

# Paper Title

First Author

Department

Institution

City, Country

first.last@example.com

## 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.

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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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<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 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-conference-minted.tex

```

452 One sentence per line.
453 This rule is important for the usage of version
    ↳ control systems.
454 A new line is generated with a blank line.
455 As you would do in Word:
456 New paragraphs are generated by pressing enter.
457 In LaTeX, this does not lead to a new paragraph as
    ↳ LaTeX joins subsequent lines.
458 In case you want a new paragraph, just press enter
    ↳ twice!
459 This leads to an empty line.
460 In word, there is the functionality to press shift
    ↳ and enter.
461 This leads to a hard line break.
462 The text starts at the beginning of a new line.
463 In LaTeX, you can do that by using two backslashes
    ↳ (\textbackslash\textbackslash).
464 \\
465 This is rarely used.
466
467 Please do \textit{not} use two backslashes for new
    ↳ paragraphs.
468 For instance, this sentence belongs to the same
    ↳ paragraph, whereas the last one started a new
    ↳ one.
469 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 $\LaTeX$ code of ./paper-conference-minted.tex

```

477 \begin{mindflow}
478 This is a small note.
479 \end{mindflow}

```

## 3.3 Handling TODOs



**Markierter Text.**

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

485 \textmarker{Markierter Text.}

```

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

**Markierter Text.**

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

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

```

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

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

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

```



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

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

499 Das ist ein Text.
500 \change{FL1: Text angepasst}{Geänderter Text}.

```



Hier nur ein Kommentar.

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

504 Hier nur ein Kommentar\sidecomment{Kommentar}.

```



TODO!

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

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

```

## 3.4 Hyphenation

$\LaTeX$  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 `appla\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-conference-minted.tex

```
519 In case you write \enquote{application-specific},
    ↳ then the word will only be hyphenated at the
    ↳ dash.
520 You can also write
    ↳ \verb|aplica\allowbreak{}tion-specific| (result:
    ↳ applica\allowbreak{}tion-specific), but this is
    ↳ much more effort.
521
522 You can now write words containing hyphens which are
    ↳ hyphenated at other places in the word.
523 For instance, \verb|application|=specific| gets
    ↳ application=specific.
524 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  $\LaTeX$  (and math mode): 100  $\frac{\text{km}}{\text{h}}$ .

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

```
530 Numbers can be written plain text (such as 100), by
    ↳ using the
    ↳ \href{https://ctan.org/pkg/siunitx}{siunitx}
    ↳ package as follows:
531 \SI{100}{\km\per\hour},
532 or by using plain \LaTeX{} (and math mode):
533 $100 \frac{\mathit{km}}{h}$.
```

5 % of 10 kg

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

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

Numbers are automatically grouped: 123 456.

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

```
541 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  $\LaTeX$  code of ./paper-conference-minted.tex

```
547 Please use the \enquote{enquote command} to quote
    ↳ something.
548 Quoting with “quote” or “quote” also works.
549
```

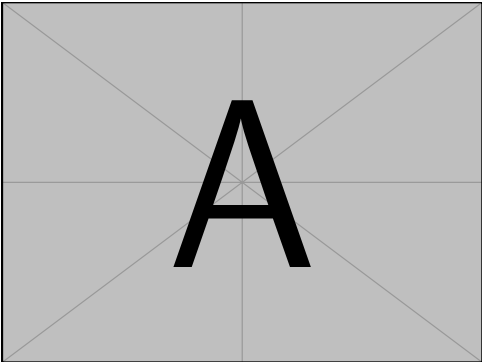


Figure 1: Example figure for cref demo

Heading1	Heading2
One	Two
Thee	Four

Table 1: Example table for cref demo

3.7 Cleveref examples

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

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  $\LaTeX$  code of ./paper-conference-minted.tex

```
579 \Cref{fig:ex:cref} shows a simple fact, although
    ↳ \cref{fig:ex:cref} could also show something
    ↳ else.
580
581 \Cref{tab:ex:cref} shows a simple fact, although
    ↳ \cref{tab:ex:cref} could also show something
    ↳ else.
582
583 \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.

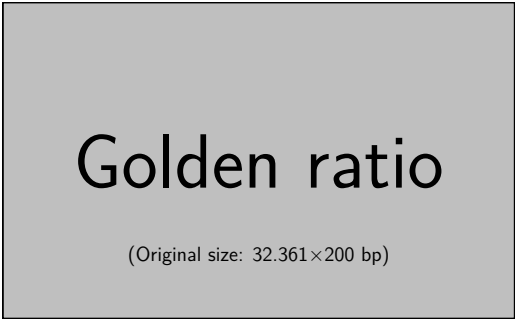


Figure 2: Simple Figure. Based on Scharrer [3].

