How to change the order of DataFrame columns?

Asked 10 years, 1 month ago Modified 9 months ago Viewed 2.0m times

I have the following DataFrame (df):

1462

```
import numpy as np
import pandas as pd
df = pd.DataFrame(np.random.rand(10, 5))
```





I add more column(s) by assignment:

```
df['mean'] = df.mean(1)
```

How can I move the column mean to the front, i.e. set it as first column leaving the order of the other columns untouched?

```
python pandas dataframe
```

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edited Jan 20, 2019 at 13:47

1,032 1 11 24

asked Oct 30, 2012 at 22:22



- 3 possible duplicate of Python Pandas Re-ordering columns in a dataframe based on column name Laurence Jan 4, 2013 at 11:31
- 2 For a generalized NumPy-based solution see How to move a column in a pandas dataframe, assumes one column level only, i.e. no MultiIndex . jpp Oct 3, 2018 at 8:31 🧪
- 1 After searching enough, I got this best link for columns re-arranging multiple logics in pretty simple terms [columns re-arrange logic for pandas] [datasciencemadesimple.com/... - ravibeli Jun 6, 2020 at 13:49
- 1 In the end, the point is: df = df[list with newly arranged column names]; D starriet Apr 12 at 0:40

41 Answers

Sorted by: Highest score (default)

\$

2 Next



One easy way would be to reassign the dataframe with a list of the columns, rearranged as needed.

1283 This is what you have now:



```
In [6]: df
Out[6]:
                                 3
0 0.445598 0.173835 0.343415 0.682252 0.582616 0.445543
1 0.881592 0.696942 0.702232 0.696724 0.373551 0.670208
2 0.662527 0.955193 0.131016 0.609548 0.804694 0.632596
3 0.260919 0.783467 0.593433 0.033426 0.512019 0.436653
4 0.131842 0.799367 0.182828 0.683330 0.019485 0.363371
5 0.498784 0.873495 0.383811 0.699289 0.480447 0.587165
6 0.388771 0.395757 0.745237 0.628406 0.784473 0.588529
7 0.147986 0.459451 0.310961 0.706435 0.100914 0.345149
```

```
8 \quad 0.394947 \quad 0.863494 \quad 0.585030 \quad 0.565944 \quad 0.356561 \quad 0.553195
9 0.689260 0.865243 0.136481 0.386582 0.730399 0.561593
In [7]: cols = df.columns.tolist()
In [8]: cols
Out[8]: [OL, 1L, 2L, 3L, 4L, 'mean']
```

Rearrange cols in any way you want. This is how I moved the last element to the first position:

```
In [12]: cols = cols[-1:] + cols[:-1]
In [13]: cols
Out[13]: ['mean', OL, 1L, 2L, 3L, 4L]
```

Then reorder the dataframe like this:

```
In [16]: df = df[cols] # OR df = df.ix[:, cols]
In [17]: df
Out[17]:
                                 2
                         1
0 0.445543 0.445598 0.173835 0.343415 0.682252 0.582616
1 0.670208 0.881592 0.696942 0.702232 0.696724 0.373551
2 0.632596 0.662527 0.955193 0.131016 0.609548 0.804694
3 0.436653 0.260919 0.783467 0.593433 0.033426 0.512019
4 0.363371 0.131842 0.799367 0.182828 0.683330 0.019485
5 0.587165 0.498784 0.873495 0.383811 0.699289 0.480447
6 0.588529 0.388771 0.395757 0.745237 0.628406 0.784473
7 0.345149 0.147986 0.459451 0.310961 0.706435 0.100914
8 0.553195 0.394947 0.863494 0.585030 0.565944 0.356561
9 0.561593 0.689260 0.865243 0.136481 0.386582 0.730399
```

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edited Oct 31, 2012 at 15:51

answered Oct 30, 2012 at 22:38



44.3k 7 35 37

37 incase you get "cannot concatenate 'str' and 'list' objects" make sure you [] the str value in cols: cols = [cols[7]] + cols[:7] + cols[8:] – moeabdol Jan 9, 2015 at 16:59 🧪

