Package ‘poliscidata’

October 19, 2018

Type Package

Title Datasets and Functions Featured in Pollock and Edwards, An R Companion to Essentials of Political Analysis, Second Edition

Version 2.2.3

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Description Bundles the datasets and functions used in the textbook by Philip Pollock and Barry Edwards, An R Companion to Essentials of Political Analysis, Second Edition.

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LazyData TRUE

RoxygenNote 5.0.1

Depends R (>= 2.10)

Imports methods, descr, Hmisc, weights, plyr, gplots, xtable, survey, ENmisc, car, plotrix, abind

Suggests hexbin, rgl, scatterplot3d, R2HTML, gdata

NeedsCompilation no

Repository CRAN

Date/Publication 2018-10-19 15:10:07 UTC

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Calculates adjusted R-Squared statistic based on user-defined inputs. This function can be used after estimating a model that does not report adjusted R-Squared statistic. For svyglm model fit statistics, see fit.svyglm function documentation.
Usage

AdjR2(tdf, null.dev, resid.dev, k)

Arguments

tdf       The total degrees of freedom
null.dev   The null deviance or total sum of squares
resid.dev  The residual deviance or error sum of squares
k         The number of parameters used (to reduce deviance)

Value

Returns an adjusted R-Squared statistic, a numeric value between 0 and 1

Examples

AdjR2(200, 1500, 1100, 5)

AdjR2(tdf=200, null.dev=1500, resid.dev=1100, k=5)

Description

The compmeans function is imported from descr package. See compmeans documentation for details.
The crosstab function is imported from the descr package. See crosstab documentation for details.
The csv.get function is imported from the Hmisc package. See csv.get documentation for details.
The cut2 function is imported from the Hmisc package. See cut2 documentation for details.
The dply function is imported from the plyr package. See dply documentation for details.
The describe function is imported from the Hmisc package. See describe documentation for details.
The freq function is imported from the descr package. See freq documentation for details.
The plotmeans function is imported from the gplots package. See plotmeans documentation for details.
The scatterplot function is imported from the car package. See scatterplot documentation for details.
The spss.get function is imported from the Hmisc package. See spss.get documentation for details.
available.imported.functions

The `stata.get` function is imported from the Hmisc package. See `stata.get` documentation for details.

The `svyboxplot` function is imported from the survey package. See `svyhist` documentation for details.

The `svyby` function is imported from the survey package. See `svyby` documentation for details.

The `svychisq` function is imported from the survey package. See `svychisq` documentation for details.

The `svydesign` function is imported from the survey package. See `svydesign` documentation for details.

The `svyglm` function is imported from the survey package. See `svyglm` documentation for details.

The `svymean` function is imported from the survey package. See `surveysummary` documentation for details.

The `svyplot` function is imported from the survey package. See `svyplot` documentation for details.

The `svytable` function is imported from the survey package. See `svytable` documentation for details.

The `wtd.boxplot` function is imported from the ENmisc package. See `wtd.boxplot` documentation for details.

The `wtd.chi.sq` function is imported from the weights package. See `wtd.chi.sq` documentation for details.

The `wtd.cor` function is imported from the weights package. See `wtd.cor` documentation for details.

The `wtd.hist` function is imported from the weights package. See `wtd.hist` documentation for details.

The `wtd.mean` function is imported from the Hmisc package. See `wtd.stats` documentation for details.

The `wtd.quantile` function is imported from the Hmisc package. See `wtd.stats` documentation for details.

The `wtd.t.test` function is imported from the weights package. See `wtd.t.test` documentation for details.

The `wtd.var` function is imported from the Hmisc package. See `wtd.stats` documentation for details.

**Usage**

compmeans(...)

crosstab(...)

csv.get(...)

cut2(...)

ddply(...)

available.imported.functions

describe(...)
freq(...)
plotmeans(...)
scatterplot(...)
spss.get(...)
 stata.get(...)
svyboxplot(...)
svyby(...)
svychisq(...)
svydesign(...)
svyglm(...)
svymean(...)
svyplot(...)
svytable(...)
wtd.boxplot(...)
wtd.chi.sq(...)
wtd.cor(...)
wtd.hist(...)
wtd.mean(...)
wtd.quantile(...)
wtd.t.test(...)
wtd.var(...)

Arguments

... See source package help file for details on function usage.
CI95

Calculates a 95 Percent Confidence Interval

Description
Prints the lower and upper boundaries of a 95 Percent confidence interval. Also see the CI95 function.

Usage
CI95(m, se)

Arguments
m  A single number equal to the mean value of a statistic.
se single number equal to the standard error of the statistic.

Value
Returns the 95

Examples
CI95(10, 1)
CI95(m=8, se=2)

CI99

Calculates a 99 Percent Confidence Interval

Description
Prints the lower and upper boundaries of a 99 Percent confidence interval. Also see the CI95 function.

Usage
CI99(m, se)

Arguments
m  A single number equal to the mean value of a statistic.
se single number equal to the standard error of the statistic.
Colors

Value
Returns the 99

Examples

CI99(10, 1)
CI99(m=8, se=2)

Description
Produces plot of colors available in R. Colored cells labels with numeric value that corresponds to that color. No values supplied to function.

Usage

Colors()

Value
No value returned

Examples

Colors()

colPercents

Column Percentages

Description
Generates column percentaged tables for multi-dimensional controlled cross-tabulations, based on function by John Fox. Used by xtabC function.

Usage

colPercents(tab, digits = 2)

Arguments

tab A table of values
digits Number of decimal places to display, default is 2.
CramersV

Value

Table of column-percentaged values

compADPQ

Calculates a statistic for measure of association in cross-tabulation

Description

This function is called by tablesomersDC function.

Usage

compADPQ(x)

Arguments

x A matrix or data frame

Value

Returns a list of statistics

CramersV

Calculates Cramer's V

Description

Calculates Cramer’s V, a measure of association to gauge the strength of the relationship between two nominal-level variables. A score of 0 indicates no relationship; a score of 1 indicates a perfect relationship.

Usage

CramersV(chi, r, c, n)

Arguments

chi A number equal to the Chi-Squared statistic
r A number equal to the number of rows
c A number equal to the number of columns
n A number equal to the sample size

Value

The Cramer’s V statistic, a number between 0 and 1.
Examples

CramersV(84.18, 2, 2, 1315)
CramersV(chi=84.18, r=2, c=2, n=1315)

Description

Calculates model fit statistics for a svyglm weighted regression model

Usage

fitNsvyglm(svyclm, digits = SI)

Arguments

svyclm An object of type svyclm. This object is the output of the svyclm function.
digits Number of digits to report after decimal place, optional (default = 3).

Value

Returns a numeric vector of R-Squared and Adjusted R-squared statistics.

Examples

library(HpoliscidataI)
obamathermmodel <- svyclm(Hobama_therm ~ genderL design=nesdL na.action="na.omit")
summary(obamathermmodel)
fitNsvyglm(obamathermmodel)

Description

Generates table and figure describing distribution of variable values.

Usage

freqC(x, w, plot = TRUE)
Arguments

- **x**: A vector of variable values, should be in form `dataset$var`
- **w**: Sample weights (optional), should be in form `dataset$weighvar`
- **plot**: Do you want a bar chart? (default set to TRUE)

Value

A frequency distribution table (a "freqtable" and "matrix" class object)

Examples

```r
library(poliscidata)
freqC(gss$zodiac, gss$wtss)
freqC(x=gss$zodiac, w=gss$wtss)
```

---

**gss**

*GSS dataset for R Companion to Essentials of Political Analysis, Second Edition*

Description

The General Social Survey polls individuals about their attitudes and beliefs. This dataset is used to demonstrate application of R to political analysis. See book Appendix for variable names and descriptions.

Usage

```r
gss
```

Format

A data frame with 1974 rows and 221 variables.

- **abany**: Abortion Permissible: Woman Wants For Any Reason
- **abdefect**: Abortion Permissible: Strong Chance of Serious Defect
- **abhlth**: Abortion Permissible: Woman’s Health Seriously Endangered
- **abnomore**: Abortion Permissible: Woman Married–Wants No More Children
- **abortion**: Under How Many Conditions Abortion Permissible?
- **abortion_3**: Under How Many Conditions Abortion Permissible? 3 Categories
- **abpoor**: Abortion Permissible: Low Income–Can’t Afford More Children
- **abrape**: Abortion Permissible: Pregnant As Result of Rape
- **absingle**: Abortion Permissible: Not Married
- **affrmact**: Favor Preference in Hiring Blacks
affrmact2 Support Affirmative Action?
age Respondent’s Age
age.f Respondent’s Age (as ordered factor)
age2 Respondent’s Age: 2 Categories
age_3 Age Group: 3 Categories
age_5 Age Group: 5 Categories
attend How Often Respondent Attends Religious Services
attend2 Attendance at Religious Services: Low or High
attend3 Attendance at Religious Services: 3 Categories
attend7 Attendance at Religious Services: 7 Categories
authoritarianism Authoritarianism Scale
bible Feelings About the Bible
black Is Respondent African American?
black_traits Black Stereotypes
born Was Respondent Born in This Country
cappun Favor or Oppose Death Penalty For Murder
childs Number of Children
closeblk How Close Do You Feel to Blacks?
closeblk2 How Close to Blacks? 2 Categories
closewht How Close Feel to Whites
closewht2 How Close Do You Feel to Whites? 2 Categories
cohort Year of Birth
colath College Teaching: Allow Anti-Religionist to Teach
colcom College Teaching: Should Communist Teacher Be Fired
colhomo College Teaching: Allow Homosexual to Teach
colmil College Teaching: Allow Militarist to Teach
colmslm College Teaching: Allow Anti-American Muslim Clergymen to Teach
colrac College Teaching: Allow Racist to Teach
con_govt Confidence in Government Institutions
conarmy Confidence in Military
conbus Confidence in Major Companies
conclerg Confidence in Organized Religion
coneduc Confidence in Education
confed Confidence in Exec Branch of Fed Government
confinan Confidence in Banks & Financial Institutions
conjudge Confidence in United States Supreme Court
conlabor Confidence in Organized Labor
conlegis  Confidence in Congress
conmedic  Confidence in Medicine
conpress  Confidence in Press
consci  Confidence in Scientific Community
contv  Confidence in Television
courts  Courts Dealing With Criminals
dateintv  Date of Interview
degree  Respondent’s Highest Degree
dem  Is Respondent a Democrat?
divlaw  Divorce Laws
divlaw2  Should divorce laws make it more difficult?
educ  Highest Year of School
educ_2  Education: 2 Categories
educ_4  Education: 4 Categories
egalit_scale  Egalitarianism Scale
egalit_scale3  Egalitarianism: 3 Categories
egalit_scale4  Egalitarianism: 4 Categories
eqwth  Should Government Reduce Income Differences?
esthnic  Country of Family Origin
evangelical  Evangelical Scale
fechld  Female Roles: Mother Working Doesn’t Hurt Children
feelevel  Amount of Fees Paid (to Respondent for Interview)
feused  Fee Given to Get Case (for the Interview)
efam  Female Roles: Better For Man to Work, Woman Tend Home
femrole  Female Role (Scale of Values)
femrole2  Female Role: 2 Categories
fepresch  Female Roles: Preschool Kids Suffer If Mother Works
fucitzn  Is Respondent Planning/Applying For US Citizenship?
fund  How Fundamentalist Is Respondent Currently?
fund2  Is Respondent Fundamentalist?
getahead  Opinion of How People Get Ahead
god_r  Know God Exists?
grass  Should Marijuana Be Made Legal?
grass.legal  Should Marijuana Be Made Legal? (numeric)
gunlaw  Favor or Oppose Gun Permits?
happy  General Happiness
hepbblk  Should Government Aid Blacks?
helpnot Should Government Do More or Less?
helpoth To Help Others
helppoor Should Government Improve Standard of Living?
helpsick Should Government Help Pay For Medical Care?
hhtype1 Household Type (Condensed)
hispanic Hispanic Specified
hispanic_2 Is Respondent Hispanic?
homosex Homosexual Sex Relations
homosex2 Homosexuality Always Wrong?
id Respondent Id Number
income06 Total Family Income
int_info_scale Interest in Current Issues? (Additive index)
intage Interviewer: Age of Interviewer
inteduc Interested in Local School Issues?
intenvir Interested in Environmental Issues?
intethn Interviewer: Race of Interviewer
intethn_2 Interviewer: Interviewer’s Race
intfarm Interested in Farm Issues?
inthisp Interviewer: Is Interviewer Spanish, Hispanic or Latino
intintl Interested in International Issues?
intmed Interested in Medical Discoveries?
intmil Interested in Military Policy?
intrace1 Interviewer: Interviewer’s Race1
intrace2 Interviewer: Interviewer’s Race2
intrace3 Interviewer: Interviewer’s Race3
intsci Interested in New Scientific Discoveries?
intsex Interviewer: Sex of Interviewer
intspace Interested in Space Exploration?
inttech Interested in Technologies?
intyrs Interviewer: Years of Service as an Interviewer at NORC
kids Does Respondent Have Kids?
libath Allow Anti-Religious Book in Library?
libcom Allow Communists Book in Library?
libhomo Allow Homosexuals Book in Library?
libmili Allow Militarists Book in Library?
libmslm Allow Anti-American Muslim Clergymen’s Books in Library?
allowrac Allow Racists Book in Library?
lenhowl How Long Was Interview
maritstat Marital Status
militar_tol Tolerance Toward Militarists
mobile16 Geographic Mobility Since Age 16
mode Interview Done In-Person or Over the Phone
mslm_col Muslims: Teach in College?
mslm_lib Muslims: Book in Library?
mslm_spk Muslims: Preach?
mslm_spk.yes Muslims: Preach? (as numeric)
mslm_spk.high Muslims: Preach? (as numeric)
nataid Federal spending: Foreign Aid
natarm Federal spending: Military, Armaments, and Defense
natchld Federal spending: Assistance for Childcare
nacity Federal spending: Solving Problems of Big Cities
natcrime Federal spending: Halting Rising Crime Rate
natdrug Federal spending: Dealing with Drug Addiction
nateduc Federal spending: Improving Nations Education System
natenergy Federal spending: Developing Alternative Energy Sources
natenvir Federal spending: Improving & Protecting Environment
nafed Federal spending: Welfare
natheal Federal spending: Improving & Protecting Nations Health
natmass Federal spending: Mass Transportation
natpark Federal spending: Parks and Recreation
natrece Federal spending: Improving the Conditions of Blacks
natroad Federal spending: Highways and Bridges
natsci Federal spending: Supporting Scientific Research
natsoc Federal spending: Social Security
natspace Federal spending: Space Exploration Program
news How Often Does Respondent Read Newspaper
obey To Obey
obey2 Obedience Important in Children?
owgun Have Gun in Home
partyid Political Party Affiliation
partyid_3 Party Id: 3 Categories
polviews Ideological Self-Placement
popular Important for Child: To Be Well Liked or Popular
pornlaw  Feelings About Pornography Laws
pornlaw2  Pornography opinion
postlife  Belief in Life After Death
pray  How Often Does Respondent Pray
premarsx  Sex Before Marriage
pres08  Vote Obama or McCain
raclidf1  Differences Due to Discrimination
raclidf2  Differences Due to Inborn Disability
raclidf3  Differences Due to Lack of Education
raclidf4  Differences Due to Lack of Will
race  Race of Respondent
race_2  Race: Black / White
racial_liber3  Racial Liberalism
reborn_r  Born Again?
region  Region of Interview
relig  Respondent’s Religious Preference
relig2  Respondent’s Religious Preference, limited to Catholic and Protestant
reliten  Strength of Affiliation
reliten2  Strong Religious Affiliation
rincom06  Respondent Income
rincom06_5  Respondent Income: 5 Categories
savesoul_r  Tried to Convince Others of Jesus?
science_quiz  Number Correct on Science Quiz
science_quiz.f  Number Correct on Science Quiz, stored as factor
sex  Respondent’s Sex
sibs  Number of Brothers and Sisters
size  Size of Place in 1000s
social_connect  Social Connectedness
social_cons3  Social Conservatism
social_trust  Social Trust (Numeric Scale)
south  Respondent from South?
spanking  Favor Spanking to Discipline Child?
spanking2  Approve of spanking
spend3  Econ Liberalism
spkath  Allow Speaker in Your Community: Anti-Religionist
spkcom  Allow Speaker in Your Community: Communist
spkhomo  Allow Speaker in Your Community: Homosexual
spkmil  Allow Speaker in Your Community: Militarist
spkmslm  Allow Speaker in Your Community: Muslim Clergymen Preaching Hatred
spkrac  Allow Speaker in Your Community: Allow Racist to Speak
teensex  Sex Before Marriage – Teens 14-16
thnksel Scren for Child: To Think For One’s Self
tolerance  Tolerance Scale
tolerance4 Tolerance Scale (Binned)
tvhours  Hours Per Day Watching TV
tvhours5  Hours per day
union  Does Respondent or Spouse Belong to Union
uscitzn  Is Respondent US Citizen
vetyears  Years in Armed Forces
vote08_coded  Did Respondent Vote in 2008 Election
voted08  Did Respondent Vote in 2008?
white_traits  White Stereotypes
wordsum  Number Words Correct in Vocabulary Test
workhard  To Work Hard
wrkgyt  Respondent Work for Government or Private Employee
wrkslf  Respondent Self-Emp or Works For Somebody
wrkstat  Labor Force Status
wrkwayup  Irish, Italian, Jewish and other Should Overcome Prejudice Without Favors
wtss  Weight Variable
wtssall  Weight Variable (same as wtss)
xmarsex  Sex With Person Other Than Spouse
year  GSS Year For This Respondent
zodiac  Respondent’s Astrological Sign

Source

2012 General Social Survey. See Appendix Table A.1 of printed textbook for further information
**gssD**

*GSS design dataset for R Companion to Essentials of Political Analysis, Second Edition*

---

**Description**

The General Social Survey polls individuals about their attitudes and beliefs. This design dataset is used to demonstrate application of certain R functions to political analysis. See gss dataset documentation for variable names and descriptions.

**Usage**

```r
gssD
```

**Format**

A design dataset version of the gss dataset used for certain weighted analyses. The variables element has 1974 observations of 221 variables.

**Source**

2012 General Social Survey. See Appendix Table A.1 of printed textbook for further information.

---

**imeansC**

*Controlled Mean Comparison Table*

---

**Description**

Produces a controlled mean comparison table. Rows defined by values of independent variable and columns defines by values of the control variable.

