

# Package ‘AIS’

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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

**License** GPL AFFERO 3.0 (with citation)

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

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### 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

### Author(s)

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### See Also

[xtabs](#),

### Examples

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

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HTML.DWIMxtabs      *pretty print DWIMxtabs*

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## 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	include percentages in the output
wantTotals	include marginals in the output
wantStats	include chi-squared statistics in the output
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)
```

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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

**Author(s)**

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**Examples**

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

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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

<code>x</code>	object to printed
<code>...</code>	additional parameters passed to <code>print.default</code>
<code>wantPercentages</code>	include percentages in the output
<code>wantTotals</code>	include marginals in the output
<code>wantStats</code>	include chi-squared statistics in the output
<code>nameLength</code>	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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