

Package ‘ddp’

July 22, 2025

Type Package

Title Desirable Dietary Pattern

Version 0.0.3

Date 2021-05-08

Description The desirable Dietary Pattern (DDP)/ PPH score measures the variety of food consumption. The (weighted) score is calculated based on the type of food. This package is intended to calculate the DDP/ PPH score that is faster than traditional method via a manual calculation by BKP (2017) <<http://bkp.pertanian.go.id/storage/app/uploads/public/5bf/ca9/06b/5bfca906bc654274163456.pdf>> and is simpler than the nutrition survey <<http://www.nutrisurvey.de>>. The database to create weights and baseline values is the Indonesia national survey in 2017.

Depends R (>= 2.10)

License GPL-3

LazyData TRUE

RoxygenNote 7.1.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2021-05-08 15:30:02 UTC

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kalori

*Calory calculation***Description**

This function calculates the total calory of each responden.

Usage

```
kalori(data, output = "all")
```

Arguments

data	A data set of ($n \times 218$) (see Details).
output	A desirable output, the default is "all" (see Details).

Details

The data set is an $n \times 218$ data frame. The first column is the name of the respondent. The rest columns are types of food. The type of food can be listed as in the data simulation (see in the data example of `simulasi` or `vignette("ddp")`).

The output argument has "all" as the default, meaning that all of the calories are yielded. They are energy, protein, fat, and carbohydrate. Single calory can be produced by writing the output argument with "protein" for the calory of protein, for example. The possible inputs for output argument are "all", "energi", "protein", "lemak" for fat, and "karbohidrat".

Value

Function returns a matrix of $n \times 4$ for "all" and $n \times 1$ for other "output" arguments.

Author(s)

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References

BKP, Kementan. 2017. Aplikasi Harmonisasi Analisis PPH Data Susenas 2017. Badan Ketahanan Pangan Kementrian Pertanian.

Examples

```
#data simulation of 10 person
set.seed(2020)
n <- 10
matsim <- matrix(0, n, 218)
datsim <- as.data.frame(matsim)
datsim$V1 <- LETTERS[1:n]
```

```
#calory for boiled rice
dat$V2 <- rnorm(n, 200, 50)
#calory for boiled egg
dat$V73 <- rnorm(n, 60, 5)
#calory for fresh milk
dat$V79 <- rnorm(n, 100, 10)
#calory for tomato
dat$V93 <- rnorm(n, 19, 2)
#caloty for pineapple
dat$V134 <- rnorm(n, 20, 2)

kalori(dat)
```

simulasi

Simulation data

Description

A dataset containing 218 columns and 5 rows. The first column is the name of the respondents, while the rest is the type of food. The type of food is explained in Indonesian. The simulation data set is a family data set with 5 members. They eat rice (nasi) in a particular weight (in gram), cat fish, spinach (bayam), and banana (pisang lainnya). Three family members drink milk powder. Thus, the data have values in column 1, 28, 81, 85, and 135 only.

Usage

```
simulasi
```

Format

A data frame with 5 rows and 218 columns:

Nama The name of respondents

X1 Beras:beras lokal, kualitas unggul, impor

X2 Beras ketan

X3 Jagung basah dengan kulit

X4 Jagung pipilan/beras jagung

X5 Tepung beras

X6 Tepung jagung:maizena

X7 Tepung terigu

X8 Padi-padian lainnya

X9 Ketela pohon/singkong

X10 Ketela rambat/ubi jalar

- X11** Sagu:bukan dari ketela pohon
- X12** Talas/keladi
- X13** Kentang
- X14** Gaplek
- X15** Tepung Gaplek: tiwul
- X16** Tepung ketela pohon: tapioka/kanji
- X17** Umbi-umbian lainnya
- X18** Ekor kuning segar
- X19** Tongkol/tuna/cakalang segar
- X20** Tenggiri segar
- X21** Selar segar
- X22** Kembung segar
- X23** Teri segar
- X24** Bandeng segar
- X25** Gabus segar
- X26** Mujair/Nila segar
- X27** Mas segar
- X28** lele segar
- X29** Kakap segar
- X30** Baronang segar
- X31** Patin segar
- X32** Bawalsegar
- X33** Gurame segar
- X34** Ikan segar/basah lainnya
- X35** Udang segar
- X36** Cumi-cumi/sotong segar
- X37** Ketam/kepiting/rajungan segar
- X38** Kerang/siput segar
- X39** Udang dan hewan air lainnya yang segar lainnya
- X40** Kembung diawetkan/peda
- X41** Tenggiri diawetkan
- X42** Tongkol/tuna/cakalang diawetkan
- X43** Teri diawetkan
- X44** Selar diawetkan
- X45** Sepat diawetkan
- X46** Bandeng diawetkan
- X47** Gabus diawetkan

- X48** Ikan dalam kaleng
- X49** Ikan diawetkan lainnya
- X50** Udang: ebi, rebon diawetkan
- X51** Cumi-cumi/sotong diawetkan
- X52** Udang dan hewan air lainnya yang diawetkan
- X53** Daging sapi segar
- X54** Daging kerbau segar
- X55** Daging kambing segar
- X56** Daging babi segar
- X57** Daging ayam ras segar
- X58** Daging ayam kampung segar
- X59** Daging bebek/itik segar
- X60** Daging unggas segar lainnya
- X61** Daging segar lainnya
- X62** Dendeng
- X63** Abon: sapi, ayam, rusa, dsb
- X64** Daging dalam kaleng: kornet, dsb
- X65** Sosis, nugget, daging asap, bakso diawetkan
- X66** Daging diawetkan lainnya
- X67** Hati
- X68** Jeroan: usus, paru, limpa, babat, ampela, dsb
- X69** Tetelan
- X70** Tulang
- X71** Kategori daging lainnya selain dari 53 s.d 70
- X72** Telur ayam ras
- X73** Telur ayam kampung
- X74** Telur itik/manila
- X75** Telur puyuh
- X76** Telur lainnya
- X77** Telur asin
- X78** Susu murni
- X79** Susu cair pabrik
- X80** Susu kental manis
- X81** Susu bubuk
- X82** Susu bubuk bayi
- X83** Keju
- X84** Hasil lain dari susu

- X85** Bayam
- X86** Kangkung
- X87** Kol/kubis
- X88** Sawi putih/ petsai
- X89** Sawi hijau
- X90** Buncis
- X91** Kacang panjang
- X92** Tomat sayur
- X93** Wortel
- X94** Mentimun
- X95** Daun ketela pohon/ daun singkong
- X96** Terung
- X97** Tauge
- X98** Labu
- X99** Jagung muda
- X100** Bahan sayur sop/ cap cay
- X101** Bahan sayur asem/ lodeh
- X102** Nangka muda
- X103** Pepaya muda
- X104** Jamur
- X105** Petai
- X106** Jengkol
- X107** Bawang merah
- X108** Bawang putih
- X109** Cabe merah
- X110** Cabe hijau
- X111** Cabe rawit
- X112** Sayur dalam kaleng
- X113** Sayur-sayuran lainnya
- X114** Kacang tanah tanpa kulit
- X115** Kacang tanah dengan kulit
- X116** Kacang kedelai
- X117** Kacang hijau
- X118** Kacang mede
- X119** Kacang lainnya
- X120** Tahu
- X121** Tempe

- X122** Tauco
- X123** Oncom
- X124** Hasil lain dari kacang-kacangan
- X125** Jeruk
- X126** Mangga
- X127** Apel
- X128** Alpokat
- X129** Rambutan
- X130** Duku
- X131** Durian
- X132** Salak
- X133** Nanas
- X134** Pisang ambon
- X135** Pisang lainnya
- X136** Pepaya
- X137** Jambu
- X138** Sawo
- X139** Belimbing
- X140** Kedondong
- X141** Semangka
- X142** Melon
- X143** Nangka
- X144** Tomat buah
- X145** Buah dalam kaleng
- X146** Buah-buahan lainnya
- X147** Minyak kelapa
- X148** Minyak jagung
- X149** Minyak goreng
- X150** Kelapa
- X151** Margin
- X152** Minyak dan kelapa lainnya
- X153** Gula pasir
- X154** Gula merah/ gula cair
- X155** Teh bubuk
- X156** Teh celup: sachet
- X157** Kopi: bubuk, biji
- X158** Kopi instan: sachet

- X159** Coklat instan
- X160** Coklat bubuk
- X161** Sirup
- X162** Bahan minuman lainnya
- X163** Garam
- X164** Kemiri
- X165** Ketumbar/ jinten
- X166** Merica/ lada
- X167** Asam
- X168** Terasi/ petis
- X169** Kecap
- X170** Penyedap masakan/ vetsin
- X171** Sambal jadi
- X172** Saos tomat
- X173** Bumbu masak jadi/ kemasan
- X174** Bumbu dapur lainnya: pala, jahe, kunyit, dsb
- X175** Mie instan
- X176** Mie basah
- X177** Bihun
- X178** Makaroni/ mie kering
- X179** Kerupuk
- X180** Emping
- X181** Bahan agar-agar
- X182** Bubur bayi kemasan
- X183** Konsumsi lainnya selain nomor 175 s.d 182
- X184** Roti tawar
- X185** Roti manis/ lainnya
- X186** Kue kering/ biskuit
- X187** Kue basah
- X188** Makanan gorengan
- X189** Bubur kacang hijau
- X190** Gado-gado/ ketoprak/ pecel
- X191** Nasi campur/ rames
- X192** Nasi goreng
- X193** Nasi putih
- X194** Lontong/ ketupat sayur
- X195** Soto/ gulai/ sop/ rawon/ cincang

X196 Sayur matang
X197 Sate/ tongseng
X198 Mie bakso/ rebus/ goreng
X199 Mie instan makanan jadi
X200 Makanan ringan anak-anak
X201 Ikan matang
X202 Ayam/ daging matang
X203 Daging olahan matang
X204 Bubur ayam
X205 Siomay/ batagor
X206 Makanan jadi lainnya
X207 Air kemasan
X208 Air kemasan galon
X209 Air teh kemasan
X210 Saribuah kemasan
X211 Minuman ringan CO2: soda
X212 Minuman kesehatan/ energi
X213 Minuman jadi: kopi, susu, teh, susu coklat, dsb
X214 Es krim
X215 Es lainnya
X216 Bir
X217 Minuman beralkohol lainnya

 skorpph

Desirable dietary pattern calculation

Description

This function calculates the desirable dietary pattern (DDP).

Usage

```
skorpph(data, wilayah = "Indonesia", baseline = 2000)
```

Arguments

data	A data set of ($n \times 218$) (<i>see</i> Details).
wilayah	An origin of the responden residence. (<i>see</i> Details).
baseline	A baseline value of personal calory required.

Details

The data set is an $n \times 218$ data frame. The first column is the name of the respondent. `wilayah` argument has "Indonesia" as the default, meaning that the DPP are calculated based on the national (Indonesia) baseline. The other possible inputs for `wilayah` are "Aceh", "Sumut", "Sumbar", "Riau", "KepRiau", "Jambi", "Sumsel", "Babel", "Bengkulu", "Lampung", "Jakarta", "Jabar", "Banten", "Jateng", "DIY", "Jatim", "Bali", "NTB", "NTT", "Kalbar", "Kalteng", "Kalsel", "Kaltim", "Kalut", "Sulut", "Sulteng", "Sultra", "Sulsel", "Gorontalo", "Sulbar", "Maluku", "Malut", "Papua", "Papbar". For baseline argument, it is 2000 as the default value because the minimal calory required in Indonesia is 2000 calory.

Value

Function returns a vector with n length indicates the index/ indices of the DDP per peson.

Author(s)

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References

BKP, Kementan. 2017. Aplikasi Harmonisasi Analisis PPH Data Susenas 2017. Badan Ketahanan Pangan Kementrian Pertanian.

Examples

```
#data simulation of 10 person
set.seed(2020)
n <- 10
matsim <- matrix(0, n, 218)
datsim <- as.data.frame(matsim)
datsim$V1 <- LETTERS[1:n]

#calory for boiled rice
datsim$V2 <- rnorm(n, 200, 50)
#calory for boiled egg
datsim$V73 <- rnorm(n, 60, 5)
#calory for fresh milk
datsim$V79 <- rnorm(n, 100, 10)
#calory for tomato
datsim$V93 <- rnorm(n, 19, 2)
#caloty for pineapple
datsim$V134 <- rnorm(n, 20, 2)

skorp-ph(datsim)
```

valid	<i>Validity and Reliability check.</i>
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Description

This function calculates the item-rest correlation.

Usage

```
valid(data, alpha = 0.05, total = NULL)
```

Arguments

data	A data set/ matrix (<i>see Details</i>).
alpha	An alpha value (<i>see Details</i>).
total	A single numeric value of the index column (<i>see Details</i>).

Details

The data set is a data frame/ matrix $n \times k$. The row is the name of the respondent as many as n , while the column is the variables (k). The alpha value is set between 0.0001 and 0.20, the default is 0.05. If the total input is NULL, it means that the total score will be calculated first, the column index of the total score can be also stated otherwise. The index of the column is a numeric value with a length of one. It has to be between 1 and (k).

Value

Function returns a data frame with k row and four columns. the columns indicate the item-rest correlation, correlation threshold, p value, and validity and reliability conclusion.

Author(s)

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Examples

```
#data simulation of 10 person 5 variables
set.seed(1)
dat <- matrix(sample(1:7,10*5, replace = TRUE), 10,5)
valid(dat)
```

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