ManyBabies 5 Lab Manual - DRAFT - DO NOT USE

ManyBabies 5 Leads

Updated: 2024-04-23

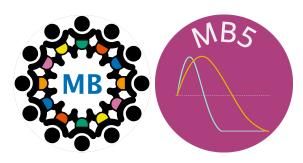
Contents

1	ManyBabies 5				
	1.1	To Do Summary	5		
2	Get	ting Started	7		
	2.1	A section	7		
3	Set	ting up the experiment	9		
	3.1	Chapters and sub-chapters	9		
	3.2	Captioned figures and tables	9		
4	Ger	neral Lab Practices	13		
5	Prior to data collection checklist				
	5.1	Footnotes	15		
	5.2	Citations	15		
6	During data collection 1				
	6.1	Equations	17		
	6.2	Theorems and proofs	17		
	6.3	Callout blocks	17		
7	After data collection 1				
	7.1	Publishing	19		
	7.2	404 pages	19		
	7.3	Metadata for sharing	19		

4	CONTENTS

8	\mathbf{Adc}	litional Chapter	pter 21	
	8.1	Here's the next chapter		21

ManyBabies 5



Thank you for contributing to ManyBabies 5 (MB5), a project of ManyBabies, a cross-lab effort to provide an empirical basis for discussions of replicability as well as cultural, developmental, and methodological variability in infant perception/cognition research. In this project, we are examining drivers of infants' familiarity vs. novelty preference through a collaboratively-designed "best test" of Hunter and Ames' (1988) model of infants' visual preference for familiar and novel stimuli. More details about the background, design and hypotheses can be found in the Registered Report. Below we provide instructions on how to implement the experiment in your lab and report data back to the project as a whole.

Project website: manybabies.org/MB5 ManyBabies General Manual: link MB5 Collaboration Agreement: link MB5 contact: mb5@manybabies.org

1.1 To Do Summary

- 1. If you are new to MB5, complete the Initial Sign-Up Form.
- 2. Read this manual start to finish.

BEFORE you begin data collection:

- 3. Please ensure that you have carefully read the MB5 Collaboration Agreement and all of the documentation from the ManyBabies General Manual regarding ethical research, authorship, data sharing, and data use.
- 4. Set up your study in consultation with this document. Carefully record any needed deviations from the protocol. Decide on your planned sample size/stopping rule.
- 5. Complete the Laboratory Questionnaire [insert link], submit Ethics approval and other documentation/materials.
- 6. Create and submit your walkthrough video.
- 7. Run pilot sample through data validator.
- 8. Send email to mb5@manybabies.org to let the leadership team know that you are ready for 'greenlighting'.
- 9. Wait for your official "greenlight" from the leadership team to begin data collection.

Data collection:

10. Collect your data!

AFTER you finish data collection:

- 11. Complete your participant and trial data files in consultation with the data reporting instructions [insert link].
- 12. Submit your data using the MB5 data upload form.

IMPORTANT: DO NOT begin data collection (other than piloting) until you have been explicitly (and individually) "greenlighted" to do so.

bookdown::serve_book()

Getting Started

All chapters start with a first-level heading followed by your chapter title, like the line above. There should be only one first-level heading (#) per .Rmd file.

2.1 A section

All chapter sections start with a second-level (##) or higher heading followed by your section title, like the sections above and below here. You can have as many as you want within a chapter.

An unnumbered section

Chapters and sections are numbered by default. To un-number a heading, add a {.unnumbered} or the shorter {-} at the end of the heading, like in this section.

Setting up the experiment

Cross-references make it easier for your readers to find and link to elements in your book.

3.1 Chapters and sub-chapters

There are two steps to cross-reference any heading:

- 1. Label the heading: # Hello world {#nice-label}.
 - Leave the label off if you like the automated heading generated based on your heading title: for example, # Hello world = # Hello world {#hello-world}.
 - To label an un-numbered heading, use: # Hello world {-#nice-label} or {# Hello world .unnumbered}.
- 2. Next, reference the labeled heading anywhere in the text using \@ref(nice-label); for example, please see Chapter ??.
 - If you prefer text as the link instead of a numbered reference use: any text you want can go here.

3.2 Captioned figures and tables

Figures and tables with captions can also be cross-referenced from elsewhere in your book using \@ref(fig:chunk-label) and \@ref(tab:chunk-label), respectively.