- 4 @FooBar That's not a set union it's a concatenation of two ordered lists. Aman Oct 6, 2016 at 22:08
- 3 @Aman I'm just pointing out that your code is deprecated. Your handling of your post is at your discretion. FooBar Oct 7, 2016 at 6:13
- 2 @FooBar, the type of cols is list; it even allows duplicates (which will be discarded when used on the dataframe). You are thinking of Index objects. alexis Feb 28, 2017 at 15:19
- 17 This implies copying ALL the data, which is highly inefficient. I wished pandas had a way to do that without creating a copy. Konstantin Nov 27, 2017 at 8:48

You could also do something like this:

779

df = df[['mean', '0', '1', '2', '3']]



You can get the list of columns with:

(1)

cols = list(df.columns.values)

The output will produce:

```
['0', '1', '2', '3', 'mean']
```

...which is then easy to rearrange manually before dropping it into the first function

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```
answered May 19, 2014 at 15:20
   freddygv
```

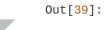
8,538 1 14 9

- 10 You could also get the list of columns with list(df.columns) Jim Oct 9, 2015 at 22:14 /
- 28 or df.columns.tolist() Jim Oct 9, 2015 at 22:22
- 7 I don't think this is a good answer as it does not provide code how to change column order of any dataframe. Say i import a csv file as pandas pd as pd.read_csv(). How can your answer be used to change the column order? - Robvh Jul 25, 2019 at 8:22
- 6 @Robvh, the second line of code explains how to get the existing column names. From there, you can copy the output into the first line of code, and re-arrange as desired. The only other piece of information to know is that without a header, the default column names are integers, not strings. - daniel brandstetter Sep 9, 2019 at 23:27



Just assign the column names in the order you want them:

```
395
```



In [39]: df



1 2 3 0 0.172742 0.915661 0.043387 0.712833 0.190717

9 0.848996 0.310562 0.140873 0.304561 0.417808

1 0.128186 0.424771 0.590779 0.771080 0.617472 2 0.125709 0.085894 0.989798 0.829491 0.155563 1 3 0.742578 0.104061 0.299708 0.616751 0.951802 4 0.721118 0.528156 0.421360 0.105886 0.322311 5 0.900878 0.082047 0.224656 0.195162 0.736652 6 0.897832 0.558108 0.318016 0.586563 0.507564 1 7 0.027178 0.375183 0.930248 0.921786 0.337060 1 8 0.763028 0.182905 0.931756 0.110675 0.423398 1

In [40]: df = df[['mean', 4,3,2,1]]

Now, 'mean' column comes out in the front:

```
In [41]: df
Out[41]:
             4
                     3
  1 0.190717 0.712833 0.043387 0.915661
    1 0.617472 0.771080 0.590779 0.424771
    1 0.155563 0.829491 0.989798 0.085894
    1 0.951802 0.616751 0.299708 0.104061
    1 0.322311 0.105886 0.421360 0.528156
    1 0.736652 0.195162 0.224656 0.082047
   1 0.507564 0.586563 0.318016 0.558108
    1 0.337060 0.921786 0.930248 0.375183
    1 0.423398 0.110675 0.931756 0.182905
    1 0.417808 0.304561 0.140873 0.310562
```

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answered Apr 28, 2015 at 14:19 fixxxer **15.2k** 15 58 76

- 44 @NicholasMorley This isn't the best answer if you have, say, 1000 columns in your df. AGS Jul 21, 2017 at 20:19
- 2 it doesn't seem like you're assigning to <df>.columns like you claim initially 3pitt Feb 19, 2018 at 19:09
- 15 This is the best answer for a small number of columns. RyanC Apr 19, 2018 at 23:12
- 7 This is just a copy of @freddygv 's earlier answer. That one should be the accepted answer, not this. James Hirschorn May 4, 2018 at 21:40



For pandas >= 1.3 (Edited in 2022):



df.insert(0, 'mean', df.pop('mean'))



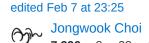
How about (for Pandas < 1.3, the original answer)



df.insert(0, 'mean', df['mean'])

https://pandas.pydata.org/pandas-docs/stable/user_guide/dsintro.html#column-selection-addition-deletion

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answered Nov 9, 2012 at 21:04



Wes McKinney
97.1k 30 140 108

7,396 3 22 18

- 73 Could this be a future feature add to pandas ? something like df.move(0, df.mean)? jason May 27, 2014 at 1:23
- 8 Beautiful. And it happens in place, too. cucu8 Aug 2, 2018 at 10:29
- 7 This is a scalable solution since other solutions are manually typing column names. CKM Aug 19, 2019 at 17:00
- 15 This works for the OP's question, when creating a new column, but it doesn't for moving a column; attempt to move results in *** ValueError: cannot insert mean, already exists SpinUp __ A Davis Feb 24, 2020 at 21:07
- 9 This is a clean solution. The modern API method is: df['mean']) Sumax Jul 29, 2020 at 5:22



In your case,

188

df = df.reindex(columns=['mean', 0, 1, 2, 3, 4])



will do exactly what you want.



In my case (general form):

