# drposter: Generate Academic Posters in R Markdown and CSS

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### Overview

- Template for writing HTML/CSS posters using Rmarkdown
- Same conventions as pandoc presentations (e.g. reveal.js) $^{1-3}$
- Separates content from presentation
- Goal: automatically get consistent spacing from specifications instead of a manual layout



### Rmarkdown structure

See also the <source code> and <compiled pdf> for this poster on Github.

title: Title of your document within R Markdown's YAML header output: drposter::drposter\_poster

# {.col-3} ## Overall document columns (`<h1>`)

Content is organized using headers as sections. Level 1 sections define the overall layout of subblocks. Use the .col-x` class to use x columns for subblocks.

## Another left column block

You can place multiple subblocks within the same overall .col-x, for example to get a 3-column layout like this example code here.

 $\# \{.col-3\}$ ## Individual content blocks (`<h2>`)

Actual content goes within the level 2 blocks, which have two inner columns by default, e.g. for figures.

![](path\_to\_figure.jpg)

Most of the markdown commands seem to work, though there are probably still some that are untested.

# {.col-3}

## Use this div to write your references in a section:

<div id="refs" class="references"></div>

#### Licensing

#### 3rd party

- Package inspired by reveal.js presentation framework<sup>1</sup> and its R package<sup>2</sup>
- Fonts under their respective licenses
- Logo: thanks to Openclipart for the CCO <graduation cap image>, <hexSticker> for sticker generation, and <bcbioSmallRna> for a helpful sticker example
- See <CitationStyles.org> and the CSL project<sup>4</sup> for more info about citation options (CC BY SA 3.0)

#### This package

- drposter may be used under different licenses at your option
- Entire R package: GPLv3 (like < R</li> markdown>)
- Files for the <drposter pandoc</li> template>: same conditions as the
- Poster CSS: <CCO public domain>

# How to use this package

#### Installation and updates

- 1. devtools::install\_github("bbucior/drposter", dep=FALSE)(or install\_local on a downloaded copy) to install/update the package
- 2. In RStudio, you can find the format listed as a template under the "New R Markdown" wizard, or use the command line.
- 3. Template files are cached in drposter\_files/ to decouple your poster from the installed package version. Use drposter\_update to resync them.

#### Customizing the template

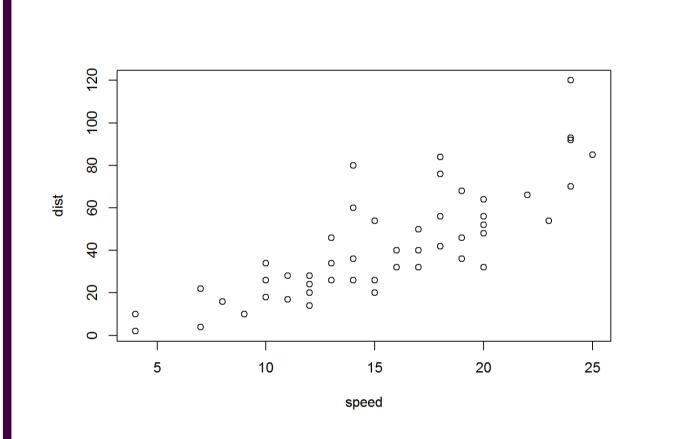
- Avoid modifying drposter\_files/
- Indirectly override those rules in your own custom.css or equivalent
- Easier to see and share your changes
- Decouples your modifications from the base drposter styles
- Customize the format of the bibliography<sup>5,6</sup> using a CSL style<sup>4</sup>

#### **Export**

- View and "print as PDF" from Chrome<sup>7</sup>
- Be sure to save a PDF (and possibly html with self\_contained: true) to archive your project at the end, in case there are changes in pandoc, rmarkdown,
- You can also render the poster in other formats, such as github\_document or revealjs::revealjs\_presentation

# Reproducible research

#### Directly include plots



#### Directly include stats

##	speed	dist
##	Min. : 4.0	Min. : 2.00
##	1st Qu.:12.0	1st Qu.: 26.00
##	Median :15.0	Median : 36.00
##	Mean :15.4	Mean : 42.98
##	3rd Qu.:19.0	3rd Qu.: 56.00
##	Max. :25.0	Max. :120.00

### Customizable themes

Note the features for theming. If you had a special class attached to the .level1 or .slides/theme, you could use a general descendent selector to automatically get theming support, then break up these details into separate theme files.

### Default theme

This is an example of the default theme.

# Minimalist theme

This is an example of the minimalist theme.

## See also

- tikzposter latex template, and its example themes for inspiration
- <https://bitbucket.org/surmann/tikzposter/downloads/>
- <Other R markdown templates> with their advantages/disadvantages (pdf compatibility, consistent syntax with flexdashboard, etc.)

#### Community



For more information, please visit the project page at <https://github.com/bbucior/drposter>. Feel free to report issues, pull requests, or general comments on Github.

### References

(1) <http://lab.hakim.se/reveal-js/#/>.

(2) <https://github.com/rstudio/revealjs>.

(3) <http://rmarkdown.rstudio.com/developer\_custom\_formats.html>.

(4) <https://github.com/citation-style-language/styles>.

(5) <http://rmarkdown.rstudio.com/authoring\_bibliographies\_and\_citations.html>.

(6) <a href="https://stackoverflow.com/questions/41532707/include-rmd-appendix-after-">https://stackoverflow.com/questions/41532707/include-rmd-appendix-after-</a> references>.

(7) Limited testing shows that Firefox also works, but it doesn't yet apply experimental CSS rules for page size.