Package 'wINEQ'

January 13, 2023
uality Measures for Weighted Data
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on Computes inequality measures of a given variable taking into account weights. Bootomethod provides distribution of inequality measures and several additional statistics.
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ΑF

Allison and Foster index

Description

Computes Allison and Foster inequality measure of a given variable taking into account weights.

Usage

$$AF(X, W = rep(1, length(X)))$$

Arguments

X is a data vector

W is a vector of weights

Details

Let m be the median category and p_i be a share of i-th category. The following index was proposed by Allison and Foster (2004):

$$AF = \frac{\sum_{i=m}^{n} c_i p_i}{\sum_{i=m}^{n} p_i} - \frac{\sum_{i=1}^{m-1} c_i p_i}{\sum_{i=1}^{m-1} p_i}$$

Value

The value of Allison and Foster coefficient.

References

Atkinson A. B.: (1970) On the measurement of inequality

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Cowell F. A.: (2011) Measuring Inequality (Third Edition) ISBN 978-0-19-959403-0

Allison R. A., Foster J E.: (2004) Measuring health inequality using qualitative data, Journal of Health Economics

Kobus M., Miłoś P.: (2011) Inequality decomposition by population subgroups for ordinal data, Working Papers, No. 24

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Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
AF(X)
AF(X,W)

data(Well_being)
# Allison and Foster index for health assessment with sample weights:
X=Well_being$V11
W=Well_being$Weight
AF(X,W)
```

Atkinson

Atkinson index

Description

Computes Atkinson inequality measure of a given variable taking into account weights.

Usage

```
Atkinson(X, W = rep(1, length(X)), e = 1)
```

Arguments

X is a data vector

W is a vector of weights

e is a coefficient of aversion to inequality, by default 1

Details

Atkinson coefficient with respect to parameter ϵ is given by

$$1 - \frac{1}{\mu} \left(\frac{1}{n} \sum_{i=1}^{n} x_i^{1-\epsilon}\right)^{\frac{1}{1-\epsilon}}$$

for $\epsilon \neq 1$ and

$$1 - \frac{1}{\mu} \left(\prod_{i=1}^{n} x_i \right)^{\frac{1}{n}}$$

for $\epsilon = 1$.

Value

The value of Atkinson coefficient.

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References

Atkinson A. B.: (1970) On the measurement of inequality, Journal of Economic Theory

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Allison P.D.: (1978) Measures of Inequality, American Sociological Review

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Atkinson(X)
Atkinson(X,W)

data(Tourism)
# Atkinson index for Total expenditure with sample weights:
X= Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Atkinson(X,W)
```

CoefVar

Coefficient of Variation

Description

Computes Coefficient of Variation inequality measure of a given variable taking into account weights.

Usage

```
CoefVar(X, W = rep(1, length(X)), square = FALSE, na.rm = TRUE)
```

Arguments

X is a data vector

W is a vector of weights

square logical, argument of the function CoefVar, for details see below

na.rm logical, should missing values (NAs) be removed prior to computations? If set

to FALSE the computations yield NA

Details

Coefficient of variation is given by:

$$CV = \frac{\sigma}{\mu} \times 100$$

where σ is a standard deviation and μ is arithmetic mean.

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Value

The value of CoefVar coefficient.

References

Sheret M.: (1984) Social Indicators Research, An International and Interdisciplinary Journal for Quality-of-Life Measurement, Vol. 15, No. 3, Oct. ISSN 03038300

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
CoefVar(X)
CoefVar(X,W)

data(Tourism)
#Coefficient of variation for Total expenditure with sample weights:
X= Tourism$`Total expenditure`
W=Tourism$`Sample weight`
CoefVar(X,W)
```

Entropy

Generalized entropy index

Description

Computes generalized entropy index of a given variable taking into account weights.

Usage

```
Entropy(X, W = rep(1, length(X)), parameter = 0.5, na.rm = TRUE)
```

Arguments

X is a data vector
W is a vector of weights

parameter is a entropy parameter

na.rm logical, should missing values (NAs) be removed prior to computations? If set

to FALSE the computations yield NA

Gini Gini

Details

Entropy coefficient with respect to parameter α is equal to Theil_L(X,W) whenever $\alpha=0$, is equal to Theil_T(X,W) whenever $\alpha=1$, and whenever $\alpha\in(0,1)$ we have

$$GE(\alpha) = \frac{1}{\alpha(\alpha - 1)W} \sum_{i=1}^{n} w_i \left(\left(\frac{x_i}{\mu} \right)^{\alpha} - 1 \right)$$

where W is a sum of weights and μ is the arithmetic mean of $x_1, ..., x_n$.

Value

The value of generalized entropy index

References

Shorrocks A. F.: (1980) The Class of Additively Decomposable Inequality Measures. Econometrica Pielou E.C.: (1966) The measurement of diversity in different types of biological collections. Journal of Theoretical Biology

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Entropy(X)
Entropy(X,W)

data(Tourism)
# Generalized entropy index for Total expenditure with sample weights:
X= Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Entropy(X,W)
```

Gini

Gini coefficient

Description

Computes Gini coefficient of a given variable taking into account weights.

Usage

```
Gini(X, W = rep(1, length(X)))
```

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Arguments

X is a data vector

W is a vector of weights

Details

Gini coefficient is given by:

$$G = \frac{\sum_{i=1}^{n} \sum_{j=1}^{n} |x_i - x_j|}{2n^2 \overline{x}}$$

Value

The value of Gini coefficient.

References

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Dixon P. M., Weiner, J., Mitchell-Olds, T., and Woodley, R.: (1987) Bootstrapping the Gini Coefficient of Inequality. Ecology, Volume 68 (5)

Firebaugh G.: (1999) Empirics of World Income Inequality, American Journal of Sociology

Deininger K.; Squire L.: (1996) A New Data Set Measuring Income Inequality, The World Bank Economic Review, Vol. 10, No. 3

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Gini(X)
Gini(X,W)

data(Tourism)
#Gini coefficient for Total expenditure with sample weights:
X= Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Gini(X,W)
```

Hoover

Hoover index

Description

Computes Hoover inequality measure of a given variable taking into account weights.

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Usage

```
Hoover(X, W = rep(1, length(X)))
```

Arguments

X is a data vector

W is a vector of weights

Details

Let x_i be the income of the i-th person and \overline{x} be the mean income. Then the Hoover index H is:

$$H = \frac{1}{2} \frac{\sum_{i} |x_i - \overline{x}|}{\sum_{i} x_i}$$

Value

The value of Hoover coefficient.

References

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Hoover E. M. Jr.: (1936) The Measurement of Industrial Localization, The Review of Economics and Statistics, 18

Hoover E. M. Jr.: (1984) An Introduction to Regional Economics, ISBN 0-07-554440-7

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Hoover(X)
Hoover(X,W)

data(Tourism)
#Hoover index for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Hoover(X,W)
```

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ineq.weighted	Weighted inequality measures

Description

Calculates weighted mean and sum of X, and a set of inequality measures.

Usage

```
ineq.weighted(
   X,
   W = rep(1, length(X)),
   Atkinson.e = 1,
   Jenkins.alfa = 0.8,
   Entropy.e = 0.5,
   Kolm.p = 1,
   Kolm.scale = "Standardization",
   Leti.norm = T
)
```

Arguments

Χ	is a data vector
W	is a vector of weights
Atkinson.e	is a parameter for Atkinson coefficient
Jenkins.alfa	is a parameter for Jenkins coefficient
Entropy.e	is a generalized entropy index parameter
Kolm.p	is a parameter for Kolm index
Kolm.scale	method of data standardization before computing
Leti.norm	(logical). If TRUE (default) then Leti index is divided by a maximum possible value

Details

At this moment ineq.weighted calculates all inequality measures available in wINEQ packages. In future, selection of inequality measures will be available

Value

The data frame with weighted mean and sum of X, and all inequality measures.

ineq.weighted.boot

Examples

```
library(dplyr)
# Compare weighted and unweighted result.
X=1:10
W=1:10
ineq.weighted(X)
ineq.weighted(X,W)

data(Tourism)
# Results for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
ineq.weighted(X)
ineq.weighted(X,W)
```

ineq.weighted.boot

Weighted inequality measures with bootstrap

Description

For weighted mean and weighted total of X as well as for each inequality measure, returns outputs from ineq.weighted and bootstrap outcomes: expected value, bias (in %), standard deviation, coefficient of variation, lower and upper bound of confidence interval.

Usage

```
ineq.weighted.boot(
 Χ,
 W = rep(1, length(X)),
 B = 100,
 Atkinson.e = 1,
  Jenkins.alfa = 0.8,
 Entropy.e = 0.5,
 Kolm.p = 1,
 Kolm.scale = "Standardization",
 Leti.norm = T,
  keepSamples = FALSE,
  keepMeasures = FALSE,
  conf.alpha = 0.05,
  calib.boot = FALSE,
 Xs = rep(1, length(X)),
  total = sum(W),
 calib.method = "truncated",
 bounds = c(low = 0, upp = 10)
)
```

ineq.weighted.boot 11

Arguments

X is a data vector

W is a vector of weights

B is a number of bootstrap samples.

Atkinson.e is a parameter for Atkinson coefficient

Jenkins.alfa is a parameter for Jenkins coefficient

Entropy.e is a generalized entropy index parameter

Kolm.p is a parameter for Kolm index

Kolm. scale method of data standardization before computing

Leti.norm (logical). If TRUE (default) then Leti index is divided by a maximum possible

value

keepSamples if TRUE, it returns bootstrap samples of data (Xb) and weights (Wb)

keepMeasures if TRUE, it returns values of all inequality measures for each bootstrap sample

conf.alpha significance level for confidence interval

calib.boot if FALSE, then naive bootstrap is performed, calibrated bootstrap elsewhere

Xs matrix of calibration variables. By default it is a vector of 1's, applied if calib.boot

is TRUE

total vector of population totals. By default it is a sum of weights, applied if calib.boot

is TRUE

calib.method weights' calibration method for function calib (sampling)

bounds vector of bounds for the g-weights used in the truncated and logit methods; 'low'

is the smallest value and 'upp' is the largest value

Details

At this moment ineq.weighted.boot calculates all inequality measures available in wINEQ packages. In future, selection of inequality measures will be available. By default, naive bootstrap is performed, that is no weights calibration is conducted. You can choose calibrated bootstrap to calibrate weights with respect to proided variables (Xs) and totals (total). Confidence interval is simply derived with quantile of order α and $1-\alpha$ where α is a significance level for confidence interval.

Value

By default this functions returns a data frame from ineq.weighted for weighted mean and weighted total of X as well as for each inequality measure extended with bootstrap results: expected value, bias (in %), standard deviation, coefficient of variation, lower and upper bound of confidence interval. If keepSamples=TRUE or keepMeasures==TRUE then the output becomes a list. If keepSamples=TRUE, the functions returns Xb and Wb, which are the samples of vector data and the samples of weights, respectively. If keepMeasures==TRUE, the functions returns Mb, which is a set of inequality measures from bootstrapping.

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Examples

```
library(sampling);library(dplyr)
# Compare weighted and unweighted result.
X=1:10
W=1:10
ineq.weighted.boot(X)
ineq.weighted.boot(X,W)

data(Tourism)
# Bootstrap results for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
ineq.weighted.boot(X[1:30],W[1:30],B=50)
```

Jenkins

Jenkins, Cowell and Flachaire

Description

Computes Jenkins as well as Cowell and Flachaire inequality measure of a given variable taking into account weights.