```
df = df.reindex(columns=sorted(df.columns))
df = df.reindex(columns=(['opened'] + list([a for a in df.columns if a !=
'opened']) ))
```

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edited Jul 8, 2019 at 23:01

Mr_and_Mrs_D
30.7k 37 174 353

answered Aug 30, 2016 at 21:57

Alvaro Silvino

9,131 11 50 80

2 I tried to set copy=False but it looks like reindex_axis still creates a copy. - Konstantin Nov 27, 2017 at 9:10

1 @Konstantin can you create another question about this issue? It would be better to have more context – Alvaro Silvino Nov 27, 2017 at 14:11

```
import numpy as np
       import pandas as pd
      df = pd.DataFrame()
       column_names = ['x','y','z','mean']
       for col in column_names:
           df[col] = np.random.randint(0,100, size=10000)
     You can try out the following solutions:
(1)
     Solution 1:
       df = df[ ['mean'] + [ col for col in df.columns if col != 'mean' ] ]
     Solution 2:
       df = df[['mean', 'x', 'y', 'z']]
     Solution 3:
       col = df.pop("mean")
       df = df.insert(0, col.name, col)
     Solution 4:
       df.set_index(df.columns[-1], inplace=True)
       df.reset_index(inplace=True)
     Solution 5:
       cols = list(df)
       cols = [cols[-1]] + cols[:-1]
       df = df[cols]
     solution 6:
       order = [1,2,3,0] # setting column's order
       df = df[[df.columns[i] for i in order]]
     Time Comparison:
```

Solution 1:

Solution 2:

CPU times: user 933 μs, sys: 0 ns, total: 933 μs Wall time: 800 μs

Solution 3:

CPU times: user 0 ns, sys: 1.35 ms, total: 1.35 ms Wall time: 1.08 ms

Solution 4:

CPU times: user 1.23 ms, sys: 45 μ s, total: 1.27 ms Wall time: 986 μ s

Solution 5:

CPU times: user 1.09 ms, sys: 19 μ s, total: 1.11 ms Wall time: 949 μ s

Solution 6:

CPU times: user 955 μ s, sys: 34 μ s, total: 989 μ s Wall time: 859 μ s

Share Edit Follow edited Nov 9, 2019 at 6:57

answered Nov 9, 2019 at 6:24



Pygirl

12.6k 4 28 41

- 2 solution 1 is what I needed as I have too many columns(53), thanks ratnesh Apr 1, 2020 at 13:15 /
- 2 @Pygirl wich value shows real comsumed time? (user, sys, total or wall time) sergzemsk Apr 10, 2020 at 21:46
- 2 This is for me the best answer for the problem. So many solutions (including one that I needed) and simple approach. Thanks! Gustavo Rottgering May 15, 2020 at 0:36
- 2 **Solution 6** (no list comprehension): df = df.iloc[:, [1, 2, 3, 0]] Dmitriy Work May 20, 2020 at 16:55
- 2 @sergzemsk: stackoverflow.com/a/55702033/6660373. I compare by wall time. Pygirl Sep 29, 2020 at 4:58



You need to create a new list of your columns in the desired order, then use df = df[cols] to rearrange the columns in this new order.



cols = ['mean'] + [col for col in df if col != 'mean']
df = df[cols]



You can also use a more general approach. In this example, the last column (indicated by -1) is inserted as the first column.

43

```
cols = [df.columns[-1]] + [col for col in df if col != df.columns[-1]]
df = df[cols]
```

You can also use this approach for reordering columns in a desired order if they are present in the DataFrame.

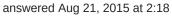
```
inserted_cols = ['a', 'b', 'c']
cols = ([col for col in inserted_cols if col in df]
```

```
+ [col for col in df if col not in inserted_cols])
df = df[cols]
```

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edited Nov 19, 2019 at 13:16







101k 28 192 186



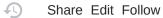
Suppose you have df with columns A B C.

The most simple way is: 66



```
df = df.reindex(['B','C','A'], axis=1)
```





edited Jan 15, 2021 at 15:35

answered May 30, 2020 at 5:12



53.3k 16 155 138



1,074 8 11

1 Note that this will only return a reindexed data frame - not change the df instance which is being used. If you want to use the reindexed df, simply use the returned value: df2 = df.reindex(['B', 'C', 'A'], axis=1). Thanks for this answer! – Andreas Forslöw Dec 8, 2020 at 9:13 ▶



If your column names are too-long-to-type then you could specify the new order through a list of integers with the positions:

64 Data:



```
2
                                   3
0 0.397312 0.361846 0.719802 0.575223 0.449205 0.500678
1 0.287256 0.522337 0.992154 0.584221 0.042739 0.485741
2 0.884812 0.464172 0.149296 0.167698 0.793634 0.491923
3 0.656891 0.500179 0.046006 0.862769 0.651065 0.543382
```

4 0.673702 0.223489 0.438760 0.468954 0.308509 0.422683 5 0.764020 0.093050 0.100932 0.572475 0.416471 0.389390 6 0.259181 0.248186 0.626101 0.556980 0.559413 0.449972 7 0.400591 0.075461 0.096072 0.308755 0.157078 0.207592 8 0.639745 0.368987 0.340573 0.997547 0.011892 0.471749 9 0.050582 0.714160 0.168839 0.899230 0.359690 0.438500

Generic example:

```
new_order = [3, 2, 1, 4, 5, 0]
print(df[df.columns[new_order]])
```

```
mean
0 \quad 0.575223 \quad 0.719802 \quad 0.361846 \quad 0.449205 \quad 0.500678 \quad 0.397312
1 0.584221 0.992154 0.522337 0.042739 0.485741 0.287256
2 0.167698 0.149296 0.464172 0.793634 0.491923 0.884812
3 0.862769 0.046006 0.500179 0.651065 0.543382 0.656891
4 0.468954 0.438760 0.223489 0.308509 0.422683 0.673702
5 0.572475 0.100932 0.093050 0.416471 0.389390 0.764020
6 0.556980 0.626101 0.248186 0.559413 0.449972 0.259181
7 0.308755 0.096072 0.075461 0.157078 0.207592 0.400591
8 0.997547 0.340573 0.368987 0.011892 0.471749 0.639745
9 0.899230 0.168839 0.714160 0.359690 0.438500 0.050582
```

Although it might seem like I'm just explicitly typing the column names in a different order, the fact that there's a column 'mean' should make it clear that new_order relates to actual positions and not column names.

For the specific case of OP's question:

```
new_order = [-1,0,1,2,3,4]
df = df[df.columns[new_order]]
print(df)
                  0
                            1
                                    2
                                              3
       mean
0 0.500678 0.397312 0.361846 0.719802 0.575223 0.449205
1 0.485741 0.287256 0.522337 0.992154 0.584221 0.042739
2 0.491923 0.884812 0.464172 0.149296 0.167698 0.793634
3 0.543382 0.656891 0.500179 0.046006 0.862769 0.651065
4 \quad 0.422683 \quad 0.673702 \quad 0.223489 \quad 0.438760 \quad 0.468954 \quad 0.308509
5 0.389390 0.764020 0.093050 0.100932 0.572475 0.416471
 6 \quad 0.449972 \quad 0.259181 \quad 0.248186 \quad 0.626101 \quad 0.556980 \quad 0.559413 \\
7 0.207592 0.400591 0.075461 0.096072 0.308755 0.157078
8 0.471749 0.639745 0.368987 0.340573 0.997547 0.011892
9 0.438500 0.050582 0.714160 0.168839 0.899230 0.359690
```

The main problem with this approach is that calling the same code multiple times will create different results each time, so one needs to be careful:)

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edited Feb 9, 2021 at 14:44

answered Aug 20, 2018 at 17:35





This question has been answered before but reindex_axis is deprecated now so I would suggest to use:

58 df = df.reindex(sorted(df.columns), axis=1)



For those who want to specify the order they want instead of just sorting them, here's the solution spelled out:



