

# Paper Title

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## 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.

## ACM Reference Format:

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## 1 Introduction

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.

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ACM ISBN 978-x-xxxx-xxxx-x/YYYY/MM  
<https://doi.org/10.1145/9999997.9999999>

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 lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.TODO!

The remainder of the paper starts with a presentation of related work (Section 2). It is followed by a presentation of hints on  $\text{\LaTeX}$  (Section 3). Finally, a conclusion is drawn and outlook on future work is made (Section 4).

## 2 Related Work

Winery [2] is a graphical modeling tool. The whole idea of TOSCA is explained by Binz et al. [1].

## 3 $\text{\LaTeX}$ Hints

This section contains hints on writing  $\text{\LaTeX}$ . 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  $\text{\LaTeX}$ , this does not lead to a new paragraph as  $\text{\LaTeX}$  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  $\text{\LaTeX}$ , 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/\text{\TeX}/VCS/#section-3>.

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

447 One sentence per line.
448 This rule is important for the usage of version
    ↳ control systems.
449 A new line is generated with a blank line.
450 As you would do in Word:
451 New paragraphs are generated by pressing enter.
452 In LaTeX, this does not lead to a new paragraph as
    ↳ LaTeX joins subsequent lines.
453 In case you want a new paragraph, just press enter
    ↳ twice!
454 This leads to an empty line.
455 In word, there is the functionality to press shift
    ↳ and enter.
456 This leads to a hard line break.
457 The text starts at the beginning of a new line.
458 In LaTeX, you can do that by using two backslashes
    ↳ (\textbackslash\textbackslash).
459 \\
460 This is rarely used.
461
462 Please do \textit{not} use two backslashes for new
    ↳ paragraphs.
463 For instance, this sentence belongs to the same
    ↳ paragraph, whereas the last one started a new
    ↳ one.
464 A long motivation for that is provided at
    ↳ \url{http://loopspace.mathforge.org/}
    ↳ HowDidIDoThat/TeX/VCS/#section.3}.

```

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

490 \modified{Manuelle Markierung für Text, der seit der
    ↳ letzten Version geändert wurde.}

```

Das ist ein Text. **Geänderter Text.**

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

494 Das ist ein Text.
495 \change{FL1: Text angepasst}{Geänderter Text}.

```

Hier nur ein Kommentar.

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

499 Hier nur ein Kommentar\sidecomment{Kommentar}.

```

TODO!

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

503 \todo{Hier muss noch kräftig Text produziert werden}

```

### 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<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

472 \begin{mindflow}
473 This is a small note.
474 \end{mindflow}

```

### 3.3 Handling TODOs

**Markierte Text.**

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

480 \textmarker{Markierter Text.}

```

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

**Markierter Text.**

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

486 \textcomment{Markierter Text.}{Kommentar dazu.}

```

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

### 3.4 Hyphenation

L<sup>A</sup>T<sub>E</sub>X 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: 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 L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

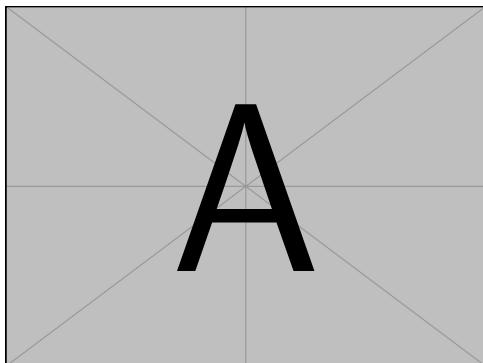
```

514 In case you write \enquote{application-specific},
    ↳ then the word will only be hyphenated at the
    ↳ dash.
515 You can also write
    ↳ \verb|applica\allowbreak{}tion-specific| (result:
    ↳ applica\allowbreak{}tion-specific), but this is
    ↳ much more effort.
516
517 You can now write words containing hyphens which are
    ↳ hyphenated at other places in the word.
518 For instance, \verb|application"=specific| gets
    ↳ application”=specific.
519 This is enabled by an additional configuration of the
    ↳ babel package.

```

### 3.5 Typesetting Units

Numbers can be written plain text (such as 100), by using the siunitx package as follows: 100  $\frac{\text{km}}{\text{h}}$ , or by using plain L<sup>A</sup>T<sub>E</sub>X (and math mode): 100  $\frac{\text{km}}{\text{h}}$ .

**Figure 1:** Example figure for cref demo

| Heading1 | Heading2 |
|----------|----------|
| One      | Two      |
| Thee     | Four     |

**Table 1:** Example table for cref demoCorresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

525 Numbers can be written plain text (such as 100), by
  ↳ using the
  ↳ \href{https://ctan.org/pkg/siunitx}{siunitx}
  ↳ package as follows:
526 \SI{100}{\km\per\hour},
527 or by using plain \LaTeX{} (and math mode):
528 $100 \frac{\mathit{km}}{h}$.

```

5 % of 10 kg

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

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

Numbers are automatically grouped: 123 456.

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
536 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 L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

542 Please use the \enquote{enquote command} to quote
  ↳ something.
543 Quoting with ``quote'' or ```quote'' also works.
544

```

### 3.7 Cleveref examples

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

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

Figure 1 shows a simple fact, although Figure 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 Section 3.7 could also show something else.

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

574 \Cref{fig:ex:cref} shows a simple fact, although
  ↳ \cref{fig:ex:cref} could also show something
  ↳ else.
575
576 \Cref{tab:ex:cref} shows a simple fact, although
  ↳ \cref{tab:ex:cref} could also show something
  ↳ else.
577
578 \Cref{sec:ex:cref} shows a simple fact, although
  ↳ \cref{sec:ex:cref} could also show something
  ↳ else.

```

## 3.8 Figures

Figure 2 shows something interesting.

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

584 \Cref{fig:label} shows something interesting.
585
586 \begin{figure}
587   \centering
588   \includegraphics[width=.8\linewidth]{example-}
  ↳ image-golden}
589   \caption[Simple Figure]{Simple Figure.
590   Based on \citet{mwe}.
591 }
592   \label{fig:label}
593 \end{figure}
594

```

## 3.9 Sub Figures

An example of two sub figures is shown in Figure 3.

