ClickBlocks\Utils\DT

General information

Inheritance	DateTime
Subclasses	no
Interfaces	DateTimeInterface
Source	Framework/utils/dt.php

DT class is designed for different manipulations with date and time. Using this class you can receive information considering various components of date and time, convert date into different formats, operate date validation, modify date, work with time zones. This whole new class doesn't require additional extensions, it contains wide range of static methods which make it so easy to use.

Public static methods

isDate()

```
public static boolean isDate(string $date, string $format = null)
```

\$data	string	string representing the date.
\$format	string	format of the given date.

Validates the specified date format. Method returns TRUE if the given string is a correct date formatted according to the specified format and FALSE otherwise. If the date format is not specified the method will try to match the given date with one of the possible formats. Example:

```
echo (int)DT::isDate('2012-10-23 10:12:09', 'Y-m-d H:i:s'); // will output 1.
echo (int)DT::isDate('20121015091201', 'YmdHis'); // will output 1.
echo (int)DT::isDate('234524234'); // will output 0.
echo (int)DT::isDate('2014, 12 Mon 12:34'); // will output 1.
```

isLeapYear()

```
public static boolean isLeapYear(integer $year = null)
```

\$year	integer	the year, that should be checked for a leap.
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Checks whether the given year is a leap year. If no year is specified the current year will be checked. Example:

```
echo (int)DT::isLeapYear(2000); // will output 1.
echo (int)DT::isLeapYear(2014); // will output 0.
```

getInfo()

public static array getInfo(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns associative array with detailed info about given date. Example:

```
print_r(DT::getInfo('Thu, 13 Feb 2014 06:43:53 +0100', 'D, d M Y H:i:s 0'));
```

The above example will output:

```
Array
(
   [year] => 2014
   [month] => 2
   [day] => 13
   [hour] => 6
   [minute] => 43
   [second] => 53
   [fraction] =>
   [warning_count] => 0
    [warnings] => Array
       (
       )
    [error_count] => 0
    [errors] => Array
       (
   [is_localtime] => 1
   [zone_type] => 1
    [zone] => -60
    [is_dst] =>
    [relative] => Array
            [year] => 0
            [month] => 0
            [day] => 0
            [hour] => 0
            [minute] => 0
           [second] => 0
           [weekday] => 4
       )
```

getHour()

public static integer getHour(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the hour component of the given date.

getMinute()

public static integer getMinute(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the minute component of the given date.

getSecond()

public static integer getSecond(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the second component of the given date.

getFraction()

public static integer getFraction(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the fraction component of the given date.

getDay()

public static integer getDay(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the day component of the given date.

getMonth()

public static integer getMonth(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the month component of the given date.

getYear()

public static integer getYear(string \$date, string \$format)

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns value of the year component of the given date.

getMonthDays()

public static integer|boolean getMonthDays(integer \$year, integer \$month)

\$year integer	some valid year.
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month	integer	some valid month of the given year.

Returns number of days at the specified month of the given year. This method return FALSE if the given year and month isn't valid. Example:

```
echo DT::getMonthDays(2014, 2); // will output 28
echo DT::getMonthDays(2119, 6); // will output 30
echo (int)DT::getMonthDays(2000, 13); // will output 0
```

timestamp()

```
public static integer|boolean timestamp(string $date, string $format = null)
```

\$data	string	string representing the date.
\$format	string	format of the given date.

Returns unix timestamp for the given date formatted to the specified format. If the date format is not specified the method will try to parse the date from one of the suitable formats. The method returns FALSE if the given date is not valid. Example:

```
echo DT::timestamp('2013-02-01 02:13:14', 'Y-m-d H:i:s'); // will output 1359681194
echo DT::timestamp('2013-02-01 02:13:14'); // will output 1359681194
echo (int)DT::timestamp('24543223'); // will output 0
```

date2date()

```
public static string|boolean date2date(string $date, string $out, string $in = null)
```

\$date	string	string representing the date.
\$out	string	the output format of the date.
\$in	string	the input format of the date.

Converts the given date from one format to another. If the input date format is not specified the method will try to parse the date from one of the suitable formats. The method returns FALSE if the given date is not valid. Example:

```
echo DT::date2date('2013-02-01 02:13:14', 'd m y h:i sa', 'Y-m-d H:i:s'); // will output 01 02 13 02:13 14am echo DT::date2date('2013-02-01 02:13:14', 'd m y h:i sa'); // will output 01 02 13 02:13 14am echo (int)DT::date2date('23542434', 'd m y h:i sa'); // will output 0
```

date2sql()

```
public static string|boolean date2sql(string $date, string $format = null, boolean $shortFormat = false)
```

\$date	string	string representing the date.
\$format	string	the input date format.
\$shortFormat	boolean	determines whether the short MySQL date format ("Y-m-d") will be used as the output date format.

Converts the given date from the specified format to the MySQL date format ("Y-m-d" or "Y-m-d H:i:s"). If the input date format is not specified the method will try to parse the date from one of the suitable formats. The method returns FALSE if the given date is not valid. Example:

```
echo DT::date2sql('Thu, 13 Feb 2014 06:43:53 +0100', 'D, d M Y H:i:s O'); // will output 2014-02-13 06:43:53
echo DT::date2sql('Thu, 13 Feb 2014 06:43:53 +0100', null, true); // will output 2014-02-13
echo (int)DT::date2sql('23542434'); // will output 0
```

sql2date()

public static string|boolean sql2date(string \$date, string \$format, boolean \$shortFormat = false)

\$date	string	string representing the date.
\$format	string	the output date format.
\$shortFormat	string	determines whether the short MySQL date format ("Y-m-d") is used as the input date format.

Converts the given date from the MySQL date format ("Y-m-d" or "Y-m-d H:i:s") to the specified format. The method returns FALSE if the given date is not valid.

```
echo DT::sql2date('2014-02-13 06:43:53', 'D, d M Y H:i:s O'); // will output Thu, 13 Feb 2014 06:43:53 +0100 echo DT::sql2date('2014-02-13', 'D, d M Y', true); // will output Thu, 13 Feb 2014
```

date2atom()

public static string|boolean date2atom(string \$date, string \$format = null)

\$date	string	string representing the date.
\$format	string	the input date format.

Converts the given date from specified format to the atom date format. If the input date format is not specified the method will try to parse the date from one of the suitable formats. The method returns FALSE if the given date is not valid.

atom2date()

public static string|boolean atom2date(string \$date, string \$format)

\$date	string	string representing the date.
\$format	string	the output date format.

Converts the given date formatted from the atom date format to the given format. The method returns FALSE if the given date is not valid.

date2rss()

public static string|boolean date2rss(string \$date, string \$format = null)

\$date	string	string representing the date.
\$format	string	the input date format.

Converts the given date from specified format to the RSS date format. If the input date format is not specified the method will try to parse the date from one of the suitable formats. The method returns FALSE if the given date is not valid.

rss2date()

public static string|boolean rss2date(string \$date, string \$format)

\$date	string	string representing the date.
\$format	string	the output date format.

Converts the given date from RSS date format to the given format. The method returns FALSE if the given date is not valid.

date2cookie()

```
public static string|boolean date2cookie(string $date, string $format = null)
```

\$date	string	string representing the date.
\$format	string	the input date format.

Converts the given date from specified format to the cookie date format. If the input date format is not specified the method will try to parse the date from one of the suitable formats. The method returns FALSE if the given date is not valid.

cookie2date()

```
public static string|boolean cookie2date(string $date, string $format)
```

\$date	string	string representing the date.
\$format	string	the output date format.

Converts the given date from cookie date format to the given format. The method returns FALSE if the given date is not valid.

compare()

```
public static integer|boolean compare(string $date1, string $date2, $format = null)
```

\$date1	string	string representing the first date.
\$date2	string	string representing the second date.
\$format	string	format of the given dates.

Compares two given dates.

The method returns 1 if the second date larger than the first date.

The method returns -1 if the second date smaller than the first date.

The method returns 0 if the both dates are equal.

The method returns FALSE if the given dates are not valid.

