

FIRST CONTACT

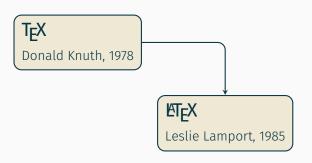
Raphael Frey 15. März 2017

raphael.frey@students.fhnw.ch

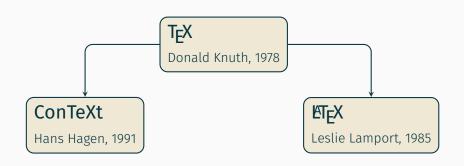
WAS IST LETEX?

T_EXDonald Knuth, 1978

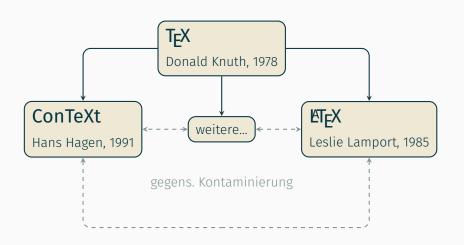
WAS IST LETEX?



Was ist ETEX?



Was ist ETEX?



WARUM NICHT?

- Word & Co. funktionieren heutzutage ja egtl. nicht schlecht ...
- · ...und auch T_FX hat seine Tücken:
 - · Oual der Wahl
 - Floats
 - · indirekter Workflow
 - · etc.

WARUM DOCH?

- · Trennung von Inhalt und Form
- · Packages für jeden Geschmack
- robusteres Verhalten (wenn auch nicht immer so wie gewollt)
- · volle Programmiersprache
- · Puretext-Dateien
- · die feineren Aspekte von Typographie

T_EX DISTRIBUTIONEN

Wie bekomme ich T_EX auf mein System?

andere

```
TeX Live Win https://www.tug.org/texlive/
*nix Package Manager

Miktex Win https://miktex.org

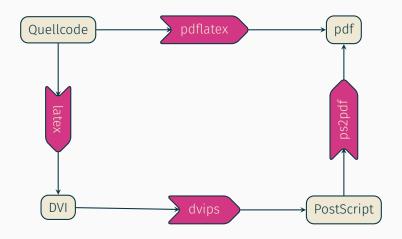
MacTeX OS X https://www.tug.org/mactex/
```

Anleitungen:

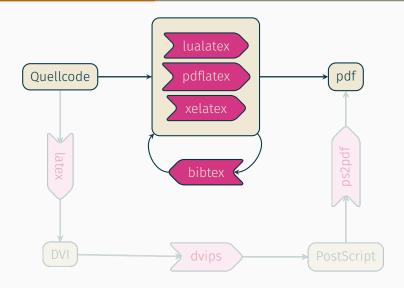
(esoterisch und/oder obsolet)

https://github.com/alpenwasser/TeX/tree/master/guides

WORKFLOW



WORKFLOW



EDITOREN

- · Split Pane
- · What You See Is What You Mean
- Text editor & Terminal (allenfalls mit Makefile o.ä.)
- Vergleichstabelle: https://en.wikipedia.org/wiki/Comparison_of_TeX_editors
- Liste & Diskussion: http://tex.stackexchange.com/questions/339/

ausprobieren

HELLO, WORLD!

```
\documentclass{minimal}
\begin{document}
Hello, world!
\end{document}
                            Hello, world!
```

OPTIONALE PARAMETER, PACKAGES, ENVIRONMENTS

```
\documentclass
    [a4paper,12pt]
    {proc}
\usepackage{lipsum}
\begin{document}
\lipsum[1-4]
\begin{equation}
\end{equation}
\lipsum[5]
\end{document}
```



ou tellus oft anot tertor gravith placerat langer aspin or kuchli in, pettimu gris, luttera tellus pettimu gris, tvivera ac, nanc. Prasoute ages seu vel los universo kiboshum. Accessa fazelus. Merbi delar milik, malsomada en, politicar at, milllane, milik. Cambitar autor sompe ar milllane, milik. Cambitar autor sompe in congue en, accessan delende, augitta picdium. Date opt rious. Date sibh ni, congue en, accessan delende, augitte sibi dium. Date opt en'el st autor eri digassion ratran. Nan dai, sollicitati, rivelli a, e estenci de scha, sollicitati, rivelli a, e estenci de scha, sollicitati, rivelli a, e estenci de-

tor leom nen jueto. Nam heres Beese, pertum al, shekatti vata, ultrias et, tellas. Dance allegat, texte est carcinate and common orange ofton meriton a ni. Meh se cert et nils banderett melles. Suppombes et masse. Crea nez ante. Pedintetospe a nulls. Cum sociae matepar penarhine et magnic de partiel et nietze, recovert rifection mer. Alquana tincident urma. Nulls ullemoraper venthelunt murghe. Pedintetospe comes hatum murris.
Nella molecular pertitirer dinas. DoneNella molecular pertitirer dinas. Done-

van mierra.

Nicht medernach portitire dinna. Doues
Nicht mergepe noer, voltsprin als tincident titeliges, bleen. Vocames viterrafermatzins felik. Dones consumy pellorteoque ante. Plassellius adejecting sempersleh. Prois fermatzinz masous are quon. Sed
dinn turpis, molecule vitas, placerat a, molectie nore, los. Mascerans henitas. Nans ipsenn ligish, eletimal at, accument nec, stacipit a, penna. Merbit blandt highs fengitat

magna. Nunc eletifend consequat lorem. Sed lacinia milla vitae emim. Pedientespae tincidunt purus vel magna. Integer non enim. Prassent entenand nunc en purus. Donec bibendum quan in tollus. Nullam cursus pulvinar lectus. Donec et mi. Nun valputate metus en enim. Vostibalum pelien-

tesque felle en massa. Quique ullamorper placerat ipsem. Cras mbh. Mochi vel judo vinza henza tericidaru affrica. Lorena hjema follor sit annte, consecteture adspicitiqui del. In hahalthouse places dictimus. Integra tempos convalla angue. Ettam facilita. Nunc elumontum fermesteran vici. Amena placetamontum fermesteran vici. Amena placetamontum fermesteran vici. Amena placetamontum fermesteran vici. Amena placetatida del picture at
propriata vici. Amena placeta
placeta el propriata vici.

Manne vici. Nunc vici. Soutor.

Vernusse quie
tottore vicin. evice porta valuicula.

Fince marrie. Vorithehm luctus mith as tectus. Soil blownium, milin launtilus semper, leo vellt ultrichts tellus, ac vennant. Inquam pellentosqua, augus quis augittis praserus visi visi hai. Vorithehm denir percerat in applien martie pertitiva praerat in applien martie pertitiva. Vestifishem pertitiva. Valla facilità. Soil a turpio en lacus commodo facilità. Morti fringilli, sujuti tali, et visicali libero diri cusso dat. Morcini di applica in tarichi prodo l'este concerniti et augus, con la companio di committata que l'occi ac martie. Con unilsacienti et augus, con se marque. Con le committata que l'occi ac marque. Con le

Down 1

OPTIONALE PARAMETER, PACKAGES, ENVIRONMENTS

```
\documentclass
    [a4paper,12pt]
    {proc}
\usepackage{lipsum}
\begin{document}
\lipsum[1-4]
\begin{equation}
\end{equation}
\lipsum[5]
\end{document}
```

10

term kepen inker it unt, conscibered, and projecting dift. De prose dir. ordinalization of the control of the

dalos, sollettulia val, vist. Media azater kom toso justo. Nam house libero, pretium at, loborita vitas, shrinces et, sidlus. Donce alganet, toster and accumant liberabuta, saxt lipila alaptar sagua, vicina nal liberabuta sidera sidera sidera sidera sidera nal liberabuta sidera sidera sidera sidera sidera nal liberabuta sidera sidera sidera sidera social naturepe paradhos et majori del parturient mentes, moorten ridordun uras. Alla siguant incidant uras. Mila sidenoceper vonfulum trapis. Polientespre cureno lution murita.

