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

2 Firstname Lastname and Firstname Lastname

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. Donemi. Nam 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.

Paper Title

```
Corresponding LATEX code of ./paper-minted-newtx.tex
560 One sentence per line.
_{561} This rule is important for the usage of version control
    \hookrightarrow systems.
_{\rm 562} A new line is generated with a blank line.
563 As you would do in Word:
564 New paragraphs are generated by pressing enter.
_{\rm 565} In LaTeX, this does not lead to a new paragraph as LaTeX joins
    \,\,\,\hookrightarrow\,\,\,\,\text{subsequent lines}.
_{\rm 566} In case you want a new paragraph, just press enter twice!
567 This leads to an empty line.
568 In word, there is the functionality to press shift and enter.
569 This leads to a hard line break.
_{\mbox{\scriptsize 570}} The text starts at the beginning of a new line.
_{\mbox{\scriptsize 571}} In LaTeX, you can do that by using two backslashes
    572
573 This is rarely used.
575 Please do \textit{not} use two backslashes for new paragraphs.
{\ensuremath{^{576}}} For instance, this sentence belongs to the same paragraph,
    577 A long motivation for that is provided at \url{http://}
    \label{eq:composition} \mbox{$\tiny \hookrightarrow$} \mbox{ 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

585 \begin{mindflow}
586 This is a small note.
587 \end{mindflow}
```

3.3 Handling TODOs

Markierter Text.

```
Corresponding LATEX code of ./paper-minted-newtx.tex

593 \textmarker{Markierter Text.}
```

4 Firstname Lastname and Firstname Lastname

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

Markierter Text.

```
Corresponding LATEX code of ./paper-minted-newtx.tex

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

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

```
Corresponding LATEX code of ./paper-minted-newtx.tex

603 \modified{Manuelle Markierung für Text, der seit der letzten

Greater Greate
```

Das ist ein Text. Geänderter Text.

```
Corresponding LATEX code of ./paper-minted-newtx.tex

607 Das ist ein Text.
608 \change{FL1: Text angepasst}{Geänderter Text}.
```

Hier nur ein Kommentar.

```
Corresponding LATEX code of ./paper-minted-newtx.tex

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

```
Corresponding LATEX code of ./paper-minted-newtx.tex

616 \todo{Hier muss noch kräftig Text produziert werden}
```

3.4 Hyphenation

LATEX 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: applica tion-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 Lagrange Code of ./paper-minted-newtx.tex

627 In case you write \enquote{application-specific}, then the

Graphy word will only be hyphenated at the dash.
628 You can also write \verb1applica\allowbreak{}tion-specific1

Gresult: applica\allowbreak{}tion-specific), but this is

Graphy much more effort.

629
630 You can now write words containing hyphens which are

Graphy hyphenated at other places in the word.
631 For instance, \verb1application"=specific1 gets

Graphication"=specific.
632 This is enabled by an additional configuration of the babel

Graphy package.
```

3.5 Typesetting Units

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

```
Corresponding LATEX code of ./paper-minted-newtx.tex

Numbers can be written plain text (such as 100), by using the href{https://ctan.org/pkg/siunitx}{siunitx} package as follows:

SI{100}{\km\per\hour},
or by using plain \LaTeX{} (and math mode):

100 \frac{\mathit{km}}{h}$.
```

5% of $10 \,\mathrm{kg}$

```
Corresponding LATEX code of ./paper-minted-newtx.tex

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

Numbers are automatically grouped: 123 456.

```
Corresponding LATEX code of ./paper-minted-newtx.tex

649 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 LATEX code of ./paper-minted-newtx.tex

655 Please use the \enquote{enquote command} to quote something.
656 Quoting with "`quote"' or ``quote'' also works.
657
```

3.7 Cleveref examples

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

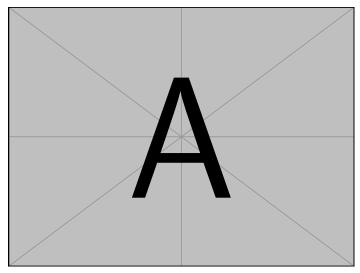


Fig. 1: Example figure for cref demo

Heading	g1 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 LATEX code of ./paper-minted-newtx.tex 687 \Cref{fig:ex:cref} shows a simple fact, although \$\(\tref\{\text{fig:ex:cref}\} \) could also show something else. 688 689 \Cref{tab:ex:cref} shows a simple fact, although \$\(\text{cref}\{\text{tab:ex:cref}\} \) could also show something else. 690 691 \Cref{sec:ex:cref} shows a simple fact, although \$\(\text{cref}\{\text{sec:ex:cref}\} \) could also show something else.

3.8 Figures

Figure 2 shows something interesting.

