Title

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Dates — Date and time functions

Contents Description Also see

Contents

[M-5] Manual entry	Function	Purpose
	Dates	
date( )	`clock()`	`%tc` of string
	`mdyhms()`	`%tc` of month, day, year, hour, minute, and second
	`dhms()`	`%tc` of `%td`, hour, minute, and second
	`hms()`	`%tc` of hour, minute, and second
	`hh()`	hour of `%tc`
	`mm()`	minute of `%tc`
	`ss()`	second of `%tc`
	`dofc()`	`%td` of `%tc`
	`Cofc()`	`%tC` of `%tc`
	`Clock()`	`%tC` of string
	`Cmdyhms()`	`%tC` of month, day, year, hour, minute, and second
	`Cdhms()`	`%tC` of `%td`, hour, minute, and second
	`Chms()`	`%tC` of hour, minute, and second
	`hhC()`	hour of `%tC`
	`mmC()`	minute of `%tC`
	`ssC()`	second of `%tC`
	`dofC()`	`%td` of `%tC`
	`date()`	`%td` of string
	`mdy()`	`%td` of month, day, and year
	`yw()`	`%tw` of year and week
	`ym()`	`%tm` of year and month
	`yq()`	`%tq` of year and quarter
	`yh()`	`%th` of year and half
	`cofd()`	`%tc` of `%td`
	`Cofd()`	`%tC` of `%td`

date( ), *continued*

dofb()	%td of %tb
bofd()	%tb of %td
month()	month of %td
day()	day-of-month of %td
year()	year of %td
dow()	day-of-week of %td
week()	week of %td
quarter()	quarter of %td
halfyear()	half-of-year of %td
doy()	day-of-year of %td
yearly()	%ty of string
yofd()	%ty of %td
dofy()	%td of %ty
halfyearly()	%th of string
hofd()	%th of %td
dofh()	%td of %th
quarterly()	%tq of string
qofd()	%tq of %td
dofq()	%td of %tq
monthly()	%tm of string
mofd()	%tm of %td
dofm()	%td of %tm
weekly()	%tw of string
wofd()	%tw of %td
dofw()	%td of %tw
hours()	hours of milliseconds
minutes()	minutes of milliseconds
seconds()	seconds of milliseconds
msofhours()	milliseconds of hours
msofminutes()	milliseconds of minutes
msofseconds()	milliseconds of seconds
age()	integer age on %td
age_frac()	age on %td with fractional part
Clockdiff()	integer %tC difference
clockdiff()	integer %tc difference
Clockdiff_frac()	%tC difference with fractional part
clockdiff_frac()	%tc difference with fractional part
datediff()	integer %td difference
datediff_frac()	%td difference with fractional part

date( ), *continued*	`birthday()`	`%td` birthday in year
	`previousbirthday()`	`%td` birthday immediately before `%td`
	`nextbirthday()`	`%td` first birthday after `%td`
	`isleapyear()`	`1` if leap year; `0` otherwise
	`previousleapyear()`	leap year immediately before year
	`nextleapyear()`	first leap year after year
	`daysinmonth()`	number of days in month of `%td`
	`firstdayofmonth()`	`%td` first day of month of `%td`
	`lastdayofmonth()`	`%td` last day of month of `%td`
	`datepart()`	part of `%td` corresponding to time unit
	`clockpart()`	part of `%tc` corresponding to time unit
	`Clockpart()`	part of `%tC` corresponding to time unit
	`isleapsecond()`	`1` if `%tC` is leap second; `0` otherwise
	`today()`	`%td` today's date
	`now()`	`%tc` current datetime

Description

The above functions allow you to work with dates and times in Mata. They are what most people would consider scalar functions, although in fact they will work with matrices, in an element-by-element fashion.

Also see

[M-4] **Intro** — Categorical guide to Mata functions