

Package ‘ZeligChoice’

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Title Zelig Choice Models

Type Package

LazyLoad yes

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Description Add-on package for Zelig. Enables the use of a variety of logit and probit regressions.

Version 0.8-1

Date 2013-09-20

Depends Zelig (>= 4.2-0), R (>= 2.10), VGAM (>= 0.8-4)

Collate 'blogit.R' 'bprobit.R' 'param.blogit.R' 'param.bprobit.R'
'plot.sim.blogit.R' 'plot.sim.bprobit.R' 'qi.blogit.R' 'qi.bprobit.R' 'zelig2blogit.R' 'zelig2bprobit.R'
'common-methods.R' 'param.ologit.R' 'param.oprobit.R'
'plot.sim.ologit.R' 'plot.sim.oprobit.R' 'qi.ologit.R'
'qi.oprobit.R' 'summarize.ologit.R' 'summarize.oprobit.R'
'zelig2ologit.R' 'zelig2oprobit.R' 'param.mlogit.R'
'plot.sim.mlogit.R' 'qi.mlogit.R' 'zelig2mlogit.R' 'describe.R' 'ZeligChoice-package.R'

NeedsCompilation no

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blogit	<i>Alias for Binomial Logit Family</i>
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Description

Alias for Binomial Logit Family

Usage

blogit()

Value

a family object describing the binomial logit family

bprobit	<i>Alias for Binomial Logit Family</i>
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Description

Alias for Binomial Logit Family

Usage

bprobit()

Value

a family object describing the binomial probit family

`coalition`*Coalition Dissolution in Parliamentary Democracies*

Description

This data set contains survival data on government coalitions in parliamentary democracies (Belgium, Canada, Denmark, Finland, France, Iceland, Ireland, Israel, Italy, Netherlands, Norway, Portugal, Spain, Sweden, and the United Kingdom) for the period 1945-1987. For parsimony, country indicator variables are omitted in the sample data.

Usage

```
data(coalition)
```

Format

A table containing 7 variables ("duration", "ciep12", "invest", "fract", "polar", "numst2", "crisis") and 314 observations. For variable descriptions, please refer to King, Alt, Burns and Laver (1990).

Source

ICPSR

References

King, Gary, James E. Alt, Nancy Elizabeth Burns and Michael Laver (1990). "A Unified Model of Cabinet Dissolution in Parliamentary Democracies," *American Journal of Political Science*, vol. 34, no. 3, pp. 846-870.

Gary King, James E. Alt, Nancy Burns, and Michael Laver. ICPSR Publication Related Archive, 1115.

`describe.blogit`*Describe the Citation of the blogit Model*

Description

Describe the Citation of the blogit Model

Usage

```
## S3 method for class 'blogit'  
describe(...)
```

Arguments

```
...          dummy parameters
```

Value

a description object used to cite the blogit model

Author(s)

Matt Owen, Olivia Lau, and Kosuke Imai

describe.bprobit *Describe the Citation of the bprobit Model*

Description

Describe the Citation of the bprobit Model

Usage

```
## S3 method for class 'bprobit'
describe(...)
```

Arguments

... dummy parameters

Value

a description object used to cite the bprobit model

Author(s)

Matt Owen, Olivia Lau, and Kosuke Imai

describe.mlogit *Provide Citation Information for the “blogit” Model*

Description

Provide Citation Information for the “mlogit” Model

Usage

```
## S3 method for class 'mlogit'
describe(...)
```

Arguments

... dummy parameters

Value

a list

Author(s)

Matt Owen <mowen@iq.harvard.edu>

sanction

Multilateral Economic Sanctions

Description

Data on bilateral sanctions behavior for selected years during the general period 1939-1983. This data contains errors that have since been corrected. Please contact Lisa Martin before using this data for publication.

Usage

data(sanction)

Format

A table containing 8 variables ("mil", "coop", "target", "import", "export", "cost", "num", and "ncost") and 78 observations. For full variable description, see Martin, 1992.

