

# Package ‘DCEmgmt’

October 12, 2022

**Title** DCE Data Reshaping and Processing

**Version** 0.0.1

**Description** Prepare the results of a DCE to be analysed through choice models. 'DCEmgmt' reshapes DCE data from wide to long format considering the special characteristics of a DCE. 'DCEmgmt' includes the function 'DCEestm' which estimates choice models once the database has been reshaped with 'DCEmgmt'.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.2

**Depends** R (>= 3.5.0)

**Suggests** knitr, rmarkdown, stats

**VignetteBuilder** knitr

**Imports** mlogit (>= 1.0-2), survival

**NeedsCompilation** no

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**Repository** CRAN

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data	<i>Survey data from the DCE in Consumers' preferences and WTP for personalised nutrition (<a href="https://doi.org/10.1007/s40258-021-00647-3">https://doi.org/10.1007/s40258-021-00647-3</a>)</i>
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**Description**

Survey data from the DCE in Consumers' preferences and WTP for personalised nutrition (<https://doi.org/10.1007/s40258-021-00647-3>)

**Usage**

```
data(survey)
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 242 rows and 21 columns.

**Source**

doi: [10.1007/s40258021006473](https://doi.org/10.1007/s40258021006473)DOI

**References**

Perez-Troncoso et al. (2021) Applied Health Economics and Health Policy 19, 757-767 ([PubMed](#))

**Examples**

```
data <- data(survey)
```

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data.c	<i>Coded dataset</i>
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**Description**

Coded dataset

**Usage**

```
data(data.c)
```

**Format**

An object of class `data.frame` with 3744 rows and 20 columns.

**Source**doi: [10.1007/s40258021006473](https://doi.org/10.1007/s40258021006473)**References**Perez-Troncoso et al. (2021) Applied Health Economics and Health Policy 19, 757-767 ([PubMed](#))**Examples**

```
data. <- data(data.c)
```

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DCEmgmt

*DCEmgmt function*


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**Description**

Prepare the results of a DCE to be analysed through choice models.

**Usage**

```
DCEmgmt(data, droprow, keepvar, create.id, blocks, sets, alts, options, design)
```

**Arguments**

data	Data.frame with the survey data in wide data format. See 'data(survey)'
droprow	Rows to be deleted. Specify a single row (droprow = x) or more than one (drop-down = x:y).
keepvar	Select the case-specific variables to be kept. For example: keepvar = c("x", "y").
create.id	Create a variable called "id" with a unique identifier per respondent. create.id = TRUE
blocks	Specifies the variables designating each choice set block. Each choice set variable must be named as a letter (for instance Q) followed by a number (starting by 1). Thus, the first block of choice sets can be named Q1, Q2, Q3, Q4 whereas the second can be called F5, F6, F7, F8. In this case, block = c("Q", "F"). If there is only one block, block = c("Q").
sets	Specify the number of choice sets per block. If there is only one block, specify the total number of choice sets. For instance, sets = 8.
alts	Specify the number of alternatives per choice set. For example, alts = 3.
options	Vector indicating the string used to designate the choice. For example, option = c("Option A", "Option B", "Option C"). See examples.
design	Data frame with the design matrix in dummy or effects coding. PONER EJEMPLO

**Examples**

```

data(survey)
data(design)

data.c<-DCEmgmt(data = data,
  droprow = 1:5,
  keepvar = c("age", "height"),
  create.id = TRUE,
  blocks = c("B1_", "B2_"),
  sets = 8,
  alts = 2,
  options = c("Prefiero el servicio A", "Prefiero el servicio B"),
  design = design)

#The data frame data.c contains the coded DCE data

```

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design	<i>Design matrix from the DCE in Consumers' preferences and WTP for personalised nutrition (<a href="https://doi.org/10.1007/s40258-021-00647-3">https://doi.org/10.1007/s40258-021-00647-3</a>)</i>
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**Description**

Design matrix from the DCE in Consumers' preferences and WTP for personalised nutrition (<https://doi.org/10.1007/s40258-021-00647-3>)

**Usage**

```
data(design)
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 32 rows and 14 columns.

**Source**

doi: [10.1007/s40258021006473](https://doi.org/10.1007/s40258021006473)

**References**

Perez-Troncoso et al. (2021) Applied Health Economics and Health Policy 19, 757-767 ([PubMed](#))

**Examples**

```
design <- data(design)
```

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