```
df = df.reindex(['the','order','you','want'], axis=1)
```

Now, how you want to sort the list of column names is really not a pandas question, that's a Python list manipulation question. There are many ways of doing that, and I think this answer has a very neat way of doing it.

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edited Jan 15, 2021 at 15:40 Asclepius

53.3k 16 155 138

answered Jan 4, 2013 at 6:04

dmvianna

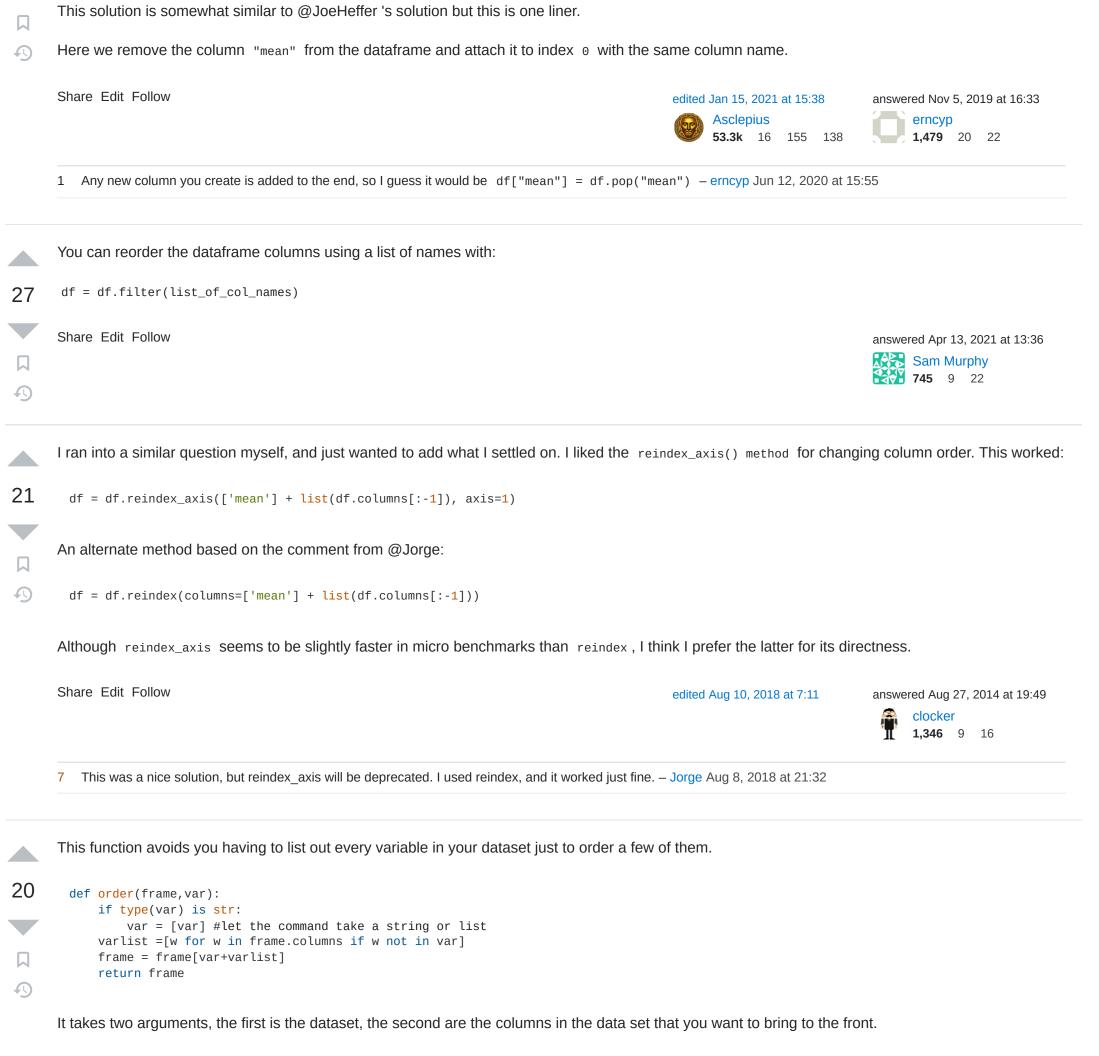
14.4k 18 78 105

- 21 No, that's different. There the user wants to sort all columns by name. Here they want to move one column to the first column while leaving the order of the other columns untouched. - smci Apr 17, 2013 at 13:06
- 2 What if you don't want them sorted? Chankey Pathak Jun 8, 2017 at 10:16
- 1 @mins I hope the edit above is clear enough. :) dmvianna Dec 16, 2020 at 0:14



I think this is a slightly neater solution:

df.insert(0, 'mean', df.pop("mean"))



So in my case I have a data set called Frame with variables A1, A2, B1, B2, Total and Date. If I want to bring Total to the front then all I have to do is:

```
frame = order(frame,['Total'])
```

If I want to bring Total and Date to the front then I do:

```
frame = order(frame,['Total','Date'])
```

EDIT:

Another useful way to use this is, if you have an unfamiliar table and you're looking with variables with a particular term in them, like VAR1, VAR2,... you may execute something like:

```
frame = order(frame,[v for v in frame.columns if "VAR" in v])
```

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edited Jul 23, 2018 at 23:10

answered Jul 29, 2014 at 19:30



seeiespi

3,408 2 32 36



Simply do,

df = df[['mean'] + df.columns[:-1].tolist()]



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edited Jul 12, 2017 at 8:23

answered Apr 28, 2015 at 9:50



Napitupulu Jon

7,513 2 21 23



- A variation of this worked well for me. With an existing list, headers, that was used to create a dict that was then used to create the DataFrame, I called df.reindex(columns=headers). The only problem I ran into was I had already called df.set_index('some header name', inplace=True), so when the reindex was done, it added another column named some header name since the original column was now the index. As for the syntax specified above, ['mean'] + df.columns in the python interpreter gives me Index(u'meanAddress', u'meanCity', u'meanFirst Name'... hlongmore Jun 20, 2017 at 19:41 /
- 1 @hlongmore: I don't know your prior code is, but the edit should work (using 0.19.2) Napitupulu Jon Jun 21, 2017 at 0:56



Here's a way to move one existing column that will modify the existing dataframe in place.

18

```
my_column = df.pop('column name')
df.insert(3, my_column.name, my_column) # Is in-place
```



1

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edited Aug 24, 2021 at 22:45



Asclepius 53.3k 16 155 138

answered Jan 4, 2018 at 13:25



Joe Heffer **605** 7 9



You could do the following (borrowing parts from Aman's answer):

12

```
cols = df.columns.tolist()
cols.insert(0, cols.pop(-1))

cols
>>>['mean', OL, 1L, 2L, 3L, 4L]
```

df = df[cols]



Just type the column name you want to change, and set the index for the new location.

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answered May 6, 2016 at 11:39



11

Moving any column to any position:

answered Feb 27, 2018 at 14:05



I wanted to bring two columns in front from a dataframe where I do not know exactly the names of all columns, because they are generated from a pivot statement before. So, if you are in the same situation: To bring columns in front that you know the name of and then let them follow by "all the other columns", I came up with the following general solution:



```
df = df.reindex_axis(['Col1','Col2'] + list(df.columns.drop(['Col1','Col2'])),
axis=1)
```

43

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answered Jul 27, 2017 at 9:21

Here is a very simple answer to this(only one line).

6 You can do that after you added the 'n' column into your df as follows.

