

**Hothorn, Torsten**

**partykit: a modular toolkit for recursive partytioning in R.** (English) Zbl 1351.62005  
*J. Mach. Learn. Res.* 16, 3905-3909 (2015).

Summary: The R package partykit provides a flexible toolkit for learning, representing, summarizing, and visualizing a wide range of tree-structured regression and classification models. The functionality encompasses: (a) basic infrastructure for *representing* trees (inferred by any algorithm) so that unified print/plot/predict methods are available; (b) dedicated methods for trees with *constant fits* in the leaves (or terminal nodes) along with suitable coercion functions to create such trees (e.g., by rpart, RWeka, PMML); (c) a reimplementation of *conditional inference trees* (ctree, originally provided in the party package); (d) an extended reimplementation of *model-based recursive partitioning* (mob, also originally in party) along with dedicated methods for trees with parametric models in the leaves. Here, a brief overview of the package and its design is given while more detailed discussions of items (a)–(d) are available in vignettes accompanying the package.

**MSC:**

62-04 Software, source code, etc. for problems pertaining to statistics

Cited in 6 Documents

**Keywords:**

recursive partitioning; regression trees; classification trees; statistical learning; R

**Software:**

C4.5; party; RWeka; CRAN MachineLearning; rpart; partykit; R; evtree

**Full Text:** [Link](#)