

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.

ACM Reference Format:

First Author. 2026. Paper Title. In *Proceedings of full-conference-name (short-conference-name)*. ACM, New York, NY, USA, 7 pages. <https://doi.org/10.1145/9999997.9999999>

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.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultrices 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

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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 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

```

497 One sentence per line.
498 This rule is important for the usage of version
    ↳ control systems.
499 A new line is generated with a blank line.
500 As you would do in Word:
501 New paragraphs are generated by pressing enter.
502 In LaTeX, this does not lead to a new paragraph as
    ↳ LaTeX joins subsequent lines.
503 In case you want a new paragraph, just press enter
    ↳ twice!
504 This leads to an empty line.
505 In word, there is the functionality to press shift
    ↳ and enter.
506 This leads to a hard line break.
507 The text starts at the beginning of a new line.
508 In LaTeX, you can do that by using two backslashes
    ↳ (\textbackslash\textbackslash).
509 \\\
510 This is rarely used.
511
512 Please do \textit{not} use two backslashes for new
    ↳ paragraphs.
513 For instance, this sentence belongs to the same
    ↳ paragraph, whereas the last one started a new
    ↳ one.
514 A long motivation for that is provided at
    ↳ \url{http://loopspacemathforge.org/j
    ↳ 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-minted.tex

```

522 \begin{mindflow}
523 This is a small note.
524 \end{mindflow}

```

3.3 Handling TODOs

Marked text.

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

```

530 \textmarker{Marked text.}

```

With `\textmarker`, only the text color is changed, since this also works well for individual words.

Marked text.

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

```

536 \textcomment{Marked text.}{A comment on it.}

```

Manual marking for text that has been changed since the last version.

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

```

540 \modified{Manual marking for text that has been
    ↳ changed since the last version.}

```

This is some text. Changed text.

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

```

544 This is some text.
545 \change{FL1: text adjusted}{Changed text}.

```

Here just a comment.

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

```

549 Here just a comment\sidecomment{Comment}.

```

TODO!

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

```

553 \todo{A lot of text still needs to be produced here}

```

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-minted.tex

```

564 In case you write \enquote{application-specific},
    ↳ then the word will only be hyphenated at the
    ↳ dash.
565 You can also write
    ↳ \verb!appla\allowbreak{tion-specific! (result:
    ↳ appla\allowbreak{tion-specific), but this is
    ↳ much more effort.
566
567 You can now write words containing hyphens which are
    ↳ hyphenated at other places in the word.
568 For instance, \verb!application"=specific! gets
    ↳ application"=specific.
569 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): $100 \frac{\text{km}}{\text{h}}$.

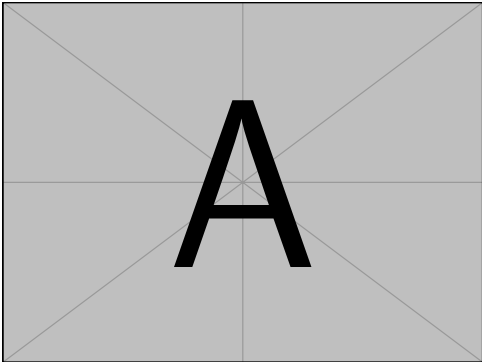


Figure 1: Example figure for cref demo

Heading1	Heading2
One	Two
Thee	Four

Table 1: Example table for cref demo

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

```
575 Numbers can be written plain text (such as 100), by
    ↳ using the
    ↳ \href{https://ctan.org/pkg/siunitx}{siunitx}
    ↳ package as follows:
576 \SI{100}{\km\per\hour},
577 or by using plain \LaTeX{} (and math mode):
578 $100 \frac{\mathit{km}}{h}$.
```

5 % of 10 kg

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

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

Numbers are automatically grouped: 123 456.

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

```
586 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-minted.tex

```
592 Please use the \enquote{enquote command} to quote
    ↳ something.
593 Quoting with "quote" or ``quote'' also works.
594
```

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

```
624 \Cref{fig:ex:cref} shows a simple fact, although
    ↳ \cref{fig:ex:cref} could also show something
    ↳ else.
625
626 \Cref{tab:ex:cref} shows a simple fact, although
    ↳ \cref{tab:ex:cref} could also show something
    ↳ else.
627
628 \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 $\LaTeX$ code of ./paper-minted.tex

```
634 \Cref{fig:label} shows something interesting.
635
636 \begin{figure}
637   \centering
638   \includegraphics[width=.8\linewidth]{example-
    ↳ image-golden}
639   \caption[Simple Figure]{
640     Simple Figure.
641     Based on \citet{mwe}.
642   }
643   \label{fig:label}
644 \end{figure}
```

3.9 Sub Figures

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

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

```

652 \begin{figure}[!b]
653 \centering
654 \subfloat[Case I]{\includegraphics[width=.4]
    ↳ \linewidth]{example-image-a}%
655 \label{fig:first_case}}
656 \hfil
657 \subfloat[Case II]{\includegraphics[width=.4]
    ↳ \linewidth]{example-image-b}%
658 \label{fig:second_case}}
659 \caption{Example figure with two sub figures.}
660 \label{fig:two_sub_figures}
661 \end{figure}

```

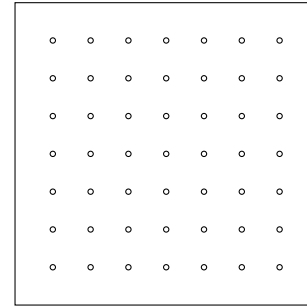


Figure 4: A regular grid generated easily with two for loops.

3.10 Figures with tikz

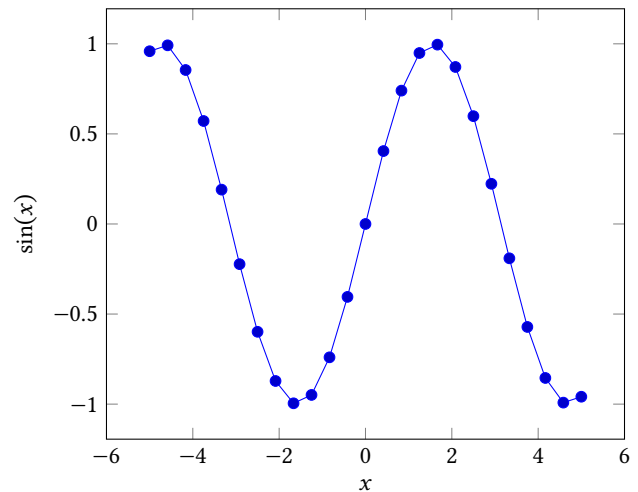
The tikz package creates graphics programmatically. With this package, grids or other regular structures can be generated easily.

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

```

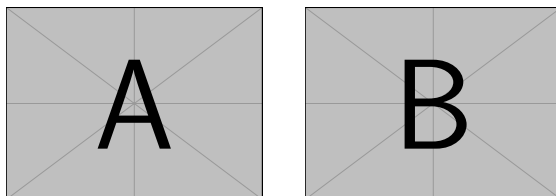
670 \begin{figure}[ht]
671 \centering
672 \begin{tikzpicture}
673 \draw(0,0) rectangle (4,4);
674 \foreach \x in {0.5,1,1.5,2,2.5,3,3.5}
675 \foreach \y in {0.5,1,1.5,2,2.5,3,3.5}
676 \draw(\x,\y) circle (1pt);
677 \end{tikzpicture}
678 \caption{A regular grid generated easily with two
    ↳ for loops.}\label{fig:tikz_example}
679 \end{figure}

```

Figure 5: Plot of $\sin(x)$ directly inside the figure environment with pgfplots.

3.11 Plots with pgfplots

The pgfplots package plots functions directly in $\LaTeX$, similar to MATLAB or gnuplot. Some visual examples are available in the package documentation¹.



(a) Case I (b) Case II

Figure 3: Example figure with two sub figures.

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

```

688 \begin{figure}[ht]
689 \centering
690 \begin{tikzpicture}
691 \begin{axis}[xlabel=$x$, ylabel=$\sin(x)$]
692 \addplot {sin(deg(x))}; % Plot the sine
    ↳ function
693 \end{axis}
694 \end{tikzpicture}
695 \caption{Plot of $\sin(x)$ directly inside the
    ↳ figure environment with pgfplots.}
696 \label{fig:pgfplots_example}
697 \end{figure}

```

¹<http://texdoc.net/pkg/pgfplots>

Coordinates can also be given explicitly instead of as a function:

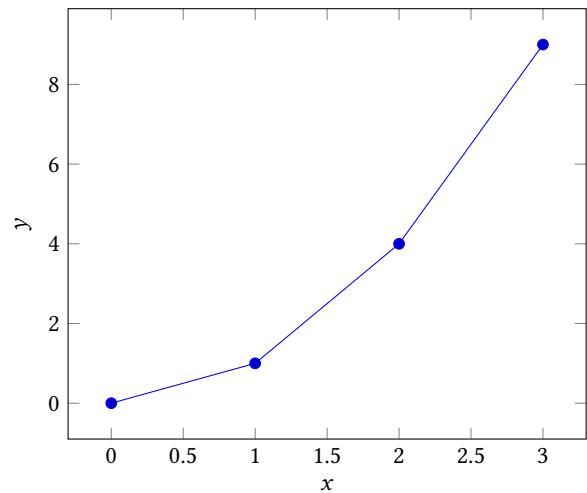


Figure 6: Explicit coordinates plotted with pgfplots.

Table 2: Simple Table

Heading1	Heading2
One	Two
Thee	Four

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

```
702 \begin{figure}[ht]
703 \centering
704 \begin{tikzpicture}
705 \begin{axis}[xlabel=$x$, ylabel=$y$]
706 \addplot coordinates {(0,0) (1,1) (2,4) (3,9)};
707 \end{axis}
708 \end{tikzpicture}
709 \caption{Explicit coordinates plotted with
710 \quad pgfplots.}
711 \label{fig:pgfplots_coords}
712 \end{figure}
```

3.12 Tables

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

```
717 \begin{table}
718 \caption{Simple Table}
719 \label{tab:simple}
720 \centering
721 \begin{tabular}{ll}
722 \toprule
723 Heading1 & Heading2 \\
724 \midrule
725 One & Two \\
726 Thee & Four \\
727 \bottomrule
728 \end{tabular}
729 \end{table}
```

Table 3: Table with diagonal line

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

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

```
733 % Source: https://tex.stackexchange.com/a/468994/9075
734 \begin{table}
735 \caption{Table with diagonal line}
736 \label{tab:diag}
737 \begin{center}
738 \begin{tabular}{|l|c|c|}
739 \hline
740 \diagbox[width=10em]{Diag \Column Head I}{Diag
741 \quad Column\Head II} & Second & Third \\
742 \hline
743 & foo & bar
744 \end{tabular}
745 \end{center}
746 \end{table}
```

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

```
756 \Cref{lst:XML} shows source code written in XML.
757 \refline{line:comment} contains a comment.
758
759 \begin{listing}[htbp]
760 \begin{minted}[linenos=true,escapeinside=||]{xml}
761 <listing name="example">
762 <!-- comment --> |\labelline{line:comment}|
763 <content>not interesting</content>
764 </listing>
765 \end{minted}
766 \caption{Example XML listing using minted}
767 \label{lst:XML}
768 \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 $\LaTeX$ code of ./paper-minted.tex

```

774 \begin{listing}[htbp]
775 \begin{minted}[linenos=true,escapeinside=||]{json}
776 {
777   key: "value"
778 }
779 \end{minted}
780 \caption{Example JSON listing using minted}
781 \label{lst:flJSON}
782 \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 $\LaTeX$ code of ./paper-minted.tex

```

788 \begin{listing}[htbp]
789 \begin{minted}[linenos=true,escapeinside=||]{java}
790 public class Hello {
791   public static void main (String[] args) {
792     System.out.println("Hello World!");
793   }
794 }
795 \end{minted}
796 \caption{Java code rendered using minted}
797 \label{lst:flJava}
798 \end{listing}

```

3.14 Itemization

One can list items as follows:

- Item One
- Item Two

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

```

806 \begin{itemize}
807 \item Item One
808 \item Item Two
809 \end{itemize}

```

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

- Item One
- Item Two

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

```

815 \begin{compactitem}
816 \item Item One
817 \item Item Two
818 \end{compactitem}

```

One can enumerate items as follows:

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

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

```

824 \begin{enumerate}
825 \item Item One
826 \item Item Two
827 \end{enumerate}

```

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

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

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

```

833 \begin{compactenum}
834 \item Item One
835 \item Item Two
836 \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-minted.tex

```

842 \begin{inparaenum}
843 \item All these items...
844 \item ...appear in one line
845 \item This is enabled by the paralist package.
846 \end{inparaenum}

```

3.15 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

```

852 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 $\text{\LaTeX}$ code of `./paper-minted.tex`

```

856 The symbol for powerset is now correct:  $\mathcal{P}$ 
      ↪ and not a Weierstrass  $p$  ( $\wp$ ).
857
858  $\mathcal{P}(\{1,2,3\})$ 

```

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

Corresponding $\text{\LaTeX}$ code of `./paper-minted.tex`

```

862 Brackets work as designed:
863 <test>
864 One can also input backticks in verbatim text:
      ↪ \verb|`test`|.

```

Acronyms can be typeset in running text with `\initialism`, which sets them as small caps that blend into the surrounding lowercase text. It is the lightweight alternative to the full acronym and glossary management (`\gls`, with an automatic list of abbreviations) provided by the thesis variants: `\initialism` only typesets the acronym and does not add it to any list. The macro and a few ready-made acronyms (`\OMG`, `\BPEL`, `\BPMN`, `\UML`) are defined in `commands.tex`, where you can add your own.

The UML is maintained by the OMG; related standards include BPEL and BPMN. Any acronym can be set inline with `REST` or `HTTP`.

Corresponding $\text{\LaTeX}$ code of `./paper-minted.tex`

```

870 The \UML is maintained by the \OMG; related standards
      ↪ include \BPEL and \BPMN.
871 Any acronym can be set inline with \initialism{REST}
      ↪ or \initialism{HTTP}.

```

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

References

- [1] Tobias Binz, Gerd Breiter, Frank Leymann, and Thomas Spatzier. 2012. Portable Cloud Services Using TOSCA. *IEEE Internet Computing* 16, 03 (May 2012), 80–85. doi:10.1109/mic.2012.43
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All links were last followed on October 5, 2020.