



Using posterdown to generate reproducible conference posters via RMarkdown > Knitr > Markdown > Pandoc > HTML/CSS > PDF workflow



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1 Introduction

Welcome to `posterdown` ! This is my attempt to provide a semi-smooth workflow for those who wish to take their `RMarkdown` skills to the conference world. Many creature comforts from `RMarkdown` are available in this package such as `Markdown` section notation, figure captioning, and even citations like this one (Allaire, Xie, McPherson, et al. 2018). The rest of this example poster will show how you can insert typical conference poster features into your own document.

1.1 Study Site

Here is a map made to show the study site using `ggplot2`, `ggspatial`, and `sf` and you can even reference this with a hyperlink, this will take you to **Figure 1.1** (Dunnington, n.d.; Arnold, n.d.; Pebesma 2018).

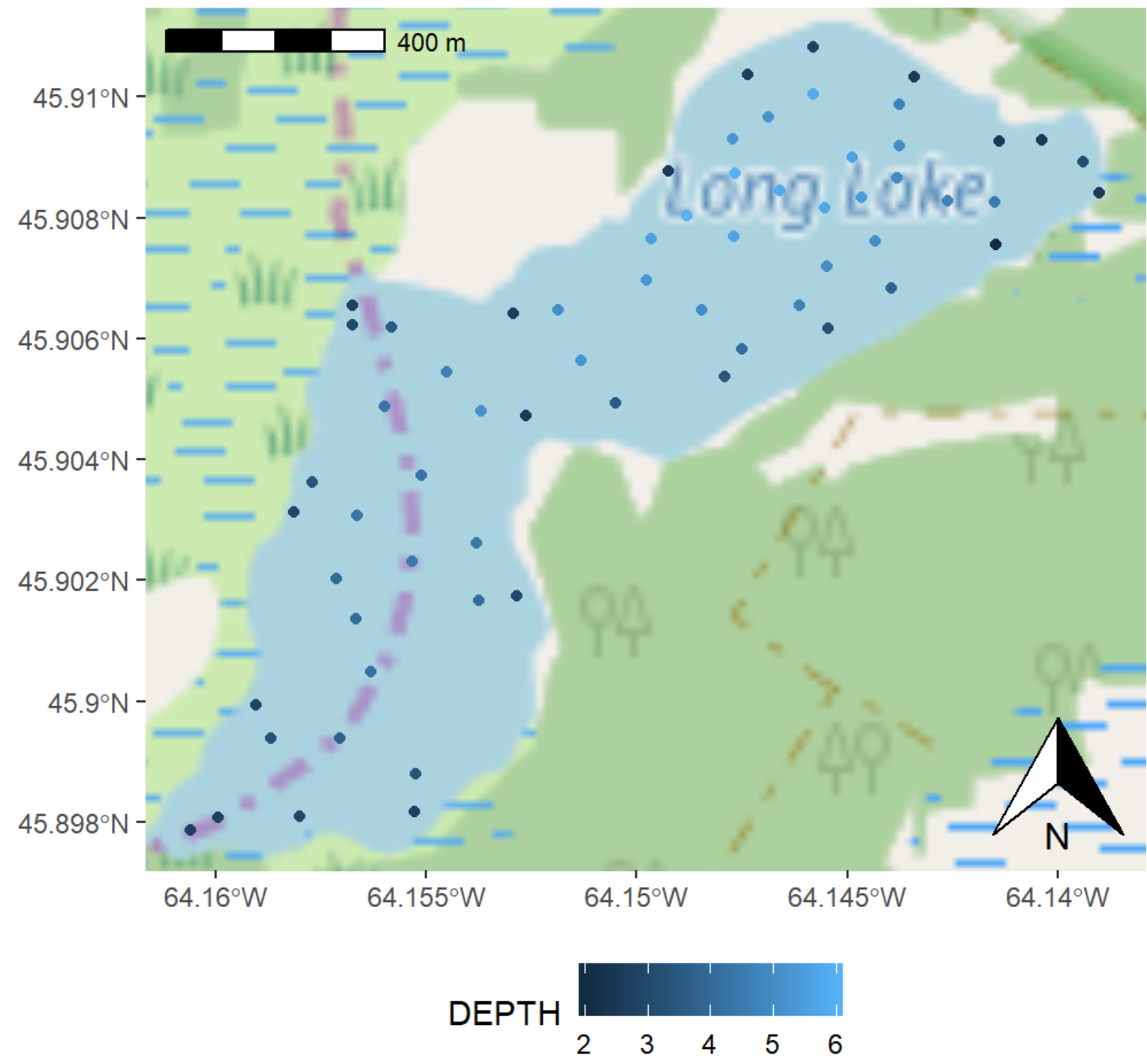


Figure 1.1: Map of Long Lake eample from the `ggspatial` package.

