Global high-resolution river temperature modelling

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2024-09-24

Comments

This is a demo manuscript. The tables are graphs are non-relevant to the project itself and are for practice only.

Tables

```
summary(cars)
```

```
##      speed           dist       
##  Min.   : 4.0   Min.   :  2.00  
##  1st Qu.:12.0   1st Qu.: 26.00  
##  Median :15.0   Median : 36.00  
##  Mean   :15.4   Mean   : 42.98  
##  3rd Qu.:19.0   3rd Qu.: 56.00  
##  Max.   :25.0   Max.   :120.00
```

Table 1. Speeds and distances.

```
knitr::kable(head(iris))
```

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa

Table 2. Iris information.

```
knitr::kable(head(iris),
             align = "l",
             caption = "Iris Information")
```

Table 2: Iris Information

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa

Table 3. Iris information with caption and cell alignment settings.

Plots

```
plot(pressure,
     pch = 19,
     col = "blue",
     cex = 2,
     xlab = "Temperature",
     ylab = "Pressure")
```

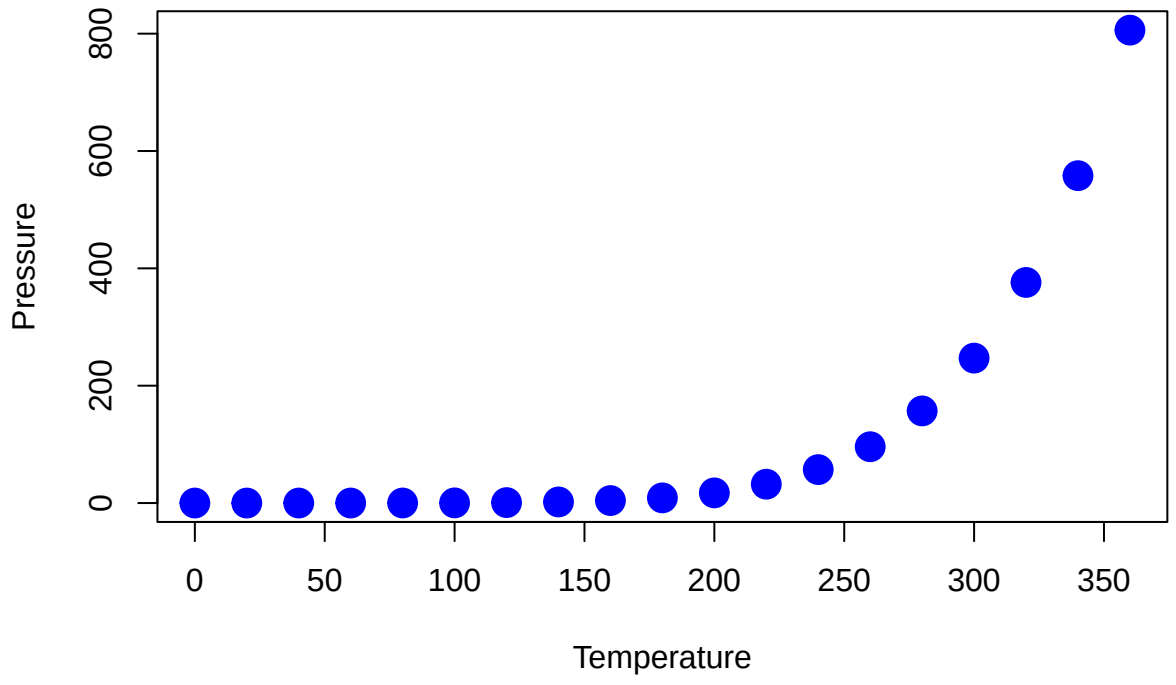

Fig 1. Pressure vs. temperature plot.

Plots from file

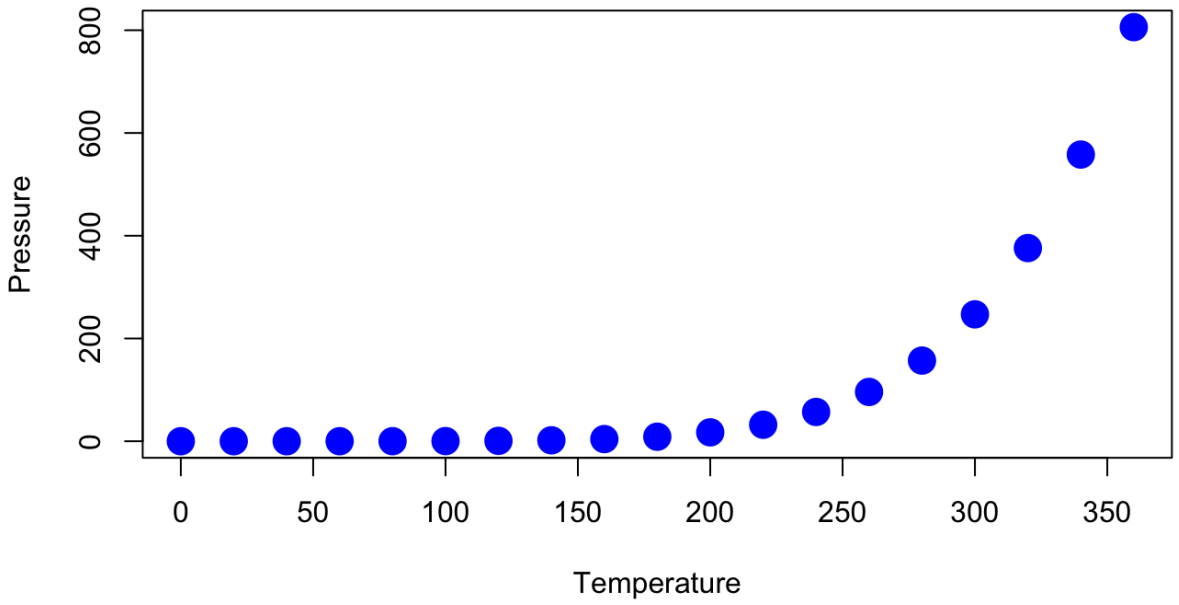

Fig 1. Pressure vs. temperature plot imported from folder **03_figs**.

Equations

I can have in-line equation $alpha = beta$ Or start at a new line

$$alpha = beta$$

References

This is a citation in brackets (Vliet *et al.* 2013)

Vliet *et al.* (2013) is a citation in a sentence.

I want my references here:

Allaire, J., Xie, Y., Dervieux, C., McPherson, J., Luraschi, J., Ushey, K., *et al.* (2024a). *rmarkdown: Dynamic documents for r.*

Allaire, J., Xie, Y., Dervieux, C., R Foundation, Wickham, H., Journal of Statistical Software, *et al.* (2024b). *rticles: Article formats for r markdown.*

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Firke, S. (2023). *janitor: Simple tools for examining and cleaning dirty data.*

Horst, A.M., Hill, A.P. & Gorman, K.B. (2020). *palmerpenguins: Palmer archipelago (antarctica) penguin data.*

R Core Team. (2024). *R: A language and environment for statistical computing.* R Foundation for Statistical Computing, Vienna, Austria.

Vliet, M.T.H. van, Franssen, W.H.P., Yearsley, J.R., Ludwig, F., Haddeland, I., Lettenmaier, D.P., *et al.* (2013). Global river discharge and water temperature under climate change. *Global Environmental Change*, 23, 450464.
Wickham, H., Averick, M., Bryan, J., Chang, W., McGowan, L.D., François, R., *et al.* (2019). Welcome to the tidyverse. *Journal of Open Source Software*, 4, 1686.
Xie, Y. (2014). knitr: A comprehensive tool for reproducible research in R. In: *Implementing reproducible computational research* (eds. Stodden, V., Leisch, F. & Peng, R.D.). Chapman; Hall/CRC.
Xie, Y. (2015). *Dynamic documents with R and knitr*. 2nd edn. Chapman; Hall/CRC, Boca Raton, Florida.
Xie, Y. (2024). *knitr: A general-purpose package for dynamic report generation in r*.
Xie, Y., Allaire, J.J. & Grolemund, G. (2018). *R markdown: The definitive guide*. Chapman; Hall/CRC, Boca Raton, Florida.
Xie, Y., Dervieux, C. & Riederer, E. (2020). *R markdown cookbook*. Chapman; Hall/CRC, Boca Raton, Florida.

General

The `grateful` package

```
grateful::cite_packages(output = "paragraph", out.dir = ".")
```

We used R version 4.4.1 (R Core Team 2024) and the following R packages: janitor v. 2.2.0 (Firke 2023), knitr v. 1.48 (Xie 2014, 2015, 2024), palmerpenguins v. 0.1.1 (Horst *et al.* 2020), prereg v. 0.6.0 (Aust & Spitzer 2022), rmarkdown v. 2.28 (Allaire *et al.* 2024a; Xie *et al.* 2018, 2020), rticles v. 0.27 (Allaire *et al.* 2024b), tidyverse v. 2.0.0 (Wickham *et al.* 2019).

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.