language</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalan, German, English, French, Marathi, Portuguese, Vietnamese.</td>
<td>Learn\LaTeX.org</td>
<td>Wright et al.</td>
</tr>
<tr>
<td></td>
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<td>2021. url: <a href="https://www.learnlatex.org/">https://www.learnlatex.org/</a>.</td>
</tr>
<tr>
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<td>Sixteen lessons with examples, in multiples languages.</td>
</tr>
<tr>
<td>Thai</td>
<td>The Not So Short Introduction to \LaTeX{} 2ε</td>
<td>Oetiker</td>
</tr>
<tr>
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<td>Covers introductory material, customizations, and a simple package. (texdoc -l lshort).</td>
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<tr>
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<td>Oetiker</td>
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<tr>
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<td>Covers introductory material, customizations, and a simple package. (texdoc -l lshort).</td>
</tr>
<tr>
<td>Ukrainian</td>
<td>The Not So Short Introduction to \LaTeX{} 2ε</td>
<td>Oetiker</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Covers introductory material, customizations, and a simple package. (texdoc -l lshort).</td>
</tr>
<tr>
<td>Vietnamese</td>
<td>Hướng dẫn sử dụng gói amsmath</td>
<td>American Mathematical Society et al.</td>
</tr>
</tbody>
</table>

Covers introductory material, customizations, and a simple package. (texdoc \-l lshort).

Learn\LaTeX.org

Joseph Wright et al. \textit{Learn\LaTeX.org}. Catalan, German, English, French, Marathi, Portuguese, Vietnamese. 2021. \url{https://www.learnlatex.org/}.

Sixteen lessons with examples, in multiple languages.

\textbf{Journals}

The \textit{Prac\TeX\ Journal} \TeX\ Users Group

\TeX\ Users Group. \textit{The \textit{Prac\TeX\ Journal}}. \url{http://tug.org/pracjourn/}.

The online journal of the \TeX\ Users Group. Twenty issues, from 2005–2012.

TUGBoat \TeX\ Users Group

\TeX\ Users Group. \textit{TUGBoat}. \url{http://tug.org/TUGboat/}.

The Communications of the \TeX\ Users Group. Published since 1980. Articles covering every aspect of \TeX.

\textbf{Interviews}

TUG Interview Corner \TeX\ Users Group

\TeX\ Users Group. \textit{TUG Interview Corner}. \url{http://tug.org/interviews/}.

A large collection of interviews and articles about people related to \TeX. Includes links to more than 250 lectures and other recordings by Donald Knuth, and various historical information.

\textbf{Typesetting examples}

- A large collection of examples: \url{https://texample.net/}
- A collection of small examples: \url{http://tug.org/texshowcase/}
- Excerpts from many books: \url{https://ctan.org/topic/book-ex}
- Entire books: \url{http://www.tsengbooks.com/}
- Discussion: \url{https://tex.stackexchange.com/questions/1319/showcase-of-beautiful-typography-done-in-tex-friends}
- Discussion: \url{https://tex.stackexchange.com/questions/281415/showcase-of-beautiful-invitations-in-tex}

\textbf{General typesetting theory}

Discussion about general typesetting theory, presented by various \TeX-related authors.

For a list of non-\LaTeX-specific books, see \url{https://www.texfaq.org/FAQ-type-books}. 


Package canoniclayout  


Documentation for the canoniclayout package. Also includes ideas regarding text-block proportions. (texdoc canoniclayout).

Publication-quality tables in \LaTeX{}  


Documents the booktabs package, and also includes thoughts on the design of tabular layouts in general. (texdoc booktabs).

KOMA-Script — The Guide  


Documentation for the KOMA-Script package. Also includes discussion about the page layout of a book. (texdoc typearea).

The Octavo Package  


Design principles and guidelines emulating books from the Renaissance. (texdoc octavo).

The TikZ and PGF Packages  


As well as documenting the packages, this manual also includes “General guidelines and principles concerning the creation of graphics for scientific presentations, papers, and books”. (texdoc pgfmanual).

A TUFTE-STYLE BOOK  


Documentation for the Tufte-\LaTeX{} document classes. Also includes layout ideas from the books of Edward R. Tufte. (texdoc tufte-latex).

