

How can I create a table in R that includes NA values?

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Creating a table in R that includes NA values can be achieved by using the "data.frame" function and specifying the number of rows and columns desired. NA values can be added by leaving spaces or using the "NA" function. The resulting table will have the specified number of rows and columns with NA values included. This allows for the inclusion of missing or incomplete data in the table.

Create Table and Include NA Values in R

By default, the `table()` function in R creates a table of frequency values but does not include the frequency of NA values.

However, you can use the following methods to create a table and include NA values:

Method 1: Create Table and Always Display Number of NA Values

```
table(df$my_column, useNA = "always")
```

Method 2: Create Table and Only Display Number of NA Values if there are Some

```
table(df$my_column, useNA = "ifany")
```

The following examples show how to use each method in practice.

Example 1: Create Table and Always Display Number of NA Values

Suppose we have the following data frame in R that contains information about various basketball players:

```
#create data frame
```

```
df <- data.frame(team=c('A', 'A', 'A', 'A', 'B', 'B', 'B', 'B'),  
points=c(20, 25, 14, 18, 19, 12, 12, 15))
```

```
#view data frame
```

```
df
```

```
team points
```

```
1 A 20
```

```
2 A 25
```

```
3 A 14
```

```
4 A 18
```

```
5 B 19
```

```
6 B 12
```

```
7 B 12
```

```
8 B 15
```

We can use the following syntax to create a table for the frequency of values in the team column and display the number of NA values whether or not any exist:

```
#create frequency table of values in team column,  
including NA values  
table(df$team, useNA = "always")
```

```
A B <NA>  
4 4 0
```

Notice that the resulting table shows that there are 0 NA values in the team column of the data frame.

Since we used the argument `useNA = "always"`, the table still displayed the number of NA values even though there weren't any.

Example 2: Create Table and Only Display Number of NA Values if there are Some

Once again suppose we have the following data frame in R that contains information about various basketball players:

```
#create data frame  
df <- data.frame(team=c('A', 'A', 'A', 'A', 'B', 'B', 'B', 'B'),  
points=c(20, 25, 14, 18, 19, 12, 12, 15))  
  
#view data frame
```

df

team points

1 A 20

2 A 25

3 A 14

4 A 18

5 B 19

6 B 12

7 B 12

8 B 15

**#create frequency table of values in team column,
including NA values if any exist**

table(df\$team, useNA = "ifany")

A B

4 4

**Notice that the resulting table shows the frequency for
the values "A" and "B" in the team column, but does
not show the frequency of NA values since there aren't
any.**