Example:

```
echo DT::compare('2001-01-02', '2001-05-10'); // will output 1
echo DT::compare('2001-05-10', '2001-01-02'); // will output -1
echo DT::compare('2001-01-02', '2001-01-02'); // will output 0
```

difference()

public static string|boolean difference(string \$date1, string \$date2, string \$format = null, string \$component = '%r%a')

\$date1	string	string representing the first date ("from" date).
\$date2	string	string representing the second date ("to" date).
\$format	string	format of the given dates.
\$component	string	the date component.

Computes the difference between two dates given in the same format within the date components. The method returns difference between dates in

days by default. The method returns FALSE if the given dates are not valid. Example:

```
echo DT::difference('2001-01-01', '2001-05-10'); // will output 129
echo DT::difference('2001-01-01', '2001-05-10', 'Y-d-m', '%d'); // will output 4
```

countdown()

```
public static array countdown(string $date1, string $date2, string $format = null)
```

\$date1	string	string representing the first date ("from" date).
\$date2	string	string representing the second date ("to" date).
\$format	string	format of the given dates.

Calculates the difference between the two dates given in the same format. If the specific date format is not set the method will try to parse dates into one of the suitable formats. The method returns array of the following elements: second, minute, hour, day and returns FALSE if the given dates are not valid. Example:

```
print_r(DT::countdown('2001-01-01 10:15:31', '2001-05-10 04:12:05', 'Y-d-m H:i:s'));
```

The above example will output:

```
Array
(
    [day] => 276
    [hour] => 16
    [minute] => 56
    [second] => 34
)
```

past()

```
public static string past(string $date, string $now, string $format = null)
```

\$date	string	the start date.
\$now	string	the current date.

Returns text representation of the time elapsed since the specified date. Example:

```
echo DT::past('2001-01-01 10:15:31', '2002-05-10 04:12:05', 'Y-d-m H:i:s') . PHP_EOL;
echo DT::past('2001-01-01 10:15:31', '2001-05-10 04:12:05', 'Y-d-m H:i:s') . PHP_EOL;
echo DT::past('2001-01-01 10:15:31', '2001-05-01 04:12:05', 'Y-d-m H:i:s') . PHP_EOL;
echo DT::past('2001-01-01 10:15:31', '2001-01-01 10:17:05', 'Y-d-m H:i:s') . PHP_EOL;
echo DT::past('2001-01-01 10:15:31', '2001-01-01 10:15:58', 'Y-d-m H:i:s') . PHP_EOL;
echo DT::past('2001-01-01 10:15:31', '2001-01-01 10:15:31', 'Y-d-m H:i:s');
```

The above example will output:

```
a year ago
9 months ago
3 days ago
a minute ago
27 seconds ago
just now
```

now()

\$format	string	the output format of the current date.
\$timezone	string, DateTimeZone	the timezone of the current date.

Returns the current date of the specific format.

```
echo DT::now('Y-m-d H:i:s'); // will output 2014-02-13 13:02:49
echo DT::now('Y-m-d H:i:s', 'Pacific/Fiji'); // will output 2014-02-14 00:02:49
```

tomorrow()

public static string tomorrow(string \$format, string|DateTimeZone \$timezone = null)

\$format	string	the output format of the tomorrow's date.
\$timezone	string, DateTimeZone	the timezone of the tomorrow's date.

Returns the tomorrow's date of the specific format.

```
echo DT::tomorrow('Y-m-d H:i:s'); // will output 2014-02-14 13:38:35
echo DT::tomorrow('Y-m-d H:i:s', 'Pacific/Fiji'); // will output 2014-02-15 00:38:35
```

yesterday()

public static string yesterday(string \$format, string|DateTimeZone \$timezone = null)

\$format	string	the output format of the yesterday's date.
\$timezone	string, DateTimeZone	the timezone of the yesterday's date.

Returns the yesterday's date of the specific format.

```
echo DT::yesterday('Y-m-d H:i:s'); // will output 2014-02-12 13:43:18
echo DT::yesterday('Y-m-d H:i:s', 'Pacific/Fiji'); // will output 2014-02-13 00:43:18
```

getDefaultTimeZone()

```
public static string getDefaultTimeZone()
```

Returns the default timezone used by all date/time functions.

setDEfaultTimeZone()

public static boolean setDefaultTimeZone(string \$timezone)

\$timezone string	the new default timezone.
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Sets the default timezone used by all date/time functions in a script. The method returns FALSE if the timezone isn't valid, or TRUE otherwise.

getTimeZoneAbbreviation()

public static string getTimeZoneAbbreviation(string|DateTimeZone \$timezone)

\$timezone string, DateTimeZone the given timezone.

Returns abbreviation of the given time zone. The time zone can be an instance of DateTimeZone or a string. Example:

```
echo DT::getTimeZoneAbbreviation('Europe/Berlin'); // will output CET
```

getTimeZoneList()

```
public static array getTimeZoneList(boolean $combine = false, integer $what = DateTimeZone::ALL, string $country = null)
```

\$combine	boolean	determines whether the method returns associative array or not.	
\$what	integer	one of DateTimeZone class constants.	
\$country	string	a two-letter ISO 3166-1 compatible country code. This argument is only used when \$what is set to DateTimeZone::PER_COUNTRY.	

Returns numerical index array with all timezone identifiers. If **\$combine** is TRUE the method returns associated array with keys which are time zones. Example:

```
print_r(Utils\DT::getTimeZoneList(false, \DateTimeZone::ANTARCTICA));
print_r(Utils\DT::getTimeZoneList(true, \DateTimeZone::PER_COUNTRY, 'AU'));
```

The above script will output:

```
Array
   [0] => Antarctica/Casey
   [1] => Antarctica/Davis
   [2] => Antarctica/DumontDUrville
   [3] => Antarctica/Macquarie
    [4] => Antarctica/Mawson
   [5] => Antarctica/McMurdo
    [6] => Antarctica/Palmer
    [7] => Antarctica/Rothera
    [8] => Antarctica/South_Pole
    [9] => Antarctica/Syowa
   [10] => Antarctica/Vostok
)
Array
(
    [Antarctica/Macquarie] => Antarctica/Macquarie
    [Australia/Adelaide] => Australia/Adelaide
    [Australia/Brisbane] => Australia/Brisbane
    [Australia/Broken_Hill] => Australia/Broken_Hill
    [Australia/Currie] => Australia/Currie
    [Australia/Darwin] => Australia/Darwin
    [Australia/Eucla] => Australia/Eucla
    [Australia/Hobart] => Australia/Hobart
    [Australia/Lindeman] => Australia/Lindeman
    [Australia/Lord_Howe] => Australia/Lord_Howe
    [Australia/Melbourne] => Australia/Melbourne
    [Australia/Perth] => Australia/Perth
    [Australia/Sydney] => Australia/Sydney
```

getGMTTimeZoneList()

```
public static array getGMTTimeZoneList(array $replacement = null, integer $what = DateTimeZone::ALL, string $country = null)
```

\$what	integer	one of \DateTimeZone class constants.	
\$country	string	a two-letter ISO 3166-1 compatible country code. This argument is only used when \$what is set to DateTimeZone::PER_COUNTRY.	

Returns list (associative array) of timezones in GMT format. Example:

```
print_r(Utils\DT::getGMTTimeZoneList(null, \DateTimeZone::ANTARCTICA));
print_r(Utils\DT::getGMTTimeZoneList(['Australia/Darwin' => 'AU/Drw'], \DateTimeZone::PER_COUNTRY, 'AU'));
```

The above script will output:

```
Array
(
    [Antarctica/Palmer] => (GMT-03:00) Palmer
    [Antarctica/Rothera] => (GMT-03:00) Rothera
    [Antarctica/Syowa] => (GMT+03:00) Syowa
    [Antarctica/Mawson] => (GMT+05:00) Mawson
    [Antarctica/Davis] => (GMT+07:00) Davis
    [Antarctica/Casey] => (GMT+08:00) Casey
    [Antarctica/DumontDUrville] => (GMT+10:00) DumontDUrville
    [Antarctica/Macquarie] => (GMT+11:00) Macquarie
    [Antarctica/McMurdo] => (GMT+13:00) McMurdo
    [Antarctica/South_Pole] => (GMT+13:00) South Pole
)
Array
(
    [Australia/Eucla] => (GMT+08:45) Eucla
    [Australia/Perth] => (GMT+08:00) Perth
    [Australia/Darwin] => (GMT+09:30) AU/Drw
    [Australia/Adelaide] => (GMT+10:30) Adelaide
    [Australia/Brisbane] => (GMT+10:00) Brisbane
    [Australia/Broken_Hill] => (GMT+10:30) Broken Hill
    [Australia/Lindeman] => (GMT+10:00) Lindeman
    [Australia/Currie] => (GMT+11:00) Currie
    [Australia/Hobart] => (GMT+11:00) Hobart
    [Australia/Lord_Howe] => (GMT+11:00) Lord Howe
    [Antarctica/Macquarie] => (GMT+11:00) Macquarie
    [Australia/Melbourne] => (GMT+11:00) Melbourne
)
```

getGMTTimeZone()

public static string getGMTTimeZone(string|DateTimeZone \$timezone)

\$timezone string, DateTimeZone name of the given timezone or timezone object.

Returns timezone string in GMT format. Example:

```
echo DT::getGMTTimeZone('Australia/Lord_Howe'); // will output (GMT+11:00) Lord Howe
```

zone2zone()

public static string zone2zone(string \$date, string|DateTimeZone \$zoneOut, string|DateTimeZone \$zoneIn, string \$out, string \$in =

\$date	string	the given date.
\$zoneOut	string, DateTimeZone	the output timezone of the date.
\$zoneIn	string, DateTimeZone	the input timezone of the date.

\$out	string	the output date format.
\$in	string	the input date format.

Converts the given date from one timezone and date format to another timezone and date format. Example:

```
echo Utils\DT::zone2zone('2014-03-10 12:35:17', 'Antarctica/Vostok', 'America/Dominica', \DateTime::RSS, 'Y-d-m H:i:s');
// will output Fri, 03 Oct 2014 22:35:17 +0600
```

Public non-static methods

construct()

public void __construct(string|DateTimeInterface \$date = 'now', string \$format = null, string|DateTimeZone \$timezone = null)

\$date string, DateTimeInterface \$format string		the given date.
		format of the given date.
\$timezone	string, DateTimeZone	timezone of the given date.

Class constructor. If **\$date** is not specified, the current date will be taken. If **\$format** is not set any suitable format will be used. If **\$timezone** is not defined the default timezone will be taken as timezone of the given date.

_toString()

```
public string __toString()
```

Returns string representation of the datetime object in RFC 2822 format. This method is automatically invoked when an datetime object converts to string.

setTimezone()

public self|boolean setTimezone(string|DateTimeZone \$timezone)

\$tim	mezone	string, DateTimeZone	timezone of a datetime object that associated with the class instance.	
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Sets the timezone for the internal datatime object. The method returns the object itself for method chaining or FALSE on failure.

getTimestamp()

public integer getTimestamp(string|DateTimeZone \$timezone = null)

```
$timezone string, DateTimeZone timezone of a datetime object that associated with the class instance.
```

Returns the Unix timestamp representing the date. Example:

```
$dt = new DT();
echo $dt->getTimestamp() . PHP_EOL;
echo $dt->getTimestamp('Pacific/Nauru');
```

The above script will output:

```
1392643927
1392683527
```

format()

public string format(string \$format, string|DateTimeZone \$timezone = null)

\$format string		the output date format.	
\$timezone	string, DateTimeZone	the timezone of the output date.	

Returns the date formatted to the given format for the specified timezone. Example:

```
$dt = new DT('now');
echo $dt->format('Y-m-d H:i:s') . PHP_EOL;
echo $dt->format('Y-m-d H:i:s', 'Pacific/Nauru');
```

The above example will output:

```
2014-02-17 14:42:55
2014-02-18 01:42:55
```

add()

```
public self|boolean add(string|DateInterval $interval)
```

```
$interval string, DateInterval a date interval. See more details here.
```

Adds an amount of days, months, years, hours, minutes and seconds to a datetime object. The method returns the object itself for method chaining or FALSE on failure. Example:

```
$dt = new DT('2000-01-15 12:01:15');
$dt->add('10 days 1 hour 177 seconds');
echo $dt->format('Y-m-d H:i:s');
```

The above example will output:

```
2000-01-25 13:04:12
```

sub()

public self|boolean sub(string|DateInterval \$interval)

```
$interval string, DateInterval a date interval. See more details here.
```

Subtracts an amount of days, months, years, hours, minutes and seconds from a datetime object. The method returns the object itself for method chaining or FALSE on failure. Example:

```
$dt = new DT('2000-01-15 12:01:15');
$dt->sub('10 days 1 hour 177 seconds');
echo $dt->format('Y-m-d H:i:s');
```

The above example will output:

```
2000-01-05 10:58:18
```

addDay()

```
public self addDay(integer $day = 1)
```

\$day integer the date increment in days.

