

# How can I remove NA values from a matrix in R, with an example?

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## RECOMMENDED CITATION

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In R, NA values refer to missing or undefined data in a matrix. To remove these NA values from a matrix, the function "na.omit()" can be used. This function will remove any rows that contain NA values in the specified matrix. An example of using this function would be as follows:

```
> #creating a matrix with NA values
> matrix matrix

1 4 8
2 NA 9
3 6 NA
NA 7 10

> #removing NA values from the matrix
> new_matrix new_matrix

1 4 8
2 NA 9
```

This function is useful for cleaning and preparing data for analysis, as it removes any incomplete or irrelevant rows from the matrix.

## Remove NA from Matrix in R (With Example)

You can use the following methods to remove NA values from a matrix in R:

### Method 1: Remove Rows with NA Values

```
new_matrix <- my_matrix
```

### Method 2: Remove Columns with NA Values

```
new_matrix <- my_matrix
```

The following examples show how to use each method in practice with the following matrix in R:

```
#create matrix
```

```
my_matrix <- matrix(c(NA, 0, NA, 5, 7, 4, 1, 3, 9, 5, 5, 8),  
nrow=4)
```

```
#view matrix
```

```
my_matrix
```

```
NA 7 9
```

```
0 4 5
```

```
NA 1 5
```

```
5 3 8
```

**Method 1: Remove Rows with NA Values**

The following code shows how to remove all rows from the matrix that contain NA values:

```
#remove all rows with NA values
```

```
new_matrix <- my_matrix
```

```
#view updated matrix
```

```
new_matrix
```

```
0 4 5  
5 3 8
```

Notice that all rows with NA values have been removed from the matrix.

Related:

Method 2: Remove Columns with NA Values

The following code shows how to remove all columns from the matrix that contain NA values:

```
#remove all columns with NA values  
new_matrix <- my_matrix  
  
#view updated matrix  
new_matrix
```

```
7 9  
4 5  
1 5  
3 8
```

Notice that all columns with NA values have been removed from the matrix.

## Related:

### Bonus: Convert NA Values to Zero in Matrix

If you simply want to convert all NA values to zero in a matrix, you can use the following syntax:

```
#remove all columns with NA values
```

```
my_matrix <- 0
```

```
#view updated matrix
```

```
my_matrix
```

```
0 7 9
```

```
0 4 5
```

```
0 1 5
```

```
5 3 8
```

Notice that all NA values have been converted to zero.

The following tutorials explain how to perform other common operations with missing values in R: