Package 'brant'

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R topics documented:

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brant *Brant Test*

Description

The function calculates the brant test by Brant (1990) <doi: 10.2307/2532457> for ordinal logit models to test the parallel regression assumption.

Usage

```
brant(model,by.var=F)
```

Arguments

`model`	the polr-Object generated with polr()
`by.var`	OPTIONAL if set to true, the tests are made for each variable instead of each coefficient. Default: FALSE.

Details

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

Value

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

Author(s)

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References

Brant, R. (1990) Assessing proportionality in the proportional odds model for ordinal logistic regression. *Biometrics*, **46**, 1171–1178.

Examples

```
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)
```

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