Package ‘poliscidata’

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AdjR2

Calculates adjusted R-Squared statistic

Description

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)

---

imported.functions

Imported Functions Made Available to Users

Description

The `compmeans` function is imported from the 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 `ddply` function is imported from the plyr package. See `ddply` 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.
The \texttt{stata.get} function is imported from the Hmisc package. See \texttt{stata.get} documentation for details.

The \texttt{svyboxplot} function is imported from the survey package. See \texttt{svyhist} documentation for details.

The \texttt{svyby} function is imported from the survey package. See \texttt{svyby} documentation for details.

The \texttt{svychisq} function is imported from the survey package. See \texttt{svychisq} documentation for details.

The \texttt{svydesign} function is imported from the survey package. See \texttt{svydesign} documentation for details.

The \texttt{svyglm} function is imported from the survey package. See \texttt{svyglm} documentation for details.

The \texttt{svymean} function is imported from the survey package. See \texttt{svyglm} documentation for details.

The \texttt{svyplot} function is imported from the survey package. See \texttt{svyplot} documentation for details.

The \texttt{svyttable} function is imported from the survey package. See \texttt{svychisq} documentation for details.

The \texttt{wtd.chi.sq} function is imported from the weights package. See \texttt{wtd.chi.sq} documentation for details.

The \texttt{wtd.cor} function is imported from the weights package. See \texttt{wtd.cor} documentation for details.

The \texttt{wtd.hist} function is imported from the weights package. See \texttt{wtd.hist} documentation for details.

The \texttt{wtd.mean} function is imported from the Hmisc package. See \texttt{wtd.stats} documentation for details.

The \texttt{wtd.quantile} function is imported from the Hmisc package. See \texttt{wtd.stats} documentation for details.

The \texttt{wtd.t.test} function is imported from the weights package. See \texttt{wtd.t.test} documentation for details.

The \texttt{wtd.var} function is imported from the Hmisc package. See \texttt{wtd.stats} documentation for details.

\textbf{Usage}

\begin{verbatim}
  compmeans(...)
  crosstab(...)
  csv.get(...)
  cut2(...)
  ddply(...)
  describe(...)
\end{verbatim}
freq(...)
plotmeans(...)
scatterplot(...)
spss.get(...)
stata.get(...)
svyboxplot(...)
svyby(...)
svychisq(...)
svydesign(...)
svyglm(...)
svymean(...)
svyplot(...)
svytable(...)
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.

Value
Returns the 99
Colors

Examples

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

Colors Displays R Colors

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.

Value

Table of column-percentaged values
CramersV

compADPQ

*Calculates a statistic for measure of association in cross-tabulation*

**Description**
This function is called by `tablesomersDC` function.

**Usage**

```r
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**

```r
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**

```r
CramersV(84.18, 2, 2, 1315)
CramersV(chi=84.18, r=2, c=2, n=1315)
```
fit.svyglm

Calculates model fit statistics for a svyglm weighted regression model

Description
Model fit statistics for a svyglm weighted regression model

Usage
fit.svyglm(svyglm, digits = 3)

Arguments
svyglm An object of type svyglm. This object is the output of the svyglm 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(poliscidata)

obamaThermModel <- svyglm(obama_therm ~ gender, design=nesD, na.action="na.omit")
summary(obamaThermModel)
fit.svyglm(obamaThermModel)

freqC
Generates table and figure describing distribution of variable values.

Description
Generates frequency distribution table and bar chart to describe distribution of variable values. Based on freq function in descr package.

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 "fretable" and "matrix" class object)

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

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
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?
ethnic 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)
feeused Fee Given to Get Case (for the Interview)
fefam 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
helpblk Should Government Aid Blacks?
helpnot Should Government Do More or Less?
helpoth To Help Others
helppoor Should Government Improve Standard of Living?
helprick 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
intcon  Interested in Economic Issues?
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?
libmil  Allow Militarists Book in Library?
libmslm  Allow Anti-American Muslim Clergymen’s Books in Library?
librac  Allow Racists Book in Library?
lngthinv  How Long Was Interview
marital  Marital Status
militarist_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
natarms 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
natfare Federal spending: Welfare
natheal Federal spending: Improving & Protecting Nations Health
natmass Federal spending: Mass Transportation
natpark Federal spending: Parks and Recreation
natrace Federal spending: Improving the Conditions of Blacks
natroad Federal spending: Highways and Bridges
natsci Federal spending: Supporting Scientific Research
natsoc Federal spending: Social Security
natspac Federal spending: Space Exploration Program
news How Often Does Respondent Read Newspaper
obey To Obey
obey2 Obedience Important in Children?
owngun 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
premar sx  Sex Before Marriage
pres08  Vote Obama or McCain
racdif1 Differences Due to Discrimination
racdif2 Differences Due to Inborn Disability
racdif3 Differences Due to Lack of Education
racdif4 Differences Due to Lack of Will
race  Race of Respondent
race_2  Race: Black / White
racial liberal3 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
spkmism  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: Important 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

ccitzn: 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

wrkgvt: 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

gssD
imeansC

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
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
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**

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**

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**

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)
**lineType**

*Value*

No value returned

*Examples*

```r
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")
```

---

**logregR2**

*Logistic regression model statistics*

*Description*

Logistic regression model statistics

*Usage*

```r
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

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_iwrs4  Does Respondent have a dog (Interview set-up test)
casistartip_iwrs4  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_peyemail  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_persude  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_poliinftwo  Political information - party 2nd in House seats won
cses_pollnf_x  Pol info scale
cses_pollntwo  Political information - unemployment rate
cses_pollntwo_date  Political information - date used for date of unemployment rate
cses_pollnttwo_rate  Political information - number used for unemployment rate
cses_spending  Econ conservatism (numeric scale)
deathpen  Death Penalty Opinion
defsprr_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_jwdate 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_nunchild 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
**dhsinvol_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_discpstk** 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

**ecperil_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
effic_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
fedspend_crimer  Federal budget increase/decrease: crime control (rev. scale)
fedspend_enviro  Federal budget increase/decrease: protecting environment
fedspend_envior  Federal budget increase/decrease: protecting environment (rev. scale)
fedspend_poor  Federal budget increase/decrease: aid to the poor
fedspend_poorr  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
fedspend_schoolsr  Federal budget increase/decrease: public schools (rev. scale)
fedspend_scitech  Federal budget increase/decrease: science and technology
fedspend_scitechr Federal budget increase/decrease: science and technology (rev. scale)
fedspend_ss  Federal budget increase/decrease: Social Security
fedspend_ssr  Federal budget increase/decrease: Social Security (rev. scale)
fedspend_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
ftcasi_asian  Feeling thermometer: Asian-Americans
ftcasi_black  Feeling thermometer: Blacks
ftcasi_hisp  Feeling thermometer: Hispanics
ftcasi_illegal  Feeling thermometer: Illegal Immigrants
ftcasi_white  Feeling thermometer: Whites
ftf_oversample  Was Respondent a 2012 Time Series Oversample Case?
ftgr_atheists  Feeling thermometer: Atheists
ftgr_bigbus  Feeling thermometer: Big Business
ftgr_catholics  Feeling thermometer: Catholics
ftgr_congress  Feeling thermometer: Congress
ftgr_cons  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
feeling thermometer: Rich People
feeling thermometer: Tea Party
feeling thermometer: Labor Unions
feeling thermometer: The U.S. Supreme Court
feeling thermometer: People on Welfare
feeling thermometer: Working Class People
feeling thermometer: Christian Fundamentalists
feeling thermometer: Christians
feeling thermometer: Spouse of Democratic Presidential candidate
feeling thermometer: Democratic Vice Presidential candidate
feeling thermometer: House Democratic Candidate
feeling thermometer: House Independent/3rd-party Candidate
feeling thermometer: House Republican Candidate
feeling thermometer: Democratic Presidential candidate
feeling thermometer: John Roberts
feeling thermometer: Republican Presidential candidate
feeling thermometer: Spouse of Republican Presidential candidate
feeling thermometer: Republican Vice Presidential candidate
feeling thermometer: Senate Democratic Candidate
feeling thermometer: Jr. Senator in State Without Race
feeling thermometer: Non-running Senator in State W/Race
feeling thermometer: Sr. Senator in State Without Race
feeling thermometer: Senate Independent/3rd-party Candidate
feeling thermometer: Senate Republican Candidate
Gay rights: Should gay and lesbian couples be allowed to adopt?
Gay rights: favor laws against gays/lesbians job discrimination (rev.)
Gay rights: favor laws against gays/lesbians job discrimination
Gay rights: Respondent position on gay marriage
Gay rights: allow gays/lesbians serve in US armed forces (reversed)
Gay rights: allow gays/lesbians serve in US armed forces
Respondent’s Gender
govrole_scale  Pro-government scale (numeric scale)
guapr_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_incgroup_pre  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
ineqine_ineqgb  Is increased income inequality in U.S. good?
ineqine_ineqred  Does Respondent favor/oppose government reducing income inequality?
inspre_self  Health care: Should care be insured by government or by private medical insurance? (7 point scale)
involv_contact  Involvement in politics: Contact congress?
involv_message  Involvement in politics: post political message?
involv_numorgs_4  Involvement in politics: Number of group memberships
involv_org  Involvement in politics: Give money to political organization?
involv_petition  Involvement in politics: Sign net petition?
involv_voltr  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?
esw  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_favpen  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_presvwho  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_prestimes  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
resentracial_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_ssself  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_ftf  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?
wt  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**

