# simStateSpace: Simulate Data from State Space Models

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## Description

Provides a streamlined and user-friendly framework for simulating data in state space models, particularly when the number of subjects/units ($n$) exceeds one, a scenario commonly encountered in social and behavioral sciences. For an introduction to state space models in social and behavioral sciences, refer to Chow et al. (2010).

## Installation

You can install the released version of `simStateSpace` from GitHub with:

```
install.packages("remotes")
remotes::install_github("jeksterslab/simStateSpace")
```

## More Information

See GitHub Pages for package documentation.

# References

Chow, S.-M., Ho, M.-h. R., Hamaker, E. L., & Dolan, C. V. (2010). Equivalence and differences between structural equation modeling and state-space modeling techniques. *Structural Equation Modeling: A Multidisciplinary Journal*, *17*(2), 303–332. https://doi.org/10.1080/10705511003661553

Pesigan, I. J. A., Russell, M. A., & Chow, S.-M. (2025). Inferences and effect sizes for direct, indirect, and total effects in continuous-time mediation models. *Psychological Methods*. https://doi.org/10.1037/met0000779

R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/