**Usage**

```r
imeansC(function1 = NULL, function2 = NULL, data, digits = 2)
```

**Arguments**

- `function1`: A function identifying the dependent variable in the form ~ depvar
- `function2`: A function specifying the independent and control variables in the form ~ indepvar + controlvar
- `data`: A design dataset (like gssD, nesD, statesD, or worldD)
- `digits`: Number of digits to report after decimal place, optional (default = 2).

**Value**

A controlled mean comparison table (an "ftable" class object)
Examples

```r
library(poliscidata)

imeansC(function1 = ~ft_dem, function2 = ~gender + married, data=nesD)

imeansC(~ft_dem, ~gender + married, nesD)
```

---

**inverse.logit**  
*Calculates predicted probability for a given logged odds value*

---

**Description**

This function calculates predicted probability for a given logged odds value, often useful for plotting or reporting predicted probabilities.

**Usage**

```r
inverse.logit(logged_odds)
```

**Arguments**

- `logged_odds`: A numeric value, or vector of numeric values.

**Value**

Returns predicted probability corresponding the the logged odds value, a numeric value between 0 and 1.

**Examples**

```r
inverse.logit(0)
inverse.logit(-5:5)
```

---

**iplotC**  
*Interaction plot*

---

**Description**

Interaction plot uses `brkdn.plot` in plotrix package and `svyby` function from survey package. Warnings suppressed so the function creates plot without generating intermediate results used to create plot.

**Usage**

```r
iplotC(function1 = NULL, function2 = NULL, data, function3 = NULL, ...)
```
Arguments

function1  A function in the form ~depvar
function2  A function. Here indepvar is typed before controlvar: ~indepvar + controlvar
data  Design dataset (e.g. nesD, gssD, statesD, or worldD)
function3  A function. Here indepvar is typed after controlvar: ~controlvar + indepvar
...  Further arguments to be passed to brkdn.plot function (plotrix package)

Value

No value returned

Examples

library(poliscidata)

iplotC(function1 = ~ ft_dem, function2 = ~ gender + married, data = nesD, function3 = ft_dem ~ married + gender)

iplotC(~ft_dem, ~gender+married, nesD, ft_dem=married+gender, xlab="Gender", ylab="Democratic Party Rating", main="Democratic Party Rating by Gender and Marital Status")

## lineType

| Displays line types for R plots |

Description

Displays line types for R plots. No values supplied to function.

Usage

lineType()

Value

No value returned

Examples

lineType()
logregR2  

*Logistic regression model statistics*

**Description**

Logistic regression model statistics

**Usage**

`logregR2(model, digits = 3)`

**Arguments**

- `model`  
  An estimated logistic regression model

- `digits`  
  Number of digits to be displayed after decimal points

**Value**

Returns list of statistics about model (a "LogRegR2" class object)

**Examples**

```r
library(poliscidata)
obama_state_model <- glm(obama_win12 ~ secularism + gunlaw_rank, data=states, family=binomial)
summary(obama_state_model)
logregR2(obama_state_model)

obama_vote_model <- svyglm(obama_vote ~ ft_dem, design=nesD, family="quasibinomial")
summary(obama_vote_model)
logregR2(obama_vote_model)
```

**nes**  

*NES dataset for R Companion to Essentials of Political Analysis, Second Edition*

**Description**

The American National Election Survey polls individuals about their political beliefs and behavior. This dataset is used to demonstrate application of R to political analysis. See book Appendix for variable names and descriptions.

**Usage**

`nes`
Format

A data frame with 5916 rows and 399 variables.

abort_scale Anti-abortion Scale
abort4 Abortion Opinion: Self-Placement, 4 Categories
abortpre_4point Abortion Opinion: Self-Placement, 4 Categories
aidblack_self Support for Government assistance to blacks scale, 7 point scale
auth_consider Child trait more important: considerate or well-behaved
auth_cur Child trait more important: curiosity or good manners
auth_ind Child trait more important: independence or respect
auth_obed Child trait more important: obedience or self-reliance
authoritarianism Authoritarianism (4 point scale based on child trait questions)
black Is Respondent Black?
budget_deficit_x Favor reducing the Federal budget deficit, 7 point scale
caseid Case ID
casistart_iwrset4 Does Respondent have a dog (Interview set-up test)
casistartpo_iwrset4 Does Respondent have a dog (Interview set-up test)
cog_opin_x Number of opinions Respondent has compared to average person
congapp_job_x Approval of Congress
congapp_jobst Strength of approve/disapprove Congress handling its job
conservatism ftgr_cons minus ftgr_liberals
cses_closepy Close to any political party?
cses_contct Campaign mobilization: institutional contact
cses_email Campaign mobilization: institutional contact - email
cses_ftf Campaign mobilization: institutional contact - in person
cses_gotv Respondent contacted by party/candidate?
cses_govtact Support for government action income inequality (5 point scale)
cses_govtact_3 Government action on income inequality (3 point scale)
cses_mail Campaign mobilization: institutional contact - by mail
cses_mobil Campaign mobilization: sign up online information or alerts
cses_perseml Campaign mobilization: personal contact - email
cses_persftf Campaign mobilization: personal contact - in person
cses_persmail Campaign mobilization: personal contact - by mail
cses_persph Campaign mobilization: personal contact - by phone
cses_perstxt Campaign mobilization: personal contact - text message
cses_persuade Campaign mobilization: personal contact
cses_persweb Campaign mobilization: personal contact - social network
cses_phone Campaign mobilization: institutional contact - by phone
cses_poliinfour Political information - Secretary of the U.N.
cses_poliinfone Political information - Secretary of the Treasury
cses_poliinffthree Political information - party 2nd in House seats won
cses_polinf_x Pol info scale
cses_polinftwo Political information - unemployment rate
cses_polinftwo_date Political information - date used for date of unemployment rate
cses_polinftwo_rate Political information - number used for unemployment rate
cses_spending Econ conservatism (numeric scale)
deathpen Death Penalty Opinion
defsppr_self Support for defense spending, 7 point scale
dem Party identification: Does Respondent self-identify as Democrat? (coded 0/1)
dem_age_group_r Demographic: Age Groups
dem_age3 Demographic: Age group
dem_age6 Demographic: Six Age Groups
dem_agegrp_iwdate Demographic: Respondent age on interview date (age group)
dem_educ3 Demographic: Education
dem_edugroup Demographic: Respondent level of highest education
dem_hisp Demographic: Is Respondent Spanish, Hispanic, or Latino
dem_marital Demographic: Marital status
dem_parents Demographic: Native status of parents
dem_racecps_black Demographic: Race self-identification: mention Black
dem_racecps_racedkrf Demographic: Race self-identification with don’t know or refused to say
dem_racecps_white Demographic: Race self-identification: mention White
dem_raceeth Demographic: Respondent race and ethnicity group
dem_raceeth2 Demographic: White/Black
dem_raceeth4 Demographic: Respondent race and ethnicity group
dem_unionhh Demographic: Anyone in household belong to labor union
dem_veteran Demographic: Respondent ever served on active duty in Armed Forces
dem2_numchild Demographic: Total Number of children in household
dem3_ownhome Demographic: Does Respondent family own/rent home
dem3_yearscomm Demographic: How many years has Respondent lived in this community?
dhs_appterr_x Homeland security: Approve/disapprove of efforts to reduce terrorism
dhs_attack Homeland security: Likely terrorist attack kill 100/more in next year?
dhs_threat_x Homeland security: Is fed. gov’t a threat to rights and freedoms? (numeric scale)
dhs_threat3 Homeland security: Is fed. gov’t a threat to rights and freedoms?
dhs_torture_x Homeland security: Favor/Oppose torture for suspected terrorists
dhsinvolv_board Civic engagement: Has Respondent in past 4 years: attended city/school board meeting
dhsinvolv_call  Civic engagement: Has Respondent in past 4 years: called radio/TV about political issue

dhsinvolv_contact1  Civic engagement: Contact U.S. Representative or Senator

dhsinvolv_letter  Civic engagement: written a letter to newspaper/magazine about political issue

dhsinvolv_march  Civic engagement: Has Respondent joined a protest march

dhsinvolv_message  Civic engagement: sent Facebook/Twitter message about political issue

dhsinvolv_netpetition  Civic engagement: Has Respondent in past 4 years: sign internet petition

dhsinvolv_org  Civic engagement: Has Respondent in past 4 years: gave money to social/political organization

dhsinvolv_petition  Civic engagement: Has Respondent signed paper petition

dhsinvolv_relig  Civic engagement: Has Respondent in past 4 years: given money to religious organization

discrim_blacks  Discrimination: Amount against Blacks

discrim_blacks_r  Discrimination: Against Blacks? (yes/no)

discrim_gays  Discrimination: Amount against Gays and Lesbians?

discrim_gays_r  Discrimination: Against gays? (yes/no)

discrim_hispanics  Discrimination: Amount against Hispanics

discrim_hispanics_r  Discrimination: Against Hispanics? (yes/no)

discrim_scale  Discrimination: How much discrimination against blacks, gays, Hispanics, women?
 (Sum of yes answers)

discrim_self  Discrimination: How much discrimination faced personally?

discrim_whites  Discrimination: Amount against Whites

discrim_women  Discrimination: Amount against Women

discrim_women_r  Discrimination: Against women? (yes/no)

discuss_disc  Ever discuss politics with family or friends

discuss_discpstwk  Days in past week discussed politics

ecblame_fmpr  Economy: How much is former President to blame for poor economy?

