Which Success for TEX as an Old Program?

Jean-Michel Hufflen

GuIT

31 October 2020

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically... Practically...

Conclusion

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

< □ > < //>

Teaching $\[Mathebaar]{ATEX}$

Separation of *form* and *substance*.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

< □ > < ⑦ > < ≧ > < ≧ > < ≧ > ≧ のQ (~ 3/3/15

Teaching $\[Mathebaar]{ATEX}$

Separation of *form* and *substance*. Typesetting system suitable for *large* documents. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

4/3/15

Teaching $\[Mathebaar]{ATEX}$

Separation of *form* and *substance*. Typesetting system suitable for *large* documents. *Resubmitting* an article. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

5/3/15

Teaching LATEX

Separation of *form* and *substance*. Typesetting system suitable for *large* documents. *Resubmitting* an article. *Markup* language. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

▲口 → ▲圖 → ▲ 国 → ▲ 国 → -

6/3/15

Teaching LATEX

Separation of *form* and *substance*. Typesetting system suitable for *large* documents. *Resubmitting* an article. *Markup* language. Included into some *curricula* ⇐ GUIT 2019.

▲口 → ▲圖 → ▲ 国 → ▲ 国 → -

7/3/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

► T_EX's 1st version \Leftarrow 1978.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

< □ > < ⑦ > < ≧ > < ≧ > < ≧ > 8/4/15

T_EX's 1st version ⇐ 1978.
MT_EX 2_ε ⇐ 1994.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically... Practically...

Conclusion

< □ > < @ > < ≧ > < ≧ > ≧ のQ (~ 9/4/15

- ► T_EX's 1st version \Leftarrow 1978.
- ► LAT_{E} X 2 $_{\varepsilon}$ \Leftarrow 1994.
- $\[Mathbb{MT}_{EX} 3 \implies \text{intended to replace } \[MT}_{EX} 2_{\mathcal{E}}.\]$

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

<ロト < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > <

10/4/15

- ► T_EX's 1st version \Leftarrow 1978.
- ► LAT_{E} X 2 $_{\varepsilon}$ \Leftarrow 1994.
- $\[Mathbb{MT}_{EX} 3 \implies \text{intended to replace } \[MT}_{EX} 2_{\mathcal{E}}.\]$

Another format \leftarrow ConTEXt (come out *ca* 1990).

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

イロト イポト イヨト イヨト 一日

11/4/15

Still widespread \Leftarrow very long lifetime.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



Still widespread <= very long lifetime. Has incorporated modern requirements, e.g.: Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



▶ i18n,

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

<ロト < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < 回 > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > < □ > <

14/5/15

Still widespread <= very long lifetime. Has incorporated modern requirements, e.g.:

▶ i18n,

new schemes for font management.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

<ロト < 四ト < 三ト < 三ト = 三三

15/5/15

Still widespread \Leftarrow very long lifetime. Has incorporated modern requirements, e.g.:

▶ i18n,

new schemes for font management.

Much synergy among users, especially if you are interested in writing new commands.

イロト イポト イヨト イヨト 一日

16/5/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Still widespread \Leftarrow very long lifetime. Has incorporated modern requirements, e.g.:

▶ i18n,

new schemes for font management.

Much synergy among users, especially if you are interested in writing new commands.

17/5/15

 $\ensuremath{\text{LTEX}}\xspace 3 \Longrightarrow$ better for such a task,

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Still widespread \Leftarrow very long lifetime. Has incorporated modern requirements, e.g.:

▶ i18n,

new schemes for font management.

Much synergy among users, especially if you are interested in writing new commands.

18/5/15

 $\text{LAT}_{EX} 3 \implies$ better for such a task, but not finished yet.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

 $\mathsf{T}_{E}\mathsf{X}\mathsf{'}\mathsf{s}$ implementation:

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



T_EX's implementation:

very old-fashioned language (based on Pascal)

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

<ロト < 四ト < 三ト < 三ト = 三三

 T_EX 's implementation:

- very old-fashioned language (based on Pascal)
- monolithic program

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

<ロト < 四ト < 三ト < 三ト = 三三

T_EX's implementation:

- very old-fashioned language (based on Pascal)
- monolithic program
- no one but D. Knuth can change it!

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

T_EX & LAT_EX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

T_EX's implementation:

- very old-fashioned language (based on Pascal)
- monolithic program
- no one but D. Knuth can change it!

(\mathbb{A})T_EX's commands implemented by *macros*:

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

T_EX's implementation:

- very old-fashioned language (based on Pascal)
- monolithic program
- no one but D. Knuth can change it!

(A)T_EX's commands implemented by *macros*:

f(2019 + 1) m(2019 + 1)

24/6/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Computer Science is...

... a science!

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

Computer Science is...

... a science! \leftarrow Techniques and methods, but also some *History*.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



Computer Science is...

 \dots a science! \longleftarrow Techniques and methods, but also some History.

<ロト < 四ト < 三ト < 三ト = 三三

27/7/15

But many students do not perceive this point.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

'Modern' languages \leftarrow reserved words.



Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



'Modern' languages ⇐ reserved words. Lexical + syntactical analysis Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



'Modern' languages \Leftarrow reserved words. Lexical + syntactical analysis \Longrightarrow result in *trees*. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



'Modern' languages \Leftarrow reserved words. Lexical + syntactical analysis \Longrightarrow result in *trees*.



Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



No reserved keyword in the present sense.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



No reserved keyword in the present sense. One analyser:

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



No reserved keyword in the present sense. One analyser:

Typing \frac12 with \LaTeX\ is easy!

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



No reserved keyword in the present sense. One analyser:

Typing \frac12 with \LaTeX\ is easy! Dynamic search for '\fi' associated with '\if...' (show).

35/9/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Efficiency questions

 $\mathcal{N}_{\mathcal{T}}\mathcal{S}$ vs $T_{E}X.$

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

< □ > < ⑦ > < 注 > < 注 > 注 のへで 36/10/15

Efficiency questions

 \mathcal{NTS} vs TEX. short commands vs long ones.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

▲ロト ▲御 ト ▲注 ト ▲注 ト

■ ∽ 37/10/15

Cross references (compare with ConTEXt's texexec command).

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

◆□▶ ◆御▶ ◆注▶ ◆注▶ ─ 注

38/11/15

Cross references (compare with ConTEXt's texexec command). Overfull boxes caused by wrong hyphenation. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

◆□▶ ◆御▶ ◆注▶ ◆注▶ ─ 注

39/11/15

Cross references (compare with ConTEXt's texexec command). Overfull boxes caused by wrong hyphenation. Marginal notes. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

40/11/15

Cross references (compare with ConTEXt's texexec command).

Overfull boxes caused by wrong hyphenation.

Marginal notes.

Working on final and irrevocable versions \Leftarrow commands such as \sloppy, \newpage, and some commands originating from the microtype package.

ヘロト ヘロト ヘヨト ヘヨト

41/11/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

In theory

LATEX's end-users should not use constructs from Plain TEX.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



In theory

PTEX's end-users should not use constructs from *Plain* TEX. \newcommand instead of \def, ifthen package, etc.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .



In theory

$\label{eq:lambda} \begin{array}{l} \mbox{${\rm FZ}$} X's end-users should not use constructs from $Plain T_{E}X. $$ newcommand instead of $$ def, if then package, etc. $$ AT_{E}$X 3 $$ \label{eq:lambda} \end{array}$

44/12/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

$\ensuremath{\text{\sc beta}}\xspace{\sc beta} X's$ services are added to TEX's, without hiding the latter.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically... Practically...



$ext{ETE}X$'s services are added to TEX's, without hiding the latter. Example \leftarrow conventions for the \input command.

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically... Practically...



Teacl TEX Yeste

47/13/15

$\begin{array}{l} \label{eq:example} \ensuremath{\mathbb{E}} X's \mbox{ services are added to TEX's, without hiding the latter.} \\ \mbox{ Example} & \Longleftrightarrow \mbox{ conventions for the \input command.} \\ \mbox{`$$} \dots \mbox{`$$} 'vs \mbox{`$[...]'.} \end{array}$

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically... Practically...

48/13/15

LATEX's services are added to TEX's, without hiding the latter. Example \leftarrow conventions for the \input command. '\$\$...\$\$' vs '∖[...∖]'. Some commands—e.g., \xspace—are not guaranteed 100%.

Which Success for T⊨X as an **Old Program?**

Jean-Michel Hufflen

Theoretically... Practically...

In my university, many students in Computer Science typeset documents using $\mbox{LT}_{E}X$, even if they do not have to.

49/14/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

What is sure

In my university, many students in Computer Science typeset documents using $\[AT_EX\]$, even if they do not have to. ($\[AC]\]$ T_EX's language is a good example for a *simple* and *specialised* language for *simple* commands.

ヘロト ヘロト ヘヨト ヘヨト

50/14/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

What is sure

In my university, many students in Computer Science typeset documents using $\[MTex]$, even if they do not have to. (M)Tex's language is a good example for a *simple* and *specialised* language for *simple* commands. *Alternative* conventions, even if they are quite obsolete. Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LATEX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Conclusion

Ending

We can teach $\[mathbb{L}T_EX\]$ as an unrivalled type setting system whereas we can express that TEX is a kind of *legacy program*. It should be able to provide new services because of some powerful features such as LuaTEX and $\[mathbb{L}T_EX\]$ 3.

52/15/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .

Ending

We can teach $\[mathbb{L}T_EX\]$ as an unrivalled type setting system whereas we can express that TEX is a kind of *legacy program*. It should be able to provide new services because of some powerful features such as LuaTEX and $\[mathbb{L}T_EX\]$ 3. Its qualities supersede its defects. The latter are in connection with implementation \implies Computer Science students. They can learn from these weaknesses.

イロト イタト イモト イモト 三日

53/15/15

Which Success for T_EX as an Old Program?

Jean-Michel Hufflen

Contents

Teaching LAT_EX

TEX & LATEX, Yesterday and Today

Teaching Computer Science Students

More Ready for Next Time

Theoretically. . . Practically. . .