A Few Notes on Book Design  


More than 100 pages of discussion about book design and typography. (texdoc memdesign).
**Accessing embedded information**

**texdoc and mthelp**

A large amount of documentation is included in a \TeX distribution. For TeXLive distributions, package documentation can be accessed with the \texttt{texdoc} program. Enter "\texttt{texdoc -l <name>}" to search for matching package, file, or program names. In some cases the same document is available in both letter or A4 paper sizes, or in several languages. \texttt{texdoc} is also available online, with popular packages sorted by category. (http://www.texdoc.net/)

For MiK\TeX, the \texttt{mthelp} program accesses package documentation. Enter "\texttt{mthelp <name>}".

**kpsewhich**

The program \texttt{kpsewhich} may be used to find out where a file is located. \texttt{kpsewhich filename} searches for and returns the path to the given filename. \texttt{kpsewhich} can also return directories, such as:

\begin{verbatim}
kpsewhich -var-value TEXMFROOT
kpsewhich -var-value TEXMFDIST
kpsewhich -var-value TEXMFLOCAL
\end{verbatim}

Some package authors choose not to include the source code in the package documentation. To view the source code:

1. To locate and read a package's .sty file:
   \begin{verbatim}
kpsewhich package.sty
\end{verbatim}
   Usually these files have their comments removed, so it is better to use the .dtx file instead.

2. The .dtx file is usually available, and will have the package's source code.
   \begin{verbatim}
kpsewhich package.dtx
\end{verbatim}
   If it is not installed on your local system, it will be necessary to download the .dtx file from CTAN (see the next section).
   The comments are not yet typeset and so will not be as easily read.

3. To typeset the documentation with the source code, copy the .dtx file and any associated image files somewhere local and then look for `\OnlyDescription` in the source. This command tells the \texttt{ltxdoc} package not to print the source code.

4. Remove `\OnlyDescription`, then process the .dtx file with
   \begin{verbatim}
pdflatex package.dtx
\end{verbatim}
   Barring unusual circumstances, this will create a new documentation .pdf file with the package source code included.

**Distributions — \LaTeX for various operating systems**

- **TeXLive**: [http://tug.org/texlive](http://tug.org/texlive)  
  Unix and Windows

- **MiKTeX**: [https://miktex.org](https://miktex.org)  
  Windows and Mac

- **proTeXt**: [http://tug.org/protext/](http://tug.org/protext/)  
  Windows

- **MacTeX**: [http://tug.org/mactex/](http://tug.org/mactex/)  
  Mac

- **BasicTeX**: [https://www.tug.org/mactex/morepackages.html](https://www.tug.org/mactex/morepackages.html)  
  Mac (simplified)
Managing TeXLive

tlmgr - the native TeX Live Manager

distribution


man page for tlmgr. man tlmgr (texdoc -l tlmgr).


Chinese translation of *Basic Usage of tlmgr, the TeXLive Manager*. (texdoc tlmgr-intro-zh-cn).

**Basic Usage of tlmgr, the TeXLive Manager**

Bob Tennent. *Basic Usage of tlmgr, the TeXLive Manager*. 16 pp. URL: [https://ctan.org/pkg/tlmgrbasics](https://ctan.org/pkg/tlmgrbasics).

Documents only the most commonly-used actions and options for tlmgr. (texdoc tlmgrbasics).

Obtaining packages — Comprehensive TeX Archive Network (CTAN)

TeXLive installations use the tlmgr program to obtain packages. MiKTeX installations automatically install packages as needed. Where TeX is installed by an operating-system package manager, that manager should be used to install additional packages.

For custom installations, it may be necessary to manually install packages downloaded from the Comprehensive TeX Archive Network (CTAN), which provides a master collection of packages. A search function is available, which is useful when you know the name of a package or its author, and a list of topics is also provided. There are so many topics, however, that finding the right topic can be a problem in itself. One useful method to find what you are looking for is to search for a related package you may already know about, then look at its description on CTAN to see what topics are shown for it. Selecting these topics then shows you related packages. ([https://ctan.org/](https://ctan.org/))

Useful classes, packages, and programs

Use `texdoc` or `mthelp` to access information about each of the following.