ecblame_pres  Economy: How much is President to blame for poor economy?

econ_ecnext_x  Economy: U.S. economy better or worse 1 year from now

econ_ecnextamt  Economy: How much better/worse next 12 months

econ_ecnow  Economy: Currently good or bad

econ_ecpast  Economy: Better/worse in last year

econ_ecpast_x  Economy: Better or worse than 1 year ago

econ_ecpastamt  Economy: How much better/worse in last year

econ_unlast  Economy: How much unemployment better/worse in last year

econ_unnext  Economy: More/less unemployment in next year

econ_unpast  Economy: Unemployment better/worse in last year

econ_unpast_x  Economy: Unemployment better/worse than 1 year ago
econcand_dwin  Economy: Better/worse if Democratic Presidential candidate wins
econcand_rwin  Economy: Better/worse if Republican Presidential candidate wins
cperil_home  How do you pay for your home?
effic_carerev  Political efficacy: Public officials don’t care what people think
effic_carestd  Political efficacy: Public officials don’t care what people think
effic_complicrev  Political efficacy: Politics/government too complicated to understand
effic_complicstd  Political efficacy: Politics/government too complicated to understand
effic_external  Political efficacy: External political efficacy (numeric scale)
effic_external3  Political efficacy: External political efficacy (3 categories)
effic_internal  Political efficacy: Internal political efficacy (numeric scale)
effic_internal3  Political efficacy: Internal political efficacy (3 categories)
effic_sayrev  Political efficacy: Have no say about what government does
effic_saystd  Political efficacy: Have no say about what government does
effic_undrev  Political efficacy: Good understanding of political issues
effic_undstd  Political efficacy: Good understanding of political issues
efficpo_bothside  Political efficacy: How often see both disagreeing parties as right
egal_bigprob  Equality: It’s a big problem that we don’t give equal chance to succeed
egal_equal  Equality: Society should make sure everyone has equal opportunity
egal_fewerprobs  Equality: If people were treated more fairly would be fewer problems
egal_notbigprob  Equality: Not a big problem if some have more chance in life
egal_scale  Equality: Egalitarianism (numeric scale)
egal_scale_3  Equality: Egalitarianism: 3 categories
egal_toofar  Equality: We have gone too far pushing equal rights
egal_worryless  Equality: We’d be better off if worried less about equality
envir  Environment: Environment more important response (on envjob_3) as 0/100
envir_drill  Environment: Favor/oppose increased U.S. offshore drilling
envir_gwarm  Environment: Is global warming happening or not
envir_gwgood  Environment: Rising temperatures good or bad
envir_gwhow  Environment: Anthropogenic climate change
envir_nuke  Environment: Should US have more/fewer nuclear power plants
enviro.yes  Environment: Environment more important response (on envjob_3) as 0/100
envjob_3  Environment: Environment or jobs more important?
envjob_self  Environment: 7 point scale environment-jobs tradeoff
fairjob_opin_x  Opinion about government ensuring fair jobs for blacks
fedspend_child  Federal budget increase/decrease: child care
fedspend_childr  Federal budget increase/decrease: child care (rev. scale)
fedspend_crime  Federal budget increase/decrease: crime control
nes

fedspend_crimer Federal budget increase/decrease: crime control (rev. scale)
fedspend_enviro Federal budget increase/decrease: protecting environment
fedspend_enviror Federal budget increase/decrease: protecting environment (rev. scale)
fedspend_poors Federal budget increase/decrease: aid to the poor
fedspend_poors Federal budget increase/decrease: aid to the poor (rev. scale)
fedspend_scale Federal Spending Scale (numeric scale, sum of increase responses)
fedspend_schools Federal budget increase/decrease: public schools
defedspend_schoolsr Federal budget increase/decrease: public schools (rev. scale)
defedspend_scitech Federal budget increase/decrease: science and technology
defedspend_scitechr Federal budget increase/decrease: science and technology (rev. scale)
defedspend_ss Federal budget increase/decrease: Social Security
defedspend_ssr Federal budget increase/decrease: Social Security (rev. scale)
defedspend_welfare Federal budget increase/decrease: welfare programs
fedspend_welfarer Federal budget increase/decrease: welfare programs (rev. scale)
fem3 Feeling about feminists (recode of ftgr_feminists into 3 categories)
finance_finfam Financial situation: Respondent living with how many family members
finance_finnext_x Financial situation: Better or worse off 1 year from now
finance_finpast_x Financial situation: Better or worse off than 1 year ago
ft_dem Feeling Thermometer: Democratic Party
ft_dpc Feeling Thermometer: Democratic Presidential candidate
ft_dvpc Feeling Thermometer: Democratic Vice-Presidential candidate
ft_gwb Feeling Thermometer: G.W. Bush
ft_hclinton Feeling Thermometer: Hillary Clinton
ft_rep Feeling Thermometer: Republican Party
ft_rpc Feeling Thermometer: Republican Presidential candidate
ft_rvpc Feeling Thermometer: Republican Vice-Pres candidate
ftcasia Asian Feeling thermometer: Asian-Americans
ftcasib black Feeling thermometer: Blacks
ftcasihisp Feeling thermometer: Hispanics
ftcasiiillegal Feeling thermometer: Illegal Immigrants
ftcasiwhite Feeling thermometer: Whites
ftf_oversample Was Respondent a 2012 Time Series Oversample Case?
ftgr_athiests Feeling thermometer: Atheists
ftgr_bigbus Feeling thermometer: Big Business
ftgr_catholics Feeling thermometer: Catholics
ftgr_congress Feeling thermometer: Congress
ftgr_consf Feeling thermometer: Conservatives
ftgr_fedgov Feeling thermometer: Federal Government
ftgr_fem3 Feeling thermometer: Feminists (3 categories)
ftgr_feminists Feeling thermometer: Feminists
ftgr_gay Feeling thermometer: Gay Men and Lesbians
ftgr_liberals Feeling thermometer: Liberals
ftgr_middle Feeling thermometer: Middle Class People
ftgr_military Feeling thermometer: The Military
ftgr_mormons Feeling thermometer: Mormons
ftgr_muslims Feeling thermometer: Muslims
ftgr_poor Feeling thermometer: Poor People
ftgr_rich Feeling thermometer: Rich People
ftgr_tea Feeling thermometer: Tea Party
ftgr_unions Feeling thermometer: Labor Unions
ftgr_ussc Feeling thermometer: The U.S. Supreme Court
ftgr_welfare Feeling thermometer: People on Welfare
ftgr_working Feeling thermometer: Working Class People
ftgr_xfund Feeling thermometer: Christian Fundamentalists
ftgr_xian Feeling thermometer: Christians
ftpo_dpcsp Feeling thermometer: Spouse of Democratic Presidential candidate
ftpo_dvpc Feeling thermometer: Democratic Vice Presidential candidate
ftpo_hdc Feeling thermometer: House Democratic Candidate
ftpo_hoth Feeling thermometer: House Independent/3rd-party Candidate
ftpo_hrc Feeling thermometer: House Republican Candidate
ftpo_pres Feeling thermometer: Democratic Presidential candidate
ftpo_roberts Feeling thermometer: John Roberts
ftpo_rpc Feeling thermometer: Republican Presidential candidate
ftpo_rpcsp Feeling thermometer: Spouse of Republican Presidential candidate
ftpo_rvpcc Feeling thermometer: Republican Vice Presidential candidate
ftpo_sdc Feeling thermometer: Senate Democratic Candidate
ftpo_senjr Feeling thermometer: Jr. Senator in State Without Race
ftpo_sennot Feeling thermometer: Non-running Senator in State W/Race
ftpo_sensr Feeling thermometer: Sr. Senator in State Without Race
ftpo_soth Feeling thermometer: Senate Independent/3rd-party Candidate
ftpo_src Feeling thermometer: Senate Republican Candidate
gay_adopt Gay rights: gayrt_adopt==1. Yes
gay_disc Gay rights: gayrt_discstd_x==1. Approve strongly
gay_marry Gay rights: Approve same-sex marriage?
gay_mil Gay rights: Gay MILSTD_x==1. Feel strongly that homosexuals should be allowed to serve

gay_rights3 Gay rights: Gay Rights Support (3 categories)
gayrt_adopt Gay rights: Should gay and lesbian couples be allowed to adopt?
gayrt_discrev_x Gay rights: favor laws against gays/lesbians job discrimination (rev.)
gayrt_discstd_x Gay rights: favor laws against gays/lesbians job discrimination

gayrt_marry Gay rights: Respondent position on gay marriage

gayrt_milrev_x Gay rights: allow gays/lesbians serve in US armed forces (reversed)
gayrt_milstd_x Gay rights: allow gays/lesbians serve in US armed forces

gender Respondent’s Gender
govrole_scale Pro-government scale (numeric scale)
guarpr_self Should gov’t guarantee a job and standard of living? (7 point scale)
gun_control Gun control: Should federal gov’t make it more difficult to buy a gun?
gun_control2 Gun control: Make it more difficult to buy a gun?
gun_importance Gun control: Importance of gun access issue to R

