

Using Papaja for ICMA Nov 11

Maanav Choudhary¹

¹ Rutgers University

Author Note

Add complete departmental affiliations for each author here. Each new line herein must be indented, like this line.

Enter author note here.

The authors made the following contributions. Maanav Choudhary:
Conceptualization, Writing - Original Draft Preparation, Writing - Review & Editing.

Correspondence concerning this article should be addressed to Maanav Choudhary,
Private. E-mail: maanavpilania63@gmail.com

Abstract

12

13 One or two sentences providing a **basic introduction** to the field, comprehensible to a
14 scientist in any discipline. Two to three sentences of **more detailed background**,
15 comprehensible to scientists in related disciplines. One sentence clearly stating the **general**
16 **problem** being addressed by this particular study. One sentence summarizing the main
17 result (with the words “**here we show**” or their equivalent). Two or three sentences
18 explaining what the **main result** reveals in direct comparison to what was thought to be
19 the case previously, or how the main result adds to previous knowledge. One or two
20 sentences to put the results into a more **general context**. Two or three sentences to
21 provide a **broader perspective**, readily comprehensible to a scientist in any discipline.

22

Keywords: keywords

23

Word count: X

Using Papaja for ICMA Nov 11

Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

Participants

Material

Procedure

Data analysis

We used R (Version 4.4.1; R Core Team, 2024) and the R-packages *dplyr* (Version 1.1.4; Wickham, François, Henry, Müller, & Vaughan, 2023), *forcats* (Version 1.0.0; Wickham, 2023a), *ggdist* (Version 3.3.2; Kay, 2024), *ggplot2* (Version 3.5.1; Wickham, 2016), *lubridate* (Version 1.9.3; Grolemund & Wickham, 2011), *papaja* (Version 0.1.3; Aust & Barth, 2024), *purrr* (Version 1.0.2; Wickham & Henry, 2023), *readr* (Version 2.1.5; Wickham, Hester, & Bryan, 2024), *stringr* (Version 1.5.1; Wickham, 2023b), *tibble* (Version 3.2.1; Müller & Wickham, 2023), *tidyr* (Version 1.3.1; Wickham, Vaughan, & Girlich, 2024), *tidyverse* (Version 2.0.0; Wickham et al., 2019) and *tinylabels* (Version 0.2.4; Barth, 2023) for all our analyses.

Results

There is a significant diff in the avg weight of chicks who received Diet 1 compared to Diet 3, $\Delta M = -40.30$, 95% CI $[-57.62, -22.99]$, $t(175.92) = -4.59$, $p < .001$

