How to Format Numbers as Percentages in R (With Examples)

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The easiest way to format numbers as percentages in R is to use the **percent()** function from the package. This function uses the following syntax:

percent(x, accuracy = 1)

where:

x: The object to format as a percentage.
accuracy: A number to round to. For example, use .01 to round to two decimal places.

This tutorial provides several examples of how to use this function in practice.

Example 1: Format Percentages in a Vector

The following code shows how to format numbers as percentages in a vector:

library(scales)

#create data
data <- c(.3, .7, .14, .18, .22, .78)

#format numbers as percentages
percent(data, accuracy = 1)

"30%" "70%" "14%" "18%" "22%" "78%"

#format numbers as percentages with one decimal place
percent(data, accuracy = 0.1)

"30.0%" "70.0%" "14.0%" "18.0%" "22.0%" "78.0%"

#format numbers as percentages with two decimal places
percent(data, accuracy = 0.01)

"30.00%" "70.00%" "14.00%" "18.00%" "22.00%" "78.00%"

Example 2: Format Percentages in a Data Frame Column

The following code shows how to format numbers as percentages in a column of a data frame:

library(scales)

#create data frame

```
df = data.frame(region = c('A', 'B', 'C', 'D'),
growth = c(.3, .7, .14, .18))

#view data frame
df
```

region growth
1 A 0.30
2 B 0.70
3 C 0.14
4 D 0.18

```
#format numbers as percentages in growth column
df$growth <- percent(df$growth, accuracy=1)

#view updated data frame
df
```

region growth
1 A 30%
2 B 70%
3 C 14%
4 D 18%

Example 3: Format Percentages in Multiple Data Frame Columns

The following code shows how to format numbers as percentages in multiple columns of a data frame:

library(scales)

```
#create data frame
df = data.frame(region = c('A', 'B', 'C', 'D'),
growth = c(.3, .7, .14, .18),
trend = c(.04, .09, .22, .25))

#view data frame
df
```

region growth trend
1 A 0.30 0.04
2 B 0.70 0.09

3 C 0.14 0.22
4 D 0.18 0.25

#format numbers as percentages in growth and trend columns
df <- sapply(df, function(x) percent(x, accuracy=1))

#view updated data frame
df

region growth trend
1 A 30% 4%
2 B 70% 9%
3 C 14% 22%
4 D 18% 25%

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