

[Name of Workshop][Year]

Instructors: [list instructor names here]

[Insert dates of the workshop]

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Chapter 1

Welcome

Welcome to CBW's [workshop name, year] Workshop!

Put some introductory content here. (ex. links to bioinformatics.ca, general info)

1.1 Course Schedule

Copy paste a table into https://www.tablesgenerator.com/markdown_tables (select convert to markdown) to create a table in markdown.

1.2 Pre-workshop Materials

Click here for your prework!

1.3 Slidedecks & Other Content

Sample PDF

This is a simple PDF file. Fun fun fun.

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1.4 Downloads

Insert downloads (ex. datasets) or other tech instructions here (ex. AWS Instructions)

1.5 Meet Your Faculty

Here's your team!

1.5.1 Instructor, TA, ...

Job Title Company/University/... Location

— contact information

[insert description of the person]

1.5.2 Michelle Brazas, PhD



Scientific Director Canadian Bioinformatics Workshops (CBW)
Toronto, ON, CA

— support@bioinformatics.ca

Dr. Michelle Brazas is the Associate Director for Adaptive Oncology at the Ontario Institute for Cancer Research (OICR), and acting Scientific Director at Bioinformatics.ca. Previously, Dr. Brazas was the Program Manager for Bioinformatics.ca and a faculty member in Biotechnology at BCIT. Michelle co-founded and runs the Toronto Bioinformatics User Group (TorBUG) now in its 11th season, and plays an active role in the International Society of Computational Biology where she sits on the Board of Directors and Executive Board.

1.5.3 Nia Hughes (she/her)



Program Manager, Bioinformatics.ca Ontario Institute for Cancer
Research Toronto, ON, Canada

— nia.hughes@oicr.on.ca

Nia is the Program Manager for Bioinformatics.ca, where she coordinates the Canadian Bioinformatics Workshop Series. Prior to starting at OICR, she completed her M.Sc. in Bioinformatics from the University of Guelph in 2020 before working there as a bioinformatician studying epigenetic and transcriptomic patterns across maize varieties.

1.6 Class Photo

<- Replace the file address to your actual class photo file location

1.7 TEMPLATE-REFERENCES

Everything below will hopefully help you create a workshop website and understand how to work with this template.

1.7.1 Comments

Notes:

`#` is the notation for making a comment in a .R/md file. The comment begins after symbols.

Some explanations for this template will be in these comments.

You can instantly make a comment by clicking on the line with the text you want to comment and using the keyboard command: `cmd/ctrl + shift + c`.

1.7.2 Content in Square Brackets

Content that you should replace is written in square brackets [insert here].

Chapter 2

Parts

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.

Chapter 3

Footnotes and citations

3.1 Footnotes

Footnotes are put inside the square brackets after a caret `^[]`. Like this one ¹.

3.2 Citations

Reference items in your bibliography file(s) using `@key`.

For example, we are using the **bookdown** package [Xie, 2024] (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.

Chapter 4

Blocks

4.1 Equations

Here is an equation.

$$f(k) = \binom{n}{k} p^k (1-p)^{n-k} \quad (4.1)$$

You may refer to using `\@ref{eq:binom}`, like see Equation (4.1).

4.2 Theorems and proofs

Labeled theorems can be referenced in text using `\@ref{thm:tri}`, for example, check out this smart theorem 4.1.

Theorem 4.1. *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>.

4.3 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>

Chapter 5

Sharing your book

5.1 Publishing

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

5.2 404 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.

5.3 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 book—all 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
```

Bibliography

Yihui Xie. *Dynamic Documents with R and knitr*. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition, 2015. URL <http://yihui.org/knitr/>. ISBN 978-1498716963.

Yihui Xie. *bookdown: Authoring Books and Technical Documents with R Markdown*, 2024. URL <https://github.com/rstudio/bookdown>. R package version 0.40.