

How can TRUE and FALSE be converted to 1 and 0 in R?

Authored by
stats writer

June 26, 2024

RECOMMENDED CITATION

stats writer (2024). *How can TRUE and FALSE be converted to 1 and 0 in R?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=154309>

TRUE and FALSE are logical values in R that represent boolean logic. In order to convert these values to numeric values 1 and 0, a function called "as.numeric()" can be used in R. This function converts logical values to their corresponding numeric values, with TRUE being converted to 1 and FALSE being converted to 0. This conversion is useful when working with data that requires numeric values for calculations or analysis.

Convert TRUE and FALSE to 1 and 0 in R

You can use the following basic syntax to convert a column with TRUE and FALSE values to a column with 1 and 0 values in R:

```
df$my_column <- as.integer(as.logical(df$my_column))
```

The following example shows how to use this syntax in practice.

Example: Convert TRUE and FALSE to 1 and 0 in R

Suppose we have the following data frame in R:

```
#create data frame
```

```
df <- data.frame(points=c(5, 7, 8, 0, 12, 14),
```

```
assists=c(0, 2, 2, 4, 4, 3),
```

```
all_star=c(TRUE, TRUE, FALSE, FALSE, FALSE, TRUE))
```

```
#view data frame
```

```
df
```

points assists all_star

1 5 0 TRUE

2 7 2 TRUE

3 8 2 FALSE

4 0 4 FALSE

5 12 4 FALSE

6 14 3 TRUE

We can use the following basic syntax to convert the TRUE and FALSE values in the all_star column to 1 and 0 values:

#convert all_star column to 1s and 0s

```
df$all_star <- as.integer(as.logical(df$all_star))
```

#view updated data frame

df

points assists all_star

1 5 0 1

2 7 2 1

3 8 2 0

4 0 4 0

5 12 4 0

6 14 3 1

Each TRUE value has been converted to 1 and each FALSE value has been converted to 0.

The other columns (points and assists) have remained unchanged.

Note that you can also use the `as.logical()` function to convert a column of 1 and 0 values back to TRUE and FALSE values:

```
#convert 1s and 0s back to TRUE and FALSE in all_star column
```

```
df$all_star <- as.logical(df$all_star)
```

```
#view updated data frame
```

```
df
```

```
points assists all_star
```

```
1 5 0 TRUE
```

```
2 7 2 TRUE
```

```
3 8 2 FALSE
```

```
4 0 4 FALSE
```

```
5 12 4 FALSE
```

```
6 14 3 TRUE
```

The 1 and 0 values have been converted back to TRUE and FALSE values in the all_star column.

ARABPSYCHOLOGY.COM