

Paper Title

Firstname Lastname and Firstname Lastname

Institute

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Keywords: keyword1, keyword2

1 Introduction

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Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend

at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lect  donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

The remainder of the paper starts with a presentation of related work (Sect. 2). It is followed by a presentation of hints on L^AT_EX (Sect. 3). Finally, a conclusion is drawn and outlook on future work is made (Sect. 4).

2 Related Work

Winery [2] is a graphical  modeling tool. The whole idea of TOSCA is explained by Binz et al. [1].

3 LaTeX Hints

This section contains hints on writing LaTeX. It focuses on minimal examples, which can be directly adapted to the content

3.1 Handling of paragraphs

One sentence per line. This rule is important for the usage of version control systems. A new line is generated with a blank line. As you would do in Word: New paragraphs are generated by pressing enter. In LaTeX, this does not lead to a new paragraph as LaTeX joins subsequent lines. In case you want a new paragraph, just press enter twice (!). This leads to an empty line. In word, there is the functionality to press shift and enter. This leads to a hard line break. The text starts at the beginning of a new line. In LaTeX, you can do that by using two backslashes (`\`).

This is rarely used.

Please do *not* use two backslashes for new paragraphs. For instance, this sentence belongs to the same paragraph, whereas the last one started a new one. A long motivation for that is provided at <http://loopspace.mathforge.org/HowDidIDoThat/TeX/VCS/#section.3>.

Corresponding \LaTeX code of paper-minted-newtx.tex

```

419 One sentence per line.
420 This rule is important for the usage of version control systems.
421 A new line is generated with a blank line.
422 As you would do in Word:
423 New paragraphs are generated by pressing enter.
424 In LaTeX, this does not lead to a new paragraph as LaTeX joins
    ↪ subsequent lines.
425 In case you want a new paragraph, just press enter twice (!).
426 This leads to an empty line.
427 In word, there is the functionality to press shift and enter.
428 This leads to a hard line break.
429 The text starts at the beginning of a new line.
430 In LaTeX, you can do that by using two backslashes
    ↪ (\textbackslash\textbackslash).\
431 This is rarely used.
432
433 Please do \textit{not} use two backslashes for new paragraphs.
434 For instance, this sentence belongs to the same paragraph, whereas
    ↪ the last one started a new one.
435 A long motivation for that is provided at
    ↪ \url{http://loopspace.mathforge.org/HowDidIDoThat/TeX/VCS/#section.3}.

```

3.2 Notes separated from the text

The package mindflow enables writing down notes and annotations in a way so that they are separated from the main text.

This is a small note.

Corresponding \LaTeX code of paper-minted-newtx.tex

```

443 \begin{mindflow}
444 This is a small note.
445 \end{mindflow}

```

3.3 Hyphenation

\LaTeX automatically hyphenates words. When using microtype, there should be less hyphenations than in other settings. It might be necessary to tweak the hyphenations nevertheless. Here are some hints:

In case you write “application-specific”, then the word will only be hyphenated at the dash. You can also write applica\allowbreak{}tion-specific (result: application-specific), but this is much more effort.

You can now write words containing hyphens which are hyphenated at other places in the word. For instance, `application"=specific` gets `application"=specific`. This is enabled by an additional configuration of the `babel` package.

Corresponding \LaTeX code of `paper-minted-newtx.tex`

```

456 In case you write \enquote{application-specific}, then the word will
    ↪ only be hyphenated at the dash.
457 You can also write \verb!applica\allowbreak!tion-specific! (result:
    ↪ applica\allowbreak!tion-specific), but this is much more
    ↪ effort.
458
459 You can now write words containing hyphens which are hyphenated at
    ↪ other places in the word.
460 For instance, \verb!application"=specific! gets
    ↪ application"=specific.
461 This is enabled by an additional configuration of the babel package.

