

How to Easily Add an Empty Column to a Data Frame in R

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To add an empty column to a data frame in R, you can use the `add_column()` function from the tidyverse library. This function allows you to add a column to a data frame with a given name and a default value, such as NA for an empty column. This is a useful way to add additional columns to a data frame in order to store additional information. Additionally, you can use the `mutate()` function from the same library to assign values to the empty column.

You can use the following basic syntax to add one or more empty columns to a data frame in R:

#add one empty column called 'column1' to data frame

```
df <- NA
```

```
#add several empty columns to data frame
```

```
empty_cols <- c('column1', 'column2', 'column3')
```

```
df <- NA
```

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

Example 1: Add One Empty Column to Data Frame

The following code shows how to add one empty column to a data frame in R:

```
#create data frame
```

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

```
points=c(99, 90, 84, 96),
```

```
assists=c(22, 19, 16, 20))
```

```
#view data frame
```

```
df
```

```
team points assists
```

```
1 Mavs 99 22
```

```
2 Mavs 90 19
```

```
3 Spurs 84 16
```

```
4 Nets 96 20
```

```
#add new empty column
```

```
df <- NA
```

```
#view updated data frame
```

```
df
```

```
team points assists blocks
1 Mavs 99 22 NA
2 Mavs 90 19 NA
3 Spurs 84 16 NA
4 Nets 96 20 NA
```

Example 2: Add Multiple Empty Columns to Data Frame

The following code shows how to add multiple empty columns to a data frame in R:

```
#create data frame
df <- data.frame(team=c('Mavs', 'Mavs', 'Spurs', 'Nets'),
points=c(99, 90, 84, 96),
assists=c(22, 19, 16, 20))
```

```
#view data frame
df
```

```
team points assists
1 Mavs 99 22
2 Mavs 90 19
3 Spurs 84 16
4 Nets 96 20
```

```
#define names of empty columns to add
empty_cols <- c('blocks', 'rebounds', 'steals')
```

```
#add multiple empty columns
df <- NA
```

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

```
team points assists blocks rebounds steals
1 Mavs 99 22 NA NA NA
2 Mavs 90 19 NA NA NA
3 Spurs 84 16 NA NA NA
4 Nets 96 20 NA NA NA
```

The following tutorials explain how to create other empty objects in R: