

# Metadata and Other Structures in texor

by Abhishek Ulayil

**Abstract** This is a small sample article to demonstrate handling of metadata and other structures during conversion in texor package.

## 1 Introduction

There is a difference in the structure of metadata and generally R Markdown has more metadata entries than its LaTeX counterpart. So for the conversion, the main task is to transform the metadata and include it in the generated R Markdown file, matching the LaTeX metadata as closely as possible.

When used with the `-s` or standalone mode, pandoc reads out some of the existing meta data. The extracted metadata are listed below.

### Metadata read from LaTeX file

- Author names
- Author address (affiliation)
- ORCID number
- Title
- Bibliography
- Abstract
- CRAN/Bioconductor packages

The `\address{...}` section must be typeset in this manner for the most effective conversion.

```
\address{
Abhishek Ulayil\\ % Your Name in the first Line
Institute of Actuaries of India (Student)\\% Your affiliation which includes post and/or org
Mumbai, India\\ % Your City/Country
ORCID: 0009-0000-6935-8690\\% ORCID number with prefix ORCID:
}
```

### Metadata read from DESCRIPTION file

- Date
- Slug
- Volume and issue

Some metadata like the volume and issue were picked up from the folder structure for some legacy articles, where the DESCRIPTION file was not available.

### Other supported commands in conversion

Command	Render
<code>\acronym{A}</code>	A
<code>\R</code>	R
<code>\pkg{texor}</code>	<b>texor</b>
<code>\CRANpkg{texor}</code>	<b>texor</b>
<code>\BIOpkg{Biobase}</code>	<b>Biobase</b>
<code>\ctv{ReproducibleResearch}</code>	<i>ReproducibleResearch</i>
<code>\command{help}</code>	help

**Table 1:** Other commands supported by **texor** and pandoc

## 2 Miscellaneous

### Citations

Table 2 represents all the ways one can use citations in LaTeX and expect the generated output.

Command	Render
<code>\citet{pandoc}</code>	Krewinkel, Lucero (2023)
<code>\citep{pandoc}</code>	(Krewinkel, Lucero , 2023)
<code>\citet{*}{pandoc}</code>	Krewinkel, Lucero (2023)
<code>\citep{*}{pandoc}</code>	(Krewinkel, Lucero , 2023)
<code>\citeyear{pandoc}</code>	2023
<code>\citeauthor{pandoc}</code>	Krewinkel, Lucero
<code>\cite{pandoc}</code>	Krewinkel, Lucero (2023)

**Table 2:** Different forms of citation in LaTeX.

### Footnotes

Footnotes do not work in tabular environments in LaTeX but do work in R Markdown tables<sup>1</sup>. Custom footnote numbering works in LaTeX but does not work in R Markdown<sup>21</sup>. These features are demonstrated in Table 3.

Command	Render
<code>\acronym{A}\footnote{This works in HTML}</code>	A <sup>2</sup>
<code>\R\footnote[21]{HTML shows 2 rather than 21}</code>	R <sup>21</sup>

**Table 3:** Demonstration of footnotes.

### Block quotes

This block quote should justify an example.

### Links

Most links work just fine using `\href` and the `\url` command will work flawlessly, as demonstrated in Table 4.

Command	Render
<code>\href{www.google.com}{Google}</code>	<a href="http://www.google.com">Google</a>
<code>\url{www.google.com}</code>	<a href="http://www.google.com">www.google.com</a>
Table <code>\ref{table:3}</code>	Table 3

**Table 4:** Links

### Colored text

Some commands to describe colored text also work during conversion, such as `\textcolor{blue}{Blue Text}` [Blue Text](#).

## 3 Summary

In summary the [texor](#) package alongside pandoc supports:

<sup>1</sup>Footnotes in paragraph text work in both LaTeX and R markdown

<sup>21</sup>Forever 21 :)

- Extracting metadata and putting it together well.
- Handling links, block quotes, citations and footnotes.

## Bibliography

- A. Krewinkel and A. Lucero pandoc 3.0 Release notes *pandoc* 2023 URL <https://pandoc.org/releases.html> [p2]
- R. Fairbairns, A. Duggan, R. Schöpf and V. Eijkhout The moreverb package documentation CTAN 2011 URL <https://mirror.niser.ac.in/ctan/macros/latex/contrib/moreverb/moreverb.pdf> [p]

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