

# How can I remove columns with NA values in R?

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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Removing columns with NA values in R can be achieved by using the "complete.cases()" function. This function allows you to identify and remove columns in a dataset that contain missing values. By specifying the dataset and using the "complete.cases()" function, R will automatically drop any columns with NA values, leaving you with a clean and complete dataset. This method is useful for data analysis and ensures that your results are accurate and reliable.

## Remove Columns with NA Values in R

You can use one of the following two methods to remove columns from a data frame in R that contain NA values:

### Method 1: Use Base R

```
df
```

### Method 2: Use dplyr

```
library(dplyr)
```

```
df %>% select_if(~ !any(is.na(.)))
```

Both methods produce the same result.

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

```
#create data frame
```

```
df <- data.frame(team=c('A', 'B', 'C', 'D', 'E'),
points=c(99, NA, NA, 88, 95),
assists=c(33, 28, 31, 39, 34),
rebounds=c(30, 28, 24, 24, NA))
```

```
#view data frame
```

```
df
```

```
team points assists rebounds
```

```
1 A 99 33 30
```

```
2 B NA 28 28
```

```
3 C NA 31 24
```

```
4 D 88 39 24
```

```
5 E 95 34 NA
```

**Example 1: Remove Columns with NA Values Using Base R**

The following code shows how to remove columns with NA values using functions from base R:

```
#define new data frame
```

```
new_df <- df
```

```
#view new data frame
```

```
new_df
```

## team assists

1 A 33

2 B 28

3 C 31

4 D 39

5 E 34

Notice that the two columns with NA values (points and rebounds) have both been removed from the data frame.

### Example 2: Remove Columns with NA Values Using dplyr

The following code shows how to remove columns with NA values using functions from the package:

```
library(dplyr)
```

```
#define new data frame
```

```
new_df <- df %>% select_if(~ !any(is.na(.)))
```

```
#view new data frame
```

```
new_df
```

## team assists

1 A 33

**2 B 28**

**3 C 31**

**4 D 39**

**5 E 34**

**Once again, the two columns with NA values (points and rebounds) have both been removed from the data frame.**

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