

# How can values be replaced in a Pandas DataFrame? Can you provide some examples?

Authored by  
**stats writer**

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## RECOMMENDED CITATION

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Values in a Pandas DataFrame can be replaced by using the "replace()" function. This function allows for the replacement of specific values with other values, either by specifying a single value or by using a dictionary to map multiple values. For example, if we have a DataFrame with the columns "Name", "Age", and "Gender", we can replace the value "Male" in the "Gender" column with "M" using the code: `df.replace("Male", "M")`. We can also use a dictionary to replace multiple values, such as replacing "Male" with "M" and "Female" with "F" using the code: `df.replace({"Male": "M", "Female": "F"})`. This function can be useful for cleaning and formatting data in a DataFrame.

## Replace Values in a Pandas DataFrame (With Examples)

Often you may want to replace the values in one or more columns of a pandas DataFrame.

Fortunately this is easy to do using the `.replace()` function.

This tutorial provides several examples of how to use this function in practice on the following DataFrame:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'division':,
'rebounds': })

#view DataFrame
print(df)
```

## team division rebounds

0 A E 11

1 A W 8

2 B E 7

3 B E 6

4 B W 6

5 C W 5

6 C E 12

### Example 1: Replace a Single Value in an Entire DataFrame

The following code shows how to replace a single value in an entire pandas DataFrame:

```
#replace 'E' with 'East'
```

```
df = df.replace('E')
```

```
#view DataFrame
```

```
print(df)
```

## team division rebounds

0 A East 11

1 A W 8

2 B East 7

3 B East 6

**4 B W 6**

**5 C W 5**

**6 C East 12**

### Example 2: Replace Multiple Values in an Entire DataFrame

The following code shows how to replace multiple values in an entire pandas DataFrame:

```
#replace 'E' with 'East' and 'W' with 'West'
```

```
df = df.replace(,)
```

```
#view DataFrame
```

```
print(df)
```

```
team division rebounds
```

```
0 A East 11
```

```
1 A West 8
```

```
2 B East 7
```

```
3 B East 6
```

```
4 B West 6
```

```
5 C West 5
```

```
6 C East 12
```

### Example 3: Replace a Single Value in a Single Column

The following code shows how to replace a single value in a single column:

```
#replace 6 with 0 in rebounds column
```

```
df = df.replace(6, 0)
```

```
#view DataFrame
```

```
print(df)
```

```
team division rebounds
```

```
0 A E 11
```

```
1 A W 8
```

```
2 B E 7
```

```
3 B E 0
```

```
4 B W 0
```

```
5 C W 5
```

```
6 C E 12
```

Example 4: Replace Multiple Values in a Single Column

The following code shows how to replace multiple values in a single column:

```
#replace 6, 11, and 8 with 0, 1 and 2 in rebounds column
```

```
df = df.replace(, )
```

```
#view DataFrame
```

```
print(df)
```

```
team division rebounds
```

```
0 A E 1
```

```
1 A W 2
```

```
2 B E 7
```

```
3 B E 0
```

```
4 B W 0
```

```
5 C W 5
```

```
6 C E 12
```

## How to Replace NaN Values with Zeros in Pandas