Golden ratio (Original size: 32.361×200 bp)

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

```
Corresponding LTEX code of ./paper-minted-newtx.tex

697 \Cref{fig:label} shows something interesting.

698
699 \begin{figure}
700 \centering
701 \includegraphics[width=.8\linewidth]{example-image-golden}
702 \caption[Simple Figure]{
703 Simple Figure.
704 Based on \citet{mwe}.
705 }
706 \label{fig:label}
707 \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

3.9 Sub Figures

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

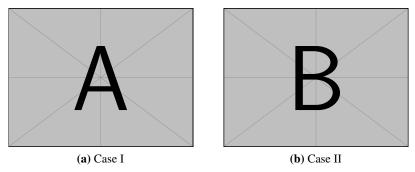


Fig. 4: Example figure with two sub figures.

$Corresponding \ \ \ \ \, \underline{ \ \ } \ \ \, \text{Code of ./paper-minted-newtx.tex}$ 726 \begin{figure}[!b] \centering 727 $\verb|\subfloat[Case I]{\clude graphics[width=.4\linewidth]{|}|}$ 728 example-image-a} % \label{fig:first_case}} 729 \hfil 730 \subfloat[Case II]{\includegraphics[width=.4\linewidth]{| 731 example-image-b} % \label{fig:second_case}} 732 \caption{Example figure with two sub figures.} 733 \label{fig:two_sub_figures} 734 735 \end{figure}

3.10 Tables

Table 2: Simple Table
Heading1 Heading2
One Two
Thee Four

```
Corresponding LATEX code of ./paper-minted-newtx.tex
741 \begin{table}
     \caption{Simple Table}
742
     \label{tab:simple}
     \centering
744
     \begin{tabular}{11}
745
       \toprule
746
       Heading1 & Heading2 \\
747
       \midrule
748
              & Two
749
       One
               & Four
       Thee
                            11
750
       \bottomrule
751
     \end{tabular}
752
753 \end{table}
```

Table 3: Table with diagonal line

Diag Column Head II Diag Column Head I		Third
	foo	bar

```
Corresponding LATEX code of ./paper-minted-newtx.tex
   % Source: https://tex.stackexchange.com/a/468994/9075
758 \begin{table}
     \caption{Table with diagonal line}
759
     \label{tab:diag}
760
     \begin{center}
761
       \begin{tabular}{||1|c|c|}
762
         \hline
         \diagbox[width=10em]{Diag \\Column Head I}{Diag
764

→ Column\\Head II} & Second & Third \\

         \hline
765
          & foo & bar
                                     11
         \hline
       \end{tabular}
     \end{center}
769
770 \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 2 contains a comment.

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

List. 1: Example XML listing using minted

Corresponding \LaTeX code of ./paper-minted-newtx.tex 780 \Cref{lst:XML} shows source code written in XML. 781 \refline{line:comment} contains a comment. 782 783 \begin{listing}[htbp] 784 \begin{minted}[linenos=true,escapeinside=||]{xml} 785 1sting name="example"> <!-- comment --> |\labelline{line:comment}| <content>not interesting</content> 787 788 </listing> 789 \end{minted} \caption{Example XML listing using minted} \label{lst:XML} 792 \end{listing}

One can also typeset JSON as shown in Listing 2.

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

List. 2: Example JSON listing using minted

Java is also possible as shown in Listing 3.

List. 3: Java code rendered using minted

```
Corresponding \LaTeX code of ./paper-minted-newtx.tex
812 \begin{listing}[htbp]
     \begin{minted}[linenos=true,escapeinside=||]{java}
814 public class Hello {
       public static void main (String[] args) {
815
            System.out.println("Hello World!");
816
817
818 }
   \end{minted}
819
     \caption{Java code rendered using minted}
820
     \label{lst:flJava}
822 \end{listing}
```

3.12 Itemization

One can list items as follows:

- Item One
- Item Two

```
Corresponding LATEX code of ./paper-minted-newtx.tex

830 \begin{itemize}
831 \item Item One
832 \item Item Two
833 \end{itemize}
```

One can enumerate items as follows:

- 1. Item One
- 2. Item Two

```
Corresponding LATEX code of ./paper-minted-newtx.tex

840 \begin{enumerate}
841 \item Item One
842 \item Item Two
843 \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 LATEX code of ./paper-minted-newtx.tex | S50 | \text{begin}{inparaenum} | | S51 | \text{item All these items...} | | S52 | \text{item ...appear in one line} | | S53 | \text{item This is enabled by the paralist package.} | | S54 | \end{inparaenum}

3.13 Other Features

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

```
Corresponding LATEX code of ./paper-minted-newtx.tex

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: ${\cal P}$ and not a Weierstrass p $(\wp).$ ${\cal P}(1,2,3)$

```
Corresponding LATEX code of ./paper-minted-newtx.tex

864 The symbol for powerset is now correct: $\powerset$ and not a

$\to$ Weierstrass p ($\wp$).

865

866 $\powerset({1,2,3})$
```

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

```
Corresponding LATEX code of ./paper-minted-newtx.tex

870 Brackets work as designed:
871 <test>
872 One can also input backticks in verbatim text: \verb|`test`|.
```

4 Conclusion and Outlook

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.

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
- 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
- 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.