

**The results are in!** See what nearly 90,000 developers picked as their most loved, dreaded, and desired coding languages and more in the 2019 Developer Survey.

## Pandas rank by column value [duplicate]

[Ask Question](#)

17

★  
6

This question already has an answer here:

[pandas group by year, rank by sales column, in a dataframe with duplicate data](#) 1 answer

I have a dataframe that has auction IDs and bid prices. The dataframe is sorted by auction id (ascending) and bid price (descending):

Auction_ID	Bid_Price
123	9
123	7
123	6
123	2
124	3
124	2
124	1
125	1

I'd like to add a column called 'Auction\_Rank' that ranks auction id's by bid prices:

Auction_ID	Bid_Price	Auction_Rank
123	9	1
123	7	2
123	6	3
123	2	4
124	3	1
124	2	2
124	1	3
125	1	1

[pandas](#)[dataframe](#)[rank](#)

asked May 24 '15 at 16:33



[Christopher Jenkins](#)

195 2 4 14

marked as duplicate by

[EdChum](#)

[pandas](#)

May 24 '15 at 16:58

By using our site, you acknowledge that you have read and understand our [Cookie Policy](#), [Privacy Policy](#), and our [Terms of Service](#).

## 1 Answer



Here's one way to do it in Pandas-way

31



You could groupby on `Auction_ID` and take `rank()` on `Bid_Price` with `ascending=False`



```
In [68]: df['Auction_Rank'] = df.
['Bid_Price'].rank(ascending=False)
```

```
In [69]: df
```

```
Out[69]:
```

	Auction_ID	Bid_Price	Auction_Rank
0	123	9	9
1	123	7	7
2	123	6	6
3	123	2	2
4	124	3	3
5	124	2	2
6	124	1	1
7	125	1	1

answered May 24 '15 at 16:40



Zero

40.8k 8 76 93

- 1 What if you wanted to groupby only `Auction_ID==124` ? Similar to dplyr's filter function in R – [Gabriel Fair](#) May 2 '18 at 5:16

```
df['Auction_Rank'] =
df.loc[df['Auction_ID'] ==
124, :].groupby('Auction_ID')
['Bid_Price'].rank(ascending=False) – moto Aug 4 '18 at 14:14
```

What if need to rank except one particular column? – [Yog](#) Sep 7 '18 at 4:14