```

3.4 Typesetting Units

Numbers can written plain text (such as 100), by using the `siunitx` package like that: $100 \frac{\text{km}}{\text{h}}$, or by using plain \LaTeX (and math mode): $100 \frac{\text{km}}{\text{h}}$.

Corresponding \LaTeX code of `paper-minted-newtx.tex`

```

467 Numbers can written plain text (such as 100), by using the siunitx
    ↪ package like that:
468 \SI{100}{\km\per\hour},
469 or by using plain \LaTeX{} (and math mode):
470 $100 \frac{\mathit{km}}{h}$.

```

5 % of 10 kg

Corresponding \LaTeX code of `paper-minted-newtx.tex`

```

474 \SI{5}{\percent} of \SI{10}{kg}

```

Numbers are automatically grouped: 123 456.

Corresponding \LaTeX code of `paper-minted-newtx.tex`

```

478 Numbers are automatically grouped: \num{123456}.

```

3.5 Surrounding Text by Quotes

Please use the “`enquote` command” to quote something. Quoting with “`quote`” or “`quote`” also works.

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
484 Please use the \enquote{enquote command} to quote something.
485 Quoting with ``quote'' or ``quote'' also works.
486
```

3.6 Cleveref examples

Cleveref demonstration: Cref at beginning of sentence, cref in all other cases.

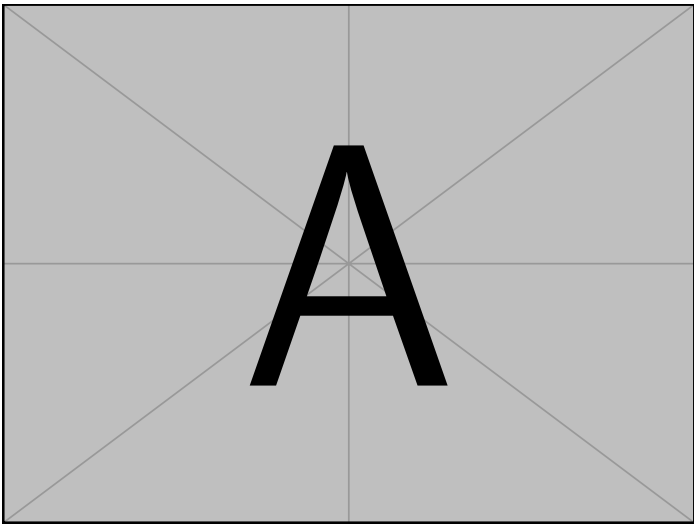


Fig. 1: Example figure for cref demo

Heading1 Heading2	
One	Two
Thee	Four

Table 1: Example table for cref demo

Figure 1 shows a simple fact, although Fig. 1 could also show something else.
Table 1 shows a simple fact, although Table 1 could also show something else.
Section 3.6 shows a simple fact, although Sect. 3.6 could also show something else.

Corresponding \LaTeX code of paper-minted-newtx.tex

```

516 \Cref{fig:ex:cref} shows a simple fact, although \cref{fig:ex:cref}
    ↪ could also show something else.
517
518 \Cref{tab:ex:cref} shows a simple fact, although \cref{tab:ex:cref}
    ↪ could also show something else.
519
520 \Cref{sec:ex:cref} shows a simple fact, although \cref{sec:ex:cref}
    ↪ could also show something else.

```

3.7 Figures

Figure 2 shows something interesting.



Fig. 2: Simple Figure. Based on Scharrer [3].

Corresponding \LaTeX code of paper-minted-newtx.tex