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

```
589 \Cref{fig:label} shows something interesting.
590
591 \begin{figure}
592   \centering
593   \includegraphics[width=.8\linewidth]{example-}
594     ↪ image-golden}
595   \caption[Simple Figure]{
596     Simple Figure.
597     Based on \citet{mwe}.
598   }
599   \label{fig:label}
600 \end{figure}
```

### 3.9 Sub Figures

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

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

```
607 \begin{figure}[!b]
608   \centering
609   \subfloat[Case I]{\includegraphics[width=.4]
610     ↪ \linewidth]{example-image-a}%
611   \label{fig:first_case}}
612   \subfloat[Case II]{\includegraphics[width=.4]
613     ↪ \linewidth]{example-image-b}%
614   \label{fig:second_case}}
615   \caption[Example figure with two sub figures.]
616   \label{fig:two_sub_figures}
617 \end{figure}
```

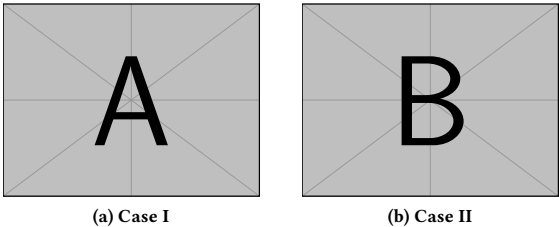


Figure 3: Example figure with two sub figures.

Table 2: Simple Table

Heading1	Heading2
One	Two
Thee	Four

Table 3: Table with diagonal line

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

### 3.10 Tables

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

```
622 \begin{table}
623   \caption{Simple Table}
624   \label{tab:simple}
625   \centering
626   \begin{tabular}{ll}
627     \toprule
628     Heading1 & Heading2 \\
629     \midrule
630     One      & Two       \\
631     Thee     & Four      \\
632     \bottomrule
633   \end{tabular}
634 \end{table}
```

Corresponding  $\LaTeX$  code of ./paper-conference-minted.tex

```
638 % Source: https://tex.stackexchange.com/a/468994/9075
639 \begin{table}
640   \caption{Table with diagonal line}
641   \label{tab:diag}
642   \begin{center}
643     \begin{tabular}{|l|c|c|}
644       \hline
645       \diagbox[width=10em]{Diag \Column Head I}{Diag
646         ↪ Column\Head II} & Second & Third \\
647       \hline
648       & foo & bar \\
649     \end{tabular}
650   \end{center}
651 \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 ?? contains a comment.

```
1
2
3 notinteresting
4
```

List. 1: Example XML listing using minted

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

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

```

One can also typeset JSON as shown in Listing 2.

```

1
2
3

```

**List. 2: Example JSON listing using minted**

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

679 \begin{listing}[htbp]
680   \begin{minted}[linenos=true,escapeinside=||]{json}
681   {
682     key: "value"
683   }
684   \end{minted}
685   \caption{Example JSON listing using minted}
686   \label{lst:f1JSON}
687 \end{listing}

```

Java is also possible as shown in Listing 3.

```

1
2
3
4
5

```

**List. 3: Java code rendered using minted**

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

693 \begin{listing}[htbp]
694   \begin{minted}[linenos=true,escapeinside=||]{java}
695   public class Hello {
696     public static void main (String[] args) {
697       System.out.println("Hello World!");
698     }
699   }
700   \end{minted}
701   \caption{Java code rendered using minted}
702   \label{lst:f1Java}
703 \end{listing}

```

## 3.12 Itemization

One can list items as follows:

- Item One
- Item Two

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

711 \begin{itemize}
712   \item Item One
713   \item Item Two
714 \end{itemize}

```

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

- Item One
- Item Two

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

720 \begin{compactitem}
721   \item Item One
722   \item Item Two
723 \end{compactitem}

```

One can enumerate items as follows:

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

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

729 \begin{enumerate}
730   \item Item One
731   \item Item Two
732 \end{enumerate}

```

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

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

### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

738 \begin{compactenum}
739   \item Item One
740   \item Item Two
741 \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 $\LaTeX$ code of ./paper-conference-minted.tex

```

747 \begin{inparaenum}
748 \item All these items...
749 \item ...appear in one line
750 \item This is enabled by the paralist package.
751 \end{inparaenum}

```

### 3.13 Other Features

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

#### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

757 The words \enquote{workflow} and \enquote{dwarflake}
    ↪ 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 $\LaTeX$ code of ./paper-conference-minted.tex

```

761 The symbol for powerset is now correct:  $\wp$  and not a Weierstrass  $p$ .
    ↪ and not a Weierstrass  $p$  ( $\wp$ ).
762
763  $\wp(\{1, 2, 3\})$ 

```

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

#### Corresponding $\LaTeX$ code of ./paper-conference-minted.tex

```

767 Brackets work as designed:
768 <test>
769 One can also input backticks 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].

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

In the bibliography, use `\textsuperscript` for “st”, “nd”, ...: E.g., “The 2<sup>nd</sup> 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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- [3] Martin Scharrer. 2017. *The mwe Package*. <http://texdoc.net/mwe>
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All links were last followed on October 5, 2020.