Adds an amount of days to the datetime object. The amount of days can be negative. The method returns the object itself for method chaining or FALSE on failure.

addMonth()

public self addMonth(integer \$month = 1)

\$month integer the date increment in months.

Adds an amount of months to the datetime object. The amount of months can be negative. The method returns the object itself for method chaining or FALSE on failure.

addYear()

public self addYear(integer \$year = 1)

\$years integer the date increment in years.

Adds an amount of years to the datetime object. The amount of years can be negative. The method returns the object itself for method chaining or FALSE on failure.

addHour()

public self addHour(integer \$hour = 1)

\$hour integer the date increment in hours.

Adds an amount of hours to the datetime object. The amount of hours can be negative. The method returns the object itself for method chaining or FALSE on failure.

addMinute()

public self addMinute(integer \$minute = 1)

\$minute integer the date increment in minutes.

Adds an amount of minutes to the datetime object. The amount of minutes can be negative. The method returns the object itself for method chaining or FALSE on failure.

addSeconds()

public self addSecond(integer \$second = 1)

\$second integer the date increment in seconds.

Adds an amount of seconds to the datetime object. The amount of seconds can be negative. The method returns the object itself for method chaining or FALSE on failure.

diff()

public DateInterval|boolean diff(mixed \$date, boolean \$absolute = false)

\$date	mixed	the date to compare to.	
\$absolute	boolean	determines whether to return absolute difference.	1

Returns DateInterval object representing the difference between the two dates or FALSE on failure. Example:

```
$dt1 = new DT('2009-10-11');
$dt2 = new DT('2009-10-13');
echo $dt1->diff($dt2)->format('%R%a days');
```

The above script will output:

```
+2 days
```

cmp()

```
public integer cmp(mixed $date, string|DateTimeZone $timezone = null)
```

\$date		mixed	the date to compare to.	
,	\$timezone	string, DateTimeZone	timezone of the given dates.	

Compares two given dates.

The method returns 1 if the second date larger than the first date.

The method returns -1 if the second date smaller than the first date.

The method returns 0 if the both dates are equal.

Example:

```
$dt1 = new DT('2009-10-11 10:15:37', 'Y-m-d H:i:s', 'America/Belize');
$dt2 = new DT('2009-10-12 01:12:13', 'Y-m-d H:i:s', 'Indian/Mahe');
echo $dt1->cmp($dt2, 'Europe/Moscow'); // will output -1 ($dt1 > $dt2 for Moscow timezone)
echo $dt2->cmp($dt1, 'Europe/Moscow'); // will output 1 ($dt2 < $dt1 for Moscow timezone)
echo $dt1->cmp($dt1, 'Europe/Moscow'); // will output 0 ($dt1 == $dt2)
```

getPeriod()

public Generator getPeriod(string|DateInterval \$interval, integer|DateTimeInterface \$end, boolean \$excludeStartDate = false)

\$interval	string, DateInterval	the interval between recurrences within the period.
\$end	integer, DateTimeInterface	the number of recurrences or the end date of the period.
\$excludeStartDate	boolean	determines whether the start date is excluded from the set of recurring dates within the period.

The method allows iteration over a set of dates and times, recurring at regular intervals, over a given period. It returns a Generator object representing of the given date period. Example:

```
$dt = new Utils\DT('now', null, 'America/Belize');
$period = $dt->getPeriod(new \DateInterval('P7D'), 5, true);
foreach ($period as $dt)
{
   echo $dt->format('Y-m-d H:i:s', 'Europe/Moscow') . PHP_EOL;
}
```

The above example will output:

