FoxDates

Date and Time Functions for Visual FoxPro

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To use, instantiate *clsFoxDates* from foxdates.prg and call the desired method.

Examples:

If you make changes, run the FoxUnit test suite in foxdates_tests.prg to ensure all tests still pass. Note: some functions in this class depend on other functions in this class, so changes to one function can affect others.

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Date Functions

GetFirstOfMonth()

Pass a date, get back the first day of that month.

GetLastOfMonth()

Pass a date, get back the last day of that month.

GetDaysInMonth()

Pass a date, get back the number of days in that month.

GetLastEOM()

Pass a date, get back the last day of the previous month.

GetBOQ()

Pass a date, get back the first day of the calendar quarter.

GetEOQ()

Pass a date, get back the last date of the calendar quarter.

GetLastEOQ()

Pass a date, get back the date of the preceding end of quarter.

GetLastEOY()

Pass a date, get back the date of the preceding end of year.

GetLastMonday()

Pass a date, get back the date of the preceding Monday.

GetNextMonday()

Pass a date, get back the date of the next Monday.

GetDateFromString()

Pass a date as a string in mm/dd/yyyy or similar format, get it back as a VFP date.

IsLeapYear()

Pass a date, find out whether it's a leap year.

GetDateDayOrdinal()

Pass a date, get back the day of the month as an ordinal value like "first", "tenth", "nineteenth", or "thirty-first".

GetFormattedDateString()

Pass a date, get back a string formatted for display.

GetNthBusinessDay()

Pass the month, the year, and the desired business day, get back the date.

IsHoliday()

Pass a date and an optional country code, find out if it's a holiday. Country code defaults to USA. The only other option at this time is Canada.

GetRFC2822()

Pass a date or a datetime, get back a string in RFC 2822 format.

Note - does NOT adjust for time zones. All times are assumed to be UTC (+0000) unless an offset is passed as the second parameter. The offset can be passed as a string like '-0600' or '+0600' or as a numeric value like -6 or 6 (same as +6). The numeric values support .5 and .75 for those time zones that use them. (Reference: https://www.timeanddate.com/time/current-number-time-zones.html)

GetIntervalDays()

Pass two dates, get back the number of days in the interval between them. Optional third parameter determines if the result is a semi-closed interval (default - includes the start date but not the end date), a closed interval (includes both dates), or an open interval (does not include either date).

Time Functions

GetTimeString()

Pass numeric values for hours and minutes, get back a string formatted as a time.

GetDisplayTime()

Pass a time as a string like hh:mm, get back a string that includes AM or PM.

GetSecondsFromTimeString()

Pass a time as a string like hh:mm, get back the number of seconds since midnight.

GetTimeStringFromSeconds()

Pass the number of seconds since midnight, get back a time string like hh:mm.

GetEndTime()

Pass a starting time and a duration, get back the ending time.

```
oFoxDates.GetEndTime( "05:11", 30) && returns "05:41"
```

GetDuration()

Pass a start time and an end time, get back the duration in minutes.

IsValidTimeString()

Pass a time string, find out if it conforms to a valid time in hh:mm format.

Get24HourTimeString()

Pass a time in a common format like 10am, 1p, or 3:30pm and get back a string in 24-hour clock format as hhmm (no colon). Useful for storing time strings that can later be compared using VAL().