LATIS R Quarto Workshop

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# 1. Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

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# 2. Results

## 2.1 Results

In this section, we will present our analysis results using data from a study on volunteering (Cowles and Davis 1987). This data is available in the car data package (Fox, Weisberg, and Price 2022).

### 2.1.1 Descriptive statistics and plots

First, we will look at descriptive statistics and visualizations of the data.

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| Table 2.1: Volunteering Counts by Sex   | sex | volunteer | n | Percent | | --- | --- | --- | --- | | female | no | 431 | 55.26 | | female | yes | 349 | 44.74 | | male | no | 393 | 61.31 | | male | yes | 248 | 38.69 | |

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| Table 2.2: Average personality scores by volunteering   | volunteer | Neuroticism\_Avg | Neuroticism\_SD | Extraversion\_Avg | Extraversion\_SD | | --- | --- | --- | --- | --- | | no | 11.42 | 4.82 | 11.96 | 3.83 | | yes | 11.54 | 5.00 | 12.94 | 3.91 | |

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| Figure 2.1: Distribution of extraversion scores by volunteer status and sex. |

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| Figure 2.2: Distribution of neuroticism scores by volunteer status and sex. |

### 2.1.2 Do personality scores differ for those who do and do not volunteer?

Independent t-tests were used to determine whether personality scores differed by whether participants volunteered or not.

Extraversion differed between those who volunteered (, 95% CI , , ). As shown in [Table 2.2](#tbl-scoresbyvol), volunteers were more extraverted on average than those who did not volunteer.

However, scores on neuroticism did not differ between groups (, 95% CI , , ).

### 2.1.3 What is the relationship between extraversion and neuroticism in this sample?

Do these scores correlate in this sample in the same way for volunteers and non-volunteers?

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| Figure 2.3: Relationship between extraversion and neuroticism in the sample. |

| Predictor |  | 95% CI |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Intercept | 12.08 | [10.99, 13.17] | 21.75 | 1417 | < .001 |
| Extraversion | -0.06 | [-0.14, 0.03] | -1.25 | 1417 | .211 |
| Volunteeryes | 2.52 | [0.78, 4.25] | 2.84 | 1417 | .005 |
| Extraversion Volunteeryes | -0.18 | [-0.31, -0.05] | -2.68 | 1417 | .008 |

## 2.2 Conclusions

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# 3. Summary

In summary, this book has no content whatsoever.

# 4. Discussion

If you want to do LaTeX in line, like this, use $.

We can also add equations,

# References

Cowles, Michael, and Caroline Davis. 1987. “The Subject Matter of Psychology: Volunteers.” *British Journal of Social Psychology* 26 (2): 97–102. <https://doi.org/10.1111/j.2044-8309.1987.tb00769.x>.

Fox, John, Sanford Weisberg, and Brad Price. 2022. “carData: Companion to Applied Regression Data Sets.” <https://CRAN.R-project.org/package=carData>.

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.