

How can I convert a UNIX timestamp to a date in R using three different methods?

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In order to convert a UNIX timestamp to a date in R, there are three main methods that can be used. The first method involves using the "as.POSIXct" function, which converts the timestamp to a POSIXct object and then using the "format" function to specify the desired date format. The second method involves using the "as.Date" function, which converts the timestamp to a Date object and then using the "format" function to specify the desired date format. Lastly, the third method involves using the "strptime" function, which converts the timestamp to a date object and then using the "strftime" function to specify the desired date format. All three methods provide different options for converting a UNIX timestamp to a date in R, allowing for flexibility and ease in data manipulation and analysis.

Convert UNIX Timestamp to Date in R (3 Methods)

You can use one of the following three methods to convert a to a date object in R:

Method 1: Use Base R

```
#convert UNIX timestamp to date  
as.Date(as.POSIXct(x, origin="1970-01-01"))
```

Method 2: Use anytime Package

```
library(anytime)
```

```
#convert UNIX timestamp to date  
anydate(x)
```

Method 3: Use lubridate Package

```
library(lubridate)
```

```
#convert UNIX timestamp to date  
as_date(as_datetime(x))
```

The following examples show how to use each function in practice.

Example 1: Convert Timestamp to Date Using Base R

We can use the following code to convert a UNIX timestamp to a date using only functions from base R:

```
#define UNIX timestamp  
value <- 1648565400  
  
#convert UNIX timestamp to date object  
new_date <- as.Date(as.POSIXct(value,  
origin="1970-01-01"))  
  
#view date object  
new_date  
  
"2022-03-29"  
  
#view class of date object
```

```
class(new_date)
```

```
"Date"
```

The UNIX timestamp has successfully been converted to a date object.

Example 2: Convert Timestamp to Date Using anytime Package

We can also use the `anydate()` function from the anytime package to convert a UNIX timestamp to a date object in R:

```
library(anytime)
```

```
#define UNIX timestamp
```

```
value <- 1648565400
```

```
#convert UNIX timestamp to date object
```

```
new_date <- anydate(value)
```

```
#view date object
```

```
new_date
```

```
"2022-03-29"
```

```
#view class of date object
```

```
class(new_date) "Date"
```

The UNIX timestamp has successfully been converted to a date object.

Example 3: Convert Timestamp to Date Using lubridate Package

```
library(lubridate)
```

```
#define UNIX timestamp
```

```
value <- 1648565400
```

```
#convert UNIX timestamp to date object
```

```
new_date <- as_date(as_datetime(value))
```

```
#view date object
```

```
new_date
```

```
"2022-03-29"
```

```
#view class of date object
```

```
class(new_date)
```

```
"Date"
```

Once again, the UNIX timestamp has successfully been

converted to a date object.

Additional Resources

The following tutorials explain how to perform other common tasks in R:

ARABPSYCHOLOGY.COM