

Paper Title

Firstname Lastname and Firstname Lastname

Institute

Abstract. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer 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.

Keywords: First keyword · Second keyword · Third keyword

1 Introduction

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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.

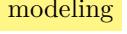
Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac

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 lectus. Donec et  am vulputate metus eu enim. Vestibulum pellentesque felis eu massa.TODO!

The remainder of the paper starts with a presentation of related work (Sect. 2). It is followed by a presentation of hints on \LaTeX (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 L^AT_EX code of ./paper.tex

```

645 \begin{itemize}
646 One sentence per line.
647 This rule is important for the usage of version control systems.
648 A new line is generated with a blank line.
649 As you would do in Word:
650 New paragraphs are generated by pressing enter.
651 In LaTeX, this does not lead to a new paragraph as LaTeX joins
   subsequent lines.
652 In case you want a new paragraph, just press enter twice!
653 This leads to an empty line.
654 In word, there is the functionality to press shift and enter.
655 This leads to a hard line break.
656 The text starts at the beginning of a new line.
657 In LaTeX, you can do that by using two backslashes
   (\textbackslash\textbackslash).
658 \\\\
659 This is rarely used.
660
661 Please do \textit{not} use two backslashes for new paragraphs.
662 For instance, this sentence belongs to the same paragraph,
   whereas the last one started a new one.
663 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 L^AT_EX code of ./paper.tex

```

670 \begin{itemize}
671 \begin{mindflow}
672 This is a small note.
673 \end{mindflow}

```

3.3 Handling TODOs

Markierter Text.

Corresponding L^AT_EX code of ./paper.tex

```
678 œEúÜöÖ
679 \textmarker{Markierter Text.}
```

Bei \textmarker wird nur die Textfarbe geändert, da dies auch bei einigen Worten gut funktioniert.

 Markierter Text.

Corresponding L^AT_EX code of ./paper.tex

```
684 œEúÜöÖ
685 \textcomment{Markierter Text.}{Kommentar dazu.}
```

Manuelle Markierung für Text, der seit der letzten Version geändert wurde.

Corresponding L^AT_EX code of ./paper.tex

```
688 œEúÜöÖ
689 \modified{Manuelle Markierung für Text, der seit der letzten
Version geändert wurde.}
```

 Das ist ein Text. **Geänderter Text.**

Corresponding L^AT_EX code of ./paper.tex

```
692 œEúÜöÖ
693 Das ist ein Text.
694 \change{FL1: Text angepasst}{Geänderter Text.}
```

 Hier nur ein Kommentar.

Corresponding L^AT_EX code of ./paper.tex

```
697 œEúÜöÖ
698 Hier nur ein Kommentar\sidecomment{Kommentar.}
```

 TODO!

Corresponding L^AT_EX code of ./paper.tex

```
701 œEúÜöÖ
702 \todo{Hier muss noch kräftig Text produziert werden}
```

3.4 Hyphenation

L^AT_EX automatically hyphenates words. When using microtype, there should be fewer 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 `\aplica\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 L^AT_EX code of `./paper.tex`

```

712 œEUÜÖÖ
713  In case you write \enquote{application-specific}, then the word
      will only be hyphenated at the dash.
714  You can also write \verb1\aplica\allowbreak{}tion-specific1
      (result: \aplica\allowbreak{}tion-specific), but this is
      much more effort.
715
716  You can now write words containing hyphens which are hyphenated
      at other places in the word.
717  For instance, \verb1\application"=specific1 gets
      \application"=specific.
718  This is enabled by an additional configuration of the babel
      package.

```

3.5 Typesetting Units

Numbers can be written plain text (such as 100), by using the siunitx package as follows: 100 $\frac{\text{km}}{\text{h}}$, or by using plain L^AT_EX (and math mode): 100 $\frac{\text{km}}{\text{h}}$.

Corresponding L^AT_EX code of `./paper.tex`

```

723  œEUÜÖÖ
724  Numbers can be written plain text (such as 100), by using the
      \href{https://ctan.org/pkg/siunitx}{siunitx} package as
      follows:
725  \SI{100}{\km\per\hour},
726  or by using plain \LaTeX{} (and math mode):
727  $100 \frac{\mathit{km}}{\mathit{h}}$.

```

5 % of 10 kg

Corresponding L^AT_EX code of ./paper.tex

```
730 \SI{5}{\percent} of \SI{10}{kg}
```

Numbers are automatically grouped: 123 456.

Corresponding L^AT_EX code of ./paper.tex

