

Metadata and Other Structures in texor

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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>	texor
<code>\CRANpkg{texor}</code>	texor
<code>\BIOpkg{Biobase}</code>	Biobase
<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 tables¹. Custom footnote numbering works in LaTeX but does not work in R Markdown²¹. These features are demonstrated in Table 3.

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

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>	Google
<code>\url{www.google.com}</code>	www.google.com
<code>Table \ref{table:3}</code>	Table 3
<code>Section \nameref{misc}</code>	Section Miscellaneous
<code>\autoref{table:3}</code>	Table 3

Table 4: Links

Note Certain reference commands like `\nameref{}` and `\autoref{}` will not work as intended in HTML.

Lists

An example of usage of lists in LaTeX and **texor** generated HTML.

¹Footnotes in paragraph text work in both LaTeX and R markdown

²¹Forever 21 :)

itemize

- A
- B

enumerate

1. A
2. B

description

rebib Convert and Aggregate Bibliographies

texor Converting 'LaTeX' 'R Journal' Articles into 'RJ-web-articles'

Note: Some options for lists such as special numbering schemes or markups to description item points might not work as intended and the generated HTML might be simple.

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:

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

Bibliography

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