

# Package ‘utc’

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**Type** Package

**Title** Coordinated Universal Time Transformations

**Version** 0.1.5

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**Description** Three functions are provided: first function changes time from local to UTC, other changes from UTC to local and third returns difference between local and UTC. %h+% operator is also provided it adds hours to a time.

**License** GPL-2

**Encoding** UTF-8

**LazyData** FALSE

**Suggests** testthat

**RoxygenNote** 6.0.1

**NeedsCompilation** no

**Repository** CRAN

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fromUTC	<i>fromUTC</i>
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**Description**

Returns local time from UTC time

**Usage**

```
fromUTC(utctime, timeformat = "%Y-%m-%d %H:%M:%S")
```

**Arguments**

utctime	POSIXct UTC time
timeformat	string format of local time, by default it will be "%Y-%m-%d %H:%M:%S"

**Value**

localtime POSIXct local time

**Examples**

```
fromUTC( as.POSIXct("1991-06-29 05:27:25", tz = "UTC") )
```

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hoursUTC	<i>hoursUTC</i>
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**Description**

This function returns time difference between UTC and Local

**Usage**

```
hoursUTC(to_test_time = Sys.time(), timeformat = "%Y-%m-%d %H:%M:%S")
```

**Arguments**

to_test_time	only for testing UTC Sys.time()
timeformat	string format of local time, by default it will be "%Y-%m-%d %H:%M:%S"

**Value**

number of hours

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toUTC	<i>toUTC</i>
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**Description**

Returns UTC time from local time

**Usage**

```
toUTC(localtime, timeformat = "%Y-%m-%d %H:%M:%S")
```

**Arguments**

localtime	POSIXct local time
timeformat	string format of local time, by default it will be "%Y-%m-%d %H:%M:%S"

**Value**

utctime POSIXct UTC time

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%h+%	<i>add hours</i>
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**Description**

This function adds h hours to a POSIXct

**Usage**

```
h %h+% datetime
```

**Arguments**

h	number of hours
datetime	POSIXct

**Value**

POSIXct and h added

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