Creating an article with rmarkdown

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Abstract

This is an example document showing some of the features required to make a document that will output to both pdf and word

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1 Compiling this document

This document assumes you have a sufficiently pandoc 2.8 and R 3.6 with rmarkdown (Allaire et al. 2019, @xie2018), huxtable, and flextable packages installed.

To compile from R we then run the following commands

```
> library(rmarkdown)
> rmarkdown::render('example.Rmd', output_format='all')
```

This should produce both a pdf and word document.

Some things that don't quite work are:

- The table code shown in the pdf output is not the same as the actual code. This is due to an interplay between the mechanism this document uses to allow cross-referencing of tables in Word documents and removal the relevant tags (and escaping of backslashes) for the pdf document.
- The table column width meanings seem to be different between the word output and the pdf output

2 Multiple authors

To produce a title page with multiple authors we make use of some lua filters. These are author-info-blocks https://github.com/pandoc/lua-filters/tree/master/author-info-blocks and scholarly-metadata https://github.com/pandoc/lua-filters/tree/master/scholarly-metadata .
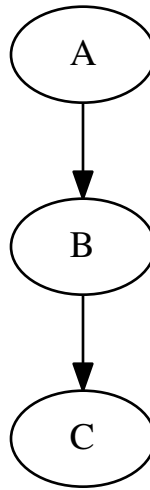
3 Figure example

Here we make Figure 1.

Figure 1: An example of a figure.

4 Table example

Here we make Table 1.

```
hdr1 <- hux("Sub-header for FooBar", "", "")
hdr2 <- hux("Sub-header for FizzBuzz", "", "")

example.huxtable <- as_hux(example.df)

example.huxtable %>%
add_colnames %>%
set_bold(1, everywhere, TRUE) %>%
set_bottom_border(1, everywhere, 2) %>%
set_top_border(1, everywhere, 2) %>%
add_rows(hdr1, 1) %>%  # the row is added **after** the specified row (new row is row 2)
merge_cells(2, c(1, 3)) %>%
add_rows(hdr2, 4) %>%  # at this point "Bar" is in row 4
merge_cells(5, c(1, 3)) %>%
add_footnote("This is the footnote text for the table") %>%
set_caption("( #tab:table)Table \@ref(tab:table): Caption text for table") %>%
set_caption_pos("bottom") %>%
set_col_width(c(2.0, 3.0, 1.5)) %>%
set_col_width(c(.3, .3, .3)) %>%
set_contents(1, 1, "New Col 1") %>%
set_width(0.9)
```

New Col 1	Col 2	Col 3
Sub-header for FooBar		
Foo	1	1.12
Bar	2	1.54
Sub-header for FizzBuzz		
Fizz	3	4.12
Buzz	4	4.54

This is the footnote text for the table

Table 1: : Caption text for table

Allaire, JJ, Yihui Xie, Jonathan McPherson, Javier Luraschi, Kevin Ushey, Aron Atkins, Hadley Wickham, Joe Cheng, Winston Chang, and Richard Iannone. 2019. *Rmarkdown: Dynamic Documents for R.* https://github.com/rstudio/rmarkdown.

Xie, Yihui, J. J. Allaire, and Garrett Grolemund. 2018. *R Markdown: The Definitive Guide.* Boca Raton, Florida: Chapman; Hall/CRC. https://bookdown.org/yihui/rmarkdown.