**Table 2: Simple Table**

| Heading1 | Heading2 |
|----------|----------|
| One      | Two      |
| Thee     | Four     |

**Table 3: Table with diagonal line**

|                     |        |       |
|---------------------|--------|-------|
| Diag Column Head II | Second | Third |
| Diag Column Head I  | foo    | bar   |
|                     |        |       |

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

633 % Source: https://tex.stackexchange.com/a/468994/9075
634 \begin{table}
635   \caption{Table with diagonal line}
636   \label{tab:diag}
637   \begin{center}
638     \begin{tabular}{|l|c|c|} \hline
639       & foo & bar \\ \hline
640       & & \\ \hline
641       & & \\ \hline
642       & & \\ \hline
643       & & \\ \hline
644     \end{tabular}
645   \end{center}
646 \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 <listing name="example">
2   <!-- comment -->
3   <content>not interesting</content>
4 </listing>

```

**List. 1: Example XML listing using minted**Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

602 \begin{figure}[!b]
603   \centering
604   \subfloat[Case I]{\includegraphics[width=.4\textwidth]{example-image-a}}
605   \label{fig:first_case}
606   \hfil
607   \subfloat[Case II]{\includegraphics[width=.4\textwidth]{example-image-b}}
608   \label{fig:second_case}
609   \caption{Example figure with two sub figures.}
610   \label{fig:two_sub_figures}
611 \end{figure}

```

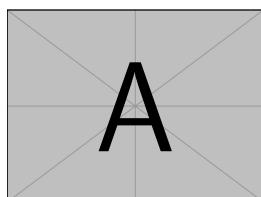
## 3.10 Tables

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

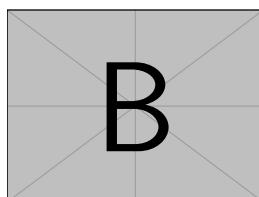
```

617 \begin{table}
618   \caption{Simple Table}
619   \label{tab:simple}
620   \centering
621   \begin{tabular}{ll}
622     \toprule
623     Heading1 & Heading2 \\
624     \midrule
625     One & Two \\
626     Thee & Four \\
627     \bottomrule
628   \end{tabular}
629 \end{table}

```



(a) Case I



(b) Case II

**Figure 3: Example figure with two sub figures.**Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

656 \Cref{lst:XML} shows source code written in XML.
657 \Rref{line:comment} contains a comment.
658
659 \begin{listing}[htbp]
660   \begin{minted}[linenos=true,escapeinside=||]{xml}
661     <listing name="example">
662       <!-- comment --> \label{line:comment}
663       <content>not interesting</content>
664     </listing>
665   \end{minted}
666   \caption{Example XML listing using minted}
667   \label{lst:XML}
668 \end{listing}

```

One can also typeset JSON as shown in Listing 2.

```

1 {
2   key: "value"
3 }

```

**List. 2: Example JSON listing using minted**Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```

674 \begin{listing}[htbp]
675   \begin{minted}[linenos=true,escapeinside=||]{json}
676   {
677     key: "value"
678   }
679   \end{minted}
680   \caption{Example JSON listing using minted}
681   \label{lst:fJSON}
682 \end{listing}

```

Java is also possible as shown in Listing 3.

```
1 public class Hello {
2     public static void main (String[] args) {
3         System.out.println("Hello World!");
4     }
5 }
```

List. 3: Java code rendered using minted

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
688 \begin{listing}[htbp]
689   \begin{minted}[linenos=true,escapeinside=||]{java}
690   public class Hello {
691     public static void main (String[] args) {
692       System.out.println("Hello World!");
693     }
694   }
695   \end{minted}
696   \caption{Java code rendered using minted}
697   \label{lst:f1Java}
698 \end{listing}
```

### 3.12 Itemization

One can list items as follows:

- Item One
- Item Two

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
706 \begin{itemize}
707   \item Item One
708   \item Item Two
709 \end{itemize}
```

With the package paralist, one can create itemizations with lesser spacing:

- Item One
- Item Two

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
715 \begin{compactitem}
716   \item Item One
717   \item Item Two
718 \end{compactitem}
```

One can enumerate items as follows:

- (1) Item One
- (2) Item Two

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
724 \begin{enumerate}
725   \item Item One
726   \item Item Two
727 \end{enumerate}
```

With the package paralist, one can create enumerations with lesser spacing:

- (1) Item One
- (2) Item Two

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

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

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<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
742 \begin{inparaenum}
743   \item All these items...
744   \item ...appear in one line
745   \item This is enabled by the paralist package.
746 \end{inparaenum}
```

### 3.13 Other Features

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

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
752 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<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
756 The symbol for powerset is now correct: \$\wpset\$
    ↳ and not a Weierstrass p (\$\\wp\$).
757
758 \$\wpset(\{1, 2, 3\})\$
```

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

Corresponding L<sup>A</sup>T<sub>E</sub>X code of ./paper-minted.tex

```
762 Brackets work as designed:
763 <test>
764 One can also input backticks in verbatim text:
    ↳ \verb|`test'|.
```

## 4 Conclusion and Outlook

Lore 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, 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].

For more  $\text{\LaTeX}$  hints for ACM read on at <https://www.acm.org/publications/taps/latex-best-practices>.

## References

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All links were last followed on October 5, 2020.