1.2 Objectives

1. Easy to use reproducible poster design.
2. Integration with `RMarkdown`.
3. Easy transition from `posterdown` to `thesisdown` or `rticles` (Allaire, Xie, R Foundation, et al. 2018; Solomon 2019).

2 Methods

This package uses the same workflow approach as the `RMarkdown` you know and love. Basically it goes from `RMarkdown` > `Knitr` > `Markdown` > `Pandoc` > `HTML/CSS` > `PDF`. You can even use the bibliography the same way (Turner et al. 2014).

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3 Results

Usually you want to have a nice table displaying some important results that you have calculated. In `posterdown` this is as easy as using the `kable` table formatting you are probably use to as per typical `RMarkdown` formatting. I suggesting checking out the `kableExtra` package and its in depth documentation on customizing these tables found [here](#) (Zhu 2019). Hopfully I can make this with an inline refernce like, Table 3.1.

Table 3.1: Table caption.

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width
5.1	3.5	1.4	0.2
4.9	3.0	1.4	0.2
4.7	3.2	1.3	0.2
4.6	3.1	1.5	0.2
5.0	3.6	1.4	0.2

Look at this animation (Pedersen and Robinson 2017) !!!! Figure 3.1.

```
library(ggplot2)
library(gganimate)
library(gapminder)

ggplot(gapminder, aes(gdpPercap,
                      lifeExp,
                      size = pop,
                      colour = country)) +

  geom_point(alpha = 0.7, show.legend = FALSE) +
  scale_colour_manual(values = country_colors) +
  scale_size(range = c(2, 12)) +
  scale_x_log10() +
  facet_wrap(~continent) +
  # Here comes the gganimate specific bits
  labs(title = 'Year: {frame_time}',
       x = 'GDP per capita',
       y = 'life expectancy') +
  transition_time(year) +
  ease_aes('linear')
```