See Figure 3.1.

```
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
```

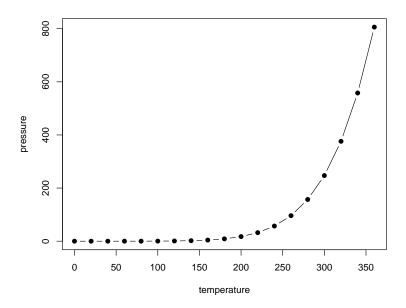


Figure 3.1: Here is a nice figure!

Don't miss Table 3.1.

```
knitr::kable(
  head(pressure, 10), caption = 'Here is a nice table!',
  booktabs = TRUE
)
```

Table 3.1: Here is a nice table!

temperature	pressure
0	0.0002
20	0.0012
40	0.0060
60	0.0300
80	0.0900
100	0.2700
120	0.7500
140	1.8500
160	4.2000
180	8.8000

General Lab Practices

[note: this could maybe be a more comprehensive section that includes info about offline coding]

You can add parts to organize one or more book chapters together. Parts can be inserted at the top of an .Rmd file, before the first-level chapter heading in that same file.

Add a numbered part: # (PART) Act one {-} (followed by # A chapter)

Add an unnumbered part: # (PART*) Act one {-} (followed by # A chapter)

Add an appendix as a special kind of un-numbered part: # (APPENDIX) Other stuff {-} (followed by # A chapter). Chapters in an appendix are prepended with letters instead of numbers.

Prior to data collection checklist

5.1 Footnotes

Footnotes are put inside the square brackets after a caret $^{\smallfrown}$ []. Like this one 1 .

5.2 Citations

Reference items in your bibliography file(s) using Okey.

For example, we are using the **bookdown** package (Xie, 2023) (check out the last code chunk in index.Rmd to see how this citation key was added) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015) (this citation was added manually in an external file book.bib). Note that the .bib files need to be listed in the index.Rmd with the YAML bibliography key.

The RStudio Visual Markdown Editor can also make it easier to insert citations: https://rstudio.github.io/visual-markdown-editing/#/citations

¹This is a footnote.

During data collection

6.1 Equations

Here is an equation.

$$f(k) = \binom{n}{k} p^k \left(1 - p\right)^{n - k} \tag{6.1}$$

You may refer to using \@ref(eq:binom), like see Equation (6.1).

6.2 Theorems and proofs

Labeled theorems can be referenced in text using \@ref(thm:tri), for example, check out this smart theorem 6.1.

Theorem 6.1. For a right triangle, if c denotes the length of the hypotenuse and a and b denote the lengths of the **other** two sides, we have

$$a^2 + b^2 = c^2$$

 $Read\ more\ here\ https://bookdown.org/yihui/bookdown/markdown-extensions-by-bookdown.html.$

6.3 Callout blocks

The R Markdown Cookbook provides more help on how to use custom blocks to design your own callouts: https://bookdown.org/yihui/rmarkdown-cookbook/custom-blocks.html

After data collection

7.1 Publishing

HTML books can be published online, see: https://bookdown.org/yihui/bookdown/publishing.html

7.2 404 pages

By default, users will be directed to a 404 page if they try to access a webpage that cannot be found. If you'd like to customize your 404 page instead of using the default, you may add either a _404.Rmd or _404.md file to your project root and use code and/or Markdown syntax.

7.3 Metadata for sharing

Bookdown HTML books will provide HTML metadata for social sharing on platforms like Twitter, Facebook, and LinkedIn, using information you provide in the index.Rmd YAML. To setup, set the url for your book and the path to your cover-image file. Your book's title and description are also used.

This gitbook uses the same social sharing data across all chapters in your bookall links shared will look the same.

Specify your book's source repository on GitHub using the edit key under the configuration options in the _output.yml file, which allows users to suggest an edit by linking to a chapter's source file.

Read more about the features of this output format here:

https://pkgs.rstudio.com/bookdown/reference/gitbook.html

Or use:

?bookdown::gitbook

Additional Chapter

8.1 Here's the next chapter

Wow, really insightful!!

Bibliography

Xie, Y. (2015). Dynamic Documents with R and knitr. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2023). bookdown: Authoring Books and Technical Documents with R Markdown. R package version 0.35.