

# 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)<sup>1-3</sup>
- Separates content from presentation
- Goal: automatically get consistent spacing from specifications instead of a manual layout



## 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>7</sup>

### Export

- View and "print as PDF" from Chrome<sup>8</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, etc.
- You can also render the poster in other formats, such as a `github_document` or `revealjs::revealjs_presentation`

## 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 `<h1>` 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.



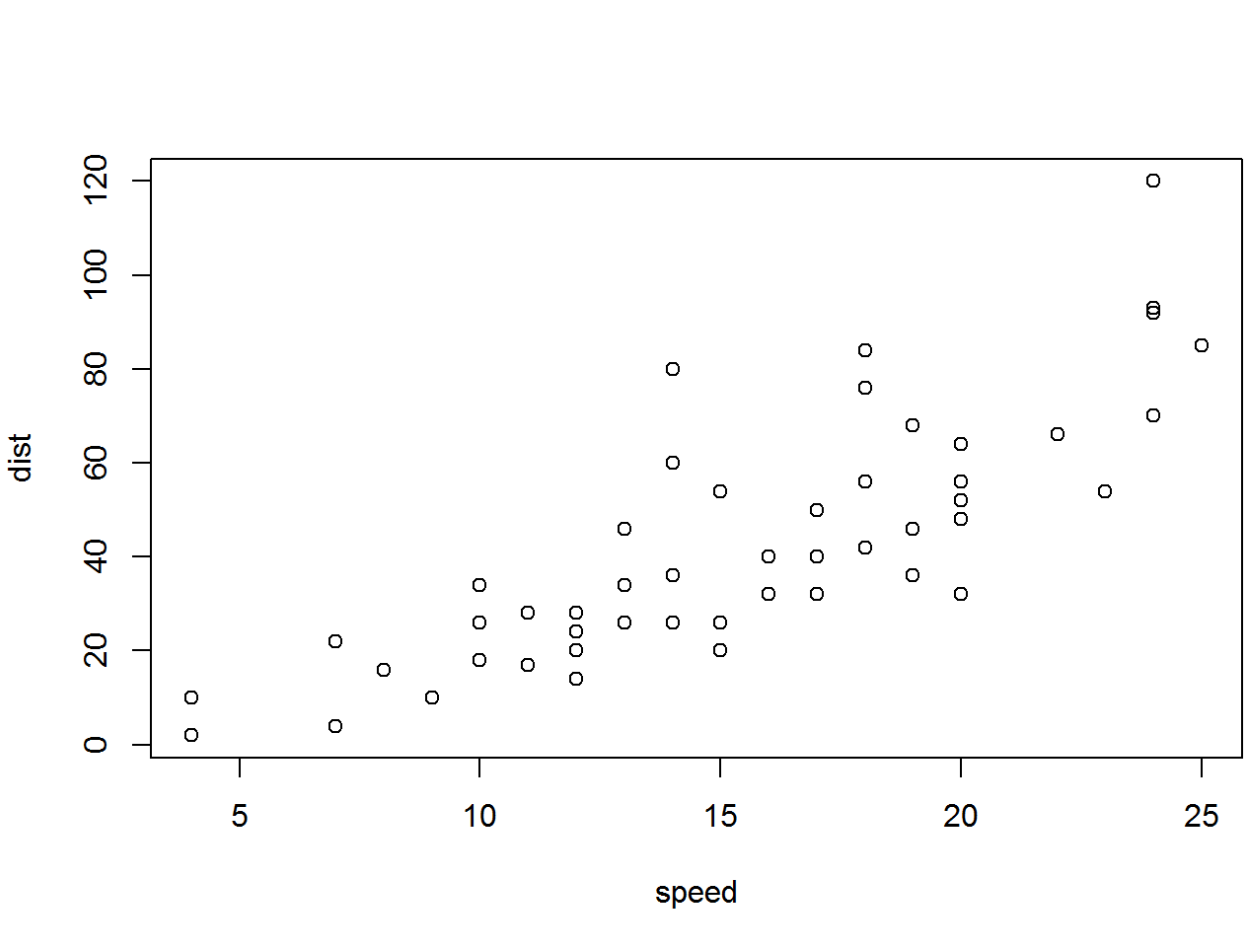
Most of the markdown commands seem to work, though there are
probably still some that are untested.

# {.col-3}
## Use this div to automatically write your references to a section:

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

## 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.)

## 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://www.r-project.org/logo/>`.
- (5) `<http://rmarkdown.rstudio.com/authoring_bibliographies_and_citations.html>`.
- (6) `<https://stackoverflow.com/questions/41532707/include-rmd-appendix-after-references>`.
- (7) `<https://github.com/citation-style-language/styles>`.
- (8). *Limited testing shows that Firefox also works, but it doesn't yet apply experimental CSS rules for page size.*

## Licensing

### 3rd party

- R logo<sup>4</sup>: dual-licensed as CC-BY-SA 4.0 or GPL-2 by The R Foundation (2016)
- Fonts under their respective licenses
- Package inspired by reveal.js presentation framework<sup>1</sup> and its R package<sup>2</sup>
- Logo: thanks to Openclipart for the CC0 `<graduation cap image>`, `<hexSticker>` for sticker generation, and `<bcbioSmallRna>` for a helpful sticker example

### This package

- `drposter` may be used under different licenses at your option
- Entire R package: GPLv3 (like `<R markdown>`)
- Files for the `<drposter pandoc template>`: same conditions as the official `<pandoc templates>`
- Poster CSS: `<CC0 public domain>`

## 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.