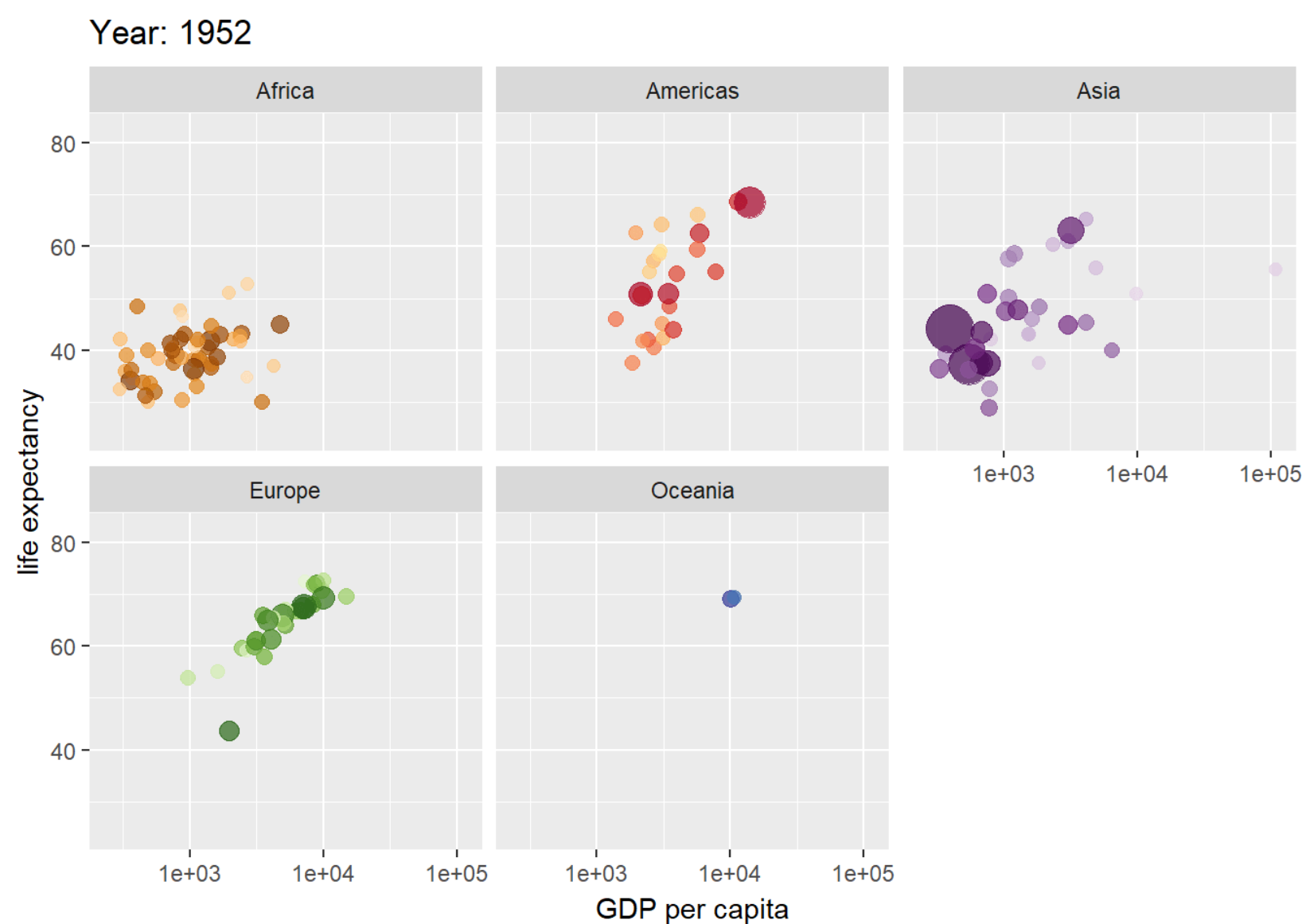


Figure 3.1: WOW THIS IS AN AWESOME GIF!

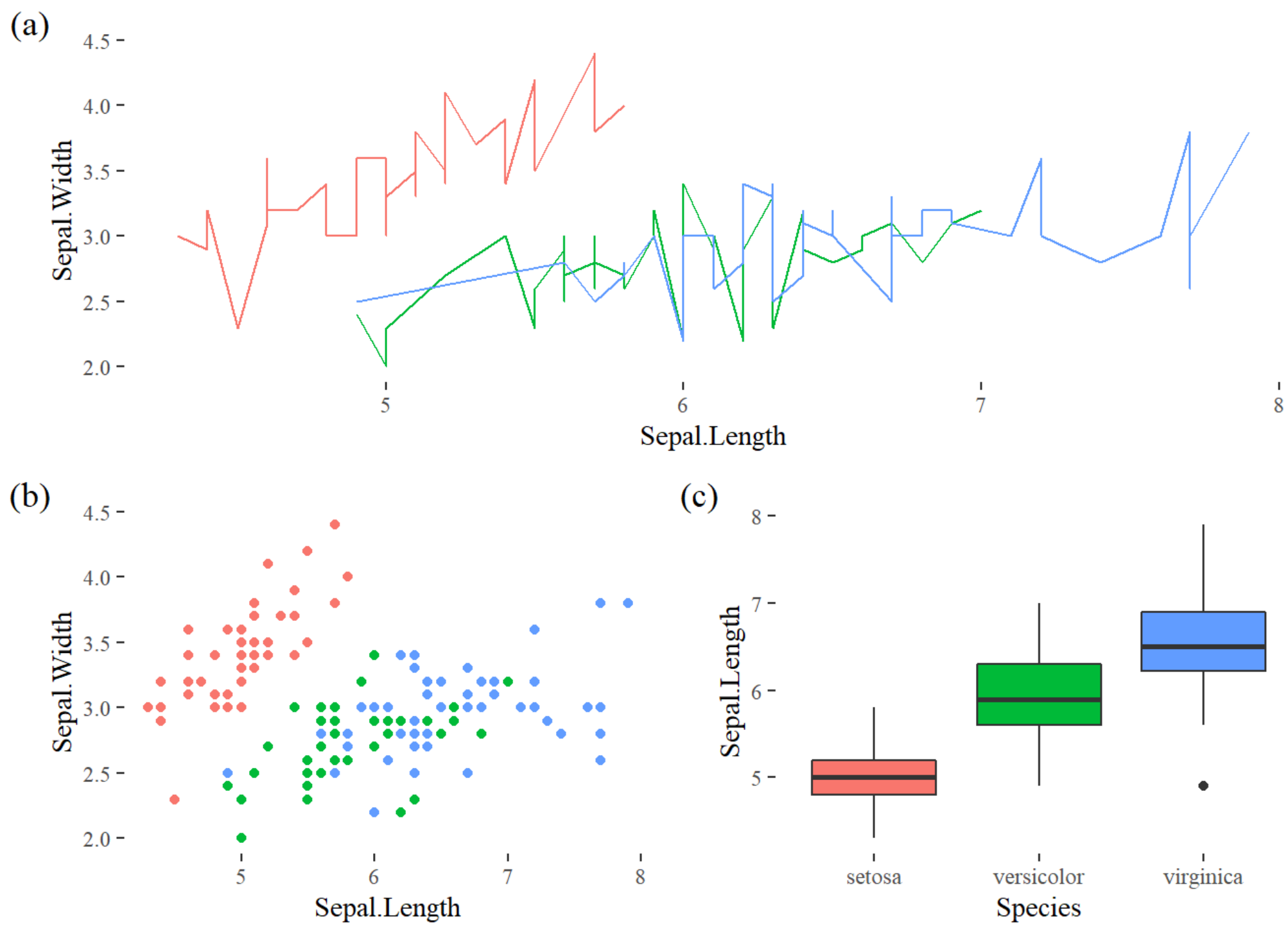


Figure 3.2: Using `ggplot` and `patchwork` to generate a layout of multiple plots in one figure. The iris dataset was used to generate (a) a line graph, (b) a scatterplot, and (c) a boxplot all together!