gun_importance3 Gun control: How important is gun issue?
happ_lifesatisf How satisfied is Respondent with life?
health_2010hcr_x Health care: Support 2010 health care law
health_insured Health care: Does Respondent have health insurance
health_self Health care: Health of Respondent
health_smoke Health care: Smoked Cigarettes
health_smokeamt Health care: If smoked, how many now
hispanic Is Respondent Hispanic?
hlthlaw_num Health care: Health Care Law effect on number insured
hlthlaw_qual Health care: Health Care Law effect on health care services
hseinc_approval Congress: Approve or disapprove of House incumbent
hseinc_approval_x Congress: House incumbent approval
hseinc_appstr Congress: How much approve House incumbent
hseinc_disstr Congress: How much disapprove House incumbent
hseinc_hinctouch Congress: How good a job does House incumbent do in district

immig_checks Immigration: Opinion on immigration status checks on suspects
immig_citizen Immigration: Opinion on allowing citizenship to some illegal aliens
immig_policy Immigration: U.S. government policy toward unauthorized immigrants
immigpo_jobs Immigration: How likely immigration will take away jobs
immigpo_level Immigration: What should immigration levels be
imports_limit Favor or oppose limits on foreign imports

inc_incgrouppre Respondent’s family income
incgroup_prepost  Respondent’s family income
income5  Respondent’s income quintile
indifference  Indifference scale
ineq_incgap_x  Income gap size compared to 20 years ago
ineqinc_ineqgb  Is increased income inequality in U.S. good?
ineqinc_ineqreduc  Does Respondent favor/oppose government reducing income inequality?
ispre_self  Health care: Should care be insured by government or by private medical insurance?  
(7 point scale)
invol_contact  Involvement in politics: Contact congress?
invol_message  Involvement in politics: post political message?
invol_numorgs_4  Involvement in politics: Number of group memberships
invol_org  Involvement in politics: Give money to political organization?
invol_petition  Involvement in politics: Sign net petition?
invol_votr  Involvement in politics: Has Respondent done any volunteer work in past 12 months?
israel_support  Is U.S. too supportive of Israel or not supportive enough
knowl_housemaj  Political knowledge: Know party with most members in House?
knowl_senmaj  Political knowledge: Know party with most members in Senate?
libcon3  Respondent’s Political Ideology (3 categories)
libcpo_self  Respondent’s Political Ideology (7 point scale)
libcpre_ptyd  Ideological placement of Democrats (7 point scale)
libcpre_ptyr  Ideological placement of Republicans (7 point scale)
libcpre_rpc  Ideological placement of Republican Pres. Candidate (7 point scale)
libcpre_self  Respondent’s Political Ideology (7 point scale)
libcpre_self_x  Respondent’s Political Ideology (7 point scale)
link_black_scale  Linked fate: blacks
link_hisp_scale  Linked fate: Hispanics
link_oth_scale  Linked fate: other people
link_white_scale  Linked fate: whites
link_wom_scale  Linked fate: women
married  Demographic: Is Respondent married?
mobilpo_x  Campaign mobilization: Respondent contacted by Party, Candidates, GOTV (numeric scale)
mode  Mode of interview (face-to-face or internet)
modsex_disc  Sex discrimination: How much job discrimination against women
modsex_discamt  Sex discrimination: Discrimination against women
modsex_media_x  Sex discrimination: How much attention media should pay to discrimination against women
modsex_oppor_x  Sex discrimination: Opportunities compared for women and men
**modsex_prob**  Sex discrimination: Do women complaining about discrimination cause more problems

**modsex_scale**  Sex discrimination: Modern sexism

**modsex_special**  Sex discrimination: Do women demanding equality seek special favors

**modsex_wommore**  Sex discrimination: How much more opportunities do women have

**mormon_xn**  Mormon a Christian religion?

**nesw**  Sampling weights: Weight variable

**nesw_rnd**  Sampling weights: Weight variable (rounded)

**obama_therm**  Obama Rating

**obama_vote**  Respondent vote for Obama?

**orientn_knowgay**  Sexual orientation of family and friends

**orientn_rgay**  Respondent’s sexual orientation

**own_dog**  Does Respondent own a dog?

**owngun_owngun**  Does Respondent own a gun

**patriot_amident**  Patriotism: Important being American

**patriot_flag**  Patriotism: Emotion seeing flag fly

**patriot_love**  Patriotism: Love of country

**patriotism**  Patriotism scale

**penalty_dpenstr**  Strength Respondent favors/opposes death penalty

**penalty_favdden**  Respondent favor/oppose death penalty

**penalty_favopp_x**  Favor death penalty?

**pid_3**  Party Identification, 3 categories

**pid_x**  Party Identification, 7 categories

**polknow_combined**  Political knowledge: Number political facts correct

**polknow3**  Political knowledge, 3 categories

**postvote_presvt**  Did Respondent vote for President

**postvote_presvtwho**  For whom did Respondent vote for President

**postvote_rvote**  Did Respondent vote in the November general election

**postvote_votehs**  Did Respondent vote for U.S. House of Representatives

**pot_legal**  Should marijuana be legal?

**pot_legal3**  Legalize marijuana?

**preknow_leastsp**  Political knowledge: Program that federal gov’t spends the least on

**preknow_medicare**  Political knowledge: What is Medicare

**preknow_pretermes**  Political knowledge: Number of times president can be elected

**preknow_senterm**  Political knowledge: Years Senator Elected

**preknow_sizedef**  Political knowledge: Size of federal deficit

**preknow3**  Political knowledge, 3 categories
pres_econ  Presidential approval: Handling of economy (Recode of presapp_econ)
pres_vote12  Respondent’s vote in 2012 presidential election
presapp_econ_x  Presidential approval: Handling of economy
presapp_foreign  Presidential approval: Handling of foreign relations
presapp_foreign_x  Presidential approval: Handling of foreign relations
presapp_health_x  Presidential approval: Handling of health care
presapp_job_x  Presidential approval: Handling of job
presapp_scale  Presidential approval scale
presapp_war_x  Presidential approval: Handling of war in Afghanistan
presvote2012_2  Respondent’s vote in 2012 presidential election
presvote2012_x  Respondent’s vote in 2012 presidential election
preswin_care  Care who wins Presidential Election
preswin_dutychoice_x  Does Respondent consider voting as duty/choice
prevote_primv  Did Respondent vote in the Presidential primary or caucus
prevote_primvwho  Which candidate did Respondent vote for in Pres. primary or caucus
prochoice_scale  Abortion: Pro-choice Scale
relig_4cat  Religion: Catholic, other Christian, other, or not religious?
relig_attend  Religion: Attend services
relig_attend3  Religion: Attend services
relig_bornagn  Religion: Does Christian Respondent consider self born-again?
relig_guide  Religion: Provides guidance in day-to-day living
relig_imp  Religion: Important to Respondent?
relig_imp2  Religion: Important to Respondent?
relig_import  Religion: Important part of Respondent’s life
relig_pray  Religion: How often does Respondent pray
relig_wordgod  Religion: Is Bible word of God or men
resent_deserve  Black community: Agree/disagree blacks have gotten less than deserve
resent_racial_scale  Black community: Racial conservatism scale
resent_slavery  Black community: Agree/disagree past slavery make life more difficult
resent_try  Black community: Agree/disagree blacks must try harder to get ahead
resent_workway  Black community: Agree/disagree that blacks should work way up without special favors
rvote2012_x  Did Respondent vote in November general election?
sample_district  Respondent’s Congressional district (in 113th U.S. Congress)
sample_ftfpsu  Sample strata: Primary sampling unit for face-to-face cases
sample_state  State of Respondent address
science_use  How often should gov’t use scientific methods to solve problems?
scourt_elim_x  Should the Supreme Court be done away with?
scourt_remove_x  Should it be possible to remove Supreme Court justices?
south  Respondent from South?
spsrvpr_sssel  Support for government services/spending (7 point scale)
strata_fif  Sample strata for face-to-face sample component
strata_full  Sample strata for full sample
tarp_favopp_x  Favor the TARP program?
tea_supp_x  Tea Party support
trad_adjust  Traditional values: Agree/disagree world is changing we should adjust
trad_famval  Traditional values: Agree/disagree that more emphasis needed on traditional family values
trad_lifestyle  Traditional values: Agree/disagree are newer lifestyles are breaking down society
trad_tolerant  Traditional values: Agree/disagree that one should be more tolerant of other moral standards
trad_values_scale  Traditional values: Moral traditionalism scale
trust_social  Trust: How often can people be trusted?
trustgov_bigintrst  Trust: Is government run by a few big interests or for benefit of all?
trustgov_corrupt  Trust: How many in government are corrupt?
trustgov_trustgrev  Trust: How often trust gov’t in Wash to do what is right? (reversed)
trustgov_trustgstd  Trust: How often trust government in Wash to do what is right?
trustgov_waste  Trust: Does government waste much tax money?
trustgypo_crook  Trust: How many in government are crooked?
usworld_stay  International relations: Country better off if we just stayed home
usworld_stronger  International relations: During last year, U.S. position in world is weaker/stronger/same?
version  ANES 2012 Time Series Release Version
voted2008  Did Respondent vote for President in 2008? (Recode of interest_voted2008)
voted2012  Did Respondent vote in 2012?
voter_type  Voter type (non, new, voter)
weight_fif  Post-stratified weight for face-to-face cases, preliminary
weight_full  Post-stratified weight for full sample, preliminary release
weight_web  Post-stratified weight for web cases, preliminary release
white  Is Respondent white?
wiretap_warrant  Wiretaps: Favor or oppose authority to wiretap terrorism suspects?
wiretappo_toofar  Wiretaps: Has government power gone too far?
women_bond_x  Working women: Harder to establish bond with child?
women_role  Working women: Women’s role (numeric scale)
women_role_2  Working women: Women’s role at home or work?
women_works_x  Working women: Better if man works and woman takes care of home and family?
wpres_gdbd_x  How good/bad to have woman president in next 20 years?
w t  Sampling weight
year  ANES year
Source

2012 American National Election Survey. See Appendix Table A.2 of printed textbook for further information

nesD

NES design dataset for R Companion to Essentials of Political Analysis, Second Edition

Description

The American National Election Survey polls individuals about their political beliefs and behavior. This design dataset is used to demonstrate application of certain R functions to political analysis. See nes dataset documentation for variable names and descriptions.