Discussion

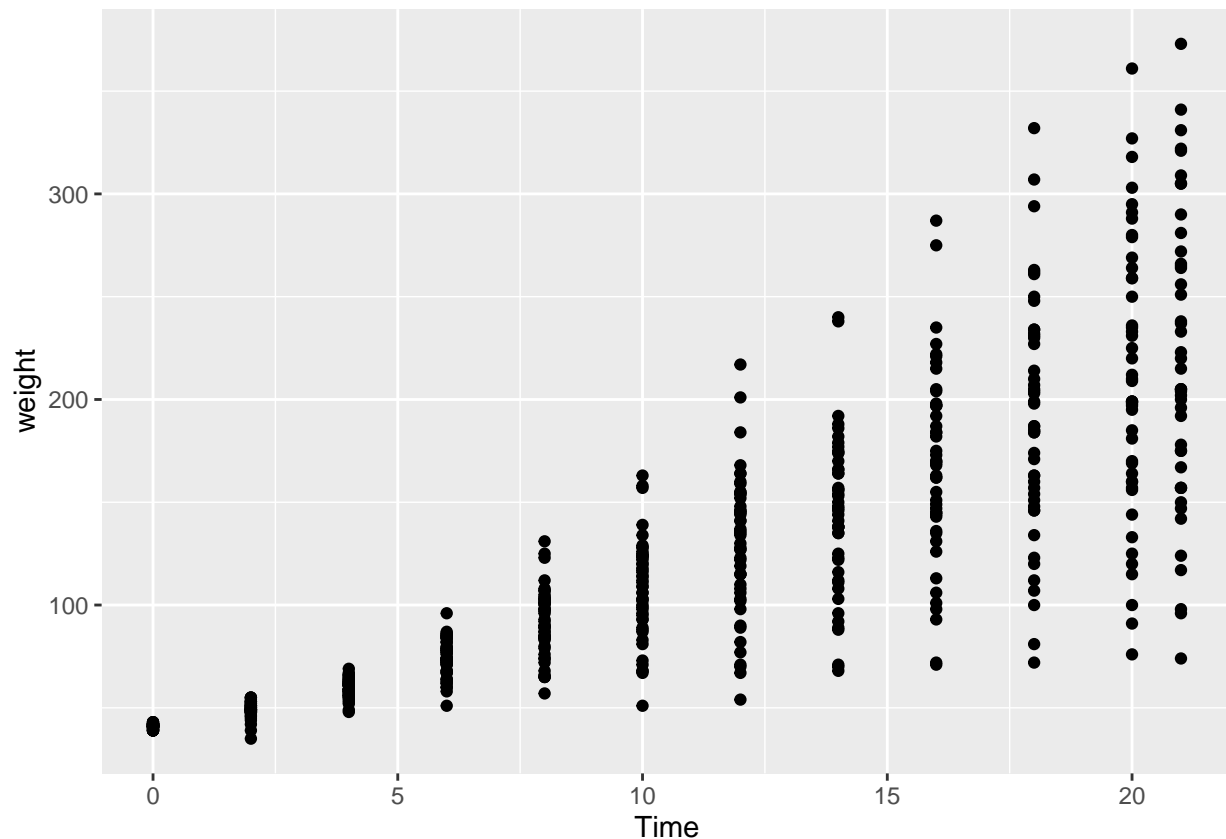


Figure 1. Each chick was weighed every other day from birth to day 20 and on day 21. This plot shows the weight of each chick (y-axis) for each day they were measured(x-axis)

References

- Aust, F., & Barth, M. (2024). *papaja: Prepare reproducible APA journal articles with R Markdown*. <https://doi.org/10.32614/CRAN.package.papaja>
- Barth, M. (2023). *tinylabls: Lightweight variable labels*. Retrieved from <https://cran.r-project.org/package=tinylabls>
- Grolemund, G., & Wickham, H. (2011). Dates and times made easy with lubridate. *Journal of Statistical Software*, 40(3), 1–25. Retrieved from <https://www.jstatsoft.org/v40/i03/>
- Kay, M. (2024). ggdist: Visualizations of distributions and uncertainty in the grammar of graphics. *IEEE Transactions on Visualization and Computer Graphics*, 30(1), 414–424.

