Replicating Hirt et al. (2017) in a research compendium

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Research compendia offer a standard way of organizing the data, code, and other digital materials associated with a publication. In this exercise, we used rrtools to create a compendium for one of the figures in Hirt et al. (2017).

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Keywords: maximum speed; body size; research compendia

Highlights:

# 1 Introduction

This is a replication of figure 2A from1 (Fig. 4.1).

# 2 Background

# 3 Methods

# 4 Results

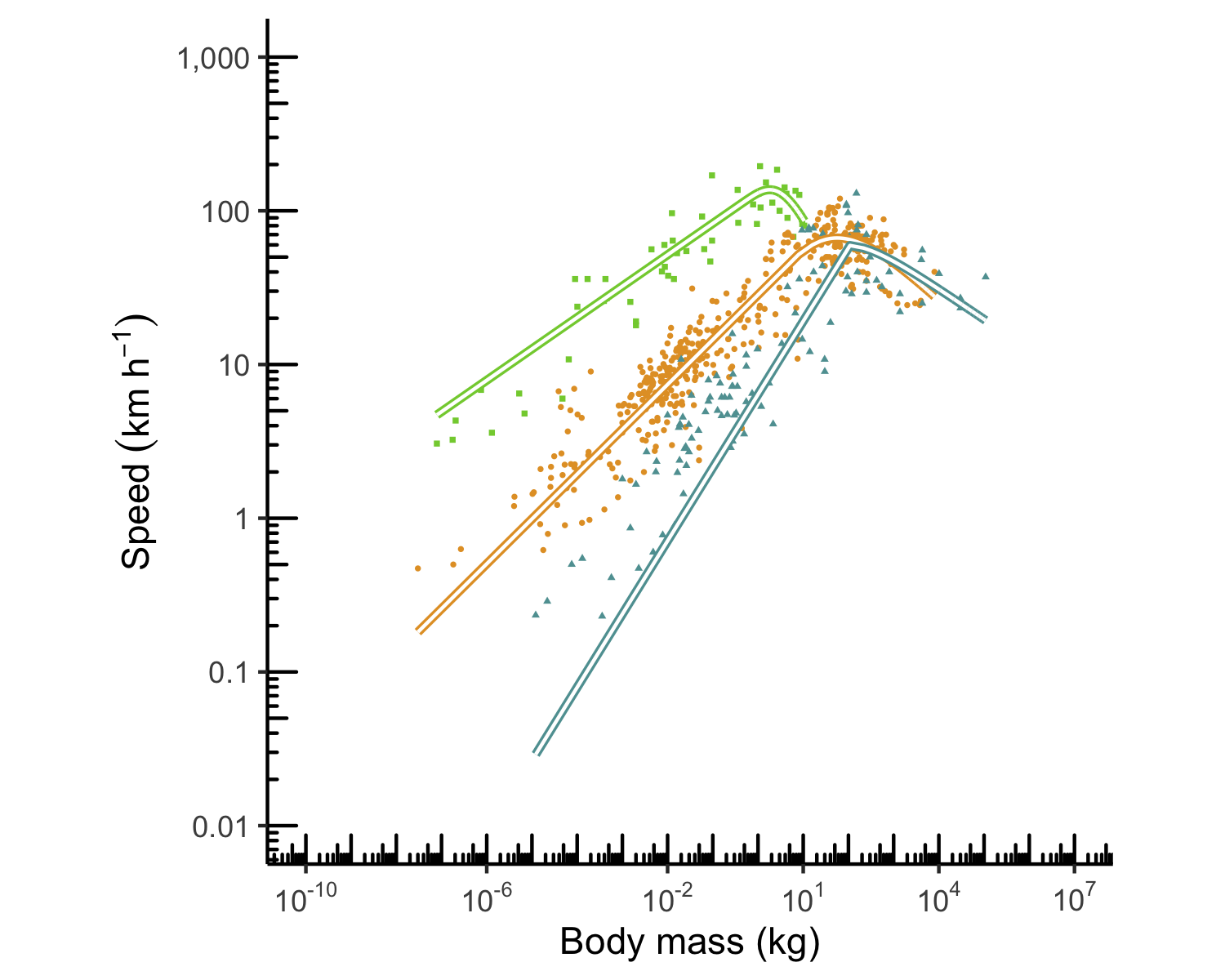


Figure 4.1: Replication of figure 2a from1

# 5 Discussion

# 6 Conclusion

# 7 Acknowledgements

# 8 References

1. Hirt, M. R., Jetz, W., Rall, B. C. & Brose, U. A general scaling law reveals why the largest animals are not the fastest. *Nature Ecology & Evolution* **1**, 1116–1122 (2017).