Usage

nesD

Format

A design dataset version of the nes dataset used for certain weighted analyses. The variables element has 5916 observations of 399 variables.

Source

2012 American National Election Survey. See Appendix Table A.2 of printed textbook for further information

orci

Translate logistic regression coefficients into odds ratios

Description

Generates odds-ratios based on logistic regression model coefficients

Usage

orci(model, digits = 3)

Arguments

model An estimated logistic regression model
digits Number of digits after decimal to display
**Value**

Returns odds ratios and confidence intervals in columns (a matrix class object)

**Examples**

```r
library(poliscidata)
obama_state_model <- glm(obama_win ~ secularism + gunlaw_rank, data=states, family=binomial)
summary(obama_state_model)
orci(obama_state_model)

obama_vote_model <- svyglm(obama_vote ~ ft_dem, design=nesD, family="quasibinomial")
summary(obama_vote_model)
orci(obama_vote_model)
```

**Description**

Comparing Logistic Regression Models with Chi-Squared Test

**Usage**

```r
pchisqC(reduced, full, digits = 3)
```

**Arguments**

- `reduced`: The reduced logistic regression model as an object. This is model with fewer independent variables.
- `full`: The full logistic regression model as an object. This is model with more independent variables.
- `digits`: The number of digits to display after decimal point, default is 3.

**Value**

The chi-squared statistic, df, and p-value as a vector of numbers to test null hypothesis that full model no better than reduced model.

**Examples**

```r
library(poliscidata)
obama_vote_model_reduced <- svyglm(obama_vote ~ ft_dem + white, design=nesD, family="quasibinomial")
obama_vote_model_full <- svyglm(obama_vote ~ ft_dem + white + (owngun_owngun="1. Yes"), design=nesD, family="quasibinomial")
pchisqC(obama_vote_model_reduced, obama_vote_model_full)
```
**plotChar**

*Displays plotting characters available in R*

**Description**

Displays plotting characters available in R. No values supplied to function.

**Usage**

```r
plotChar()
```

**Value**

No return

**Examples**

```r
plotChar()
```

---

**plotmeansC**

*Plots mean comparison*

**Description**

Plots the mean values of a dependent variable at different values of nominal or ordinal independent variable. Makes use of survey package’s `svy`

**Usage**

```r
plotmeansC(data, function1 = NULL, function2 = NULL, function3, w = 1, ...)
```

**Arguments**

- `data` A dataset (e.g. gss, nes, states, or world) or design dataset (e.g. gssD, nesD, statesD, or worldD)
- `function1` A function in the form of ~ depvar
- `function2` A formula in the form of ~ indepvar
- `function3` A formula in the form of depvar ~ indepvar
- `w` Weights, in the form ~ weightvar (optional, not needed if you use a design dataset)
- `...` Additional arguments passed to gplots package’s `plotmeans` function
Value

No return

Examples

library(poliscidata)

plotmeansC(nesD, ~ft_hclinton, ~pid_x, ft_hclinton~pid_x,
  xlab="Party Identification", ylab="Ratings of Hillary Clinton",
  main="Ratings of Hillary Clinton by Party Identification")

plotmeansC(nes,~envir,~pid_3,envir~pid_3,w=~wt,
  xlab="Party Identification",
  ylab="Percent Pro-Environment",
  main="Percentage Favoring Environment over Jobs, \n by Party ID")

printC

Prints html-ready table to local working directory

Description

Prints html-ready table to local working directory. Makes use of xtable package's print.xtable function.

Usage

printC(objx)

Arguments

objx A table or data frame

Value

No return

Examples

library(poliscidata)

zodiac_table <- freq(x=gss$zodiac, w=gss$wtss, plot=FALSE)
printC(zodiac_table)
prop.testC \textit{Difference of Proportions Test}

\textbf{Description}

Difference of proportions test with optional sample weights. Reports P-value of two-tailed significance test.

\textbf{Usage}

\texttt{prop.testC(y, x, w = NULL, digits = 3)}

\textbf{Arguments}

- \texttt{y} Dependent variable, should be coded as 0 or 1.
- \texttt{x} Independent variable, should have only two unique values.
- \texttt{w} Weights, optional.
- \texttt{digits} Number of digits to report after decimal place, optional (default = 3).

\textbf{Value}

No return

\textbf{Examples}

\begin{verbatim}
library(poliscidata)
prop.testC(nes$dem, nes$gender, w=nes$nesw)
\end{verbatim}

\begin{center}
\textbf{quickConsolePrint \textit{Prints string to console quickly}}
\end{center}

\textbf{Description}

Prints string to console quickly, but still scolls for visual effect

\textbf{Usage}

\texttt{quickConsolePrint(linetoprint)}

\textbf{Arguments}

- \texttt{linetoprint} Text to be printed to console

\textbf{Value}

No value returned
SetTextContrastColor | Sets contrasting color for text

**Description**

Sets color for text that effectively contrasts with the background color specified. Used by the **Colors** function.

**Usage**

```
SetTextContrastColor(color)
```

**Arguments**

- **color**
  A color

**Value**

Returns either "black" or "white"

---

slowConsolePrint | Prints string to console slowly

**Description**

Prints string to console slowly to make text more readable to the user. Used by **welcome** function.

**Usage**

```
slowConsolePrint(linetoprint, slow = 0.05)
```

**Arguments**

- **linetoprint**
  Text to be printed to console
- **slow**
  Time, in milliseconds, to wait between characters printed to console (default is 0.05).

**Value**

No value returned
### somersD

**Calculates Somer’s D**

**Description**

This function calculates the Somer’s D measure of association statistic. This function makes use of the `svytable` function from the survey package.

**Usage**

```r
somersD(formula, data)
```

**Arguments**

- `formula`: A formula in the form `~ indepvar + depvar`
- `data`: A design dataset (e.g. `gssD`, `nesD`, `statesD`, or `worldD`)

**Value**

Return Somer’s D measure of association statistic, a number between 0 and 1.

**Examples**

```r
library(poliscidata)

somersD(~ dem_educ3 + envjob_3, nesD)
```

---

### sortC

**Returns case-level information in order**

**Description**

Returns case-level information in order specified by user.

**Usage**

```r
sortC(data, id, by, descending = TRUE)
```

**Arguments**

- `data`: Dataset to be sorted.
- `id`: A variable in the dataset (data) that identifies individual cases, typically the name of states, countries, etc.
- `by`: Variable the dataset should be sorted by.
- `descending`: Should the cases be sorted in descending order? By default, set to TRUE.
Value

A data frame of sorted observations.

Examples

```r
library(poliscidata)

sortC(data=states, id=state, by=abortlaw10)

sortC(data=states, id=state, by=abortlaw10, descending=FALSE)
```

<table>
<thead>
<tr>
<th>states</th>
<th>States dataset for <em>R Companion to Essentials of Political Analysis, Second Edition</em></th>
</tr>
</thead>
</table>

Description

A dataset with variables about the 50 states. This dataset is used to demonstrate application of R to political analysis. See book Appendix for variable names and descriptions.

Usage

```r
states
```

Format

A data frame with 50 rows and 135 variables.

