

# Clock

Non-Visible component

Category	Requires	Version
Sensors	API 19, Android 4.4 - 4.4.4 KitKat	4

## Overview

Non-visible component that provides the instant in time using the internal clock on the phone. It can fire a timer at regularly set intervals and perform time calculations, manipulations, and conversions.

Methods to convert an instant to text are also available. Acceptable patterns are empty string, MM/DD/YYYY HH:mm:ss a, or MMM d, yyyyHH:mm. The empty string will provide the default format, which is "MMM d, yyyy HH:mm:ss a" for `FormatDateTime` "MMM d, yyyy" for `FormatDate`. To see all possible format, please see [here](#).

## Events

### Timer

Timer has gone off.

## Methods

### Add Days

Returns: *Instant**time*

An instant in time some days after the argument

Params	
instant	Instantintime
quantity	Number

## Add Duration

Returns: *Instantintime*

An instant in time some duration after the argument

Params	
instant	Instantintime
quantity	Number

## Add Hours

Returns: *Instantintime*

An instant in time some hours after the argument

Params	
instant	Instantintime
quantity	Number

## Add Minutes

Returns: *Instantintime*

An instant in time some minutes after the argument

Params	
instant	Instantintime
quantity	Number

## Add Months

Returns: *Instantintime*

An instant in time some months after the argument

Params	
instant	Instantintime
quantity	Number

## Add Seconds

Returns: *Instantintime*

An instant in time some seconds after the argument

Params	
instant	Instantintime
quantity	Number

## Add Weeks

Returns: *Instantintime*

An instant in time some weeks after the argument

Params	
instant	Instantintime
quantity	Number

## Add Years

Returns: *Instantintime*

An instant in time some years after the argument

Params	
instant	Instantintime
quantity	Number

## Day Of Month

Returns: *Number*

The day of the month

Params	
instant	Instantintime

## Duration

Returns: *Number*

Milliseconds elapsed between instants

Params	
start	Instantintime
end	Instantintime

## Duration To Days

Returns: *Number*

convert duration to days

Params	
duration	Number

## Duration To Hours

Returns: *Number*

convert duration to hours

Params	
duration	Number

## Duration To Minutes

Returns: *Number*

convert duration to minutes

Params	
duration	Number

## Duration To Seconds

Returns: *Number*

convert duration to seconds

Params	
duration	Number

## Duration To Weeks

Returns: *Number*

convert duration to weeks

Params	
duration	Number

## Format Date

Returns: *Text*

Text representing the date of an instant in the specified pattern

Params	
instant	Instantintime
pattern	Text

## Format Date Time

Returns: *Text*

Text representing the date and time of an instant in the specified pattern

Params	
instant	Instantintime
pattern	Text

## Format Time

Returns: *Text*

Text representing the time of an instant

Params	
instant	Instantintime

## Get Millis

Returns: *Number*

The instant in time measured as milliseconds since 1970.

Params	
instant	Instantintime

## Hour

Returns: *Number*

The hour of the day

Params	
instant	Instantintime

## Make Date

Returns: *Instantintime*

Allows the user to set the clock to be a date value Valid values for the month field are 1-12 and 1-31 for the day field.

Params	
year	Number
month	Number
day	Number

## Make Instant

Returns: *Instantintime*

An instant in time specified by MM/dd/YYYY hh<sup>ss</sup> or MM/dd/YYYY or hh:mm

Params	
from	Text

## Make Instant From Millis

Returns: *Instantintime*

An instant in time specified by the milliseconds since 1970.



Params	
millis	<input type="text" value="Number"/>

## Make Instant From Parts

Returns: *Instant*

Allows the user to set the date and time to be displayed when the clock opens  
Valid values for the month field are 1-12 and 1-31 for the day field.

Params	
year	<input type="text" value="Number"/>
month	<input type="text" value="Number"/>
day	<input type="text" value="Number"/>
hour	<input type="text" value="Number"/>
minute	<input type="text" value="Number"/>
second	<input type="text" value="Number"/>

## Make Time

Returns: *Instant*

Allows the user to set the time of the clock - Valid format is hh:mm:ss

Params	
hour	Number
minute	Number
second	Number

## Minute

Returns: *Number*

The minute of the hour

Params	
instant	Instantintime

## Month

Returns: *Number*

The month of the year represented as a number from 1 to 12)

Params	
instant	Instantintime

## Month Name

Returns: *Text*

The name of the month

Params	
instant	Instantintime

## Now

Returns: *Instantintime*

The current instant in time read from phone's clock

## Second

Returns: *Number*

The second of the minute

Params	
instant	Instantintime

## System Time

Returns: *Number*

The phone's internal time

## Weekday

Returns: *Number*

The day of the week represented as a number from 1 (Sunday) to 7 (Saturday)

Params	
instant	Instantintime

## Weekday Name

Returns: *Text*

The name of the day of the week

Params	
instant	Instantintime

## Year

Returns: *Number*

The year

Params	
instant	Instantintime

## Properties

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### Timer Always Fires

Boolean Default: *True* — Read Write - Designer Blocks

Will fire even when application is not showing on the screen if true

### Timer Enabled

Boolean Default: *True* — Read Write - Designer Blocks

Fires timer if true

## Timer Interval

Number Default: 1000 — Read Write - Designer Blocks

Interval between timer events in ms

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Last update: January 26, 2020