

# The BART3 R package

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## Abstract

Bayesian Additive Regression Trees (BART) provide flexible nonparametric modeling of covariates for continuous, binary, categorical and time-to-event outcomes. For more information see Sparapani, Spanbauer and McCulloch <[doi:10.18637/jss.v097.i01](https://doi.org/10.18637/jss.v097.i01)>.

*Keywords:* binary trees, black-box, categorical, competing risks, continuous, ensemble predictive model, forking, multinomial, multi-threading, OpenMP, recurrent events, survival analysis.

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N.B. This vignette has been published in an open access journal ([Sparapani, Spanbauer, and McCulloch 2021](#)). The material will not be repeated here to save space in the package tarball; however, erratum (if any) will appear here.

## References

Sparapani R, Spanbauer C, McCulloch R (2021). “Nonparametric Machine Learning and Efficient Computation with Bayesian Additive Regression Trees: the **BART** R Package.” *Journal of Statistical Software*, **97**(1), 1–66. doi:[10.18637/jss.v097.i01](https://doi.org/10.18637/jss.v097.i01).

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