Package 'ddp'

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Type Package

Title Desirable Dietary Pattern

Version 0.0.2

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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 calcula-
tion by BKP (2017) <http://bkp.pertanian.go.id/storage/app/uploads/public/5bf/ca9/06b/5bfca906bc654274163456.pdf> an
pler 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

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

`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 x 218*) (*see* **Details**).
`output`	A desirable output, the default is "all" (*see* **Details**).

Details

The data set is an *n x 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 x 4* for "all" and *n x 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
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)

kalori(datsim)
```

`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 expalined 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, nuget, 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 C02: soda

X212 Minuman kesahatan/ 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 x 218*) (*see* **Details**).
`wilayah`	An origin of the responden residence. (*see* **Details**).
`baseline`	A baseline value of personal calory required.

Details

The data set is an *n x 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

```
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#caloty for pineapple
datsim$V134 <- rnorm(n, 20, 2)

skorpph(datsim)
```

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