

# Introduction to **patchwork**

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# No cheatsheet

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# How pathchwork works

- A set of operations to combine plots: imagine what adding, dividing, multiplying plots would mean!

:mind\_blowing:

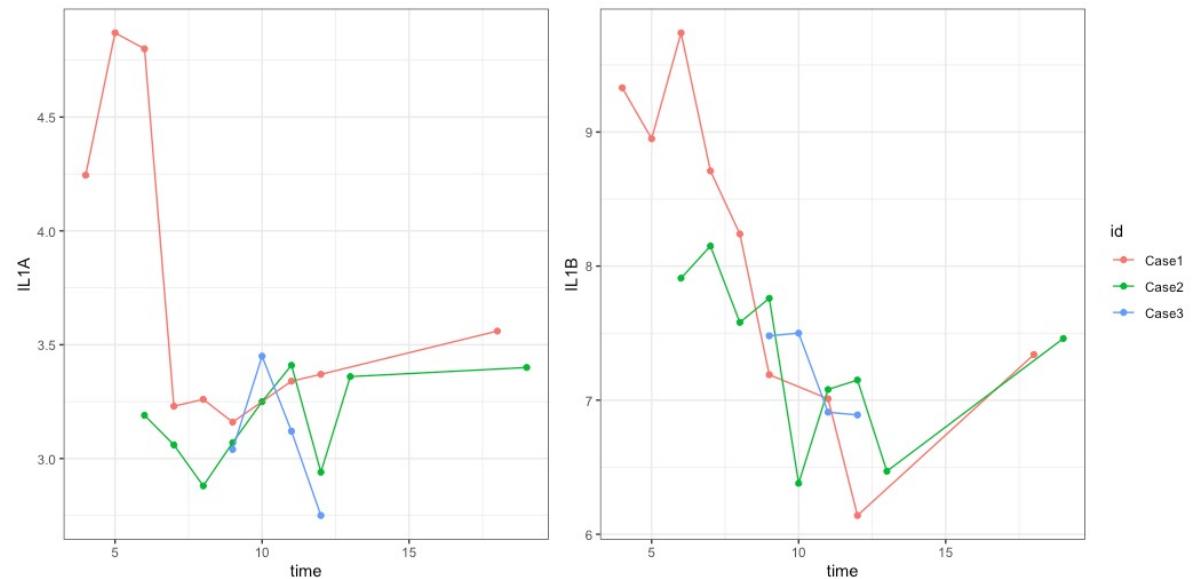
- In practice:
  - “+” general operation (does a lot of stuff for you)
  - “/” stack plots on one another
  - “|” put plots next to each other
  - `plot_layout(...)` to control the layout
  - and more!!!! (e.g., “&”, “`plot_annotation`”)

## Example: IL1A and IL1B

```
ill1a <- covid |>
  filter(status == "nCOV") |>
  ggplot(aes(x = time, y =
IL1A, color = id)) +
  geom_point() +
  geom_line()
```

```
ill1b <- covid |>
  filter(status == "nCOV") |>
  ggplot(aes(x = time, y =
IL1B, color = id)) +
  geom_point() +
  geom_line()
```

```
(ill1a | ill1b ) +
  plot_layout(guides =
"collect")
```



# Exercise

Compose the panel B and C of figure 2 with patchwork, and then combine them together.

# Group exercise

In groups, create a report with R Markdown with

- a title, the authors names, and today's date
- chunks to load and pre-process the data
- a text to shortly explain the data
- a reproduction of Figure 2 using pheatmap, ggplot2 and patchwork

During the debrief, prepare an answer to the following questions:

- What is missing compared to the original?
- Are there choices that were made by the authors that you were able to understand and explain?
- Was it difficult?