

# How can I use the “replace” function in R to replace specific values in a data frame based on a certain condition?

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## RECOMMENDED CITATION

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The "replace" function in R allows for the replacement of specific values in a data frame based on a certain condition. This function can be used to efficiently and accurately modify data by replacing certain values with new ones based on predefined criteria. By specifying the condition and the desired replacement value, users can easily update their data frames to reflect the desired changes. This function is particularly useful in data manipulation and cleaning processes, allowing for quick and precise modifications to be made. Using the "replace" function in R can greatly enhance the accuracy and efficiency of data analysis and management.

## **R: Replace Values in Data Frame Conditionally**

**You can use one of the following methods to replace values in a data frame conditionally:**

### **Method 1: Replace Values in Entire Data Frame**

```
#replace all values in data frame equal to 30 with 0  
df <- 0
```

### **Method 2: Replace Values in Specific Column**

```
#replace values equal to 30 in 'col1' with 0  
df$col1 <- 0
```

### **Method 3: Replace Values in Specific Column Based on Another Column**

```
#replace values in col2 with 0 based on rows in col1  
equal to 30
```

**df\$col2 <- 0**

**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', 'A', 'B', 'B', 'B'),  
points=c(99, 90, 90, 88, 88),  
assists=c(33, 28, 31, 30, 34),  
rebounds=c(30, 30, 24, 24, 28))
```

**#view data frame**

**df**

**team points assists rebounds**

**1 A 99 33 30**

**2 A 90 28 30**

**3 B 90 31 24**

**4 B 88 30 24**

**5 B 88 34 28**

**Method 1: Replace Values in Entire Data Frame**

**The following code shows how to replace all values equal to 30 in the data frame with 0:**

```
#replace all values in data frame equal to 30 with 0  
df <- 0
```

```
#view updated data frame
```

```
df
```

```
team points assists rebounds
```

```
1 A 99 33 0
```

```
2 A 90 28 0
```

```
3 B 90 31 24
```

```
4 B 88 0 24
```

```
5 B 88 34 28
```

**Method 2: Replace Values in Specific Column**

**The following code shows how to replace all values equal to 90 in the 'points' column with 0:**

```
#replace all values equal to 90 in 'points' column with 0
```

```
df$points <- 0
```

```
#view updated data frame
```

```
df
```

```
team points assists rebounds
```

```
1 A 99 33 30
```

```
2 A 0 28 30
```

**3 B 0 31 24**

**4 B 88 30 24**

**5 B 88 34 28**

### Method 3: Replace Values in Specific Column Based on Another Column

The following code shows how to replace the values in the 'points' column with 0 where the value in the 'team' column is equal to 'B.'

```
#replace all values equal to 90 in 'points' column with 0  
df$points <- 0
```

```
#view updated data frame  
df
```

**team points assists rebounds**

**1 A 99 33 30**

**2 A 90 28 30**

**3 B 0 31 24**

**4 B 0 30 24**

**5 B 0 34 28**

### Additional Resources