

# How can I set a specific value for a cell in a Pandas DataFrame?

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## RECOMMENDED CITATION

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Setting a specific value for a cell in a Pandas DataFrame involves accessing the desired cell using its index or column label and assigning the desired value to it. This can be achieved by using the `.loc` or `.iloc` methods, depending on whether the index or position of the cell is known. Alternatively, the `.at` or `.iat` methods can be used for faster performance when setting a single value. It is important to note that any changes made to a Pandas DataFrame are reflected in the original DataFrame, unless explicitly stated otherwise.

## Set Value for a Specific Cell in Pandas DataFrame

You can use the following basic syntax to set the value for a specific cell in a pandas DataFrame:

```
#set value at row index 0 and column 'col_name' to be  
99  
df.at = 99
```

The following examples show how to use this syntax in practice with the following pandas DataFrame:

```
import pandas as pd  
  
#create DataFrame  
df = pd.DataFrame({'points': ,  
'assists': ,  
'rebounds': })  
  
#view DataFrame
```

```
df
```

```
points assists rebounds
```

```
0 25 5 11
```

```
1 12 7 8
```

```
2 15 7 10
```

```
3 14 9 6
```

```
4 19 12 6
```

```
5 23 9 5
```

```
6 25 9 9
```

```
7 29 4 12
```

Example 1: Set Value of One Cell in Pandas

The following code shows how to set the value in the 3rd index position of the 'points' column to 99:

```
#set value in 3rd index position and 'points' column to  
be 99
```

```
df.at = 99
```

```
#view updated DataFrame
```

```
df
```

```
points assists rebounds
```

```
0 25 5 11
```

```
1 12 7 8
2 15 7 10
3 99 9 6
4 19 12 6
5 23 9 5
6 25 9 9
7 29 4 12
```

Notice that the value in the 3rd index position of the 'points' column was changed and all other values in the DataFrame remained the same.

Example 2: Set Value of Multiple Cells in Pandas

The following code shows how to set the value of multiple cells in a range simultaneously:

```
#set values in index positions 0 to 3 in 'points' column
to be 99
df.at = 99
```

```
#view updated DataFrame
```

```
points assists rebounds
0 99 5 11
1 99 7 8
```

2 99 7 10

3 99 9 6

4 19 12 6

5 23 9 5

6 25 9 9

7 29 4 12

### Example 3: Set Values Conditionally in Pandas

The following code shows how to set the values in the 'rebounds' column to be 99 *only if* the value in the points column is greater than 20:

```
#set values in 'rebounds' column to be 99 if value in  
points column is greater than 20  
df.loc>20, ] = 99
```

```
#view updated DataFrame  
df points assists rebounds  
0 25 5 99  
1 12 7 8  
2 15 7 10  
3 14 9 6  
4 19 12 6  
5 23 9 99
```

**6 25 9 99**

**7 29 4 99**

**Notice that each value in the rebounds column was changed to 99 if the value in the points column was greater than 20.**

**All other values remained the same.**

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