

# Parametrise your report

## Instructions

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This exercise builds on the previous exercises where you learnt to [create a simple MS Word report](#) and to [add dynamic elements to your report](#). Mastering these two exercises is essential for successfully completing the current exercise.

## 1 Objectives

- If you have generated the MS Word report with dynamic elements as instructed in [Exercise 4](#), continue working on the same Quarto notebook you already modified. Otherwise, download the files `df1.RData`, `df2.RData`, `exercise5.qmd`, `swisstph_template.docx`, and `my_biblio.bib` using the links provided on the right-hand side of this page. For simplicity, please put these two files under the same folder and open the Quarto notebook in RStudio.
- Complete each of the following tasks and render the document after each task or set of tasks to track your progress.

## 2 Use Quarto in a terminal

- Render your MS Word report using the RStudio Terminal;

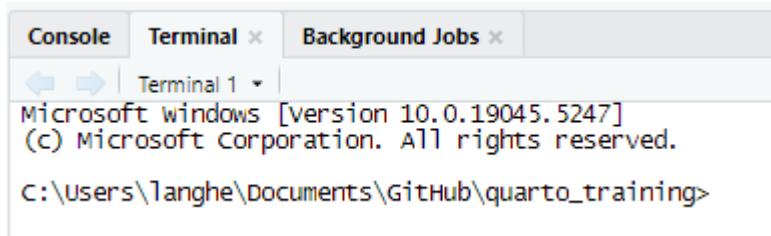
```
quarto render exercise5.qmd
```

- Change the output filename when rendering the report;

```
quarto render exercise5.qmd -o exercise5_report1.docx
```

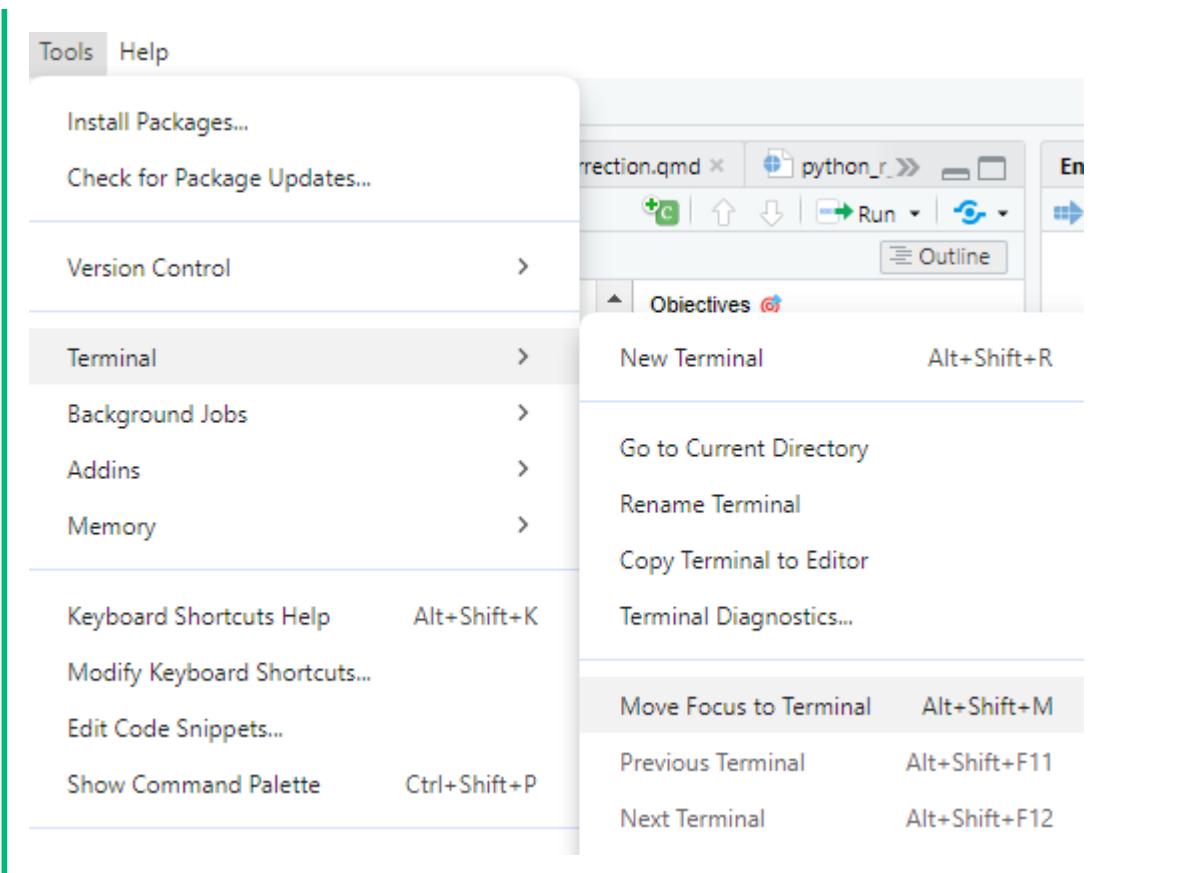
### 💡 Tip

- You can access the RStudio terminal in the **Terminal** tab immediately to the right of the **Console** tab:



A screenshot of the RStudio interface showing the top navigation bar. The 'Console' tab is active and highlighted in blue. To its right is the 'Terminal' tab, which is also highlighted in blue and has a dropdown menu showing 'Terminal 1'. The third tab is 'Background Jobs'. Below the tabs, the terminal window displays a Microsoft Windows command prompt. The text reads: 'Microsoft windows [version 10.0.19045.5247] (c) Microsoft Corporation. All rights reserved.' followed by the path 'C:\Users\1anghe\Documents\GitHub\quarto\_training>'.

- If the terminal tab is not visible, go to **Tools > Terminal > Move Focus to Terminal**



### 3 Parametrise your report

- Adjust the report to focus on data for the year 2022 only ;
- You were unfortunately provided with a previous erroneous version of the dataset. Update the report to use the dataset stored in `df2.RData` instead of the one stored in `df1.RData` ;
- Render 3 reports (1 report with `df2.RData` for the full outbreak period, 1 report with `df1.RData` for year 2021 only, 1 report with `df2.RData` for year 2021 only) adapting the following command which needs to be run in a terminal (ensure your working directory is the one where your Quarto document is stored and all file paths are correct).

```
quarto render exercise5.qmd -o exercise5_report_df1.docx -P dataset:df1.RData
```

 Tip

- See [Quarto documentation about parameters](#)
- See [Quarto documentation about rendering outputs using different parameters](#)

 Discussion question

Discuss the advantages and disadvantages of using R within Quarto compared to using R scripts.