

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 ($\geq 2.4.0$), MASS, boot
Suggests: VGAM ($\geq 0.7-1$), MCMCpack ($\geq 0.7-4$), mvtnorm, survival, sandwich ($\geq 2.0-0$), zoo ($\geq 1.8-0$)
License: GPL version 2 or newer
URL: <http://gking.harvard.edu/zelig>

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| approval | U.S. Presidential Approval Data |
| coalition | Coalition Dissolution in Parliamentary Democracies |
| current.packages | Find all packages in a dependency chain |
| dims | Return Dimensions of Vectors, Arrays, and Data Frames |
| eidat | Simulation Data for Ecological Inference |
| friendship | Simulated Example of Schoolchildren Friendship Network |
| gsources | Read Data As a Space-Delimited Table |
| help.zelig | HTML Help for Zelig Commands and Models |
| hoff | Social Security Expenditure Data |
| immigration | Individual Preferences Over Immigration Policy |
| macro | Macroeconomic Data |
| match.data | Output matched data sets |
| MatchIt.url | Table of links for Zelig |

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|-----------------------|---|
| mexico | Voting Data from the 1988 Mexican Presidential 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 matrices 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
zideal

Table of links for Zelig
Zelig Matrix of Dependencies

Further information is available in the following vignettes:

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|---------------|--|
| 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) |

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

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