

The AIS Package

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Title Tools to look at the data (“Ad Inidicia Spectata”)

Version 1.0

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Description This provides tools to inspect data

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Depends R (>= 2.1.0)

Suggests R2HTML

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`DWIMxtabs`*DWIM cross tabs, with pretty printing*

Description

This calculate cross tabs with marginals and proportions.

Usage

```
DWIMxtabs(formula, data=parent.env(), var.labels=NULL, ...)
```

Arguments

<code>data</code>	data to be analyzed
<code>formula</code>	crosstab formula suitable for <code>xtabs</code>
<code>var.labels</code>	optional substitute varilable lables, names will be used if not supplied
<code>...</code>	arguments to pass to <code>xtabs</code>

Value

Returns a crosstabulation, essentially a combination of `xtabs` with proportions and marginals. DWIMxtabs will automatcally recode continuous variables to categories prior to crosstabulation

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See Also

[xtabs](#),

Examples

```
DWIMxtabs(Freq~., as.data.frame(Titanic))
```

HTML.DWIMxtabs *pretty print DWIMxtabs*

Description

This is used with R2HTML to pretty-print DWIMxtabs

Usage

```
HTML.DWIMxtabs(x, ...,
               wantPercentages=T, wantTotals=T, wantStats=T, nameLength=15)
```

Arguments

x object to converted to HTML
... additional parameters passed to HTML
wantPercentages

wantTotals
wantStats
nameLength
maximum length of variable labels

Value

None

Author(s)

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See Also

[HTML](#), [DWIMxtabs](#)

Examples

```
vxt=DWIMxtabs(Freq~,as.data.frame(Titanic))
## Not run:
# HTML methods called implicitly
HTML(vxt,file="")
## End(Not run)
```

look	<i>Take a first look at a dataset</i>
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Description

This takes a first look at the multivariate structure of a dataset

Usage

```
look(x, forceType=TRUE)
```

Arguments

x	a data frame
forceType	whether to force non-numeric types for better exploration

Details

This is for initial data exploration. Currently it uses PCA, parallel coordinates, and a heatmap of the correlation matrix.

Value

a firstlook object suitable for printing or plotting

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Examples

```
print(fl<-look(swiss))
plot(fl)
```

print.DWIMxtabs	<i>print DWIMxtabs</i>
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Description

This is used to pretty-print DWIMxtabs

Usage

```
print.DWIMxtabs(x, ...,
  wantPercentages=T, wantTotals=T, wantStats=T, nameLength=15 )
```

Arguments

`x` object to printed
`...` additional parameters passed to `print.default`
`wantPercentages`

`wantTotals`
`wantStats`
`nameLength`
maximum length of variable labels

Value

None

Author(s)

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See Also

[DWIMxtabs](#)

Examples

```
# print methods called implicitly
DWIMxtabs(Freq~, as.data.frame(Titanic))
```

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