TEX, LATEX and More
A Brief Look on Technologies

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Presenter, Presentation Concepts Student

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$$2\,\mathrm{Na} + \mathrm{Cl}_2 \xrightarrow[\text{reduction}]{\text{oxidation}} 2\,\mathrm{Na}^+ + 2\,\mathrm{Cl}^-$$

$$\oint_{\partial S} \mathbf{E} \cdot \mathrm{d}\mathbf{l} = -\frac{\partial \Phi_{B,S}}{\partial t}$$

Outline

TEX, LATEX
and More

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TEX vs LATEX,
as a Concept

TEX LATEX
And
PDFLATEX

Donald Knuth

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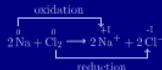
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TEX vs LATEX, as a Concept

1. TEX vs LATEX

1. **TeX vs LaTeX**
2. **An Analogy: Car, Engine, Interior**

1. TEX vs LATEX
2. An Analogy: Car, Engine, Interior
3. Another Analogy: React, Next

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1 Origin of TEX

1. Origin of TEX
2. Origin of LATEX

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2 The Art of Computer Programming

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2 The Art of Computer Programming

3 Bug bounty

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4 Unity of Code and Document

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4 Unity of Code and Document

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6 METAFONT and Computer Modern

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6 METAFONT and Computer Modern

7 Knuth's up-arrow notation

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7 Knuth's up-arrow notation

8 LR parser

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6. METAFONT and Computer Modern
7. Knuth's up-arrow notation
8. LR parser
9. Alive, Like His Code

1. XƎTₑX and XƎLATₑX

1. XƎTEX and XƎLATEX
2. LuaTEX and LuaLATEX

1. XƎTeX and XƎLaTeX
2. LuaTeX and LuaLaTeX
3. ConTeXt (texexec)

Origin and Reasoning Underneath Alternatives

1. X∃TeX and X∃LaTeX
2. LuaTeX and LuaLaTeX
3. ConTeXt (texexec)
4. Tectonic

Learning More, Fast Mentions

1. BibTeX, Biber, BibLaTeX, NatBib
2. TeXIndy
3. LaTeXmk, Arara
4. TeXInfo (info, makeinfo, texi2pdf, texi2dvi), OpTeX
5. LaTeX 2_ε vs LaTeX3
6. How to make commands (macros)
7. TeXLive, MiKTeX, MacTeX, W32TeX, proTeXt
8. Omega, Aleph, ExTeX, ϵ-TeX and [e][u]pTeX,
9. TeXLab
10. TeXStudio, TeXMaker, TeXWorks, TeXShop
11. LaTeXWorkshop, LaTeXUtilities
12. pandoc, tex4ht, lwrap, LaTeXML

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1. TeX Stack Exchange (tex.stackexchange.com)
2. Khalili Oriented Programming YouTube Channel
3. LaTeX Tutorials Youtube Channel (@LaTeXTutorials)
4. TeXUsers Group (tug.org)
5. Comprehensive TeX Archive Network (ctan.org)
6. ConTeXt Garden (and Wiki)
7. texfaq.org
8. texdoc, info, man pages
9. Theses TeX - LaTeX Stack Exchange Answers specifically: tex.stackexchange.com/questions/13593/the-differences-between-tex-engines