

Dates — Date and time functions

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