

How can I count the number of words in a string using R, and can you provide some examples?

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Counting the number of words in a string is a common task in data analysis and text processing. In R, this can be achieved using the built-in functions and packages. The most common method is to use the "strsplit" function to split the string into individual words, and then use the "length" function to count the number of elements in the resulting list. Another option is to use the "stringr" package, which has a function called "str_count" specifically designed for counting the number of words in a string. Below are some examples of how to use these methods:

Example 1:

string

Count Words in String in R (With Examples)

There are three methods you can use to count the number of words in a string in R:

Method 1: Use Base R

```
lengths(strsplit(my_string, ' '))
```

Method 2: Use stringi Package

```
library(stringi)
```

```
stri_count_words(my_string)
```

Method 3: Use stringr Package

```
library(stringr)
```

```
str_count(my_string, 'w+')
```

Each of these methods will return a numerical value that represents the number of words in the string called `my_string`.

The following examples show how to use each of these methods in practice.

Example 1: Count Words Using Base R

The following code shows how to count the number of words in a string using the `lengths` and `strsplit` functions from base R:

```
#create string  
my_string <- 'this is a string with seven words'  
  
#count number of words in string  
lengths(strsplit(my_string, ' '))  
  
7
```

From the output we can see that there are seven words in the string.

Example 2: Count Words Using stringi Package

The following code shows how to count the number of words in a string using the `stri_count_words` function from the `stringi` package in R:

```
library(stringi)

#create string
my_string <- 'this is a string with seven words'

#count number of words in string
stri_count_words(my_string)

7
```

Example 3: Count Words Using stringr Package

The following code shows how to count the number of words in a string using the `str_count` function from the `stringr` package in R:

```
library(stringr)

#create string
my_string <- 'this is a string with seven words'
```

```
#count number of words in string  
str_count(my_string, 'w+')
```

7

From the output we can see that there are seven words in the string.

Note that we used the regular expression `w+` to match non-word characters with the `+` sign to indicate one or more in a row.

Note: In each of these examples we counted the number of words in a single string, but each method will also work with a vector of strings.