Nills mileonade portitor disas. Done files end, congre non, voltept at, tincident trictipe, libros. Vivames viveras fermatamis felis. Dones consumy pellortosque ante. Piassellus adeptoring semper sibt. Penis formatura mason ac quans. Sed dism turpis, molecule viñas, placerat a, molettis nore, los. Mascermas herinis. Nam ipsum ligals, delified at, accumson noc, stacipta x, piems. Merbi blandis lippis fongista magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitue enim. Pellentesque tincidunt purus vel magna. Integer non enim. Prasesset esistenol unuc en purus. Donce bibendum quam in tellus. Nullam curous pulvinar lectus. Donce et mi. Nam vulqutate mettu est enim. Ventilehim pellen-

tempes fish en massa. Quiques ullamezeper placerat ipsran. Cras mish. Mochi vel judo vitae haces tentidarat ultricos. Lorem ipsem delor eit annet, consecteturar adiptoring ella. In lanhaltenses places detrumet. Integer tempes convalla angua. Ditam facilita. Nime delmentum fermestram veli. Amenu place tempes convalla angua. Ditam facilita. Nime delmentum fermestram veli. Amenu place fella odio placerat quan, ac pubrian el laprue eget etam. Nime vitas textor. Proin tempes sulla sit annet nich. Verenzus quitortore vitae rieses perta valuchai.

a = 5 miles the process of the process of the section of the s

Page 1

Stackexchange, Manuals

DOKUMENTSTRUKTUR

5

6

7

8

9

10

11

```
\documentclass[a4paper,12pt]{article}
\begin{document}
\section{My First Section}
    Seems obvious enough\ldots
\section{Another Section}
    And this one has subsections!
    \subsection{Some Random Subsection}
        But wait, there's more!
        \subsubsection{Do Not Overdo It}
            Fair enough.
\end{document}
```

VERSION CONTROL

Binäre Dateien erzeugen gerne Merge-Konflikte, wenn sie häufig abgeändert werden. "Populäre" Kandidaten sind:

- *.synctex.gz-Datei: Dient zur Synchronisation zwischen Quellcode und der zugehörigen *.pdf-Datei.
- Alle *.pdf-Dateien, die aus धा-X kompiliert werden.

Empfehlung: Diese Dateien zu .gitignore oder Analogon hinzufügen.

Nicht zu empfehlen für Bilder und andere binäre Dateien, die im MEX-Dokument eingebunden sind.

DISPOSITION

FHNW Report Klasse: http://public.ime.fhnw.ch/LaTeX/

```
fhnwreport with example v22.zip
  beispiel fachbericht.pdf
  beispiel fachbericht.tex
__example.bib
__fhnw_ht_logo_de.pdf
  _fhnw ht logo en.pdf
  fhnwlogo.pdf
 _fhnwreport.cls
  IFFFabry, bib
 __IEEEfull.bib
  IEEEtran.bst
```

WEITERE RESSOURCEN

http://tex.stackexchange.com/ (üblicherweise via Suchmaschine)

http://texample.net (TikZ und PGF)

http://pgfplots.net (PGF Plots)

http://ctan.org (Package Dokumentationen)

https://www.overleaf.com (Collaborative Editing, Free & Paid Plans)

SUPPORT

- · e-Mail: raphael.frey@students.fhnw.ch
- · Raum 4.223
- https://github.com/alpenwasser/TeX/
- · Weiteres Programm: 26. April
 - · modulare Dokumentstruktur
 - · Bibliographie
 - Floats (Tabellen, Bilder, ...)
 - PGF/TikZ
 - · Listings, minted, ...
 - · etc. etc. etc.

FRAGEN?