

# Date and Time

## Convert UNIX Timestamp

GNU:

```
date -d "@$TIMESTAMP"
```

UNIX/macOS:

```
date -r "$TIMESTAMP"
```

strftime:

```
echo "$TIMESTAMP" | gawk '{print strftime("%c", $0)}'
```

## ISO 8601 Timestamp

```
date +%FT%T%z
```

## Get Time of Different Time Zone

```
ls /usr/share/zoneinfo/Asia  
TZ='Asia/Tokyo' date
```

## Convert UNIX Timestamp to Date

```
date -r 1420888742 # BSD date  
date -d @1420888742 # GNU date
```

## Convert UTC to local time (GNU date)

```
date -d '2021-02-19 23:42UTC'
```

## Convert time to UTC (GNU date)

specifying date and timezone:

```
date -u -d "2021-02-19 23:42 CET" +"%Y-%m-%d %H:%M %Z"
```

using current system time:

```
date -u +"%Y-%m-%d %H:%M %Z"
```

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