**General-use packages and classes**

*Classes:*

- memoir, koma-script

*Page layout and headings:*

- fancyhdr, geometry, microtype, nowidow, titleps

*Fonts:*

- font-change-xetex, fontspec, mathspec,

- unicode-math

*Sectioning:*

- epigraph, fncychap, quotchap, sectionbreak, sectsty, titlesec, tocvsec2

*Table of contents:*

- etoc, minitoc, multitoc, shorttoc, titletoc, tocbibind, tocdata, tocloft, tocvsec2
Title page:
  authblk, titling

Front and back matter:
  abstract, appendix

Indexing:
  makeindex, xindy, xindex, gindex, hvindex, idxlayout, imakeidx, index, makeidx, splitidx, varindex, xindex

Glossary:
  glossaries, nomencl

Bibliography:
  bibtex, biblatex, custom-bib

Cross-referencing:
  cleveref, hyperref, url, xr-hyper, xurl, zref

Foot notes, margin notes, page notes:
  bigfoot, endheads, endnotes, footmisc, manyfoot, marginfit, marginfix, margintote, pagenote, parnotes, sidenotes

Math:
  amsmath, amssymb, breqn, mathtools, resizegather, nicematrix, scalerel, stackrel

Theorems:
  amsthm, apxproof, ntheorem, shadethm, theorem, thmbox, thmtools

Units and fractions:
  nicefrac, siunitx, xfrac

Floats:
  caption, dblfloatfix, endfloat, fewerfloatpages, float, floatarow, hypcap, keyfoot, newfloat, placeins, rotflot, stfloats, subcaption, subfig, subfloat, wrapfig

Tabular:
  array, booktabs, colortbl, longtable, ltxtable, multirow, supertabular, tabularx, tabulary, threeparttable, threeparttablex, widetable, xltabular, xtab

Graphics:
  asymptote, curves, fitbox, graphicx, pict2e, pstricks, tikz, xy

Color:
  normalcolor, xcolor

Lists:
  enumerate, enumitem, paralist

Minipages:
  eqparbox, minipage, pbox, shapepar

Quotations and verse:
  csquotes, epigraph, quoting, verse

Verbatim:
  fancyvrb, fextra, moreverb, shortvrb, upquote, verbatim

Frames:
  boxedminipage2e, fancybox, fbox, framed, mdframed, niceframe, shadow, tcolorbox

Embellishments:
  fancyypar, fancytabs, fourier-orns, lettrine, pfgornament, pst-vectorian, sectionbreak

Multi-column:
  adjmulticol, multicol, multicolrule, vwcol

Margins:
  fullwidth, hanging, midpage

Line numbering:
  lineno

Algorithms and listings:
  algorithm2e, algorithmicx, listings, listingsutf8, minted

Acronyms:
  acro, acronym

Ordinals:
  engord, fmtcount, nth

Direct formatting:
  cancel, ellipsis, embrac, enparen, hyphenat, lips, lua-check-hyphen, luacolor, pdfcol, pdfcolmk, pdfrender, realscripts, relsize, seqsplit, soul, soulpos, soulutf8, stackengine, textfit, thinspace, trimclip, truncate, ulem, umoline, underscore, uspace, xellipsis

Symbols:
  academicicons, amssymb, bbding, chemgreek, dingbat, euro, eurosym, fontawesome, fontawesome5, fourier-orns, gensymb, latexsym, marvosym, metalogo, metalogox, pfifont, textalpha, textcomp, textgreek, typicons, unicode

Files:
  attachfile, attachfile2, hyperxmp, intopdf, pdfpages, pdfx, xmpincl

Admonitions:
  awesomebox, notes
**Editorial:**
changebar, changelog, changes, easy-todo, easyReview, ed, errata, fixme, fixmetodonotes, pdfcomment, pdfmarginpar, todo, todonotes, tram, xechangebar

**Accessibility:**
accessibility, accsupp, axessibility, pdfcomment, repltext, tagpdf

**Presentations:**
beamer, powerdot

**Multi-langauge:**
babel, beamer-rl, bidi, polyglossia

**Chinese / Japanese / Korean (CJK):**
cjkpunct, xeCJK

**Chinese:**
ctex, upzhkinsoku, xpinyin, zhlineskip, zhspacing

**Japanese:**
bxjsscls, luatexja, platex, plautopatch, tascmac, uplatex, zxjatype

**Korean:**
kotex, luatekx, xetexko.

**Debug:**
chkfloat, cmdtrack, dprogress, inputtrc, lua-visual-debug, refcheck

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**Automatic compiling**
The programs arara and latexmk automatically recompile as necessary to resolve all dependencies.