```

526 \Cref{fig:label} shows something interesting.
527
528 \begin{figure}
529   \centering
530   \includegraphics[width=.8\linewidth]{example-image-golden}
531   \caption[Simple Figure]{Simple Figure. Based on \citet{mwe}.}
532   \label{fig:label}
533 \end{figure}

```

One can also have pictures floating inside text:

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. $\sin^2(\alpha) + \cos^2(\beta) = 1$. If you read this text, you will get no information $E = mc^2$. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$. This text should contain all letters of the alphabet and it should be written in of the original language. $\frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \sqrt[n]{\frac{a}{b}}$. There is no need for special content, but the length of words should match the language. $a \sqrt[n]{b} = \sqrt[n]{a^n b}$. Hello, here is some text without a meaning. $d\Omega = \sin \vartheta d\vartheta d\varphi$. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. $\sin^2(\alpha) + \cos^2(\beta) = 1$. This text should contain all letters of the alphabet and it should be written in of the original language $E = mc^2$. There is no need for special content, but the length of words should match the language. $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$.

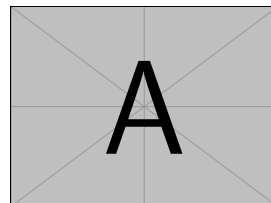


Fig. 3: A floating figure

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
540 \begin{floatingfigure}{.33\linewidth}
541 \includegraphics[width=.29\linewidth]{example-image-a}
542 \caption{A floating figure}
543 \end{floatingfigure}
544 \blindtext[2]
```

3.8 Sub Figures

An example of two sub figures is shown in Fig. 4.

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
553 \begin{figure}[!b]
554 \centering
555 \subfloat[Case
556 ↪ I]{\includegraphics[width=.4\linewidth]{example-image-a}%
557 \label{fig:first_case}}
558 \subfloat[Case
559 ↪ II]{\includegraphics[width=.4\linewidth]{example-image-b}%
560 \label{fig:second_case}}
561 \caption{Example figure with two sub figures.}
562 \label{fig:two_sub_figures}
563 \end{figure}
```

3.9 Tables

Table 2: Simple Table

Heading1 Heading2	
One	Two
Thee	Four

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
568 \begin{table}
569   \caption{Simple Table}
570   \label{tab:simple}
571   \centering
572   \begin{tabular}{ll}
573     \toprule
574     Heading1 & Heading2 \\
575     \midrule
576     One      & Two      \\
577     Thee     & Four     \\
578     \bottomrule
579   \end{tabular}
580 \end{table}
```

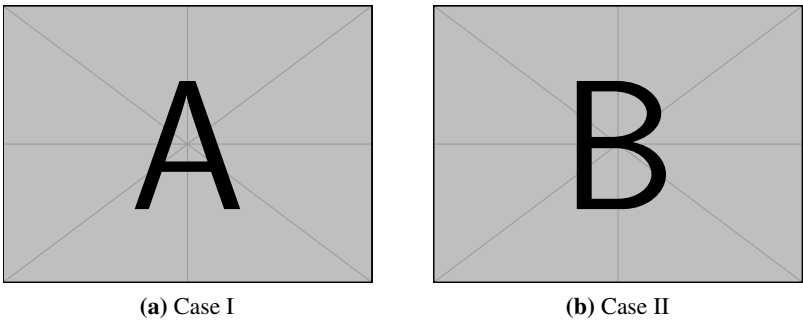


Fig. 4: Example figure with two sub figures.

Table 3: Table with diagonal line

Diag Column Head I	Diag Column Head II	Second	Third
		foo	bar

Corresponding L^AT_EX code of paper-minted-newtx.tex

```

584 % Source: https://tex.stackexchange.com/a/468994/9075
585 \begin{table}
586 \caption{Table with diagonal line}
587 \label{tab:diag}
588 \begin{center}
589 \begin{tabular}{|l|c|c|}
590 \hline
591 \diagbox[width=10em]{Diag\\Column Head I}{Diag Column\\Head II} &
    ↔ Second & Third \\
592 \hline
593 & foo & bar \\
594 \hline
595 \end{tabular}
596 \end{center}
597 \end{table}

```

3.10 Source Code

minted is a sophisticated packages to enable properly highlighted listings. It uses the pygments library, which in turn requires Python.