```
import numpy as np
     import pandas as pd
df = pd.DataFrame(np.random.rand(10, 5))
df['mean'] = df.mean(1)
                              2
     0 0.929616 0.316376 0.183919 0.204560 0.567725
                                                  0.440439
     1 0.595545 0.964515 0.653177 0.748907 0.653570 0.723143
     2 0.747715 0.961307 0.008388 0.106444 0.298704 0.424512
       0.656411 0.809813 0.872176 0.964648 0.723685
                                                   0.805347
       0.642475 0.717454 0.467599 0.325585 0.439645
                                                   0.518551
               0.994015 0.676874 0.790823 0.170914
       0.729689
                                                   0.672463
       0.026849
                0.800370 0.903723 0.024676 0.491747 0.449473
       0.526255 0.596366 0.051958 0.895090 0.728266 0.559587
     8 0.818350 0.500223 0.810189 0.095969 0.218950 0.488736
     9 0.258719 0.468106 0.459373 0.709510 0.178053 0.414752
     ### here you can add below line and it should work
     # Don't forget the two (()) 'brackets' around columns names.Otherwise, it'll
     give you an error.
     df = df[list(('mean', 0, 1, 2, 3, 4))]
                             1
     0 0.440439 0.929616 0.316376 0.183919 0.204560 0.567725
     1 0.723143 0.595545 0.964515 0.653177 0.748907 0.653570
       0.723685
               0.642475 0.717454 0.467599 0.325585
       0.518551
                                                  0.439645
        0.672463
                0.729689 0.994015 0.676874 0.790823
                                                   0.170914
        0.449473
                0.026849 0.800370 0.903723 0.024676
       0.559587
                8 0.488736 0.818350 0.500223 0.810189 0.095969 0.218950
```

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answered Jun 18, 2020 at 19:30



You can use a set which is an *unordered collection of unique elements* to do keep the "order of the other columns untouched":

 $6 \qquad \text{other_columns} = \underset{\text{list(set(df.columns).difference(["mean"])) } \#[0, 1, 2, 3, 4] }$

9 0.414752 0.258719 0.468106 0.459373 0.709510 0.178053

Then, you can use a lambda to move a specific column to the front by:

```
In [1]: import numpy as np
In [2]: import pandas as pd
In [3]: df = pd.DataFrame(np.random.rand(10, 5))
In [4]: df["mean"] = df.mean(1)
In [5]: move_col_to_front = lambda df, col:
```

```
df[[col]+list(set(df.columns).difference([col]))]
 In [6]: move_col_to_front(df, "mean")
 Out[6]:
                                      2
                     0
                              1
                                                 3
 0 0.697253 0.600377 0.464852 0.938360 0.945293 0.537384
 1 0.609213 0.703387 0.096176 0.971407 0.955666 0.319429
 2 0.561261 0.791842 0.302573 0.662365 0.728368 0.321158
 3 0.518720 0.710443 0.504060 0.663423 0.208756 0.506916
 4 0.616316 0.665932 0.794385 0.163000 0.664265 0.793995
 5 0.519757 0.585462 0.653995 0.338893 0.714782 0.305654
  6 \quad 0.532584 \quad 0.434472 \quad 0.283501 \quad 0.633156 \quad 0.317520 \quad 0.994271 
 7 0.640571 0.732680 0.187151 0.937983 0.921097 0.423945
 8 0.562447 0.790987 0.200080 0.317812 0.641340 0.862018
 9 0.563092 0.811533 0.662709 0.396048 0.596528 0.348642
 In [7]: move_col_to_front(df, 2)
 Out[7]:
 0 \quad 0.938360 \quad 0.600377 \quad 0.464852 \quad 0.945293 \quad 0.537384 \quad 0.697253
 1 0.971407 0.703387 0.096176 0.955666 0.319429 0.609213
 2 0.662365 0.791842 0.302573 0.728368 0.321158 0.561261
 3 0.663423 0.710443 0.504060 0.208756 0.506916 0.518720
 4 0.163000 0.665932 0.794385 0.664265 0.793995 0.616316
 5\quad 0.338893\quad 0.585462\quad 0.653995\quad 0.714782\quad 0.305654\quad 0.519757
  6 \quad 0.633156 \quad 0.434472 \quad 0.283501 \quad 0.317520 \quad 0.994271 \quad 0.532584 \\
 7 0.937983 0.732680 0.187151 0.921097 0.423945 0.640571
 8 0.317812 0.790987 0.200080 0.641340 0.862018 0.562447
 9 0.396048 0.811533 0.662709 0.596528 0.348642 0.563092
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                                                                                      edited Jul 4, 2020 at 10:34
                                                                                                                  answered Jul 4, 2020 at 10:19
                                                                                                                      Mathia Haure-Touzé
                                                                                                                        301 2 6
Just flipping helps often.
 df[df.columns[::-1]]
Or just shuffle for a look.
 import random
 cols = list(df.columns)
 random.shuffle(cols)
 df[cols]
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                                                                                                                  answered Apr 10, 2020 at 11:39
                                                                                      edited Apr 10, 2020 at 11:45
                                                                                                                       4,787 4 43 47
You can use reindex which can be used for both axis:
                                 2
                       1
 # 0 0.943825 0.202490 0.071908 0.452985 0.678397 0.469921
 # 1 0.745569 0.103029 0.268984 0.663710 0.037813 0.363821
 # 2 0.693016 0.621525 0.031589 0.956703 0.118434 0.484254
 # 3 0.284922 0.527293 0.791596 0.243768 0.629102 0.495336
 # 4 0.354870 0.113014 0.326395 0.656415 0.172445 0.324628
```

5

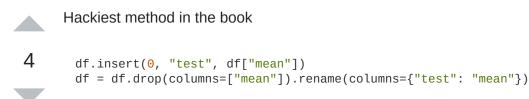
```
0.815584 0.532382
                      0.195437 0.829670 0.019001
# 6 0.944587 0.068690 0.811771 0.006846 0.698785
    0.595077 0.437571 0.023520 0.772187 0.862554
    0.700771 0.413958 0.097996 0.355228 0.656919
# 9 0.263138 0.906283 0.121386 0.624336 0.859904 0.555009
df.reindex(['mean', *range(5)], axis=1)
#
                    0
        mean
                             1
                                      2
# 0 0.469921 0.943825 0.202490 0.071908 0.452985 0.678397
    0.363821 0.745569
                      0.103029 0.268984 0.663710 0.037813
    0.484254 0.693016 0.621525 0.031589 0.956703 0.118434
    0.495336  0.284922  0.527293  0.791596  0.243768
    0.324628 0.354870 0.113014 0.326395 0.656415 0.172445
    0.478415 0.815584 0.532382 0.195437 0.829670
                                                  0.019001
    0.506136  0.944587  0.068690  0.811771  0.006846  0.698785
# 7 0.538182 0.595077 0.437571 0.023520 0.772187 0.862554
# 8 0.444974 0.700771 0.413958 0.097996 0.355228 0.656919
# 9 0.555009 0.263138 0.906283 0.121386 0.624336 0.859904
```

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answered Dec 18, 2017 at 15:24



6,762 6 42 66



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edited Jan 14, 2021 at 22:19



53.3k 16 155 138

answered Apr 11, 2019 at 17:58



Kaustubh J **672** 8 9

A pretty straightforward solution that worked for me is to use .reindex on df.columns:

```
df = df[df.columns.reindex(['mean', 0, 1, 2, 3, 4])[0]]
```

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edited Jan 15, 2021 at 15:43



Asclepius

53.3k 16 155 138

answered May 8, 2020 at 15:42



1

1

Here is a function to do this for any number of columns.

```
3
       def mean_first(df):
           ncols = df.shape[1]
                                     # Get the number of columns
           index = list(range(ncols)) # Create an index to reorder the columns
           index.insert(0, ncols)
                                     # This puts the last column at the front
           return(df.assign(mean=df.mean(1)).iloc[:,index]) # new df with last column
       (mean) first
1
```

Share Edit Follow edited Feb 28, 2018 at 11:49



answered Jan 29, 2018 at 18:57

A simple approach is using set(), in particular when you have a long list of columns and do not want to handle them manually: 3 cols = list(set(df.columns.tolist()) - set(['mean'])) cols.insert(0, 'mean') df = df[cols] Share Edit Follow edited Jan 14, 2021 at 22:18 answered Sep 12, 2017 at 2:06 **(1)** Asclepius Shoresh **2,493** 1 16 9 **53.3k** 16 155 138 2 One caution: the order of columns goes away if you put it into set – pnv Mar 6, 2018 at 5:31 How about using τ ?

How about using T?

df = df.T.reindex(['mean', 0, 1, 2, 3, 4]).T

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edited Jan 15, 2021 at 15:43 answered Jun 26, 2016 at 23:46

Asclepius
53.3k 16 155 138

ZEE
188 1 11

I believe <u>@Aman's answer</u> is the best if you know the location of the other column.

If you don't know the location of mean, but only have its name, you cannot resort directly to cols = cols[-1:] + cols[:-1]. Following is the next-best thing I could come up with:

meanDf = pd.DataFrame(df.pop('mean'))
 # now df doesn't contain "mean" anymore. Order of join will move it to left or
 right:
 meanDf.join(df) # has mean as first column
 df.join(meanDf) # has mean as last column

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edited May 23, 2017 at 12:10

Community Bot

answered Mar 22, 2015 at 14:43

FooBar 15.2k 18 76 163