Source

Martin, 1992

References

Martin, Lisa (1992). *Coercive Cooperation: Explaining Multilateral Economic Sanctions*, Princeton: Princeton University Press.

summarize.ologit

summarize.ologit summarizes simulations of quantities of interest

Description

summarize.ologit summarizes simulations of quantities of interest

Usage

summarize.ologit(qi)

Arguments

qi a quantity of interest object

summarize.oprobit	<i>summarize.ologit summarizes simulations of quantities of interest</i>
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Description

summarize.ologit summarizes simulations of quantities of interest

Usage

```
summarize.oprobit(qi)
```

Arguments

qi	a quantity of interest object
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zelig2blogit	<i>Interface between blogit model and Zelig This function is exclusively for use by the zelig function</i>
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Description

Interface between blogit model and Zelig This function is exclusively for use by the zelig function

Usage

```
zelig2blogit(formula, weights=NULL, repweights=NULL, ..., data)
```

Arguments

formula	a formula
weights	A set of non-negative value weights. Overrides repweights if defined.
repweights	A set of whole number (non-negative integer) weights. Useful if weights are just for making copies of or deleting certain observations or for frequency weights.
...	ignored parameters
data	a data.frame

Value

a list to be coerced into a zelig.call object

Author(s)

Matt Owen <mowen@iq.harvard.edu>

zelig2bprobit *Interface between bprobit model and Zelig This function is exclusively for use by the zelig function*

Description

Interface between bprobit model and Zelig This function is exclusively for use by the zelig function

Usage

```
zelig2bprobit(formula, weights=NULL, repweights=NULL, ..., data)
```

Arguments

formula	a formula
weights	A set of non-negative value weights. Overrides repweights if defined.
repweights	A set of whole number (non-negative integer) weights. Useful if weights are just for making copies of or deleting certain observations or for frequency weights.
...	ignored parameters
data	a data.frame

Value

a list to be coerced into a zelig.call object

Author(s)

Matt Owen <mowen@iq.harvard.edu>

zelig2mlogit *interface between the Zelig model mlogit and the pre-existing function*

Description

interface between the Zelig model mlogit and the pre-existing function

Usage

```
zelig2mlogit(formula, weights=NULL, repweights=NULL, ..., data)
```

Arguments

formula	a formula
weights	A set of non-negative value weights. Overrides repweights if defined.
repweights	A set of whole number (non-negative integer) weights. Useful if weights are just for making copies of or deleting certain observations or for frequency weights.
...	ignored parameters
data	a data.frame

Value

a list specifying '.function'

zelig2ologit	<i>Interface between ologit model and Zelig</i>
--------------	---

Description

Interface between ologit model and Zelig

Usage

```
zelig2ologit(formula, weights=NULL, repweights=NULL, ..., data)
```

Arguments

formula	a formula
weights	A set of non-negative value weights. Overrides repweights if defined.
repweights	A set of whole number (non-negative integer) weights. Useful if weights are just for making copies of or deleting certain observations or for frequency weights.
...	ignored parameters
data	a data.frame

Value

a list to be coerced into a zelig.call object

Note

This function is exclusively for use by the zelig function

Author(s)

Matt Owen <mowen@iq.harvard.edu>

zelig2oprobit *Interface between oprobit model and Zelig*

Description

Interface between oprobit model and Zelig

Usage

```
zelig2oprobit(formula, weights=NULL, repweights=NULL, ..., data)
```

Arguments

formula	a formula
weights	A set of non-negative value weights. Overrides repweights if defined.
repweights	A set of whole number (non-negative integer) weights. Useful if weights are just for making copies of or deleting certain observations or for frequency weights.
...	ignored parameters
data	a data.frame

Value

a list to be coerced into a zelig.call object

Note

This function is exclusively for use by the zelig function

Author(s)

Matt Owen <mowen@iq.harvard.edu>

ZeligChoice-package.R *Zelig Regressions for Discrete Choices*

Description

ZeligChoice extends the Zelig Software Suite with five models used to analyze models discrete outcomes.

Details

Package:	ZeligChoice
Version:	0.8-0
Date:	2013-05-01
Depends:	Zelig (>= 4.1-2), VGAM (>= 0.8-4)
License:	GPL version 2 or newer
URL:	http://gking.harvard.edu/zelig

Add-on pack for Zelig, containing models:

blogit:	Bivariate Logist Model, implemented by “vglm”
bprobit:	Bivariate Probit Model, implemented by “vglm”
mlogit:	Multinomial Logit Model, implemented by “vglm”
ologit:	Ordinal Logit Model, implemented by “polr”
oprobit:	Ordinal Probit Model, implemented by “polr”

Author(s)

Matt Owen <mowen@iq.harvard.edu>, Kosuke Imai, Olivia Lau and Gary King Maintainer: James Honaker <jhonaker@iq.harvard.edu>

Examples

```
demo("blogit")
demo("bprobit")
demo("mlogit")
demo("ologit")
demo("oprobit")
```

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