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**Converting to HTML and other document formats**

**Using \TeX{} to generate the HTML:**
The lwarp package and the \texttt{tex4ht} program each use native \LaTeX{} to interpret the document and generate HTML. More of \LaTeX{} is supported compared to the translators listed below.

**lwarp package:**
Supports hundreds of packages. Generates HTML, and provides indirect assistance for EPUB conversion and copy/paste into a word-processor. [https://ctan.org/pkg/lwarp](https://ctan.org/pkg/lwarp)

**\texttt{tex4ht} program:**
Generates HTML, EPUB, ODT, and Docbook. [http://tug.org/tex4ht/](http://tug.org/tex4ht/)

**Translators:**
These systems use external programs to translate a subset of \LaTeX{} syntax into HTML. Search for each on CTAN ([http:\ctan.org](http:\ctan.org)).

**H\(^E\)v\(^E\)a:**
[http://hevea.inria.fr/](http://hevea.inria.fr/)

**T\(H\):**

**GELLMU:**
[http://www.albany.edu/~hammond/gellmu/](http://www.albany.edu/~hammond/gellmu/)

**\LaTeXML:**
[http://dlmf.nist.gov/LaTeXML/](http://dlmf.nist.gov/LaTeXML/)

**PlasTeX:**
[https://github.com/tiarno/plastex](https://github.com/tiarno/plastex)

**\LaTeX2HTML:**

**\TeX{}2page:**
LaTeX math to HTML:
GladTeX takes a LaTeX math expression and generates the corresponding HTML.

GladTeX:
http://humenda.github.io/GladTeX/

Programming LaTeX
A number of packages are especially useful for LaTeX programmers: (texdoc <packagename>)

\texttt{xifthen}: Conditionals.
\texttt{etoolbox}: A wide range of programming tools, often avoiding the need to resort to low-level \TeX.
\texttt{etextools}: Adds to etoolbox. Strings, lists, and more.
\texttt{xparse}: Define macros and environments with flexible argument types.
\texttt{environ}: Process environment contents.
\texttt{arrayjobx, fifo-stack, forarray, forloop, xfor}: Programming arrays, stacks, and loops.
\texttt{iftex}: Detect \TeX engine.
\texttt{ifplatform}: Detect operating system.
\texttt{xstring}: String manipulation.
\texttt{keyval, xkeyval, kvsetkeys, ltxkeys}: Key/value arguments.
\texttt{pgfkeys, pgfkeyx}: Another form of key/value arguments.
\texttt{kvoptions}: Key/value package options.
\texttt{expl3}: \LaTeX3 programming.
\texttt{l3keys, l3keys2e}: Key/value for \LaTeX3.
\texttt{chktex}: Locates typographic errors.
\texttt{CTAN topic macro-supp}: An entire topic of useful programming macros.

Programming-related documentation
Key–value setting handling in the \LaTeX kernel


Modern kernel key/value support.

Implementing key–value input: an introduction


An introduction to various key/value packages.

Advanced programming
Recent developments in the \LaTeX kernel. For discussion, see news entries at The \LaTeX Project website: \url{https://www.latex-project.org/news/latex2e-news/} (texdoc <packagename>)

\texttt{lthooks}: Programming hooks to add code to standard functionality.
\texttt{ltcmdhooks}: Programming hooks to add code to existing commands.
**Programming l\TeX** — A survey of documentation and packages

**ltsockets:**
Programming sockets to change functionality.

**ltpara:**
Paragraph handling.

**ltmeta:**
Document meta data.

**ltproperties:**
Cross-referencing document properties.
Extended referencing.

**ltmarks:**
Running page marks, such as chapter name.

**ltkeys:**
Modern key/value handling.

**ltfilehooks:**
Programming hooks for packages and files.

**ltshipout:**
Programming hooks for page shipout.

**xtemplate:**
Customize the visual design of a document.

**Programming for PDF management and tagging**
Recent developments in PDF document meta data and tagging.

**pdfmanagement:**
\DocumentMetaData and PDF management activation.

**tagpdf:**
Test various parts of tagging PDF documents.

**latex-lab:**
Experimental code for various aspects of l\TeX.

**Creating and documenting new packages**
Documentation for those interested in creating their own package or class:

**Rolling your own Document Class: Using l\TeX to keep away from the Dark Side**
Flynn


An overview of the article class.

