

# The number of downloads for the bayesvl program increased significantly in January 2024

*AISDL Team*

February 1, 2024

In the first month of 2024, there was a significant increase in the number of downloads for the Bayesian stats / MCMC computing program, *bayesvl*, developed by AISDL running on R and Stan. The following RDocumentation (CRAN) graph illustrates the noticeable leap in data for January 2024.

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## bayesvl (version 0.8.5)

**Visually Learning the Graphical Structure of Bayesian Networks and Performing MCMC with 'Stan'**

### Description

Provides users with its associated functions for pedagogical purposes in visually learning Bayesian networks and Markov chain Monte Carlo (MCMC) computations. It enables users to: a) Create and examine the (starting) graphical structure of Bayesian networks; b) Create random Bayesian networks using a dataset with customized constraints; c) Generate 'Stan' code for structures of Bayesian networks for sampling the data and learning parameters; d) Plot the network graphs; e) Perform Markov chain Monte Carlo computations and produce graphs for posteriors checks. The package refers to one reference item, which describes the methods and algorithms: Vuong, Quan-Hoang and La, Viet-Phuong (2019) The 'bayesvl' R package. Open Science Framework (May 18).

**MONTHLY DOWNLOADS**

431

VERSION	LICENSE
0.8.5	GPL (>= 3)
ISSUES	PULL REQUESTS
1	0
STARS	FORKS
20	3

REPOSITORY  
<https://github.com/sshpa/bayesvl>

**Illustration:** The download history over the 12 months for the *bayesvl* program. (Accessed on February 1, 2024; <https://www.rdocumentation.org/packages/bayesvl/versions/0.8.5>)

Specifically, with 431 downloads in January 2024, the *bayesvl* program shows a remarkable increase of +164% compared to December 2023. The number of downloads in January 2024 is also +96% higher than the monthly average in 2023.

One plausible explanation could be the growing interest in utilizing the BMF Analytics method, with many taking advantage of the year-end holidays to experiment with it. However, this is just a subjective speculation. Could it be that the mindsponge theory has garnered more attention?!

Nevertheless, with the positive surge in January, the total downloads of *bayesvl* from July 2021 to January 2024 have reached a cumulative total of 9568. The AISDL research team can now foresee reaching the 10K milestone in the not-too-distant future.

## References

[1] La VP, Vuong QH. (2019). *bayesvl*: Visually learning the graphical structure of Bayesian networks and performing MCMC with 'Stan'. <https://cran.r-project.org/package=bayesvl>

[2] Vuong QH, Nguyen MH, La VP. (Eds.). (2022). *The mindsponge and BMF analytics for innovative thinking in social sciences and humanities*. Walter de Gruyter GmbH.

[3] Vuong QH. (2023). *Mindsponge Theory*. Walter de Gruyter GmbH.

