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

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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. Do

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-minted.tex

```
_{\rm 420} One sentence per line.
421 This rule is important for the usage of version control
    \hookrightarrow systems.
422 A new line is generated with a blank line.
423 As you would do in Word:
_{\rm 424} New paragraphs are generated by pressing enter.
425 In LaTeX, this does not lead to a new paragraph as LaTeX
    \rightarrow joins subsequent lines.
426 In case you want a new paragraph, just press enter twice (!).
   This leads to an empty line.
_{428} In word, there is the functionality to press shift and enter.
429 This leads to a hard line break.
430 The text starts at the beginning of a new line.
431 In LaTeX, you can do that by using two backslashes
    432 This is rarely used.
434 Please do \textit{not} use two backslashes for new
    → paragraphs.
435 For instance, this sentence belongs to the same paragraph,
    \hookrightarrow whereas the last one started a new one.
436 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: 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-minted.tex 447 In case you write \enquote{application-specific}, then the \$\to\$ word will only be hyphenated at the dash. 448 You can also write \verb1applica\allowbreak{}tion-specific1 \$\to\$ (result: applica\allowbreak{}tion-specific), but this is \$\to\$ much more effort. 449 450 You can now write words containing hyphens which are \$\to\$ hyphenated at other places in the word. 451 For instance, \verb1application"=specific1 gets \$\to\$ application"=specific. 452 This is enabled by an additional configuration of the babel \$\to\$ 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-minted.tex

Numbers can written plain text (such as 100), by using the

siunitx package like that:

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.tex

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

Numbers are automatically grouped: 123456.

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

469 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-minted.tex

475 Please use the \enquote{enquote command} to quote something.

476 Quoting with "`quote"' or ``quote'' also works.

477
```

3.5 Cleveref examples

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

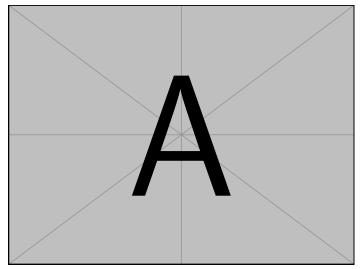


Fig. 1: Example figure for cref demo

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

Corresponding LATEX code of paper-minted.tex $_{506}$ \Cref{fig:ex:cref} shows a simple fact, although \Cref{tab:ex:cref} shows a simple fact, although → \cref{tab:ex:cref} could also show something else. 509 510 \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.

Golden ratio

(Original size: 32.361×200 bp)

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

Corresponding LATEX code of paper-minted.tex

```
\Cref{fig:label} shows something interesting.
517 \begin{figure}
518
     \centering
     \includegraphics[width=.8\linewidth] {example-image-golden}
519
     \caption[Simple Figure] {Simple Figure. Based on
520
     \label{fig:label}
521
522 \end{figure}
```

One can also have pictures floating inside text:

8

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.



Fig. 3: A floating figure

 $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$. 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. $a\sqrt[n]{b} = \sqrt[n]{a^nb}$. 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. $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$.

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

529 \begin{floatingfigure}{.33\linewidth}
530 \includegraphics[width=.29\linewidth]{example-image-a}
531 \caption{A floating figure}
532 \end{floatingfigure}
533 \blindtext[2]
```

3.7 Sub Figures

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

Corresponding LATEX code of paper-minted.tex \begin{figure}[!b] \centering \subfloat[Case → I]{\includegraphics[width=.4\linewidth]{example-image-a}% \label{fig:first_case}} 546 \hfil 547 \subfloat[Case 548 → II] {\includegraphics[width=.4\linewidth] {example-image-b}% \label{fig:second_case}} 549 \caption{Example figure with two sub figures.} 550 551 \label{fig:two_sub_figures} \end{figure}

3.8 Tables

Table 2: Simple Table

Heading1 Heading2		
One	Two	
Thee	Four	

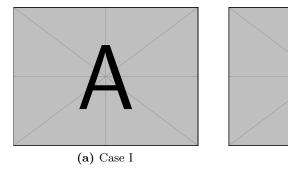


Fig. 4: Example figure with two sub figures.

(b) Case II

Corresponding LATEX code of paper-minted.tex 558 \begin{table} \caption{Simple Table} \label{tab:simple} \centering 561 \begin{tabular}{11} 562 \toprule 563 Heading1 & Heading2 \\ 564 \midrule 565 One & Two 566 567 Thee & Four \bottomrule 568 \end{tabular} 570 \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.tex
574 % Source: https://tex.stackexchange.com/a/468994/9075
575 \begin{table}
576 \caption{Table with diagonal line}
577 \label{tab:diag}
578 \begin{center}
579 \begin{tabular}{||1|c|c|}
580 \hline
\hookrightarrow II} & Second & Third \\
582 \hline
583 & foo & bar \\
584 \hline
585 \end{tabular}
586 \end{center}
587 \end{table}
```

3.9 Source Code

minted is a sophisticated packes 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.tex
   \Cref{lst:XML} shows source code written in XML.
    \refline{line:comment} contains a comment.
599
   \begin{listing}[htbp]
600
        \begin{minted} [linenos=true, escapeinside=||] {xml}
601
   <listing name="example">
602
      <!-- comment --> |\labelline{line:comment}|
603
      <content>not interesting</content>
604
605 </listing>
   \end{minted}
      \caption{Example XML listing using minted}
      \label{lst:XML}
609 \end{listing}
```

One can also typeset JSON as shown in Listing 2.

 ${\bf List.}$ 2: Example JSON listing using minted

Java is also possible as shown in ??.

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

 $\textbf{List. 3:} \ \text{Java code rendered using minted}$

```
Corresponding IATEX code of paper-minted.tex

begin{listing}[htbp]
begin{minted}[linenos=true,escapeinside=||]{java}

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

begin{minted}
beg
```

3.10 Itemization

One can list items as follows:

- Item One
- Item Two

Corresponding LATEX code of paper-minted.tex 647 \begin{itemize} 648 \item Item One 649 \item Item Two 650 \end{itemize}

One can enumerate items as follows:

- 1. Item One
- 2. Item Two

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

| begin{enumerate} |
| beg
```

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.

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-minted.tex

677 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-minted.tex

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

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

682
683 $\powerset({1,2,3})$
```

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

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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)
- 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)
- 3. Scharrer, M.: The mwe Package (2017), http://texdoc.net/mwe
- 4. Veytsman, B.: Latex class for the association for computing machinery acknowledgement information (Aug 2021), https://github.com/borisveytsman/acmart/blob/1704c8bf7eee92a1515ff755f5118b6a22bb1f8e/samples/samples.dtx#L709

All links were last followed on October 5, 2020.