**How to develop your own document class — our experience**
Mansfield


A comparison of developing class vs. package files.

**The doc and shortvrb packages**
Mittelbach


Packages for documenting packages.
The DocStrip program


The program which processes `.dtx` and `.ins` files to generate documentation and `.sty` files.

(texdoc docstrip).

Good things come in little packages: An introduction to writing `.ins` and `.dtx` files


How and why to create your own `.dtx` and `.ins` files.

How to Package Your LaTeX Package


A tutorial. (texdoc dtxtut).

LaTeX 2ε for class and package writers

LaTeX Project team. *LaTeX 2ε for class and package writers*. 33 pp. [url: https://ctan.org/pkg/clsguide].

Programming a package or class. (texdoc clsguide).

Wikibooks


An online book, includes information about creating LaTeX packages and classes.

The LaTeX Project

The LaTeX Project maintains and develops the LaTeX typesetting system.

Website:

[https://www.latex-project.org](https://www.latex-project.org)

News updates and publications about modern LaTeX developments and programming. Contact information.

Code Repository:

[https://github.com/latex3](https://github.com/latex3)

Code repository and bug tracker.

Users groups

TeX Users Group: [http://tug.org](http://tug.org)
Lists of international users groups:

- http://tug.org/usergroups.html
- https://ctan.org/lugs
- http://www.ntg.nl/lug/

**Online communities**

English forums:

TeX — L\(\text{\LaTeX}\) Stack Exchange: Almost any question has already been asked, and a quick web search will find answers, ranked by vote. http://tex.stackexchange.com

\(\text{\LaTeX}\) Community: A traditional forum with quick replies to your questions http://www.latex-community.org

TopAnswers TeX: Large collection of questions and answers. https://topanswers.xyz/tex

German forums:

TeXwelt: http://texwelt.de/wissen/

goLaTeX: http://gолaTeX.de

French forums:


Mailing lists: Several dozen, spanning a wide range of \TeX{}-related topics. http://tug.org/mailman/listinfo

Newsgroup: comp.text.tex

**Online editing and collaboration**

\texttt{OVERLEAF}: Collaborative editing of \LaTeX{} documents online. https://www.overleaf.com/

**Change log**

2017/03/06: Initial version.

2017/10/04: Added users groups, mailing lists, distributions, Lua\TeX{}, \Xe\TeX{}, \texttt{chktex}. Organization and formatting improvements.

2017/10/14: More information about accessing embedded documentation.

2018/01/18: Added \texttt{texdoc.net}.


2018/03/24: Added \texttt{interface3}, dickimaw-novices, dickimaw-thesis.

2018/04/01: Added TeXnique.fr.

2018/06/28: Added sections for non-English documents and general typesetting theory. Updated host and name for TeX FAQ. Added latex-via-exemplos and Ebook Foundation free programming books.
2018/10/18: Updated url for \textit{\LaTeX\,2ε: An unofficial reference manual}.

2020/12/14: Improved bibliography. Added categories for math and music; startlatex2e; items written in French, German, Indian, Italian, Japanese, Portuguese, Vietnamese; Dante users group.

2021/01/02: Now uses biblatex. Added \texttt{mthelp}, many international documents, and categories for FAQs and cheat sheets, graphics, tables, and fonts. Added lists of packages by category. Added Overleaf.

2021/01/09: Added several resources from TUG including journals and interviews, and more for the list of packages.

2021/12/30: Added \texttt{usrguide3}, \texttt{learnlatex.org}, \texttt{latex3-tutorial}, many international resources.

2024/01/06: Updated \textit{The \LaTeX\,Companion, 3rd Edition}. Replaced Morris’s \textit{Getting Started with \LaTeX\,2ε} with \textit{Yet Another Guide to \LaTeX\,2ε}. Added \textit{\LaTeX\,for Undergraduates}, \textit{\TeX\,in a Nutshell}, TopAnswers TeX, Basic TeX.

2024/01/14: Updated \textit{\LaTeX\,2ε for authors — historic version} and \textit{\LaTeX\,for authors — current version}.

2024/03/01: Added the section for TexLive, \textit{\LaTeX\,for Word Processor Users}.

2024/03/18: Updated French resources, added \textit{Programming in Lua}.

2024/03/23: Added sections for the The \LaTeX\,Project, advanced programming, PDF management, key/value documentation.