

Paper Title

Firstname Lastname and Firstname Lastname

Institute

Abstract. 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.


Keywords: keyword1, keyword2

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 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 L^AT_EX code of paper-newtx.tex

```

481 One sentence per line.
482 This rule is important for the usage of version control systems.
483 A new line is generated with a blank line.
484 As you would do in Word:
485 New paragraphs are generated by pressing enter.
486 In LaTeX, this does not lead to a new paragraph as LaTeX joins
    subsequent lines.
487 In case you want a new paragraph, just press enter twice (!).
488 This leads to an empty line.
489 In word, there is the functionality to press shift and enter.
490 This leads to a hard line break.
491 The text starts at the beginning of a new line.
492 In LaTeX, you can do that by using two backslashes
    (\textbackslash\textbackslash).\
493 This is rarely used.
494
495 Please do \textit{not} use two backslashes for new paragraphs.
496 For instance, this sentence belongs to the same paragraph, whereas the
    last one started a new one.
497 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-newtx.tex

```

505 \begin{mindflow}
506 This is a small note.
507 \end{mindflow}

```

3.3 Hyphenation

L^AT_EX 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-newtx.tex`

```

518 In case you write \enquote{application-specific}, then the word will
    only be hyphenated at the dash.
519 You can also write \verb!applica\allowbreak!tion-specific! (result:
    applica\allowbreak!tion-specific), but this is much more effort.
520
521 You can now write words containing hyphens which are hyphenated at
    other places in the word.
522 For instance, \verb!application"=specific! gets application"=specific.
523 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-newtx.tex`

```

529 Numbers can written plain text (such as 100), by using the siunitx
    package like that:
530 \SI{100}{\km\per\hour},
531 or by using plain \LaTeX{} (and math mode):
532 $100 \frac{\mathit{km}}{\mathit{h}}$.
```

5 % of 10 kg

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

```

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

Numbers are automatically grouped: 123 456.

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

```

540 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-newtx.tex

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

3.6 Cleveref examples

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

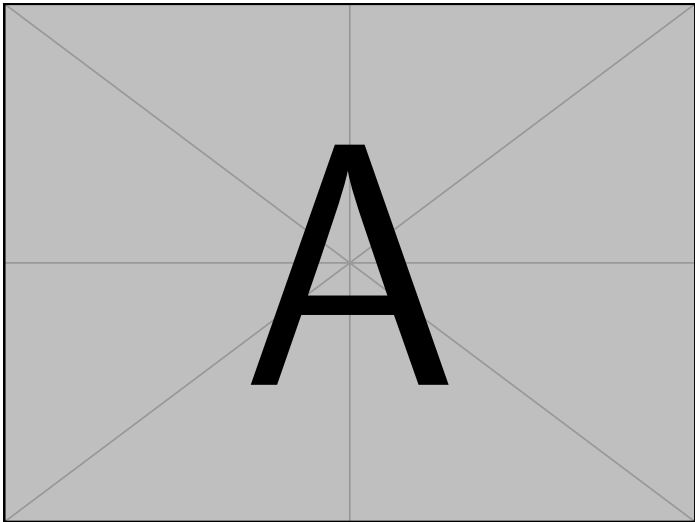


Fig. 1. Example figure for cref demo

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 L^AT_EX code of paper-newtx.tex

```

578 \Cref{fig:ex:cref} shows a simple fact, although \cref{fig:ex:cref}
      could also show something else.
579
580 \Cref{tab:ex:cref} shows a simple fact, although \cref{tab:ex:cref}
      could also show something else.
581
582 \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 L^AT_EX code of paper-newtx.tex

```

588 \Cref{fig:label} shows something interesting.
589
590 \begin{figure}
591   \centering
592   \includegraphics[width=.8\linewidth]{example-image-golden}
593   \caption[Simple Figure]{Simple Figure. Based on \citet{mwe}.}
594   \label{fig:label}
595 \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. $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$.

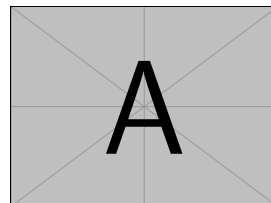


Fig. 3. A floating figure

Corresponding L^AT_EX code of paper-newtx.tex

```
602 \begin{floatingfigure}{.33\linewidth}
603 \includegraphics[width=.29\linewidth]{example-image-a}
604 \caption{A floating figure}
605 \end{floatingfigure}
606 \blindtext[2]
```

3.8 Sub Figures

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

Corresponding L^AT_EX code of paper-newtx.tex

```
615 \begin{figure}[!b]
616 \centering
617 \subfloat[Case
        I]{\includegraphics[width=.4\linewidth]{example-image-a}}
618 \label{fig:first_case}}
619 \hfil
620 \subfloat[Case
        II]{\includegraphics[width=.4\linewidth]{example-image-b}}
621 \label{fig:second_case}}
622 \caption{Example figure with two sub figures.}
623 \label{fig:two_sub_figures}
624 \end{figure}
```

