Package ‘brant’

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Type Package
Title Test for Parallel Regression Assumption
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Author Benjamin Schlegel [aut,cre], Marco Steenbergen [aut]
Maintainer Benjamin Schlegel <kontakt@benjaminschlegel.ch>
Description Tests the parallel regression assumption for ordinal logit models generated with the function polr() from the package ‘MASS’.
License GPL (>= 2)
Depends R (>= 3.1.0)
Imports MASS, Matrix
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NeedsCompilation no
Repository CRAN
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Description

The function calculates the brant test for ordinal logit models to test the parallel regression assumption.
Usage

\texttt{brant(model, by.var=F)}

Arguments

\begin{itemize}
  \item \texttt{model} \hspace{1cm} the \texttt{polr}-Object generated with \texttt{polr()}
  \item \texttt{by.var} \hspace{1cm} \textbf{OPTIONAL} if set to true, the tests are made for each variable instead of each coefficient. Default: \texttt{FALSE}.
\end{itemize}

Details

The function calculates the \textit{brant} test for parallel regression assumption. The \textit{brant} test was published by Brant (1990). The function works with models generated with the function \texttt{polr()} from the package 'MASS'.

Value

The output is the \textit{brant} test, which shows if the parallel assumption holds or not.

Author(s)

Benjamin Schlegel, <kontakt@benjaminschlegel.ch>

References


Examples

\begin{verbatim}
data = MASS::survey
data$Smoke = ordered(MASS::survey$Smoke, levels=c("Never","Occas","Regul","Heavy"))
model1 = MASS::polr(Smoke ~ Sex + Height, data=data, Hess=TRUE)
summary(model1)
brant(model1)
\end{verbatim}
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* Topic models, brant, brant test,
  parallel regression
  assumption, ordinal logit
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