

## Announcing Stack Overflow Documentation

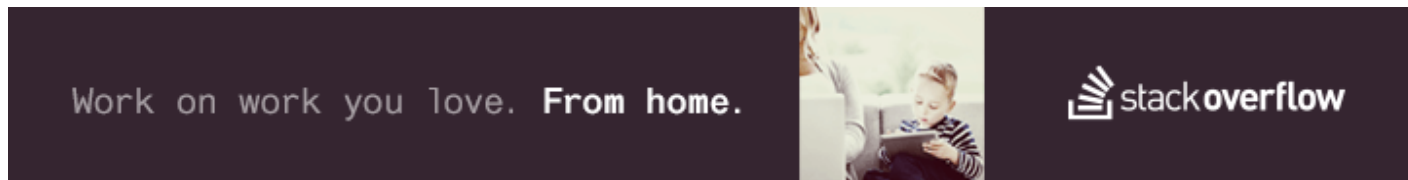
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## How to get the first column of a pandas DataFrame as a Series?



I tried:

```
x=pandas.DataFrame(...)  
s = x.take([0], axis=1)
```

And `s` gets a DataFrame, not a Series.

[python](#) [dataframe](#) [pandas](#) [series](#)

edited Mar 12 '13 at 13:34



[herfz](#)

**1,925** 1 11 26

asked Mar 12 '13 at 12:14



[Yariv](#)

**3,208** 4 20 48

### 3 Answers

```
>>> import pandas as pd
>>> df = pd.DataFrame({'x' : [1, 2, 3, 4], 'y' : [4, 5, 6, 7]})
>>> df
   x  y
0  1  4
1  2  5
2  3  6
3  4  7
>>> s = df.ix[:,0]
>>> type(s)
<class 'pandas.core.series.Series'>
>>>
```

answered Mar 12 '13 at 13:33



[herrfz](#)

1,925 1 11 26

How can I get column 'y' as a Series and column 'x' as its index? – [LWZ](#) Jan 6 '14 at 2:01

2 `df.set_index('x').y` – [herrfz](#) Jan 10 '14 at 23:44

Would be worth adding the `.iloc` alternative (as proposed by Jeff further down on this page), as it is not ambiguous in the presence of columns with numbers for names. – [sapo\\_cosmico](#) Apr 16 at 14:04

The answer was given in 2013; as far as I remember, `.iloc` wasn't there yet back then. In 2016, the correct answer is Jeff's (after all he's `pandas` God, mind you ;-)). I'm not sure what's SO's policy regarding update of answers due to API change; I'm honestly surprised by the number of votes for this answer, didn't think it was that useful to people... – [herrfz](#) Apr 18 at 16:06



Develop yourself.



You can get the first column as a Series by following code:

```
x[x.columns[0]]
```

answered Mar 12 '13 at 12:42



HYRY

42.1k 7 64 93

---

```
in 0.11
```

```
In [7]: df.iloc[:,0]
```

```
Out[7]:
```

```
0    1
```

```
1    2
```

```
2    3
```

```
3    4
```

```
Name: x, dtype: int64
```

answered Mar 12 '13 at 14:49



Jeff

45.5k 5 68 76