4 Next Steps

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tincidunt efficitur. Praesent dictum mauris at diam maximus maximus (Thorne 2019).

5 Conclusion

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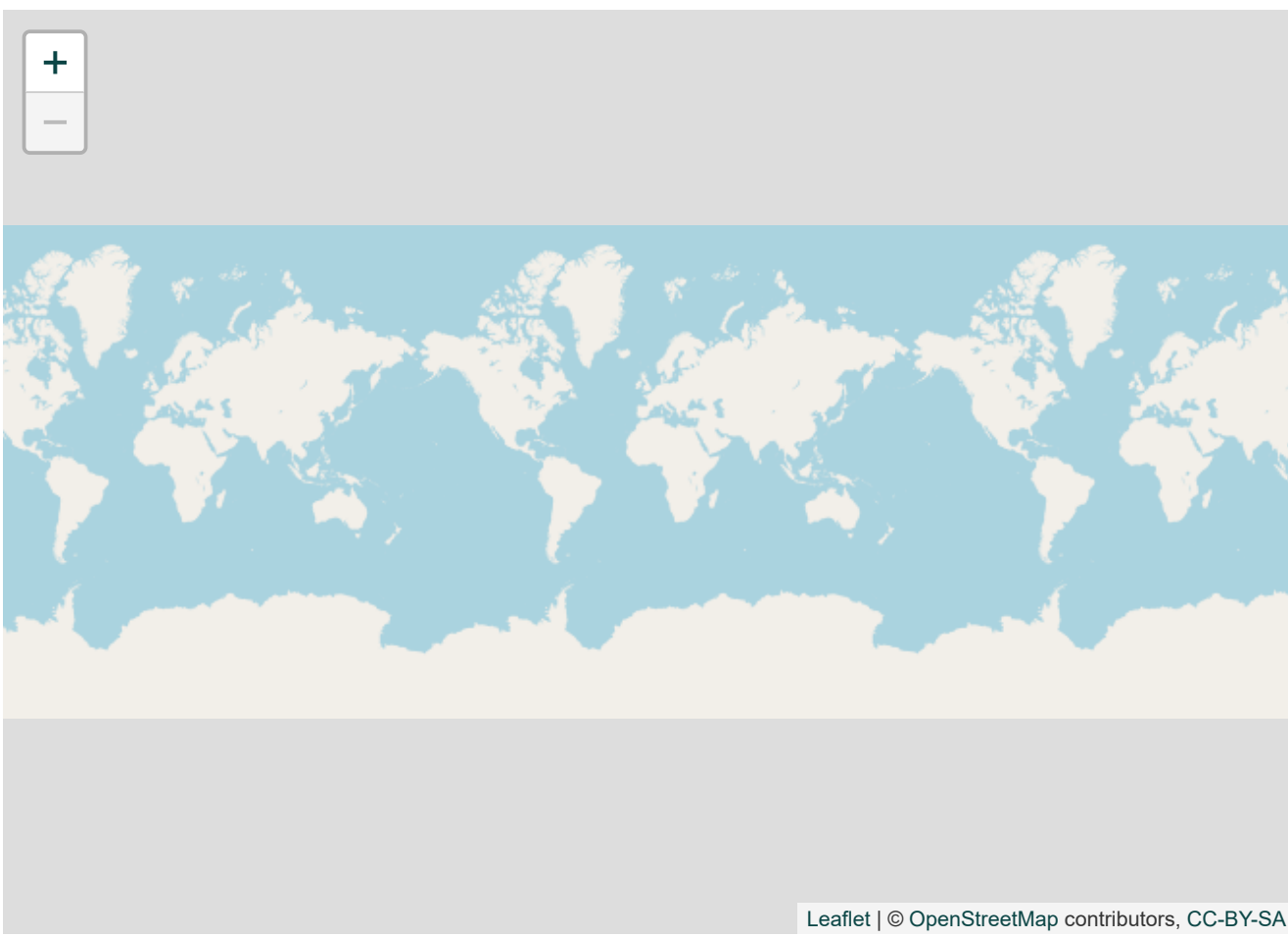


Figure 5.1: Here is a leaflet figure which whill run as expected online, when printed it will take the last state it is left in beofre choosing to print.

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