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 Rmarkdown has more meta-data entries than its LaTeX counterpart. So for the conversion, main task is to transform the meta data and include it in the generated Rmarkdown file, matching the LaTeX data as closely as possible.

Pandoc when used with `-s` or `standalone` mode reads out some of the existing meta data. The extracted author meta-data are listed below

Metadata Read from LaTeX file

- Author Names
- Author address(affiliation)
- ORCID number
- Title
- Bibliography
- Abstract
- CRAN/BIO packages

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

```
\address{
Abhishek Ulayil\\ % Your Name in the first Line
Student, Institute of Actuaries of India\\% 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 details like the Volume and Issue were picked up from folder structure as well in some legacy articles where DESCRIPTION file was not available.

Other supported commands in conversion

Command	Render
\acronym{A}	A
\R	R
\pkg{texor}	**texor**
\CRANpkg{texor}	**texor**
\BIOpkg{Biobase}	**Biobase**
\ctv{ReproducibleResearch}	*ReproducibleResearch*
\command{help}	help

Table 1: Other commands supported by texor and Pandoc

2 Miscallaneous

Citations

As we know about citations (using `\citet{..}` command here) [Fairbairns, Duggan, Schöpf, Eijkhout (2011)]. We could also use `\citep{..}` command in real (Krewinkel, Lucero , 2023).

Command	Render
`\citet{pandoc}`	Krewinkel, Lucero (2023)
`\citep{pandoc}`	(Krewinkel, Lucero , 2023)
`\citet*{pandoc}`	Krewinkel, Lucero (2023)
`\citep*{pandoc}`	(Krewinkel, Lucero , 2023)
`\citeyear{pandoc}`	2023
`\citeauthor{pandoc}`	Krewinkel, Lucero
`\cite{pandoc}`	Krewinkel, Lucero (2023)

Table 2: Different citations in LaTeX

Footnotes

Command	Render
`\acronym{A}\footnote{This works in Web article}`	A[1]
`\R\footnote[21]{Its 2 not 21 :(}`	R[21]

Table 3: Demo of footnotes

Footnotes do not work in `tabular` environment in LaTeX but it does work in Rmarkdown[2]. Custom Footnote number works in LaTeX but does not work in web articles[21].

BlockQuotes

This BlockQuote should Justify an example.

Links

Most links work just fine using `\href` and `\url` command will work flawlessly.

Command	Render
`\href{www.google.com}{Google}`	Google
`\url{www.google.com}`	www.google.com
`Table \ref{table:3}`	Table 3

Table 4: Links

3 Summary

In summary the **texor** package alongside pandoc supports:

- Extracting Metadata and putting it together well.
- Handling Links, BlockQuotes, Citations and Footnotes.

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[2]This works in LaTeX and Web article
[21]Forever 21 :)

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 [p2]

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