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# Foswiki::Time

# package Foswiki::Time

Time handling functions.

API version \$Date: 2010-01-08 04:06:12 +0100 (Fri, 08 Jan 2010) \$ (revision \$Rev: 6075 (2010-01-17) \$)

**Since** *date* indicates where functions or parameters have been added since the baseline of the API (TWiki release 4.2.3). The *date* indicates the earliest date of a Foswiki release that will support that function or parameter.

**Deprecated** *date* indicates where a function or parameters has been deprecated. Deprecated functions will still work, though they should *not* be called in new plugins and should be replaced in older plugins as soon as possible. Deprecated parameters are simply ignored in Foswiki releases after *date*.

**Until** *date* indicates where a function or parameter has been removed. The *date* indicates the latest date at which Foswiki releases still supported the function or parameter.

## StaticMethod parseTime( \$szDate, \$defaultLocal ) -> \$iSecs

Convert string date/time string to seconds since epoch (1970-01-01T00:00:00Z).

- \$szDate - date/time string

Handles the following formats:

Default Foswiki format

- 31 Dec 2001 - 23:59
- 31-Dec-2001 - 23:59

Foswiki format without time (defaults to 00:00)

- 31 Dec 2001
- 31-Dec-2001

Date separated by '/', '.' or '-', time with ':' or '-' Date and time separated by ' ', '.' and/or '-'

- 2001/12/31 23:59:59
- 2001.12.31.23.59.59
- 2001/12/31 23:59
- 2001.12.31.23.59
- 2001-12-31 23:59
- 2001-12-31 - 23:59
- 2009-1-12
- 2009-1
- 2009

ISO format

- 2001-12-31T23:59:59
- 2001-12-31T

ISO dates may have a timezone specifier, either Z or a signed difference in hh:mm format. For example:

- 2001-12-31T23:59:59+01:00
- 2001-12-31T23:59Z

The default timezone is Z, unless \$defaultLocal is true in which case the local timezone will be assumed.

If the date format was not recognised, will return 0.

## StaticMethod formatTime (\$epochSeconds, \$formatString, \$outputTimeZone) -> \$value

- \$epochSeconds epochSecs GMT
- \$formatString twiki time date format, default \$day \$month \$year - \$hour:\$min
- \$outputTimeZone timezone to display, gmtime or servertime, default is whatever is set in \$Foswiki::cfg{DisplayTimeValues}

\$formatString supports:

\$seconds	secs
\$minutes	mins
\$hours	hours
\$day	date
\$wday	weekday name
\$dow	day number (0 = Sunday)
\$week	week number (ISO 8601)
\$month	month name
\$mo	month number
\$year	4-digit year
\$ye	2-digit year
\$http	ful HTTP header format date/time
\$email	full email format date/time
\$rcs	full RCS format date/time
\$epoch	seconds since 1st January 1970
\$tz	Timezone name (GMT or Local)
\$isotz	ISO 8601 timezone specifier e.g. 'Z', '+07:15'

## StaticMethod formatDelta( \$s ) -> \$string

Format a time in seconds as a string. For example, "1 day, 3 hours, 2 minutes, 6 seconds"

## StaticMethod parseInterval( \$szInterval ) -> [\$iSecs, \$iSecs]

Convert string representing a time interval to a pair of integers representing the amount of seconds since epoch for the start and end extremes of the time interval.

- \$szInterval - time interval string

in yacc syntax, grammar and actions:

```

interval ::= date                { $$start = fillStart($1); $$end = fillEnd($1); }
        | date '/' date          { $$start = fillStart($1); $$end = fillEnd($3); }
        | 'P' duration '/' date  { $$start = fillEnd($4)-$2; $$end = fillEnd($4); }
        | date '/' 'P' duration { $$start = fillStart($1); $$end = fillStart($1)+$4; }

```

StaticMethod parseTime( \$szDate, \$defaultLocal ) -> \$iSecs

;

an interval may be followed by a timezone specification string (this is not supported yet).

duration has the form (regular expression):

P(<number><nameOfDuration>)+

nameOfDuration may be one of:

- y(year), m(month), w(week), d(day), h(hour), M(minute), S(second)

date follows ISO8601 and must include hyphens. (any amount of trailing elements may be omitted and will be filled in differently on the different ends of the interval as to include the longest possible interval):

- 2001-01-01T00:00:00
- 2001-12-31T23:59:59

timezone is optional. Default is local time.










If the format is not recognised, will return empty interval [0,0].

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StaticMethod parseInterval( \$szInterval ) -> [\$iSecs, \$iSecs]

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