

# Package ‘MVA’

January 29, 2025

**Title** An Introduction to Applied Multivariate Analysis with R

**Date** 2025-01-29

**Version** 1.0-9

**Description** Functions, data sets, analyses and examples from the book  
‘An Introduction to Applied Multivariate Analysis with R’  
(Brian S. Everitt and Torsten Hothorn, Springer, 2011).

**Depends** HSAUR2

**Suggests** mvtnorm, mclust, lattice, flexclust, nlme, RLRsim, multcomp,  
ape, MASS, sem, KernSmooth, scatterplot3d, ellipse

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bvbox *Bivariate Boxplot*

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**Description**

Boxplots in two dimensions

**Usage**

```
bvbox(a, d = 7, mtitle = "Bivariate Boxplot", method = "robust",  
      xlab = "X", ylab = "Y", add = FALSE, ...)
```

**Arguments**

a	a matrix
d	dimension
mtitle	title
method	character
xlab	x axis label
ylab	y axis label
add	add to existing plot?
...	additional plot arguments

**Details**

See Chapter 2: Visualization.

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chplot *Chi-squared Plot*

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**Description**

Chi-squared plot for independence

**Usage**

```
chplot(x, y, ...)
```

**Arguments**

x	a numeric vector
y	a numeric vector
...	additional plot arguments

**Details**

See Chapter 2: Visualization.

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stalac

*Stalactite plot*

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**Description**

The stalactite plot, specifically designed for the detection and identification of multivariate outliers.

**Usage**

stalac(x)

**Arguments**

x                    numeric vector

**Details**

See Chapter 2: Visualization.

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