



Welcome

This is the online home of *Geocomputation with R*, a book on geographic data analysis, visualization and modeling.

Note: The first edition of the book has been published by CRC Press in the [R Series](#). You can buy the book from [CRC Press](#), or [Amazon](#), and see the archived first edition on the open source book platform [bookdown.org](#).

Inspired by [bookdown](#) and the Free and Open Source Software for Geospatial ([FOSS4G](#)) movement, this book is open source. This ensures its contents are reproducible and publicly accessible for people worldwide.

The online version of the book is hosted at [geocompr.robinlovelace.net](#) and kept up-to-date by [GitHub Actions](#), which provides information on its 'build status' as follows:

Render passing

This version of the book was built on GH Actions on 2021-11-12.



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How to contribute?

bookdown makes editing a book as easy as editing a wiki, provided you have a GitHub account ([sign-up at github.com](#)). Once logged-in to GitHub, click on the 'Edit this page' icon in the right panel of the book website. This will take you to an editable version of the the source [R Markdown](#) file that generated the page you're on.

To raise an issue about the book's content (e.g. code not running) or make a feature request, check-out the [issue tracker](#).

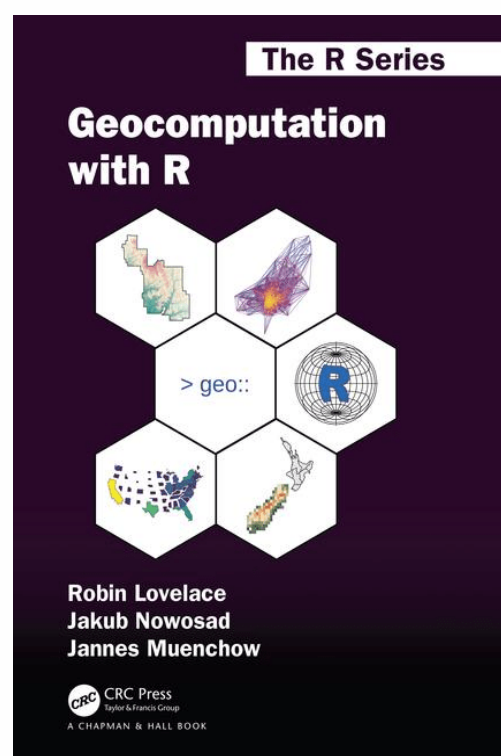
Maintainers and contributors must follow this repository's [CODE OF CONDUCT](#).

Reproducibility

The quickest way to reproduce the contents of the book if you're new to geographic data in R may be in the web browser, thanks to [Binder](#). Clicking on the link below should open a new window containing RStudio Server in your web browser, enabling you to open chapter files and running code chunks to test that the code is reproducible.

launch binder

If you see something like the image below, congratulations, it's worked and you can start exploring Geocomputation with R in a cloud-based environment (while being aware of [mybinder.org user guidelines](#)):



Note: Second Edition is under construction 🚧

Now is a great time to test in-development packages and provide feedback

[Provide feedback \(5 min\)](#).

