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| na.fail {stats} | R Documentation |

**Handle Missing Values in Objects**

**Description**

These generic functions are useful for dealing with [NA](http://127.0.0.1:14695/library/stats/help/NA)s in e.g., data frames. na.fail returns the object if it does not contain any missing values, and signals an error otherwise. na.omit returns the object with incomplete cases removed. na.pass returns the object unchanged.

**Usage**

na.fail(object, ...)

na.omit(object, ...)

na.exclude(object, ...)

na.pass(object, ...)

**Arguments**

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| object | an **R** object, typically a data frame |
| ... | further arguments special methods could require. |

**Details**

At present these will handle vectors, matrices and data frames comprising vectors and matrices (only).

If na.omit removes cases, the row numbers of the cases form the "na.action" attribute of the result, of class "omit".

na.exclude differs from na.omit only in the class of the "na.action" attribute of the result, which is "exclude". This gives different behaviour in functions making use of [naresid](http://127.0.0.1:14695/library/stats/help/naresid) and [napredict](http://127.0.0.1:14695/library/stats/help/napredict): when na.exclude is used the residuals and predictions are padded to the correct length by inserting NAs for cases omitted by na.exclude.

**References**

Chambers, J. M. and Hastie, T. J. (1992) *Statistical Models in S.* Wadsworth & Brooks/Cole.

**See Also**

[na.action](http://127.0.0.1:14695/library/stats/help/na.action); [options](http://127.0.0.1:14695/library/stats/help/options) with argument na.action for setting NA actions; and [lm](http://127.0.0.1:14695/library/stats/help/lm) and [glm](http://127.0.0.1:14695/library/stats/help/glm) for functions using these. [na.contiguous](http://127.0.0.1:14695/library/stats/help/na.contiguous) as alternative for time series.

**Examples**

DF <- data.frame(x = c(1, 2, 3), y = c(0, 10, NA))

na.omit(DF)

m <- as.matrix(DF)

na.omit(m)

stopifnot(all(na.omit(1:3) == 1:3)) # does not affect objects with no NA's

try(na.fail(DF)) #> Error: missing values in ...

options("na.action")