```
734 \SI{5}{\percent}
735 Numbers are automatically grouped: \num{123456}.
```

3.6 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.tex

```
740 \enquote{Please use the \enquote{enquote command} to quote something.
741 Quoting with ``quote'' or ```quote'' also works.}
```

3.7 Cleveref examples

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

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 3.7 shows a simple fact, although Sect. 3.7 could also show something else.

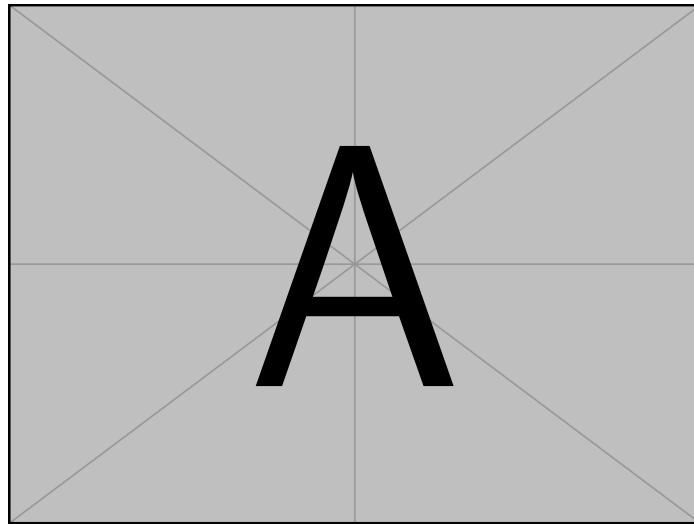


Fig. 1. Example figure for cref demo

Corresponding L^AT_EX code of ./paper.tex

```
772 \Cref{fig:ex:cref} shows a simple fact, although  
773   \cref{fig:ex:cref} could also show something else.  
774  
775 \Cref{tab:ex:cref} shows a simple fact, although  
776   \cref{tab:ex:cref} could also show something else.  
777 \Cref{sec:ex:cref} shows a simple fact, although  
    \cref{sec:ex:cref} could also show something else.
```

3.8 Figures

Figure 2 shows something interesting.



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

Corresponding L^AT_EX code of ./paper.tex

```

782 \begin{figure}
783   \Cref{fig:label} shows something interesting.
784
785   \begin{centering}
786     \includegraphics[width=.8\linewidth]{example-image-golden}
787   \end{centering}
788   \caption[Simple Figure]{%
789     Simple Figure.
790     Based on \citet{mwe}.
791   }
792   \label{fig:label}
793 \end{figure}
```

One can also have pictures floating inside text:

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.

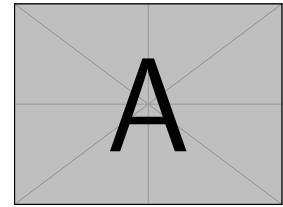


Fig. 3. A floating figure

Corresponding L^AT_EX code of ./paper.tex

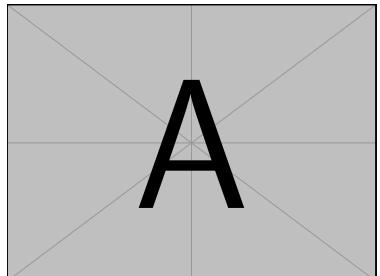
```

799  œEūÜöÖ
800  \begin{floatingfigure}{.33\linewidth}
801    \includegraphics[width=.29\linewidth]{example-image-a}
802    \caption{A floating figure}
803  \end{floatingfigure}
804  \lipsum[2]

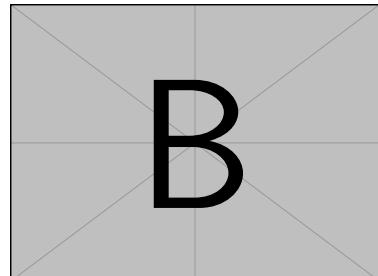
```

3.9 Sub Figures

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



(a) Case I



(b) Case II

Fig. 4. Example figure with two sub figures.

Corresponding LATEX code of ./paper.tex

```

811  \begin{figure}[!b]
812    \centering
813    \subfloat[Case I]{\includegraphics[width=.4\linewidth]{example-image-a}}
814      \label{fig:first_case}
815    \hfil
816    \subfloat[Case II]{\includegraphics[width=.4\linewidth]{example-image-b}}
817      \label{fig:second_case}
818    \caption{Example figure with two sub figures.}
819    \label{fig:two_sub_figures}
820  \end{figure}
821

```

3.10 Tables

Table 2. Simple Table

Heading1	Heading2
One	Two
Thee	Four

Corresponding LATEX code of ./paper.tex

