

How can I convert strings to lowercase in R, and can you provide examples?

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To convert strings to lowercase in R, the function "tolower()" can be used. This function will take a string as input and return a new string with all characters converted to lowercase. For example, if the input string is "Hello World", the output string would be "hello world". This function is useful for standardizing text data or for performing case-insensitive comparisons. It can be applied to individual strings or to columns in a data frame.

Convert Strings to Lowercase in R (With Examples)

You can use the built-in tolower() function in R to convert strings to lowercase.

```
#convert string to lowercase  
tolower(string_name)
```

The following examples show how to use this function in practice.

Example 1: Convert a Single String to Lowercase

The following code shows how to convert a single string to lowercase in R:

```
#create string  
my_string <- 'THIS IS A SENTENCE WITH WORDS.'  
  
#convert string to all lowercase  
tolower(my_string)
```

"this is a sentence with words."

Note that the `tolower()` function converts *all* characters in a string to lowercase

Example 2: Convert Each String in Column to Lowercase

The following code shows how to convert every string in a column of a data frame to lowercase:

```
#create data frame  
df <- data.frame(team=c('Mavs', 'Nets', 'Spurs'),  
points=c(99, 94, 85),  
rebounds=c(31, 22, 29))  
  
#view data frame  
df  
  
team points rebounds  
1 Mavs 99 31  
2 Nets 94 22  
3 Spurs 85 29  
  
#convert team names to lowercase  
df$team <- tolower(df$team)
```

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

```
team points rebounds
```

```
1 mavs 99 31
```

```
2 nets 94 22
```

```
3 spurs 85 29
```

Example 3: Convert Strings in Multiple Columns to Lowercase

The following code shows how to convert strings in multiple columns of a data frame to lowercase:

```
#create data frame
```

```
df <- data.frame(team=c('Mavs', 'Nets', 'Spurs'),
```

```
conf=c('WEST', 'EAST', 'WEST'),
```

```
points=c(99, 94, 85))
```

```
#view data frame
```

```
df
```

```
team conf points
```

```
1 Mavs WEST 99
```

```
2 Nets EAST 94
```

```
3 Spurs WEST 85
```

```
#convert team and conference to lowercase
```

```
df <- sapply(df, function(x) tolower(x))
```

```
#view updated data frame
```

```
df
```

```
team conf points
```

```
1 mavs west 99
```

```
2 nets east 94
```

```
3 spurs west 85
```

The following tutorials explain how to perform other common tasks related to strings in R: