

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

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.

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.

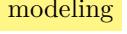
Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac

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-minted.tex

```

577 One sentence per line.
578 This rule is important for the usage of version control
   ↵ systems.
579 A new line is generated with a blank line.
580 As you would do in Word:
581 New paragraphs are generated by pressing enter.
582 In LaTeX, this does not lead to a new paragraph as LaTeX joins
   ↵ subsequent lines.
583 In case you want a new paragraph, just press enter twice!
584 This leads to an empty line.
585 In word, there is the functionality to press shift and enter.
586 This leads to a hard line break.
587 The text starts at the beginning of a new line.
588 In LaTeX, you can do that by using two backslashes
   ↵ (\textbackslash\textbackslash).
589 \\\\
590 This is rarely used.
591
592 Please do \textit{not} use two backslashes for new paragraphs.
593 For instance, this sentence belongs to the same paragraph,
   ↵ whereas the last one started a new one.
594 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-minted.tex

```

602 \begin{mindflow}
603 This is a small note.
604 \end{mindflow}

```

3.3 Handling TODOs

Markierter Text.

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

```

610 \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-minted.tex

```
616 \textcomment{Markierter Text.}{Kommentar dazu.}
```

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

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

```
620 \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-minted.tex

```
624 Das ist ein Text.  
625 \change{FL1: Text angepasst}{Geänderter Text.}
```

 Hier nur ein Kommentar.

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

```
629 Hier nur ein Kommentar\sidecomment{Kommentar.}
```

 TODO!

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

```
633 \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 `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 L^AT_EX code of ./paper-minted.tex

```

644 In case you write \enquote{application-specific}, then the
   ↵ word will only be hyphenated at the dash.
645 You can also write \verb1applica\allowbreak{}tion-specific1
   ↵ (result: applica\allowbreak{}tion-specific), but this is
   ↵ much more effort.
646
647 You can now write words containing hyphens which are
   ↵ hyphenated at other places in the word.
648 For instance, \verb1application"=specific1 gets
   ↵ application"=specific.
649 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-minted.tex

```

655 Numbers can be written plain text (such as 100), by using the
   ↵ \href{https://ctan.org/pkg/siunitx}{siunitx} package as
   ↵ follows:
656 \SI{100}{\km\per\hour},
657 or by using plain \LaTeX{} (and math mode):
658 $100 \frac{\mathit{km}}{\mathit{h}}$.

```

5 % of 10 kg

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

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

Numbers are automatically grouped: 123 456.

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

```
666 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-minted.tex

```
672 Please use the \enquote{enquote command} to quote something.  
673 Quoting with ``quote'' or ```quote'' also works.  
674
```

3.7 Cleveref examples

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

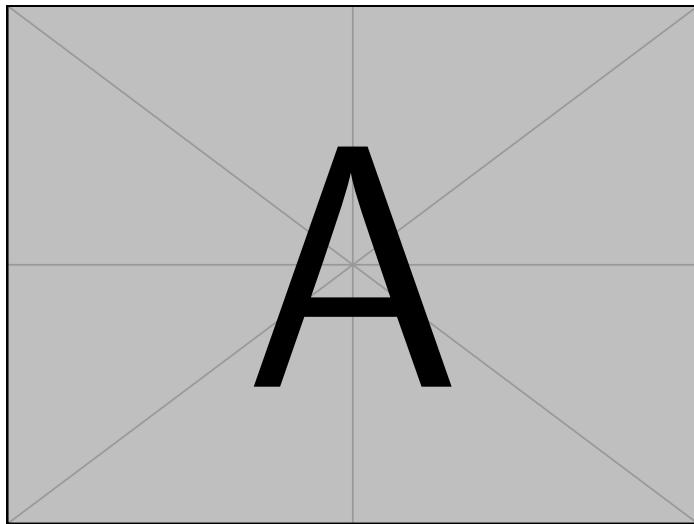


Fig. 1: Example figure for cref demo

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

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

```
704 \Cref{fig:ex:cref} shows a simple fact, although
    ↳ \cref{fig:ex:cref} could also show something else.
705
706 \Cref{tab:ex:cref} shows a simple fact, although
    ↳ \cref{tab:ex:cref} could also show something else.
707
708 \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-minted.tex

```
714 \Cref{fig:label} shows something interesting.  
715  
716 \begin{figure}  
717   \centering  
718   \includegraphics[width=.8\linewidth]{example-image-golden}  
719   \caption[Simple Figure]{  
720     Simple Figure.  
721     Based on \citet{mwe}.  
722   }  
723   \label{fig:label}  
724 \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.

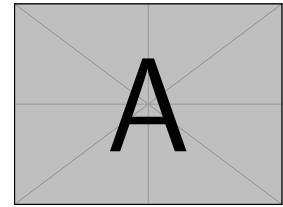


Fig. 3: A floating figure

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

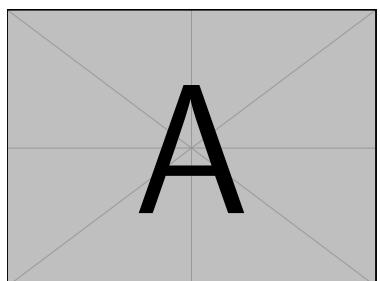
```

731 \begin{floatingfigure}{.33\linewidth}
732   \includegraphics[width=.29\linewidth]{example-image-a}
733   \caption{A floating figure}
734 \end{floatingfigure}
735 \lipsum[2]

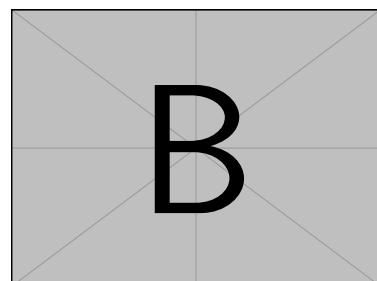
```

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 L^AT_EX code of ./paper-minted.tex

```

743 \begin{figure}[!b]
744   \centering
745   \subfloat[Case I]{\includegraphics[width=.4\linewidth]{example-image-a}}
746   \label{fig:first_case}
747   \hfil
748   \subfloat[Case II]{\includegraphics[width=.4\linewidth]{example-image-b}}
749   \label{fig:second_case}
750   \caption{Example figure with two sub figures.}
751   \label{fig:two_sub_figures}
752 \end{figure}

```

3.10 Tables

Table 2: Simple Table

Heading1	Heading2
One	Two
Thee	Four

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

```

758 \begin{table}
759   \caption{Simple Table}
760   \label{tab:simple}
761   \centering
762   \begin{tabular}{ll}
763     \toprule
764     Heading1 & Heading2 \\
765     \midrule
766     One & Two \\
767     Thee & Four \\
768     \bottomrule
769   \end{tabular}
770 \end{table}

```

Table 3: Table with diagonal line

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

Corresponding LATEX code of ./paper-minted.tex

```

774 % Source: https://tex.stackexchange.com/a/468994/9075
775 \begin{table}
776   \caption{Table with diagonal line}
777   \label{tab:diag}
778   \begin{center}
779     \begin{tabular}{|l|c|c|} \hline
780       & Diag & Column Head I \\ \hline
781       & Diag & Column Head II & Second & Third \\ \hline
782       & & & & \\ \hline
783       & & & & \\ \hline
784       & & & & \\ \hline
785     \end{tabular}
786   \end{center}
787 \end{table}

```

3.11 Source Code

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

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

```

1
2
3 notinteresting
4

```

List. 1: Example XML listing using minted

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

```

797 \Cref{lst:XML} shows source code written in XML.
798 \refline{line:comment} contains a comment.
799
800 \begin{listing}[htbp]
801   \begin{minted}[linenos=true,escapeinside=||]{xml}
802 <listing name="example">
803   <!-- comment --> |\label{line:comment}| 
804   <content>not interesting</content>
805 </listing>
806 \end{minted}
807 \caption{Example XML listing using minted}
808 \label{lst:XML}
809 \end{listing}
```

One can also typeset JSON as shown in Listing 2.

```

1
2
3
```

List. 2: Example JSON listing using minted

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

```

815 \begin{listing}[htbp]
816   \begin{minted}[linenos=true,escapeinside=||]{json}
817 {
818   key: "value"
819 }
820 \end{minted}
821 \caption{Example JSON listing using minted}
822 \label{lst:f1JSON}
823 \end{listing}
```

Java is also possible as shown in Listing 3.

```

1
2
3
4
5
```

List. 3: Java code rendered using minted

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

```

829 \begin{listing}[htbp]
830   \begin{minted}[linenos=true,escapeinside=||]{java}
831     public class Hello {
832       public static void main (String[] args) {
833         System.out.println("Hello World!");
834       }
835     }
836   \end{minted}
837   \caption{Java code rendered using minted}
838   \label{lst:f1Java}
839 \end{listing}
```

3.12 Itemization

One can list items as follows:

- Item One
- Item Two

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

```

847 \begin{itemize}
848   \item Item One
849   \item Item Two
850 \end{itemize}
```

One can enumerate items as follows:

1. Item One
2. Item Two

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

```

857 \begin{enumerate}
858   \item Item One
859   \item Item Two
860 \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-minted.tex

```
867 \begin{inparaenum}
868   \item All these items...
869   \item ...appear in one line
870   \item This is enabled by the paralist package.
871 \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-minted.tex

```
877 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.tex

```
881 The symbol for powerset is now correct: \$\wp\$ and not a
     ↳ Weierstrass p (\$wp\$).
882
883 \$\wp(\{1, 2, 3\})\$
```

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

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

```
887 Brackets work as designed:
888 <test>
889 One can also input backticks in verbatim text: \verb|`test`|.
```

4 Conclusion and Outlook

Lore 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.

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

1. Binz, T., Breiter, G., Leymann, F., Spatzier, T.: Portable Cloud Services Using TOSCA. IEEE Internet Computing **16**(03), 80–85 (May 2012), ISSN 1089-7801, <https://doi.org/10.1109/mic.2012.43>
2. Kopp, O., et al.: Winery – A Modeling Tool for TOSCA-based Cloud Applications. In: Proceedings of 11th International Conference on Service-Oriented Computing (ICSOC’13), LNCS, vol. 8274, pp. 700–704, Springer Berlin Heidelberg (2013), https://doi.org/10.1007/978-3-642-45005-1_64
3. Scharrer, M.: The `mwe` Package (2017), URL <http://texdoc.net/mwe>
4. Veytsman, B.: Latex class for the association for computing machinery – acknowledgement information (Aug 2021), URL <https://github.com/borisveytsman/acmart/blob/1704c8bf7eee92a1515ff755f5118b6a22bb1f8e/samples/samples.dtx#L709>

All links were last followed on October 5, 2020.