- **abort_rank3** Abortion restrictions (3 category ranking)
- **abort_rate05** Abortions per 1,000 women (2005)
- **abort_rate08** Number of abortions per 1,000 women aged 15-44 (2008)
- **abortion_rank12** 2012 Abortion rank (Americans United for Life)
- **abortlaw10** Number of restrictions on abortion (2010)
- **abortlaw3** Abortion restrictions (three tiers of number of restrictions)
- **adv_or_more** Percent of population with advanced degree or higher
- **alcohol** Alcohol consumption in gallons per capita (2007)
- **attend_pct** Percent frequently attend religious serviced (Pew)
- **ba_or_more** Percent of population with college degree or higher
- **battle04** Battleground state in 2004?
- **blkleg** Percent of state legislators who are black
- **blkpct04** Percent black (2004)
- **blkpct08** Percent black (2008)
- **blkpct10** Percent black (2010)
bush00  Percent voting for Bush in 2000
bush04  Percent voting for Bush in 2004
carfatal  Motor vehicle fatalities (per 100,000 pop)
carfatal07  Motor vehicle fatalities per 100,000 pop (2007)
cig_tax  Cigarette tax per pack (2007)
cig_tax_3  Cigarette tax per pack: 3 categories (2007)
cig_tax12  Cigarette tax per pack (2012)
cig_tax12_3  Cigarette tax per pack: 3 categories (2012)
cigarettes  Packs smoked bimonthly per adult (2003)
college  Percent of population with college or higher
compct_m  Percent mass public Conservative
cons_hr06  Conservatism score, US House delegation (2006)
cons_hr09  Conservatism score, US House delegation (2009)
conserv_advantage  Conservative advantage, mass public (2012)
conserv_public  Percent mass public conservative (2013)
cook_index  Cook Index: Higher scores mean more Democratic
cook_index3  3 quantiles of cook_index
defexpen  Federal defense expenditures per capita
dem_advantage  Democratic advantage, mass public (2012)
dem_hr09  Percent US House delegation Democratic (2009)
demhr11  Percent HR delegation Democratic (2011)
demnat06  Percent US House and Senate Democratic (2006)
dempct_m  Percent mass public Democratic
demstate06  Percent of state legislators who are Democrats (2006)
demstate09  Percent of state legislators who are Democrats (2009)
demstate13  Percent state legislature Democrats (2013)
density  Population density (2010)
division  Census division (9 different regions of country)
earmarks_pcap  Earmarks per capita (in dollars)
evm  State electoral vote: McCain (2008)
evo  State electoral vote: Obama (2008)
evo2012  Obama’s Electoral College vote
evr2012  Romney’s Electoral College vote
gay_policy  Billman’s policy scale (4 ordinal categories)
gay_policy_con  Does state have ’most conservative’ gay policies?
gay_policy2  RECODE of gay_policy (Billman’s policy scale)
gay_support  Lax-Phillips opinion index
gay_support3 Gay rights: public support (3 categories)
gb_win00 Did Bush win electoral vote, 2000?
gb_win04 Did Bush win electoral vote, 2004?
gore00 Percent voting for Gore 2000
govt_worker Percentage workforce government workers (2012)
gun_check Background checks for gun purchases per 100,000 pop (2012)
gun_dealer Gun dealers per 100,000 pop
gun_murder10 Gun murder rate (2010)
gun_rank_rev Recode of gun_rank11 so higher number ranks = more gun restrictions
gun_rank11 Brady gun rank (2011)
gun_rank3 Recode of gun_rank11 (3 ordinal categories)
gun_scale11 Brady gun law scale (2011)
gunlaw_rank Brady campaign rank (2008)
gunlaw_rank3_rev Number of restrictions (2008)
gunlaw_scale Brady campaign score (2008)
hispanic04 Percent Hispanic (2004)
hispanic08 Percent Hispanic (2008)
hispanic10 Percent Hispanic (2010)
hr_cons_rank11 Conservativism ranking of House of Representatives delegation (2011, American Conservative Union)
hr_conserv11 Conservativism rating of House of Representatives delegation (2011, American Conservative Union)
hr_lib_rank11 Liberalism ranking of House of Representatives delegation (2011, Americans for Democratic Action)
hr_liberal11 Liberalism rating of House of Representatives delegation (2011, Americans for Democratic Action)
hs_or_more Percent population high school education or higher
indpct_m Percent mass public Independent
kerry04 Percent voting for Kerry 2004
libpct_m Percent mass public Liberal
mccain08 Percent voting for McCain 2008
modpct_m Percent mass public Moderate
nader00 Percent voting for Nader 2000
obama_win08 Did Obama win electoral vote, 2008?
obama_win12 Did Obama win the state in 2012?
obama08 Percent voting for Obama 2008
obama2012 Obama vote share in 2012
over64 Percent population over age 64
permit  Percent public that would always permit abortion (2004 NES)
pop_18_24_10  Percent population aged 18-24 (2010)
pop2000  State population, 2000
pop2010  State population, 2010
pop2010_hun_thou  State population, 2010 (in 100k)
popchng0010  State population, 2000-2012
popchngpct  State population percentage, 2000-2010
pot_policy  Marijuana laws
prcapinc  Per capita income
prochoice  Percent public pro-choice
prolife  Percent public pro-life
region  Census region (4 categories)
relig_cath  Percentage Catholic (2012)
relig_high  Percentage high religiosity (2012)
relig_import  Percent religion "A great deal of guidance"
relig_low  Percentage low religiosity (2012)
relig_prot  Percentage Protestant (2012)
religiosity  Religious observance-belief scale (Pew)
religiosity3  Religiosity (3 categories)
reppct_m  Percent mass public Republican
romney2012  Romney vote share in 2012
rtw  Right to work state?
secularism  Secularism scale (Pew)
secularism3  3 quantiles of secularism
seniority_sen2  Does state have influential US Senator?
smokers12  Percentage of population who smoke
south  Southern state?
state  State name
stateid  Two letter postal abbreviation for state name
to_0004  Percentage point change in turnout from 2000 to 2004
to_0408  Percentage point change in turnout from 2004 to 2008
to_0812  Percentage point change in turnout from 2008 to 2012
trnout00  Turnout in 2000 presidential election
trnout04  Turnout in 2004 presidential election
unemploy  Unemployment rate (2004)
uninsured_pct  Percentage without health insurance (2012)
**statesD**

- **union04**: Percent workers who are union members (2004)
- **union07**: Percent workers who are union members (2007)
- **union10**: Percent workforce unionized (2010)
- **urban**: Percent urban population (2000)
- **vep00_turnout**: Percent turnout of voting eligible population in 2000
- **vep04_turnout**: Percent turnout of voting eligible population in 2004
- **vep08_turnout**: Percent turnout of voting eligible population in 2008
- **vep12_turnout**: Percent turnout of voting eligible population in 2012
- **womleg_2007**: Percent of state legislators who are women (2007)
- **womleg_2010**: Percent of state legislators who are women (2010)
- **womleg_2011**: Percent of state legislators who are women (2011)
- **womleg_2015**: Percent of state legislators who are women (2015)

**Source**

Data sources vary. See Appendix Table A.3 of printed textbook for further information.

---

**Description**

This is a design dataset with variables about the 50 states. This design dataset is used to demonstrate application of certain R functions to political analysis. See statesD dataset documentation for variable names and descriptions.

**Usage**

statesD

**Format**

A design dataset version of the states dataset used for certain weighted analyses. The variables element has 50 observations of 135 variables.

**Source**

Sources vary. See Appendix Table A.3 of printed textbook for further information.
svybyC

Computes summary statistics

Description
Computes statistics for controlled mean comparison table. Used by `imansC` function.

Usage
svybyC(formula1 = NULL, formula2 = NULL, data, ...)

Arguments
formula1 A formula
formula2 A formula
data Dataset
... Further arguments to be passed to svyby function.

Value
A svyby-type object

svychisqc

Chi-Squared Statistic for Relationship Between Categorical Variables using Weighted Dataset

Description
This function reports chi-squared test statistic based on weighted dataset.

Usage
svychisqc(formula, design)

Arguments
formula Formula expressing the relationship between variables in the form ~ depvar + indepvar
design Weighted design dataset (like gssD, nesD, statesD, or worldD)

Value
No return
**Examples**

```r
library(poliscidata)
svychisq(~ gay_rights3 + libcon3, nesD)
```

---

**Description**

This function is called by `somersD` function.

**Usage**

```r
tablesomersDC(x, dep = 2)
```

**Arguments**

- `x`: A `svytable`
- `dep`: which dimension stands for the dependent variable (1 = ROWS, 2 = COLS), default is 2.

**Value**

No return

---

**Welcome**

*Function to Introduce Users to R Companion Environment*

**Description**

Welcomes users to Companion Package to Political Analysis and provides basic information about using Companion functions and datasets.

**Usage**

```r
welcome()
```

**Value**

No value returned
Description

A dataset with variables about countries in the world. This dataset is used to demonstrate application of R to political analysis. See book Appendix for variable names and descriptions.

Usage

world

Format

A data frame with 167 rows and 103 variables.

arda  Country numerical code
colony Colony of what country? (CIA)
confidence Confidence in institutions scale (World Values Survey)
country Country/territory name (title case)
country1 Country/territory name (title case), may be same as country
debt  Public debt as a percentage of GDP (CIA)
decent08 Democratic decentralization, 2008 (UN)
dem_economist Full or Part Democracy (Economist, 2014)
dem_level4 Regime type (Economist 2014)
dem_other Percentage of other democracies in region
dem_other5 Percentage of other democracies in region: 5 categories
dem_rank14 Democracy rank, lower scores more democratic (Economist 2014)
dem_score14 Democracy score, higher scores more democratic (Economist 2014)
democ  Is government a democracy? (Based on regime_type3)
democ.yes  Is government a democracy? Coded 0/100 (Based on regime_type3)
democ_regime Is regime a democracy? (1990)
democ_regime08 Is government a democracy? (may be redundant)
democ11 Democracy score, 2011 (UN)
district_size3 Average # of members per district (World Values Survey)
dnpp_3  Effective number of parliamentary parties
durable Number of years since the last regime transition (Polity)
effectiveness Government effectiveness scale (Kaufmann 2002)
enpp3_democ Effective number of parliamentary parties: 3 categories
enpp3_democ08 Effective number of parliamentary parties (World Values Survey)

eu EU member state (yes/no)

fertility Total fertility rate: Number children born per woman (CIA)

frate04_rev Freedom House rating of democracy (reversed)

frate08_rev Freedom House 1-7 scale reversed, rescaled 0-12

frac_eth Ethnic factionalization (combined linguistic and racial) (Alesina et al 2003)

frac_eth2 Ethnic factionalization (combined linguistic and racial) (Binned)