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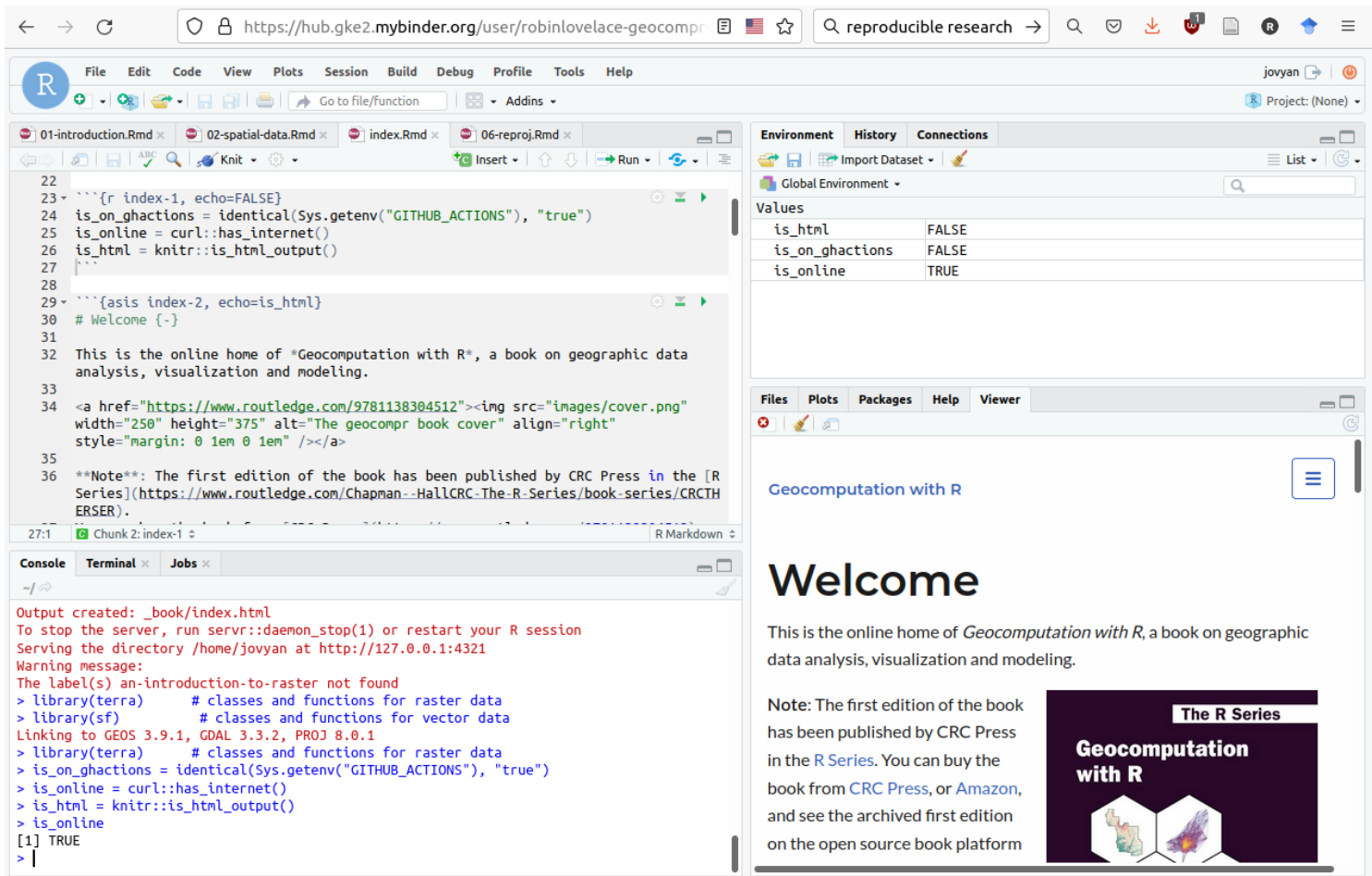


FIGURE 0.1: Screenshot of reproducible code contained in Geocomputation with R running in RStudio Server on a browser served by Binder

To reproduce the code in the book on your own computer, you need a recent version of [R](#) and up-to-date packages. These can be installed using the [remotes](#) package.

```
install.packages("remotes")
remotes::install_github("geocompr/geocompkg")
remotes::install_github("nowosad/spData")
remotes::install_github("nowosad/spDataLarge")

# During development work on the 2nd edition you may also need dev versions of
# other packages to build the book, e.g., :
remotes::install_github("rspatial/terra")
remotes::install_github("mtennekes/tmap")
```

After installing the book’s dependencies, you should be able to reproduce code chunks in each of the book’s chapters. If you clone the book’s repo and navigate into the `geocompr` folder, you should be able to reproduce the contents with the following command:

```
bookdown::serve_book()
```

See the project’s [GitHub repo](#) for details on reproducing the book.

Supporting the project

If you find the book useful, please support it by:

- Telling people about it in person
- Communicating about the book in digital media, e.g., via the [#geocompr hashtag](#) on Twitter (see our [Guestbook at geocompr.github.io](#)) or by letting us know of [courses](#) using the book
- [Citing](#) or [linking-to](#) it
- ‘[Starring](#)’ the [geocompr GitHub repository](#)
- Reviewing it, e.g., on Amazon or [Goodreads](#)
- Asking questions about or making suggestion on the content via [GitHub](#) or Twitter.
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Further details can be found at github.com/Robinlovelace/geocompr.

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[Foreword \(1st Edition\) »](#)

"Geocomputation with R" was written by Robin Lovelace, Jakub Nowosad, Jannes Muenchow. It was last built on 2021-11-12.

This book was built by the [bookdown](#) R package.