### 8.0.1 Colophon

This report was generated on 2021-11-30 12:24:51 using the following computational environment and dependencies:

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#>   
#> setting value  
#> version R version 4.1.0 (2021-05-18)  
#> os macOS Big Sur 10.16  
#> system x86\_64, darwin17.0  
#> ui X11  
#> language (EN)  
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#> ctype en\_US.UTF-8  
#> tz America/Los\_Angeles  
#> date 2021-11-30  
#> pandoc 2.11.4 @ /Applications/RStudio.app/Contents/MacOS/pandoc/ (via rmarkdown)  
#>   
#> ─ Packages ───────────────────────────────────────────────────────────────────  
#> package \* version date (UTC) lib source  
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#> bookdown 0.24 2021-09-02 [1] CRAN (R 4.1.0)  
#> cachem 1.0.6 2021-08-19 [1] CRAN (R 4.1.0)  
#> callr 3.7.0 2021-04-20 [1] CRAN (R 4.1.0)  
#> cli 3.1.0 2021-10-27 [1] CRAN (R 4.1.0)  
#> colorspace 2.0-2 2021-06-24 [1] CRAN (R 4.1.0)  
#> crayon 1.4.2 2021-10-29 [1] CRAN (R 4.1.0)  
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#> desc 1.4.0 2021-09-28 [1] CRAN (R 4.1.0)  
#> devtools 2.4.2 2021-06-07 [1] CRAN (R 4.1.0)  
#> digest 0.6.28 2021-09-23 [1] CRAN (R 4.1.0)  
#> dplyr \* 1.0.7 2021-06-18 [1] CRAN (R 4.1.0)  
#> ellipsis 0.3.2 2021-04-29 [1] CRAN (R 4.1.0)  
#> evaluate 0.14 2019-05-28 [1] CRAN (R 4.1.0)  
#> fansi 0.5.0 2021-05-25 [1] CRAN (R 4.1.0)  
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#> fastmap 1.1.0 2021-01-25 [1] CRAN (R 4.1.0)  
#> fs 1.5.0 2020-07-31 [1] CRAN (R 4.1.0)  
#> generics 0.1.0 2020-10-31 [1] CRAN (R 4.1.0)  
#> ggplot2 \* 3.3.5 2021-06-25 [1] CRAN (R 4.1.0)  
#> glue 1.5.0 2021-11-07 [1] CRAN (R 4.1.0)  
#> gtable 0.3.0 2019-03-25 [1] CRAN (R 4.1.0)  
#> highr 0.9 2021-04-16 [1] CRAN (R 4.1.0)  
#> htmltools 0.5.2 2021-08-25 [1] CRAN (R 4.1.0)  
#> knitr 1.36 2021-09-29 [1] CRAN (R 4.1.0)  
#> lifecycle 1.0.1 2021-09-24 [1] CRAN (R 4.1.0)  
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#> rlang 0.4.12 2021-10-18 [1] CRAN (R 4.1.0)  
#> rmarkdown 2.11 2021-09-14 [1] CRAN (R 4.1.0)  
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#> scales 1.1.1 2020-05-11 [1] CRAN (R 4.1.0)  
#> sessioninfo 1.2.1 2021-11-02 [1] CRAN (R 4.1.0)  
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#> stringr 1.4.0 2019-02-10 [1] CRAN (R 4.1.0)  
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#> tibble 3.1.6 2021-11-07 [1] CRAN (R 4.1.0)  
#> tidyselect 1.1.1 2021-04-30 [1] CRAN (R 4.1.0)  
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#> utf8 1.2.2 2021-07-24 [1] CRAN (R 4.1.0)  
#> vctrs 0.3.8 2021-04-29 [1] CRAN (R 4.1.0)  
#> withr 2.4.2 2021-04-18 [1] CRAN (R 4.1.0)  
#> xfun 0.28 2021-11-04 [1] CRAN (R 4.1.0)  
#> yaml 2.2.1 2020-02-01 [1] CRAN (R 4.1.0)  
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#>   
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The current Git commit details are:

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#> Remote: main @ origin (https://github.com/hffung/maxspeed.git)  
#> Head: [00f7214] 2021-11-30: Modify DESCRIPTION