

Learn How to Determine the Dimensions of a Data Frame in R

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RECOMMENDED CITATION

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You can use the following functions in R to display the size of a given data frame:

nrow: Display number of rows in data frame

ncol: Display number of columns in data frame

dim: Display dimensions (rows and columns) of data frame

The following examples show how to use each of these functions in practice with the following data frame:

#create data frame

```
df <- data.frame(team=c('A', 'B', 'C', 'D', 'E', 'F'),
points=c(99, 90, 86, 88, 95, 99),
assists=c(33, 28, 31, 39, 34, 25),
rebounds=c(12, NA, 24, 24, 28, 33))
```

#view data frame

```
df
```

```
team points assists rebounds
```

```
1 A 99 33 12
```

```
2 B 90 28 NA
```

```
3 C 86 31 24
```

```
4 D 88 39 24
```

```
5 E 95 34 28
```

```
6 F 99 25 33
```

Example 1: Use `nrow()` to Display Number of Rows

The following code shows how to use the `nrow()` function to display the total number of rows in the data frame:

#display total number of rows in data frame

```
nrow(df)
```

```
6
```

There are **6** total rows.

Note that we can also use the function to display the total number of rows with no NA values:

#display total number of rows in data frame with no NA values

```
nrow(df)
```

```
5
```

There are **5** total rows that have no NA values.

Example 2: Use `ncol()` to Display Number of Columns

The following code shows how to use the `ncol()` function to display the total number of columns in the data frame:

```
#display total number of columns in data frame
```

```
ncol(df)
```

```
4
```

There are **4** total columns.

Example 3: Use `dim()` to Display Dimensions

The following code shows how to use the `dim()` function to display the dimensions (rows and columns) of the data frame:

```
#display dimensions of data frame
```

```
dim(df)
```

```
6 4
```

This tells us there are **6** rows and **4** columns in the data frame.

You can also use brackets with the `dim()` function to display only the rows or columns:

```
#display number of rows of data frame
```

```
dim(df)
```

```
6
```

```
#display number of columns of data frame
```

```
dim(df)
```

```
4
```

Additional Resources

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