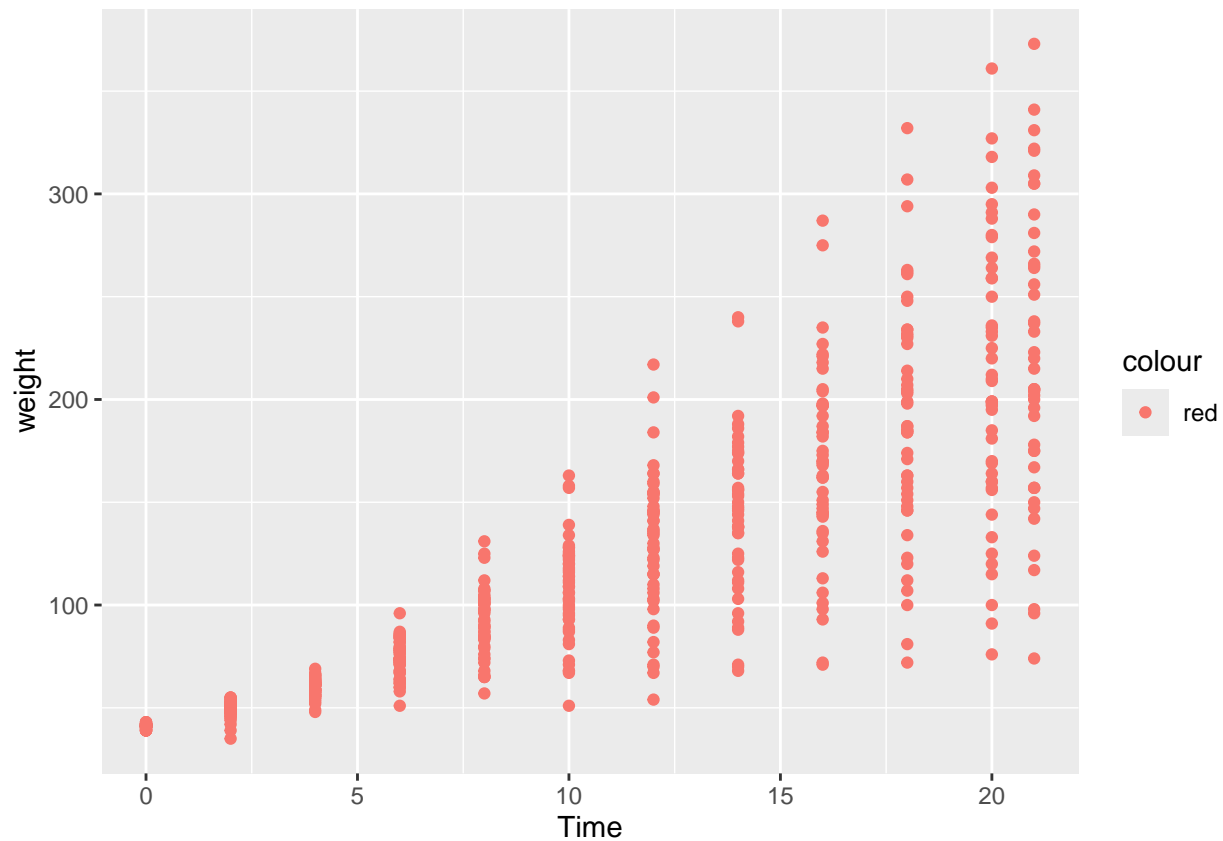


Figure 2. red plot

<https://doi.org/10.1109/TVCG.2023.3327195>

Müller, K., & Wickham, H. (2023). *Tibble: Simple data frames*. Retrieved from

<https://CRAN.R-project.org/package=tibble>

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

Austria: R Foundation for Statistical Computing. Retrieved from

<https://www.R-project.org/>

Wickham, H. (2016). *ggplot2: Elegant graphics for data analysis*. Springer-Verlag New

York. Retrieved from <https://ggplot2.tidyverse.org>

Wickham, H. (2023a). *Forcats: Tools for working with categorical variables (factors)*.

Retrieved from <https://CRAN.R-project.org/package=forcats>

Wickham, H. (2023b). *Stringr: Simple, consistent wrappers for common string operations*.

- 66 Retrieved from <https://CRAN.R-project.org/package=stringr>
- 67 Wickham, H., Averick, M., Bryan, J., Chang, W., McGowan, L. D., François, R., . . .
- 68 Yutani, H. (2019). Welcome to the tidyverse. *Journal of Open Source Software*, 4(43),
- 69 1686. <https://doi.org/10.21105/joss.01686>
- 70 Wickham, H., François, R., Henry, L., Müller, K., & Vaughan, D. (2023). *Dplyr: A*
- 71 *grammar of data manipulation*. Retrieved from
- 72 <https://CRAN.R-project.org/package=dplyr>
- 73 Wickham, H., & Henry, L. (2023). *Purrr: Functional programming tools*. Retrieved from
- 74 <https://CRAN.R-project.org/package=purrr>
- 75 Wickham, H., Hester, J., & Bryan, J. (2024). *Readr: Read rectangular text data*. Retrieved
- 76 from <https://CRAN.R-project.org/package=readr>
- 77 Wickham, H., Vaughan, D., & Girlich, M. (2024). *Tidyr: Tidy messy data*. Retrieved from
- 78 <https://CRAN.R-project.org/package=tidyr>