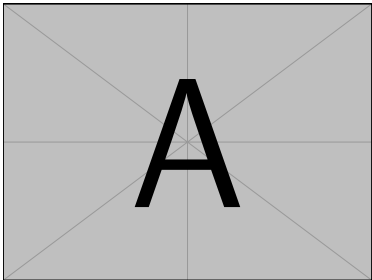
3.9 Tables

Table 2. Simple Table

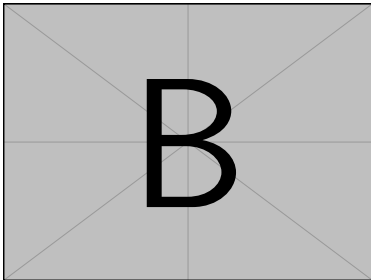
Heading1	Heading2
One	Two
Thee	Four

Corresponding L^AT_EX code of paper-newtx.tex

```
630 \begin{table}
631   \caption{Simple Table}
632   \label{tab:simple}
633   \centering
634   \begin{tabular}{ll}
635     \toprule
636     Heading1 & Heading2 \\
637     \midrule
638     One      & Two      \\
639     Thee     & Four     \\
640     \bottomrule
641   \end{tabular}
642 \end{table}
```



(a) Case I



(b) Case II

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 \LaTeX code of paper-newtx.tex

```
646 % Source: https://tex.stackexchange.com/a/468994/9075
647 \begin{table}
648 \caption{Table with diagonal line}
649 \label{tab:diag}
650 \begin{center}
651 \begin{tabular}{|l|c|c|}
652 \hline
653 \diagbox[width=10em]{Diag\\Column Head I}{Diag Column\\Head II} &
        Second & Third \\
654 \hline
655 & foo & bar \\
656 \hline
657 \end{tabular}
658 \end{center}
659 \end{table}
```

3.10 Source Code

Listing 1.1 shows source code written in XML. Line 2 contains a comment.

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

Listing 1.1. Example XML Listing

```

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

```

Listing 1.2. Example XML listing – placed as floating figure

```

1 {
2   key: "value"
3 }

```

Listing 1.3. Example JSON listing – placed as floating figure

Corresponding L^AT_EX code of paper-newtx.tex

```

666 \Cref{lst:XML} shows source code written in XML.
667 \Cref{line:comment} contains a comment.
668
669 \begin{lstlisting}[
670   language=XML,
671   caption={Example XML Listing},
672   label={lst:XML}]
673 <listing name="example">
674   <!-- comment --> (* \label{line:comment} *)
675   <content>not interesting</content>
676 </listing>
677 \end{lstlisting}

```

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

Corresponding L^AT_EX code of paper-newtx.tex

```

684 \begin{lstlisting}[
685   % one can adjust spacing here if required
686   % aboveskip=2.5\baselineskip,
687   % belowskip=-.8\baselineskip,
688   float,
689   language=XML,
690   caption={Example XML listing -- placed as floating figure},
691   label={lst:flXML}]
692 <listing name="example">
693   Floating
694 </listing>
695 \end{lstlisting}

```

One can also typeset JSON as shown in Listing 1.3.

```

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-newtx.tex

```

701 \begin{lstlisting}[
702     float,
703     language=json,
704     caption={Example JSON listing -- placed as floating figure},
705     label={lst:json}]
706 {
707     key: "value"
708 }
709 \end{lstlisting}

```

Java is also possible as shown in Listing 1.4.

Corresponding L^AT_EX code of paper-newtx.tex

```

715 \begin{lstlisting}[
716     caption={Example Java listing},
717     label=lst:java,
718     language=Java,
719     float]
720 public class Hello {
721     public static void main (String[] args) {
722         System.out.println("Hello World!");
723     }
724 }
725 \end{lstlisting}

```

3.11 Itemization

One can list items as follows:

- Item One
- Item Two

Corresponding L^AT_EX code of paper-newtx.tex

```

733 \begin{itemize}
734 \item Item One
735 \item Item Two
736 \end{itemize}

```

One can enumerate items as follows:

1. Item One
2. Item Two

Corresponding L^AT_EX code of paper-newtx.tex

```

743 \begin{enumerate}
744 \item Item One
745 \item Item Two
746 \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-newtx.tex

```

753 \begin{inparaenum}
754 \item All these items...
755 \item ...appear in one line
756 \item This is enabled by the paralist package.
757 \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-newtx.tex

```

763 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-newtx.tex

```

767 The symbol for powerset is now correct:  $\mathcal{P}$  and not a
      Weierstrass  $p$  ( $\wp$ ).
768
769  $\mathcal{P}(\{1,2,3\})$ 

```

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

Corresponding L^AT_EX code of paper-newtx.tex

```

773 Brackets work as designed:
774 <test>
775 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.