0.1 Zelig-package: Zelig: Everyone's Statistical Software

Description

Zelig is an easy-to-use program that can estimate, and help interpret the results of, an enormous range of statistical models. It literally is "everyone's statistical software" because Zelig's simple unified framework incorporates everyone else's (R) code. We also hope it will become "everyone's statistical software" for applications and teaching, and so have designed Zelig so that anyone can easily use it or add their programs to it. Zelig also comes with infrastructure that facilitates the use of any existing method, such as by allowing multiply imputed data for any model, and mimicking the program Clarify (for Stata) that takes the raw output of existing statistical procedures and translates them into quantities of direct interest.

Details

Package:	Zelig
Version:	2.8-5
Date:	2007-06-12
Depends:	R (>= 2.4.0), MASS, boot
Suggests:	VGAM (>= 0.7-1), MCMCpack (>= 0.7-4), mvtnorm, survival, sandwich (>= 2.0-0), zoo (>
License:	GPL version 2 or newer
URL:	http://gking.harvard.edu/zelig

Index:

mexico	Voting Data from the 1988 Mexican Presidental Election
mi	Bundle multiply imputed data sets as a list
mid	Militarized Interstate Disputes
model.end	Cleaning up after optimization
model.frame.multiple	Extracting the "environment" of a model formula
model.matrix.multiple	Design matrix for multivariate models
network	Format matricies into a data frame for social network analysis
newpainters	The Discretized Painter's Data of de Piles
parse.formula	Parsing user-input formulas into multiple syntax
parse.par	Select and reshape parameter vectors
PErisk	Political Economic Risk Data from 62 Countries in 1987
plot.ci	Plotting Vertical confidence Intervals
plot.zelig	Graphing Quantities of Interest
put.start	Set specific starting values for certain parameters
repl	Replicating Analyses
rocplot	Receiver Operator Characteristic Plots
sanction	Multilateral Economic Sanctions
set.start	Set starting values for all parameters
setx	Setting Explanatory Variable Values
sim	Simulating Quantities of Interest
sna.ex	Simulated Example of Social Network Data
summary.zelig	Summary of Simulated Quantities of Interest
SupremeCourt	U.S. Supreme Court Vote Matrix
swiss	Swiss Fertility and Socioeconomic Indicators (1888) Data
ternaryplot	Ternary diagram
ternarypoints	Adding Points to Ternary Diagrams
tobin	Tobin's Tobit Data
turnout	Turnout Data Set from the National Election Survey
user.prompt	Pause in demo files
Weimar	1932 Weimar election data
zelig	Estimating a Statistical Model
zeligDepStatus	Zelig Dependencies Packages Client Status
zeligDepUpdate	Download Zelig Dependencies Packages
zeligDescribeModelXML	Zelig interface functions
Zelig-package	Everyone's Statistical Software

Zelig.url	Table of links for Zelig
zideal	Zelig Matrix of Dependencies

Further information is available in the following vignettes:

arima	ARIMA Models for Time Series Data (source)
blogit	Bivariate Logistic Regression for Two Dichotomous Dependent Variables (source)
bprobit	Bivariate Probit Regression for Dichotomous Dependent Variables (source)
ei.RxC	Hierarchical Multinomial-Dirichlet Ecological Inference Model (source)
ei.dynamic	Quinn's Dynamic Ecological Inference (source)
ei.hier	Hierarchical Ecological Inference Model (source)
exp	Exponential Regression for Duration Dependent Variables (source)
factor.bayes	Bayesian Factor Analysis (source)
factor.mix	Mixed Data Factor Analysis (source)
factor.ord	Ordinal Data Factor Analysis (source)
gam.logit	gam.logit: Generalized Additive Model for Dichotomous Dependent Variables (source)
gam.normal	Generalized Additive Model for Continuous Dependent Variables (source)
gam.poisson	Generalized Additive Model for Count Dependent Variables (source)
gam.probit	Generalized Additive Model for Dichotomous Dependent Variables (source)
gamma	Gamma Regression for Continuous, Positive Dependent Variables (source)
irt1d	One Dimensional Item Response Mode (source)
irtkd	K-Dimensional Item Response Model (source)
logit	Logistic Regression for Dichotomous Dependent Variables (source)
logit.bayes	Bayesian Logistic Regression for Dichotomous Dependent Variables (source)
logit.gee	Generalized Estimating Equation for Logistic Regression (source)
lognorm	Log-Normal Regression for Duration Dependent Variables (source)
ls	Least Squares Regression for Continuous Dependent Variables (source)
mlogit	Multinomial Logistic Regression for Dependent Variables with Unordered Categorical
mlogit.bayes	Bayesian Multinomial Logistic Regression for Dependent Variables with Unordered Ca
mloglm	Multinomial Log-Linear Regression for Contingency Table Models (source)
negbin	Negative Binomial Regression for Event Count Dependent Variables (source)
netcloglog	Least Squares Regression for Continuous Dependent Variables (source)
netgamma	Least Squares Regression for Continuous Dependent Variables (source)
netlogit	Least Squares Regression for Continuous Dependent Variables (source)
netls	Network Least Squares Regression for Continuous Proximity Matrix Dependent Variab
netnormal	Least Squares Regression for Continuous Dependent Variables (source)
netpoisson	Least Squares Regression for Continuous Dependent Variables (source)
netprobit	Least Squares Regression for Continuous Dependent Variables (source)
normal	Normal Regression for Continuous Dependent Variables (source)
normal.bayes	Bayesian Normal Linear Regression (source)
ologit	Ordinal Logistic Regression for Ordered Categorical Dependent Variables (source)
oprobit	Ordinal Probit Regression for Ordered Categorical Dependent Variables (source)
oprobit.bayes	Bayesian Ordered Probit Regression (source)

`poisson`	Poisson Regression for Event Count Dependent Variables (source)
`poisson.bayes`	Bayesian Poisson Regression (source)
`probit`	Probit Regression for Dichotomous Dependent Variables (source)
`probit.bayes`	Bayesian Probit Regression for Dichotomous Dependent Variable (source)
`relogit`	Rare Events Logistic Regression for Dichotomous Dependent Variables (source)
`sur`	Seemingly Unrelated Regression (source)
`threesls`	Three Stage Least Squares (source)
`tobit`	Linear regression for Left-Censored Dependet Variable (source)
`tobit.bayes`	Bayesian Linear Regression for a Censored Dependent Variable (source)
`twosls`	Two Stage Least Squares (source)
`weibull`	Weibull Regression for Duration Dependent Variables (source)

Author(s)

Kosuke Imai <kimai@Princeton.Edu>, Gary King <king@harvard.edu>, Olivia Lau <olau@fas.harvard.edu>

Maintainer: Kosuke Imai <kimai@Princeton.Edu>