mean {base}
R Documentation

Arithmetic Mean

Description

Generic function for the (trimmed) arithmetic mean.

Usage

```
mean(x, ...)

## Default S3 method:
mean(x, trim = 0, na.rm = FALSE, ...)
```

Arguments

x

An R object. Currently there are methods for numeric data frames, numeric vectors and dates. A complex vector is allowed for `trim = 0`, only.

trim

the fraction (0 to 0.5) of observations to be trimmed from each end of x before the mean is computed.

na.rm

a logical value indicating whether NA values should be stripped before the computation proceeds.

...

further arguments passed to or from other methods.

Value

For a data frame, a named vector with the appropriate method being applied column by column.
 If `trim` is zero (the default), the arithmetic mean of the values in x is computed.

If `trim` is non-zero, a symmetrically trimmed mean is computed with a fraction of `trim` observations deleted from each end before the mean is computed.

References

Becker, R. A., Chambers, J. M. and Wilks, A. R. (1988) *The New S Language*. Wadsworth & Brooks/Cole.

See Also

weighted.mean, **mean.POSIXct**

Examples
```
x <- c(0:10, 50)
xm <- mean(x)
c(xm, mean(x, trim = 0.10))

mean(USArrests, trim = 0.2)
```

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