

## R Convert Dataframe to Matrix

In this tutorial, we will learn how to convert an R Dataframe to an R Matrix.

Consider that you have your data loaded to an R Dataframe and it is required to do some matrix operations on the data. You can load your dataframe into a matrix and do the matrix operations on it.

To convert Dataframe to Matrix in R language, use `data.matrix()` method. The syntax of `data.matrix()` method is

```
data.matrix(frame,  
rownames.force = NA)
```

```
data.matrix(frame, rownames.force = NA)
```

where `frame` is the dataframe and `rownames.force` is logical indicating if the resulting matrix should have character (rather than `NULL`) `rownames`. The default, `NA`, uses `NULL` rownames if the data frame has 'automatic' row.names or for a zero-row data frame.

### Example to Convert Dataframe to Matrix in R

In this example, we will create an R dataframe and then convert it to a matrix.

```
> DF1 =
```

```
data.frame(c1=c(1, 5, 14, 23, 54),
```

```
> DF1 = data.frame(c1= c(1, 5, 14, 23, 54), c2= c(9, 15, 85, 3, 42), c3= c(9, 7, 42, 87, 16))
```

```
> DF1
```

```
  c1 c2 c3
```

```
1 1 9 9
```

```
2 5 15 7
```

```
3 14 85 42
```

```
4 23 3 87
```

```
5 54 42 16
```

```
> Mat1 = data.matrix(DF1)
```

```
> Mat1
```

```
  c1 c2 c3
```

```
[1,] 1 9 9
```

```
[2,] 5 15 7
```

```
[3,] 14 85 42
```

```
[4,] 23 3 87
```

```
[5,] 54 42 16
```

▸ R Tutorial

▸ R Script File

▸ R Working Directory

▸ R Data Types

▸ R Variables

▸ R Operators

▸ R Vectors

▸ R Matrix

## Decision Making

▸ R Decision Making

▸ R if

▸ R if..else

▸ R if..else if...else

▸ R switch

## Loops

▸ R Loops

▸ R repeat loop

▸ R while loop

▸ R for loop

▸ R break

## Strings

▸ R Strings

▸ Find length of String in R

▸ Extract Substring from a String in R

▸ Concatenate two or more Strings in R

## Functions

▸ R Functions

## DataFrame

▸ R Data Frame

▸ Sort R Data Frame by Column

▸ For each row in an R Data Frame

▸ Import Excel Data into R Dataframe

▸ Convert R Dataframe to Matrix

▮ R Dataframe - Delete Rows

▮ R Dataframe - Drop Columns

▮ R Dataframe - Add Column

▮ R Dataframe - Change Column Name

▮ R Dataframe - Remove Duplicate Rows

▮ R Dataframe - Replace NA with 0

▮ Convert Matrix to R Dataframe

## Handling Data from Files

▮ R CSV Files - Read, Filter, Write

▮ R Read Excel XLS XLSX files

## Charts & Graphs

▮ R Pie Charts

▮ R Line Graphs

## Statistical Analysis

▮ R Mean of a Vector

▮ R Median of a Vector