Paper Title

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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

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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 lectonec 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 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 LATEX code of paper-newtx.tex One sentence per line. 481 This rule is important for the usage of version control systems. 482 A new line is generated with a blank line. 483 As you would do in Word: New paragraphs are generated by pressing enter. 485 In LaTeX, this does not lead to a new paragraph as LaTeX joins subsequent lines. 486 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. 491 In LaTeX, you can do that by using two backslashes (\textbackslash\textbackslash).\\ This is rarely used. 492 493 Please do \textit{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 \url{http://loopspace.mathforge.org/HowDidIDoThat/TeX/VCS/#section.3}.

3.2 Hyphenation

LATEX automatically hyphenates words. When using microtype, there should be less hypnetations 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 LATEX code of paper-newtx.tex

507 In case you write \enquote{application-specific}, then the word will only be hyphenated at the dash.

508 You can also write \verblapplica\allowbreak{}tion-specific1 (result: applica\allowbreak{}tion-specific), but this is much more effort.

509

510 You can now write words containing hyphens which are hyphenated at other places in the word.

511 For instance, \verblapplication"=specific1 gets application"=specific.

512 This is enabled by an additional configuration of the babel package.
```

3.3 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

518 Numbers can written plain text (such as 100), by using the siunitx package like that:
519 \SI{100}{\km\per\hour},
520 or by using plain \LaTeX{} (and math mode):
521 $100 \frac{\mathit{km}}{h}$.
```

5 % of 10 kg

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

 $_{525} \ \SI\{5\}\{\percent\} \ of \SI\{10\}\{kg\}$

Numbers are automatically grouped: 123 456.

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

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

3.4 Surrounding Text by Quotes

Please use the "enquote command" to quote something. Quoting with "quote" or "quote" also works.

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

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

3.5 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

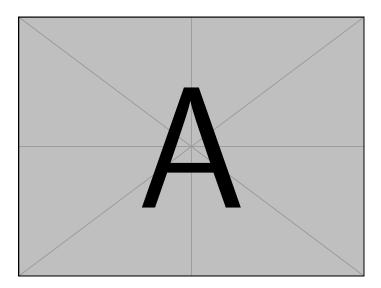


Fig. 1. Example figure for cref demo

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 3.5 shows a simple fact, although Sect. 3.5 could also show something else.

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

566 \Cref{fig:ex:cref} shows a simple fact, although \cref{fig:ex:cref} could also show something else.

567 \Cref{tab:ex:cref} shows a simple fact, although \cref{tab:ex:cref} could also show something else.

569 \Cref{sec:ex:cref} shows a simple fact, although \cref{sec:ex:cref} could also show something else.
```

3.6 Figures

Figure 2 shows something interesting.

6

Golden ratio

(Original size: 32.361×200 bp)

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

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

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

576

577 \begin{figure}
578 \centering
579 \includegraphics[width=.8\linewidth]{example-image-golden}
580 \caption[Simple Figure]{Simple Figure. Based on \citet{mwe}.}
581 \label{fig:label}
582 \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



Fig. 3. A floating figure

contain all letters of the alphabet and it should be written in of the original language. $\frac{\sqrt[q]{a}}{\sqrt[q]{b}} = \sqrt[n]{\frac{a}{b}}$. There is no need for special content, but the length of words should match the language. $a\sqrt[q]{b} = \sqrt[q]{a^nb}$. 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. $\sqrt[q]{a} \cdot \sqrt[q]{b} = \sqrt[q]{ab}$.

3.7 Sub Figures

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

```
Corresponding LATEX code of paper-newtx.tex
    \begin{figure}[!b]
603
        \centering
604
        \subfloat[Case
605
             I]{\includegraphics[width=.4\linewidth]{example-image-a}%
        \label{fig:first_case}}
606
      \hfil
607
        \subfloat[Case
             II]{\includegraphics[width=.4\linewidth]{example-image-b}%
        \label{fig:second_case}}
609
      \caption{Example figure with two sub figures.}
610
      \label{fig:two_sub_figures}
611
   \end{figure}
```

8

3.8 Tables

Table 2. Simple Table

Heading1	Heading2
One Thee	Two Four
THEE	roui

```
Corresponding LATEX code of paper-newtx.tex
618 \begin{table}
      \caption{Simple Table}
619
      \label{tab:simple}
620
      \centering
621
      \begin{tabular}{11}
622
623
        \toprule
        Heading1 & Heading2 \\
624
625
        \midrule
        One & Two
Thee & Four
626
627
        \verb|\bottomrule|
628
      \end{tabular}
629
   \end{table}
```

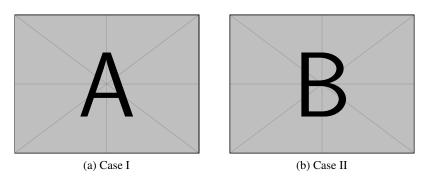


Fig. 4. Example figure with two sub figures.

Table 3. Table with diagonal line

Diag Column Head II Diag Column Head I		Third
	foo	bar

```
Corresponding LATEX code of paper-newtx.tex
634 % Source: https://tex.stackexchange.com/a/468994/9075
635 \begin{table}
636 \caption{Table with diagonal line}
637 \label{tab:diag}
   \begin{center}
638
639 \mathbf{begin}\{tabular\}\{|1|c|c|\}
640 \hline
{\tt 641} $$ \diagbox[width=10em]{Diag\Column Head I}{Diag Column\Head II} \& 
         Second & Third \\
642 \hline
643 & foo & bar \\
644 \hline
645 \end{tabular}
646 \end{center}
647 \end{table}
```

3.9 Source Code

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

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 LATEX code of paper-newtx.tex
   \Cref{lst:XML} shows source code written in XML.
   \Cref{line:comment} contains a comment.
655
656
657 \begin{lstlisting}[
    language=XML,
658
   caption={Example XML Listing},
659
    label={lst:XML}]
661 clisting name="example">
   <!-- comment --> (* \label{line:comment} *)
     <content>not interesting</content>
664 </listing>
665 \end{lstlisting}
```

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

```
Corresponding LATEX code of paper-newtx.tex
672 \begin{lstlisting}[
     % one can adjust spacing here if required
673
     % aboveskip=2.5\baselineskip,
     % belowskip=-.8\baselineskip,
     float,
    language=XML,
677
     caption={Example XML listing -- placed as floating figure},
678
    label={lst:flXML}]
679
680 clisting name="example">
    Floating
681
682 </listing>
683 \end{lstlisting}
```

One can also typeset JSON as shown in Listing 1.3.

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

Listing 1.4. Example Java listing

Java is also possible as shown in Listing 1.4.

```
Corresponding \LaTeX code of paper-newtx.tex
703 \begin{lstlisting}[
     caption={Example Java listing},
704
      label=lst:java,
705
     language=Java,
706
      float]
708 public class Hello {
         public static void main (String[] args) {
             System.out.println("Hello World!");
711
712 }
    \ensuremath{\setminus} end\{\ensuremath{\mathsf{lstlisting}}\}
713
```

3.10 Itemization

One can list items as follows:

- Item One
- Item Two

```
Corresponding LATEX code of paper-newtx.tex
721 \begin{itemize}
722 \item Item One
723 \item Item Two
724 \end{itemize}
```

One can enumerate items as follows:

- 1. Item One
- 2. Item Two

```
Corresponding LATEX code of paper-newtx.tex
731 \begin{enumerate}
     \item Item One
732
     \item Item Two
733
734 \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 LATEX code of paper-newtx.tex
741 \begin{inparaenum}
742
    \item All these items...
743
     \item ...appear in one line
    \item This is enabled by the paralist package.
744
745 \end{inparaenum}
```

3.11 Other Features

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

```
Corresponding LATEX code of paper-newtx.tex
751 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: \mathcal{P} and not a Weierstrass p (\wp). $\mathcal{P}(1,2,3)$

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

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

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

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

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

761 Brackets work as designed:
762 <test>
763 One can also input backquotes 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", \dots : E.g., "The 2^{nd} 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.

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