frac_eth3 Level of ethnic fractionalization: 3 categories

free_business Heritage Foundation rating: bus. freedom (2010)

free_corrupt Heritage Foundation rating: corruption (2010)

free_finance Heritage Foundation rating: financial freedom (2010)

free_fiscal Heritage Foundation rating: fiscal freedom (2010)

free_govspend Heritage Foundation rating: government spending (2010)

free_invest Heritage Foundation rating: invest freedom (2010)

free_labor Heritage Foundation rating: labor freedom (2010)

free_monetary Heritage Foundation rating: monetary freedom (2010)

free_overall Heritage Foundation rating: overall economic freedom (2010)

free_overall_4 4 quantiles of free_overall

free_property Heritage Foundation rating: property rights (2010)

free_trade Heritage Foundation rating: free trade (2010)

gdp_10_thou GDP per capita in 10K US$ (2002)

gdp_cap2 GDP per capita (US$): 2 categories (2002)


gdp08 GDP in billions in 2008 (World Bank)

gdpcap08_2 GDP per capita (US$) in 2008, 2 categories

gdpcap2_08 GDP per capita (US$) in 2008, 2 categories (may be redundant)

gdpcap3_08 GDP per capita (US$) in 2008 (Binned)

gdppcap08 GDP per capita in 2008 (World Bank)

gdppcap08_3 3 quantiles of gdppcap08 (as numeric)

gender_equal3 Gender empowerment measure, 3 categories (World Values Survey)

gender_unequal Gender Inequality Index value, 2008 (UN)

gender_unequal_rank Gender Inequality Index rank, 2008 (UN)

gini04 Gini coefficient (UN 2004)

gini08 Gini coeff (UN 2008)

gini10 Income Gini coefficient, 2000-2010 (UN)

govregrel Government regulation of religion index, 2008 (CIA)

hdi Human development index (HDI) value, 2010 (UN)
hi_gdp  High GDP dummy
indy  Year of independence (CIA)
ipu_wom13_all  Percent Women in lower house of legislature, all countries, 2013 (Inter-Parliamentary Union)
lifeex_f  Life expectancy at birth among females (CIA)
lifeex_m  Life expectancy at birth among males (CIA)
lifeex_total  Life expectancy at birth, total population (CIA)
literacy  Literacy rate (CIA)
muslim  Is Muslim predominately religious group?
natcode  Name of country (lower case)
oecd  OECD member state (yes/no)
oil  Oil production, in barrels per day (CIA)
pmat12_3  Post-materialism, 3 categories (World Values Survey)
polity  Higher scores more democratic (Polity)
pop_0_14  Percentage of population age 0-14 (CIA)
pop_15_64  Percentage of population age 15-64 (CIA)
pop_65_older  Percent of population age 65 and older (CIA)
pop_age  Median age in years, 2010
pop_total  Total population in millions, 2010 (UN)
pop_urban  Percentage of the total population living in urban areas, 2010 (UN)
pr_sys  Proportional representation system? (Institute for Democracy and Electoral Assistance)
protact3  Protest activity (World Values Survey)
regime_type3  Regime type (Cheibub’s Democracy Dictatorship dataset)
regionun  United Nations region
religoin  Largest religion by proportion (UN)
rich_democ  Rich democracy, interaction of Hi_gdp*democ_regime
sexratio  Sex ratio at birth (male births per 100 female births), 2010
spendeduc  Public expenditure on education as a percentage of GDP (UN)
spendhealth  Public expenditure on health as a percentage of GDP (UN)
spendmil  Public expenditure on the military as a percentage of GDP, 2008 (UN)
unions  Union density (www.ilo.org)
unnetgro  Percent growth in the number of Internet users, population based, 2000-2008 (UN)
unnetuse  Internet users per 100 people, 2008 (UN)
unpovnpl  Percentage of population below national poverty line, 2000-2008 (UN)
unremitp  Per capita remittance inflows in US dollars, 2008
unremitt  Remittance inflows as a percentage of GDP, 2008
vi_rel3  Percent saying religion very important, 3 categories
votevap00s Turnout: most recent election in 2000s (Institute for Democracy and Electoral Assistance)

votevap90s Turnout: elections in 1990s (Institute for Democracy and Electoral Assistance)

women05 Percent women in lower house of legislature, democracies only, 2005 (Inter-Parliamentary Union)

women09 Percent women in lower house of legislature, democracies only, 2009 (Inter-Parliamentary Union)

women13 Percent Women in lower house of legislature, democracies only, 2013 (Inter-Parliamentary Union)

womyear Year women first enfranchised (Inter-Parliamentary Union)

womyear2 Women’s suffrage (Inter-Parliamentary Union)

Source

Sources vary. See Appendix Table A.4 of printed textbook for further information.

worldD

World design dataset for R Companion to Essentials of Political Analysis, Second Edition

Description

This is a design dataset with variables about countries in the world. This dataset is used to demonstrate application of R to political analysis. See world dataset documentation for variable names and descriptions.

Usage

worldD

Format

A design dataset version of the world dataset used for certain weighted analyses. The variables element has 167 observations of 103 variables.

Source

Sources vary. See Appendix Table A.4 of printed textbook for further information
### wtd.median

#### Description

Takes in variable and finds median, works with sampling weights

#### Usage

```
wtd.median(x, weights = NULL)
```

#### Arguments

- **x**: A variable
- **weights**: Sampling weights of variable (optional)

#### Details

Makes use of the wtd.quantile function, part of the Hmisc package

#### Value

Returns the median value of the variable

#### Examples

```
library(poliscidata)

wtd.median(nes$budget_deficit_x, nes$wt)
```

### wtd.mode

#### Description

Takes in variable and finds mode, works with sampling weights

#### Usage

```
wtd.mode(x, weights = NULL)
```

#### Arguments

- **x**: A variable
- **weights**: Sampling weights of variable (optional)
Details

Makes use of the freq function, part of the descr package

Value

Returns the modal value of the variable

Examples

```r
library(poliscidata)

wtd.mode(gss$zodiac, gss$wtss)
```

---

Find Standard Deviation of Variable

Description

Takes in variable and calculates standard deviation, works with sampling weights.

Usage

```r
wtd.sd(x, weights = NULL)
```

Arguments

- `x` A variable (must be numeric), should be in dataset$var form.
- `weights` Sampling weights of variable (optional), should be in dataset$weightvar form.

Details

Makes use of the freq function, part of the descr package.

Value

Returns the standard deviation of the variable, a numeric value.

Examples

```r
library(poliscidata)

wtd.sd(nes$polknow_combined, nes$wt)
```
**wtd.ttestC**  
*Weighted T-Test*

**Description**
This function conducts a weighted t-test

**Usage**

```
wtd.ttestC(f1, f2, data, digits = 3)
```

**Arguments**

- **f1**  
  Function identifying interval-level dependent variable in the form `~ depvar`
- **f2**  
  A function that defines groups to be compared in the form `~ indepvar`
- **data**  
  A design dataset such as gssD, nesD, statesD, or worldD
- **digits**  
  Number of digits to report after decimal place, optional (default = 3).

**Value**
No return

**Examples**

```r
library(poliscidata)
wtd.ttestC(f1 = ~ ftgr_gay, f2 = ~ gender, data = nesD)
wtd.ttestC(~ ft_rep, ~ gender, nesD)
```

---

**xtabC**  
*Controlled cross tabulation analysis with optional weights*

**Description**
Controlled cross tabulation analysis with optional weights

**Usage**

```
xtabC(function1, data, digits = 2)
```

**Arguments**

- **function1**  
  A function of the relationship to be analyzed expressed in the form `~ depvar + indepvar + controlvar`
- **data**  
  A design dataset (e.g. gssD, nesD, statesD, worldD)
- **digits**  
  Number of digits to report after decimal place, optional (default = 2).
Value

A controlled cross tabulation as a multi-dimensional array.

Examples

```r
library(poliscidata)

xtabC(~ divlaw2 + attend3 + kids, gss)
```

---

**xtp**

Cross tabulation Analysis

Description

Generates cross-tabulation of dependent and independent variables, also creates a mosaic plot. Makes use of the crosstab function in the descr package.

Usage

```r
xtp(data, y, x, w = NULL, ylab = NULL, xlab = NULL, main = NULL,
    digits = 2, chisq = FALSE)
```

Arguments

data Dataset (like gss, nes, states, or world)
y Dependent variable
x Independent variable
w Weights (optional)
ylab Y-axis label (optional)
xlab X-axis label (optional)
main Main label for plot (optional)
digits Number of digits to report after decimal place, optional (default = 2)
chisq Do you want Chi-Squared test reported? (default is FALSE)

Value

A data frame of the cross tabulation results

Examples

```r
library(poliscidata)

xtp(gss, grass, attend3, wtss)
```
Cross tabulation Analysis with Chi-Squared Statistic

Description

This function makes use of the crosstab function from the descr package.

Usage

```r
xtp.chi2(data, y, x, w = NULL, digits = 1, prop.c = FALSE)
```

Arguments

data: Dataset to be sorted
y: Dependent variable
x: Independent variable
w: Weights (optional)
digits: Number of digits to report after decimal place, optional (default = 1).
prop.c: Do you want column percentages reported in table? (default is FALSE)

Value

Returns a data frame of cross tabulation results

Examples

```r
library(poliscidata)

xtp.chi2(gss, pornlaw, attend3, wtss)
```
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