Usage

```
Jenkins(X, W = rep(1, length(X)), alfa = 0.8)
```

Arguments

X is a data vector

W is a vector of weights

alfa is the Jenkins coefficient parameter

Details

Jenkins coefficient is given by:

$$J = 1 - \sum_{j=0}^{K-1} (p_{j+1} - p_j)(GL_j + GL_{j+1})$$

where GL is Generalized Lorenz curve.

Cowell and Flachaire coefficient with alpha parameter is given by:

$$I(\alpha) = \frac{1}{\alpha(\alpha - 1)} \left(\frac{1}{N} \sum_{i=1}^{N} s_i^{\alpha} - 1\right)$$

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for $\alpha \in (0,1)$, and

$$I(0) = -\frac{1}{N} \sum_{i=1}^{N} log(s_i)$$

for $\alpha = 0$.

Value

The value of Jenkins, Cowell and Flachaire coefficient.

References

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Jenkins S. P. and P. J. Lambert: (1997) Three 'I's of Poverty Curves, with an Analysis of U.K. Poverty Trends

Cowell F. A.: (2000) Measurement of Inequality, Handbook of Income Distribution

Cowell F. A., Flachaire E.: (2017) Inequality with Ordinal Data

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Jenkins(X)
Jenkins(X,W)

data(Tourism)
#Jenkins, Cowell and Flachaire coefficients for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Jenkins(X,W)
```

Kolm

Kolm index

Description

Computes Kolm inequality measure of a given variable taking into account weights.

Usage

```
Kolm(X, W = rep(1, length(X)), parameter = 1, na.rm = TRUE, scale = "None")
```

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Arguments

X is a data vector
W is a vector of weights
parameter is a Kolm parameter

na.rm logical, should missing values (NAs) be removed prior to computations? If set

to FALSE the computations yield NA

scale method of data scaling (None, Normalization, Unitarization, Standardization)

Details

Kolm index with parameter α is defined as:

$$K = \frac{1}{\alpha} (\log(\sum_{i=1}^{n} \exp(\alpha(w_i - \mu)) - \log(n)))$$

Kolm index is scale-dependent. Basic normalization methods can be applied before final computation.

Value

The value of Kolm coefficient.

References

Kolm S. C.: (1976) Unequal inequalities I and II

Kolm S. C.: (1996) Intermediate measures of inequality

Chakravarty S. R.: (2009) Inequality, Polarization and Poverty e-ISBN 978-0-387-79253-8

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Kolm(X)
Kolm(X,W)

# Compare raw and standardized data.
Kolm(X,W)
Kolm(X,W, scale ="Standardization")

# Changing units has an impact on the final result
Kolm(X)
Kolm(10*X)

# Changing units has no impact on the final result with standardized data
Kolm(X,scale ="Standardization")
Kolm(10*X,scale ="Standardization")
```

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Leti index

Description

Computes Leti inequality measure of a given variable taking into account weights.

Usage

```
Leti(X, W = rep(1, length(X)), norm = T)
```

Arguments

X is a data vector (ordered factor or numeric)

W is a vector of weights

norm (logical). If TRUE (default) then Leti index is divided by a maximum possible

value which is (k-1)/2 where k in a number of categories.

Details

Let n_i be the number of individuals in category i and let N be the total sample size. Cumulative distribution is given by $F_i = \frac{\sum_{j=1}^i n_j}{N}$. Leti index is defined as:

$$L = 2\sum_{i=1}^{k-1} F_i(1 - F_i)$$

Value

The value of Leti coefficient.