```r
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**

```r
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

library(poliscidata)
obama_state_model <- glm(obama_win12 ~ 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)

---

pchisqC

Comparing Logistic Regression Models with Chi-Squared Test

Description

Comparing Logistic Regression Models with Chi-Squared Test

Usage

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

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
plotChar()

Value
No return

Examples
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
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)
... Additonal arguments passed to gplots package’s plotmeans function

Value
No return
Examples

```r
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. See pp. 22 of An R Companion to Political Analysis for example and more information.

**Usage**  
```r
printC(objx)
```

**Arguments**  
- `objx` A table or data frame

**Value**  
No return

---

**prop.testC**  
*Difference of Proportions Test*

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

**Usage**  
```r
prop.testC(y, x, w = NULL, digits = 3)
```
Arguments

y Dependent variable, should be coded as 0 or 1.

x Independent variable, should have only two unique values.

w Weights, optional.

digits Number of digits to report after decimal place, optional (default = 3).

Value

No return

Examples

library(poliscidata)

prop.testC(nes$dem, nes$gender, w=nes$nesw)

Description

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

Usage

quickConsolePrint(linetoprint)

Arguments

linetoprint Text to be printed to console

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>color</td>
<td>A color</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>linetoprint</td>
<td>Text to be printed to console</td>
</tr>
<tr>
<td>slow</td>
<td>Time, in milliseconds, to wait between characters printed to console (default is .05).</td>
</tr>
</tbody>
</table>

Value
No value returned
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

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

library(poliscidata)
somersD(~ dem_educ3 + envjob_3, nesD)

Returns case-level information in order

Description

Returns case-level information in order specified by user.

Usage

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)
```

---

**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**

`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)
cons_advantage  Conservative advantage, mass public (2012)
cons_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
precapine  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.

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

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 states 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

**Description**

Computes summary statistics for controlled mean comparison table. Used by `imeansC` function.

**Usage**

```r
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**

```r
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
tableomersDC
tablesomersDC(~ 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

---

**Description**

Function to Introduce Users to R Companion Environment

**Usage**

```r
welcome()
```

**Value**

No value returned
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)
fhrate04_rev  Freedom House rating of democracy (reversed)
fhrate08_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 predominate 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
unremit  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.

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.boxplot  Weighted Box Plot

Description
The wtd.boxplot function is no longer being used by the poliscidata package. Please use the svyboxplot function instead. See svyhist documentation for details; also see pp. 67-69 of The R Companion to Political Analysis, 2nd Edition.

Usage
wtd.boxplot(...)

Arguments
... Any arguments used will yield same warning message.

Value
Warning message only.

wtd.median  Find Median of Variable

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
wtd.mode

Examples

library(poliscidata)

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

wtd.mode

Find Mode of Variable

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

library(poliscidata)

wtd.mode(gss$zodiac, gss$wtss)
### wtd.sd

**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**

```r
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).
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, gssD)
```
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)
```
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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