```

826  \begin{table}
827    \begin{tabular}{ll}
828      \caption{Simple Table}
829      \label{tab:simple}
830      \centering
831      \begin{tabular}{ll}
832        \toprule
833        Heading1 & Heading2 \\
834        \midrule
835        One & Two \\
836        Thee & Four \\
837        \bottomrule
838      \end{tabular}
839    \end{table}

```

Table 3. Table with diagonal line

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

Corresponding L^AT_EX code of ./paper.tex

```

842 \begin{table}
843 % Source: https://tex.stackexchange.com/a/468994/9075
844 \caption{Table with diagonal line}
845 \label{tab:diag}
846 \begin{center}
847 \begin{tabular}{|l|c|c|}
848   \hline
849   \diagbox[width=10em]{Diag \\ Column Head I}{Diag
850     Column\\Head II} & Second & Third \\
851   \hline
852   & foo & bar
853   \hline
854   \end{tabular}
855 \end{center}
856 \end{table}

```

3.11 Source Code

Listing 1.1 shows source code written in XML. Listing 1.1 contains a comment.

```

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

```

Listing 1.1. Example XML Listing

```

1 <listing name="example">
2   Floating
3 </listing>
```

Listing 1.2. Example XML listing – placed as floating figure

Corresponding L^AT_EX code of ./paper.tex

```

862 œEUÜÓÓ
863 \Cref{lst:XML} shows source code written in XML.
864 \Cref{line:comment} contains a comment.
865
866 \begin{lstlisting}[
867   language=XML,
868   caption={Example XML Listing},
869   label={lst:XML}]
870 <listing name="example">
871   <!-- comment --> (* \label{line:comment} *)
872   <content>not interesting</content>
873 </listing>
874 \end{lstlisting}
```

One can also add `float` as parameter to have the listing floating. Listing 1.2 shows the floating listing.

Corresponding L^AT_EX code of ./paper.tex

```

880 œEUÜÓÓ
881 \begin{lstlisting}[
882   % one can adjust spacing here if required
883   % aboveskip=2.5\baselineskip,
884   % belowskip=-.8\baselineskip,
885   float,
886   language=XML,
887   caption={Example XML listing -- placed as floating figure},
888   label={lst:f1XML}]
889 <listing name="example">
890   Floating
891 </listing>
892 \end{lstlisting}
```

One can also typeset JSON as shown in Listing 1.3.

```

1 {
2   key: "value"
3 }
```

Listing 1.3. Example JSON listing – placed as floating figure

```

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

Listing 1.4. Example Java listing

Corresponding L^AT_EX code of ./paper.tex

```

897 \begin{lstlisting}[
898   float,
899   language=json,
900   caption={Example JSON listing -- placed as floating figure},
901   label=lst:json]
902 {
903   key: "value"
904 }
905 \end{lstlisting}
```

Java is also possible as shown in Listing 1.4.

Corresponding L^AT_EX code of ./paper.tex

```

911 \begin{lstlisting}[
912   caption={Example Java listing},
913   label=lst:java,
914   language=Java,
915   float]
916 public class Hello {
917   public static void main (String[] args) {
918     System.out.println("Hello World!");
919   }
920 }
921 \end{lstlisting}
```

3.12 Itemization

One can list items as follows:

- Item One
- Item Two

Corresponding L^AT_EX code of ./paper.tex

```
929 \begin{itemize}
930   \item Item One
931   \item Item Two
932 \end{itemize}
```

One can enumerate items as follows:

1. Item One
2. Item Two

Corresponding L^AT_EX code of ./paper.tex

```
939 \begin{enumerate}
940   \item Item One
941   \item Item Two
942 \end{enumerate}
```

With paralist, one can even have all items typeset 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.tex

```
949 \begin{inparaenum}
950   \item All these items...
951   \item ...appear in one line
952   \item This is enabled by the paralist package.
953 \end{inparaenum}
```

3.13 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.tex

```
959 \wp
960 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.tex

```
963 \wp
964 The symbol for powerset is now correct: \$\powerset\$ and not a
     Weierstrass p (\$wp\$).
965
966 \$\powerset(\{1,2,3}\)$
```

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

Corresponding L^AT_EX code of ./paper.tex

```
969 \wp
970 Brackets work as designed:
971 <test>
972 One can also input backticks 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.