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.

Paper Title

Corresponding LATEX code of paper-minted-newtx.tex

```
One sentence per line.
_{\rm 408}\, This rule is important for the usage of version control systems.
_{\rm 409}\, A new line is generated with a blank line.
410 As you would do in Word:
New paragraphs are generated by pressing enter.
412 In LaTeX, this does not lead to a new paragraph as LaTeX joins
    \hookrightarrow subsequent lines.
In case you want a new paragraph, just press enter twice (!).
414 This leads to an empty line.
_{
m 415} In word, there is the functionality to press shift and enter.
416 This leads to a hard line break.
417 The text starts at the beginning of a new line.
_{\mbox{\scriptsize 118}} In LaTeX, you can do that by using two backslashes
    419 This is rarely used.
Please do \textit{not} use two backslashes for new paragraphs.
422 For instance, this sentence belongs to the same paragraph, whereas
    \hookrightarrow the last one started a new one.
423 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.

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): $100 \frac{\text{km}}{h}$.

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

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

446 \SI{100}{\km\per\hour},

447 or by using plain \LaTeX{} (and math mode):

448 $100 \frac{\mathit{km}}{h}$.
```

5% of 10 kg

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

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

Numbers are automatically grouped: 123 456.

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

456 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-newtx.tex

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

464
```

3.5 Cleveref examples

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

Figure Fig. 1: Example figure for cref demo

Table **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.

3.6 Figures

Figure 2 shows something interesting.

Golden ratio

(Original size: 32.361×200 bp)

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

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. $\sqrt[q]{a} \cdot \sqrt[q]{b} = \sqrt[q]{ab}$. 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. $\sqrt[q]{a} \cdot \sqrt[q]{b} = \sqrt[q]{ab}$.

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

509 \begin{floatingfigure}{.33\linewidth}
510 \includegraphics[width=.29\linewidth]{example-image-a}
511 \caption{A floating figure}
512 \end{floatingfigure}
513 \blindtext[2]
```

3.7 Tables

Table 2: Simple Table

Heading1	Heading2
One	Two
Thee	Four

Corresponding \LaTeX code of paper-minted-newtx.tex 520 \begin{table} \caption{Simple Table} \label{tab:simple} 522 \centering 523 \begin{tabular}{ll} 524 \toprule 525 Heading1 & Heading2 \\ 526 527 \midrule 528 0ne & Two 529 Thee & Four // \bottomrule \end{tabular} 532 \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 536 % Source: https://tex.stackexchange.com/a/468994/9075 537 \begin{table} 538 \caption{Table with diagonal line} 539 \label{tab:diag} 540 \begin{center} 541 \begin{tabular}{|l|c|c|} 542 \hline 543 \diagbox[width=10em]{Diag\Column Head I}{Diag Column\Head II} & \$\iff \text{Second & Third \\} 544 \hline 545 & foo & bar \\ 546 \hline 547 \end{tabular} 548 \end{center} 549 \end{table}

3.8 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.

List. 1: Example XML listing using minted

```
Corresponding \LaTeX code of paper-minted-newtx.tex
559 \Cref{lst:XML} shows source code written in XML.
560 \refline{line:comment} contains a comment.
561
562 \begin{listing}[htbp]
       \begin{minted}[linenos=true,escapeinside=||]{xml}
563
564 sting name="example">
565
   <!-- comment --> |\labelline{line:comment}|
    <content>not interesting</content>
567 </listing>
568 \end{minted}
     \caption{Example XML listing using minted}
569
    \label{lst:XML}
570
571 \end{listing}
```

One can also typeset JSON as shown in Listing 2.

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!");
}
}
```

List. 3: Java code rendered using minted

3.9 Itemization

One can list items as follows:

- Item One
- Item Two

Corresponding LATEX code of paper-minted-newtx.tex 609 \begin{itemize} 610 \item Item One 611 \item Item Two 612 \end{itemize}

One can enumerate items as follows:

- 1. Item One
- 2. Item Two

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-minted-newtx.tex

begin{inparaenum}

item All these items...

item ...appear in one line

item This is enabled by the paralist package.

end{inparaenum}
```

3.10 Other Features

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

The symbol for powerset is now correct: $\mathscr P$ and not a Weierstrass p $(\mathscr P)$. $\mathscr P(1,2,3)$

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

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

∴ Weierstrass p ($\wp$).

644

645 $\powerset({1,2,3})$
```

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

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

649 Brackets work as designed:
650 <test>
651 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 ...

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.

References

- 1. Binz, T., Breiter, G., Leymann, F., Spatzier, T.: Portable Cloud Services Using TOSCA. IEEE Internet Computing 16(03), 80–85 (May 2012)
- 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

All links were last followed on October 5, 2020.