References

Leti G.: (1983). Statistica descrittiva, il Mulino, Bologna. ISBN: 8-8150-0278-2

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Leti(X)
Leti(X,W)

data(Tourism)
#Leti index for Total expenditure with sample weights:
X= Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Leti(X,W)
```

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Palma

Palma index

Description

Palma proportion - originally the ratio of the total income of the 10% richest people to the 40% poorest people.

Usage

```
Palma(X, W = rep(1, length(X)))
```

Arguments

X is a data vector

W is a vector of weights

Details

Palma index is calculated by the following formula:

$$Palma = \frac{H}{L}$$

where H is share of 10% of the highest values, L is share of 40% of the lowest values.

Value

The value of Palma coefficient.

References

Cobham A., Sumner A.: (2013) Putting the Gini Back in the Bottle? 'The Palma' as a Policy-Relevant Measure of Inequality

Palma J. G.: (2011) Homogeneous middles vs. heterogeneous tails, and the end of the 'Inverted-U': the share of the rich is what it's all about

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Palma(X)
Palma(X,W)

data(Tourism)
#Palma index for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
```

Prop20_20

Palma(X,W)

Prop20_20

Proportion 20:20

Description

20:20 ratio - originally the ratio of the total income of the 20% richest people to the 20% poorest people.

Usage

```
Prop20_20(X, W = rep(1, length(X)))
```

Arguments

X is a data vector

W is a vector of weights

Details

20:20 ratio is calculated as follows:

$$Prop = \frac{H}{L}$$

where H is share of 20% of the highest values, L is share of 20% of the lowest values.

Value

The value of 20:20 ratio coefficient.

References

Panel Data Econometrics: Theoretical Contributions And Empirical Applications edited by Badi Hani Baltag

Notes on Statistical Sources and Methods - The Equality Trust.

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Prop20_20(X)
Prop20_20(X,W)
data(Tourism)
```

18 RicciSchutz

```
#Prop20_20 proportion for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Prop20_20(X,W)
```

RicciSchutz

Ricci and Schutz index

Description

Computes Ricci and Schutz inequality measure of a given variable taking into account weights.

Usage

```
RicciSchutz(X, W = rep(1, length(X)), na.rm = TRUE)
```

Arguments

X is a data vector

W is a vector of weights

na.rm logical, should missing values (NAs) be removed prior to computations? If set

to FALSE the computations yield NA

Details

In the case of an empirical distribution with n elements where y_i denotes the wealth of household i and \overline{y} the sample average, the Ricci and Schutz coefficient can be expressed as:

$$RS = \frac{1}{2n} \sum_{i=1}^{n} \frac{|y_i - \overline{y}|}{\overline{y}}$$

Value

The value of Ricci and Schutz coefficient.

References

Coulter P. B.: (1989) Measuring Inequality ISBN 0-8133-7726-9

Eliazar I. I., Sokolov I. M.: (2010) Measuring statistical heterogeneity: The Pietra index

Costa R. N., Pérez-Duarte S.: (2019) Not all inequality measures were created equal, Statistics Paper Series, No 31

Theil_L

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
RicciSchutz(X)
RicciSchutz(X,W)

data(Tourism)
#Ricci and Schutz index for Total expenditure with sample weights:
X= Tourism$`Total expenditure`
W=Tourism$`Sample weight`
RicciSchutz(X,W)
```

Theil_L

Theil L

Description

Computes Theil_L inequality measure of a given variable taking into account weights.

Usage

Arguments

X is a data vector

W is a vector of weights

Details

Theil L index is defined as:

$$T_L = T_{\alpha=0} = \frac{1}{N} \sum_{i=1}^{N} \ln\left(\frac{\mu}{x_i}\right)$$

where

$$\mu = \frac{1}{N} \sum_{i=1}^{N} x_i$$

Value

The value of Theil_L coefficient.

20 Theil_T

References

Serebrenik A., van den Brand M.: Theil index for aggregation of software metrics values. 26th IEEE International Conference on Software Maintenance. IEEE Computer Society.

Conceição P., Ferreira P.: (2000) The Young Person's Guide to the Theil Index: Suggesting Intuitive Interpretations and Exploring Analytical Applications

OECD: (2020) Regions and Cities at a Glance 2020, Chapter: Indexes and estimation techniques

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Theil_L(X)
Theil_L(X,W)

data(Tourism)
# Theil L coefficient for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Theil_L(X,W)
```

Theil_T

Theil T

Description

Computes Theil_T inequality measure of a given variable taking into account weights.

Usage

```
Theil_T(X, W = rep(1, length(X)))
```

Arguments

X is a data vector
W is a vector of weights

Details

Theil T index is defined as:

$$T_T = T_{\alpha=1} = \frac{1}{N} \sum_{i=1}^{N} \frac{x_i}{\mu} ln(\frac{x_i}{\mu})$$

where

$$\mu = \frac{1}{N} \sum_{i=1}^{N} x_i$$

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Value

The value of Theil_T coefficient.

References

Serebrenik A., van den Brand M.: Theil index for aggregation of software metrics values. 26th IEEE International Conference on Software Maintenance. IEEE Computer Society.

Conceição P., Ferreira P.: (2000) The Young Person's Guide to the Theil Index: Suggesting Intuitive Interpretations and Exploring Analytical Applications

OECD: (2020) Regions and Cities at a Glance 2020, Chapter: Indexes and estimation techniques

Examples

```
# Compare weighted and unweighted result.
X=1:10
W=1:10
Theil_T(X)
Theil_T(X,W)

data(Tourism)
# Theil T coefficient for Total expenditure with sample weights:
X=Tourism$`Total expenditure`
W=Tourism$`Sample weight`
Theil_T(X,W)
```

Tourism

Sample survey on trips

Description

Data from sample survey on trips conducted in Polish households.

Usage

```
data(Tourism)
```

Format

A data frame with 384 observations of 14 variables

- Year
- Group of countries
- · Purpose of trip
- Accommodation type

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- · Total expenditure
- Expenditure for organiser
- Private expenditure
- · Expenditure on accommodation
- Expenditure on restaurants & café
- Expenditure on transport
- Expenditure on commodities
- Number of trip's participants
- Nights spent
- · Sample weight

Details

Answers were modified due to disclosure control. Data presents only part of full database.

Well_being

Sample survey on quality of life

Description

Data from sample survey on quality of life conducted on Polish-Ukrainian border in 2015 and 2019.

Usage

data(Well_being)

Format

A data frame with 1197 observations of 27 variables

- · Area. Rural and urban
- · Gender. Male and female
- Year. Year of survey (2015 and 2019)
- V1. I have good opportunities to use my talents and skills at work
- V2. I am treated with respect by others at work
- V3. I have adequate opportunities for vacations or leisure activities
- V4. The quality of local services where (I) live is good
- V5. There is very little pollution from cars or other sources where I spend most of my time
- V6. There are parks and green areas near my residence
- V7. I have the freedom to plan my life the way I want to
- V8. I feel safe walking around my neighborhood during the day
- V9. Overall, to what extent are you currently satisfied with your life

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- V10. Overall, to what extent do you feel that the things you do in life are worthwhile
- V11. How do you rate your health
- V12. How do you rate your work
- V13. How do you rate your sleep
- V14. How do you rate your leisure time
- V15. How do you rate your family life
- V16. How do you rate your community and public affairs life
- V17. How do you rate your personal plans
- V18. How do you rate your housing conditions
- V19. How do you rate your personal income
- V20. How do you rate your personal prospects
- V21. Does being part of the local community make you feel good about yourself
- V22. Do you have a say in what the local community is like
- V23. Is your neighborhood a good place for you to live
- Weight. Sample weight for each household

Details

Questions are on Likert scale: 1 - the worst assessment, 5 - the best assessment. Only 23 question were selected out of over 100 questions. Answers were modified due to disclosure control.

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