

What are the three methods to get column names in R?

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June 26, 2024

RECOMMENDED CITATION

stats writer (2024). *What are the three methods to get column names in R?*.

PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=153615>

There are three main methods to obtain column names in R. The first method is to use the "colnames" function, which allows you to retrieve the names of columns in a data frame. The second method is to use the "names" function, which can be used to retrieve the names of columns in a vector or matrix. Lastly, the "colnames

Get Column Names in R (3 Methods)

You can use the following methods to get the column names of a data frame in R:

Method 1: Get All Column Names

```
colnames(df)
```

Method 2: Get Column Names in Alphabetical Order

```
sort(colnames(df))
```

Method 3: Get Column Names with Specific Data Type

```
colnames(df)
```

The following examples show how to use each method with the following data frame in R:

```
#create data frame
```

```
df = data.frame(team=c('A', 'B', 'C', 'D', 'E', 'F'),
```

```
points=c(18, 22, 19, 14, 14, 11),  
assists=c(5, 7, 7, 9, 12, 9),  
playoffs=c(TRUE, FALSE, FALSE, TRUE, TRUE, TRUE))
```

```
#view data frame
```

```
df
```

```
team points assists playoffs
```

```
1 A 18 5 TRUE
```

```
2 B 22 7 FALSE
```

```
3 C 19 7 FALSE
```

```
4 D 14 9 TRUE
```

```
5 E 14 12 TRUE
```

```
6 F 11 9 TRUE
```

Example 1: Get All Column Names

The easiest way to get all of the column names in a data frame in R is to use `colnames()` as follows:

```
#get all column names
```

```
colnames(df)
```

```
"team" "points" "assists" "playoffs"
```

The result is a vector that contains all four column names from the data frame.

Example 2: Get Column Names in Alphabetical Order

To get the column names in a data frame in alphabetical order, you can use the `sort()` function as follows:

```
#get column names in alphabetical order  
sort(colnames(df))
```

```
"assists" "playoffs" "points" "team"
```

The result is a vector that contains all four column names from the data frame listed in alphabetical order.

```
#get column names in reverse alphabetical  
ordersort(colnames(df), decreasing=TRUE)
```

```
"team" "points" "playoffs" "assists"
```

Example 3: Get Column Names with Specific Data Type

You can use the following syntax to view the data type of each column in the DataFrame:

```
#view data type of each columnstr(df)
```

'data.frame': 6 obs. of 4 variables:

\$ team : chr "A" "B" "C" "D" ...

\$ points : num 18 22 19 14 14 11

\$ assists : num 5 7 7 9 12 9

\$ playoffs: logi TRUE FALSE FALSE TRUE TRUE TRUE

You can then use the `sapply()` function to only get the column names with a specific data type.

For example, we can use the following syntax to only get the column names that have a data type of numeric:

```
#get all columns that have data type of  
numericcolnames(df)
```

```
"points" "assists"
```

The result is a vector of column names that have a data type of numeric.