Dates — Date and time functions		
	Conte	ents Description Also see
ontents		
[M-5] Manual	entry Function	Purpose
Dat	es	
date()	<pre>clock() mdyhms() dhms() hms() hms() hh() mm() ss() dofc()</pre>	%tc of string %tc of month, day, year, hour, minute, and second %tc of %td, hour, minute, and second %tc of hour, minute, and second hour of %tc minute of %tc second of %tc %td of %tc
	Cofc() Clock() Cmdyhms() Cdhms() Chms() hhC() mmC() ssC() dofC()	%tC of %tc %tC of string %tC of month, day, year, hour, minute, and second %tC of %td, hour, minute, and second %tC of hour, minute, and second hour of %tC minute of %tC second of %tC %td of %tC
	<pre>date() mdy() dmy() yw() yw() ym() yq() yh() cofd() Cofd()</pre>	%td of string %td of month, day, and year %td of day, month, and year %tw of year and week %tm of year and month %tq of year and quarter %th of year and half %tc of %td %tC of %td

date(), continued %td of %tb dofb() bofd() %tb of %td month of %td month() day-of-month of %td day() year of %td year() day-of-week of %td dow() week() week of %td quarter() quarter of %td half-of-year of %td halfyear() day-of-year of %td doy() yearly() %ty of string %ty of %td yofd() dofy() %td of %ty %th of string halfyearly() hofd() %th of %td dofh() %td of %th %tq of string quarterly() qofd() %tq of %td dofq() %td of %tg monthly() %tm of string mofd() %tm of %td dofm() %td of %tm %tw of string weekly() wofd() %tw of %td dofw() %td of %tw hours of milliseconds hours() minutes() minutes of milliseconds seconds() seconds of milliseconds msofhours() milliseconds of hours milliseconds of minutes msofminutes() milliseconds of seconds msofseconds() 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
                  birthdav()
                                              %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
                                              first leap year after year
                   nextleapyear()
                   daysinmonth()
                                              number of days in month of %td
                   firstdayofmonth()
                                              %td first day of month of %td
                   lastdayofmonth()
                                              %td last day of month of %td
                                              part of %td corresponding to time unit
                   datepart()
                                              part of %tc corresponding to time unit
                   clockpart()
                                              part of %tC corresponding to time unit
                   Clockpart()
                                               1 if %tC is leap second; 0 otherwise
                   isleapsecond()
                   today()
                                              %td today's date
                                              %tc current datetime
                   now()
                   dayssinceweekday(),
                                              number of days since previous day of week
                   dayssincedow()
                                              number of days until next day of week
                   daysuntilweekday(),
                   daysuntildow()
                                              %td of first day of week of month and year
                   firstweekdayofmonth(),
                   firstdowofmonth()
                   lastweekdayofmonth(),
                                              %td of last day of week of month and year
                   lastdowofmonth()
                   previousweekday(),
                                              %td of last day of week before %td
                   previousdow()
                   nextweekday(),
                                              %td of next day of week after %td
                   nextdow()
```

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

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