





Why?

Reproducible Research – that's why





How?

<https://github.com/brentthorne/posterdown>

<https://github.com/rstudio/pagedown>

<https://github.com/GerkeLab/betterposter>

<https://github.com/pzhaonet/postr>

<https://github.com/odeleongt/flexdashboard-poster>

<https://github.com/bbucior/drposter>

<https://github.com/jhollist/markdownPoster>

<https://rdr.io/github/BenBarnard/pdfposter/>

Variability in Baseline Pupil Size Matters

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Introduction

- Baseline pupil size correlates with cognitive abilities (Tsukahara et al., 2016)

Study	Pupil Size	Pupil Size	Mean Pupil	SD Pupil
Tsukahara et al. (2016)	0.1	0.11	5.82	0.09
Unsworth et al. (2016)	0.1	0.11	5.21	0.09

- Unsworth et al. (2016) had a much smaller mean and variability in baseline pupil size compared to Tsukahara et al. (2016).

Research Questions

- Can the small variance in baseline pupil size explain the null relationship with working memory capacity in Unsworth, Robison, and Miller (2019)?

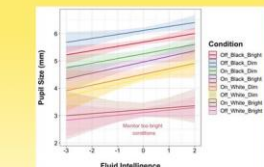
- How does lighting condition impact the relationship of baseline pupil size with cognitive abilities?

Methods

- Used data from Tsukahara et al. (2016)

- Sampled 100 sub-samples ($n = 100$) that have a variance similar to Unsworth et al. (2019). Computed the correlation between baseline pupil size and working memory capacity in each sub-sample

- Conducted study in which baseline pupil size was measured in different lighting conditions. A 2x2x2 within-subject design: 8 total baseline conditions $N = 156$



Poster and Supplemental Results



404

Results

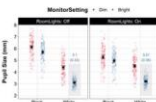
- When variability in baseline pupil size is reduced to that reported in Unsworth et al. (2016), there is a higher probability to obtain a smaller and non-significant correlation compared to Tsukahara et al. (2016)

Using data from Tsukahara et al. (2016) and reducing the pupil size variance similar to Unsworth et al. (2016), we found that:

- Only 16% of sub-samples had the same size or larger correlation reported in Tsukahara et al. (2016).
- 80% of sub-samples had a non-significant correlation between working memory capacity and baseline pupil size.

New Data: Manipulated Lighting Conditions

- Bright monitor conditions resulted in a similar mean and standard deviation on baseline pupil size as Unsworth et al. (2016)



- Fluid intelligence ONLY predicts baseline pupil size when the monitor is not too bright. Working memory capacity did not correlate with baseline pupil size in any condition.

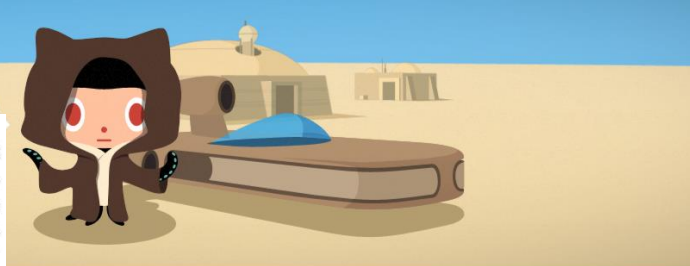
Condition	Size	SE	Condition	Size	SE
OP_Bright	0.16	0.09	OC_Bright	0.17	0.09
OP_Dim	0.11	0.09	OC_Dim	0.10	0.09
OP_Bright	0.11	0.09	OC_Bright	0.10	0.09
OP_Dim	0.11	0.09	OC_Dim	0.10	0.09

Conclusions

- Fluid intelligence DOES NOT correlate with baseline pupil size in bright monitor conditions due to the reduced variability in pupil size values

- Pupillometry researchers need to take account brightness/contrast settings of the monitor.

Tsukahara, J. S., Engle, R. W., & Engle, R. W. (2016). The relationship between baseline pupil size and intelligence. *Intelligence*, 54, 101-111.



act Support — GitHub Status — @githubstatus

Navigation bar with various icons and links.

This poster design has two distinct sections, (1) the main section, which consists of a top bar to house the take home message and a small bottom bar to house the QR code/ other logos if needed; and (2) the body, which contains the typical poster material. For more information on the main section and what it should contain, see this [video](#) by Mike Morrison.

Clone this wiki locally

<https://github.com/brenttho>

Make better posters with RMarkdown + posterdown. Transition from poster to manuscript with ease!

A Better Reproducible Poster Title

Introduction

Methods

Results

Discussion

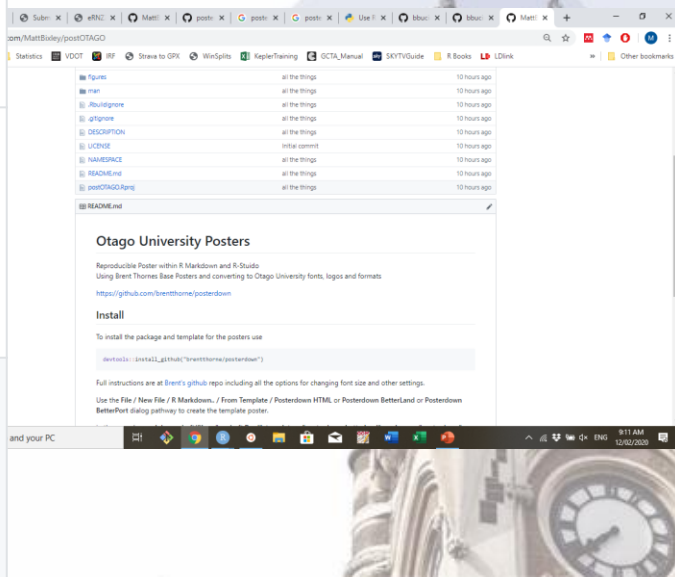
References

Git

<https://github.com/MattBixley/postOTAGO>

<https://github.com/brentthorne/posterdown>

YAML Option	Default Value	Description
primary_colour	"#008080"	Main colour used for poster design.
secondary_colour	"#0b4545"	Secondary colour use for poster design.



 [README.md](#)

Otago University Posters

Reproducible Poster within R Markdown and R-Stuido

Using Brent Thornes Base Posters and converting to Otago University fonts, logos and formats

<https://github.com/brentthorne/posterdown>

Install

To install the package and template for the posters use

```
devtools::install_github("brentthorne/posterdown")
```

Full instructions are at [Brent's github](#) repo including all the options for changing font size and other settings.

Use the File / New File / R Markdown.. / From Template / Posterdown HTML or Posterdown BetterLand or Posterdown BetterPort dialog pathway to create the template poster.

```
in the console rmarkdown::draft(file = "mydraft.Rmd", template = "posterdown_betterland", package = "posterdown",
create_dir=FALSE)
```

As of February 2020 settings need to be changed in the header of the .Rmd Document that is created. The goal will be to create a full Otago University Template to install and run with the appropriate colours and logos embeded.

Otago Settings

Fonts: <https://www.otago.ac.nz/web/services/guides/designers/styles/otago049670.html>

font-family: 'Open sans', Helvetica, Arial, Geneva, sans-serif;

University logo: <http://www.otago.ac.nz/ou-logo.png>

FileHomeInsertDesign

PasteNew SlideSectionClipboardSlides

3How?4567

8English (New Zealand)

AutoSaveOff

Search the web and your PC

8:57 AM12/02/2020

Otago University Defau +

File | C:/Users/Matt/Documents/R/postOTAGO/R/OtagoPort.html

AppsBookmarksStatisticsVDOTIRFStrava to GPXWinSplitsKeplerTrainingOther bookmarks

Otago University Default Portrait

Matt Bixley^{1,*}

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My G. Mate²

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Person 1: Person 1

Person 2: Person 2

Person 3: Person 3

Person 4: Person 4

Person 5: Person 5

Person 6: Person 6

Person 7: Person 7

Person 8: Person 8

Person 9: Person 9

Person 10: Person 10

Person 11: Person 11

Person 12: Person 12

Person 13: Person 13

Person 14: Person 14

Person 15: Person 15

Person 16: Person 16

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Person 95: Person 95

Person 96: Person 96

Person 97: Person 97

Person 98: Person 98

Person 99: Person 99

Person 100: Person 100

Department of Biochemistry, University of Otago

The Carpenters

Introduction

Welcome to ! This is my attempt to provide a semi-smooth workflow for those who wish to take their skills to the conference world. Many creature comforts from are available in this package such as section notation, figure captioning, and even citations like this one . The rest of this example poster will show how you can insert typical conference poster features into your own document.

Rancid - Roots Radicals

Took the 60 bus Out of downtown Campbell. Ben Zanotto, he was on there He was waitin' for me All the punk rockers And the moon stompers Are out on the corners Where they're sparing for change

I started thinkin'. You know I started drinkin'. I don't remember too much of that day. Somethin' struck me

Study Site

Here is a map made to show the study site using , and and you can even reference this with a hyperlink, this will take you to Figure . Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Figure 1: This is a map of Canada, the appaisal package is great for GIS folio in R!

Objectives

Give 'em the boot; the roots, the radicals Give 'em the boot; you know I'm a radical Give 'em the boot; the roots, the reggae on my Stereo

Give 'em the boot; the roots, the radicals Give 'em the boot; you know I'm a radical Give 'em the boot; the roots, the reggae on my Stereo

Figure 2: Using ggplot and patchwork to generate a layout of multiple plots in one figure. The ora banner was used to generate (a) a line graph, (b) a scatterplot, and (c) a boxplot all together!

Next Steps

There is still A LOT of work to do on this package which include (but are note limited to):

Better softcoding for front end user options in YAML

Images in the title section for logo placement which is a common attribut to posters as far as I have come to know.

Figure out compatibility with which wasn't working during the initial set up.

MUCH BETTER PACKAGE DOCUMENTATION. For

FileHomeInsertDesign

PasteNew SlideSectionClipboardSlides

456789

Slide 7 of 10English (New Zealand)

AutoSave< Off>

Search the web and your PC

Windows Taskbar

Otago University Defau


File | C:/Users/Matt/Documents/R/postOTAGO/R/OtagoPort.html

AppsBookmarksStatisticsVDOTIRFStrava to GPXWinSplitsKeplerTrainingOther bookmarks

Objectives

1. Easy to use reproducible poster design.
2. Integration with
3. Easy transition from to or

Methods



UNIVERSITY
of
OTAGO
Te Whare Wānanga o Ōtago
NEW ZEALAND

Results

References

Table 2: Table with 5 columns: Sepal Length, Sepal Width, Petal Length, Petal Width, Species. It lists 14 rows of data for the species 'setosa'.

Footer: posterdown logo

Comments

DictateDesign IdeasVoiceDesigner

8:58 AM 12/02/2020

Questions