Listing 1 shows source code written in XML. line 2 contains a comment.

```

1 <listing name="example">
2   <!-- comment -->
3   <content>not interesting</content>
4 </listing>

```

List. 1: Example XML listing using minted

Corresponding L^AT_EX code of paper-minted-newtx.tex

```

607 \Cref{lst:XML} shows source code written in XML.
608 \refline{line:comment} contains a comment.
609
610 \begin{listing}[htbp]
611     \begin{minted}[linenos=true,escapeinside=||]{xml}
612     <listing name="example">
613         <!-- comment --> |\labelline{line:comment}|
614         <content>not interesting</content>
615     </listing>
616 \end{minted}
617 \caption{Example XML listing using minted}
618 \label{lst:XML}
619 \end{listing}

```

One can also typeset JSON as shown in Listing 2.

```

1 {
2   key: "value"
3 }

```

List. 2: Example JSON listing using minted

Corresponding L^AT_EX code of paper-minted-newtx.tex

```

625 \begin{listing}[htbp]
626     \begin{minted}[linenos=true,escapeinside=||]{json}
627     {
628         key: "value"
629     }
630 \end{minted}
631 \caption{Example JSON listing using minted}
632 \label{lst:flJSON}
633 \end{listing}

```

Java is also possible as shown in ??.

```

1 public class Hello {
2     public static void main (String[] args) {
3         System.out.println("Hello World!");
4     }
5 }

```

List. 3: Java code rendered using minted

Corresponding L^AT_EX code of paper-minted-newtx.tex

```

639 \begin{listing}[htbp]
640     \begin{minted}[linenos=true,escapeinside=||]{java}
641     public class Hello {
642         public static void main (String[] args) {
643             System.out.println("Hello World!");
644         }
645     }
646 \end{minted}
647 \caption{Java code rendered using minted}
648 \label{lst:java}
649 \end{listing}

```

3.11 Itemization

One can list items as follows:

- Item One
- Item Two

Corresponding L^AT_EX code of paper-minted-newtx.tex

```

657 \begin{itemize}
658 \item Item One
659 \item Item Two
660 \end{itemize}

```

One can enumerate items as follows:

1. Item One
2. Item Two

Corresponding L^AT_EX code of paper-minted-newtx.tex

```

667 \begin{enumerate}
668 \item Item One
669 \item Item Two
670 \end{enumerate}

```

With paralist, one can even have all items typset after each other and have them clean in the tex document:

1. All these items...
2. ...appear in one line
3. This is enabled by the paralist package.

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
677 \begin{inparaenum}
678   \item All these items...
679   \item ...appear in one line
680   \item This is enabled by the paralist package.
681 \end{inparaenum}
```

3.12 Other Features

The words “workflow” and “dwarflike” can be copied from the PDF and pasted to a text file.

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
687 The words \enquote{workflow} and \enquote{dwarflike} can be copied
    ↪ from the PDF and pasted to a text file.
```

The symbol for powerset is now correct: \wp and not a Weierstrass p (\wp).
 $\wp(1, 2, 3)$

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
691 The symbol for powerset is now correct:  $\wp$  and not a
    ↪ Weierstrass p ( $\wp$ ).
692
693  $\wp(\{1, 2, 3\})$ 
```

Brackets work as designed: <test> One can also input backquotes in verbatim text: `test`.

Corresponding L^AT_EX code of paper-minted-newtx.tex

```
697 Brackets work as designed:
698 <test>
699 One can also input backquotes in verbatim text: \verb|`test`|.
```

4 Conclusion and Outlook

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Acknowledgments Identification of funding sources and other support, and thanks to individuals and groups that assisted in the research and the preparation of the work should be included in an acknowledgment section, which is placed just before the reference section in your document [4].

In the bibliography, use `\textsuperscript` for “st”, “nd”, . . . : E.g., “The 2nd conference on examples”. When you use JabRef, you can use the clean up command to achieve that. See <https://help.jabref.org/en/CleanupEntries> for an overview of the cleanup functionality.

References

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All links were last followed on October 5, 2020.