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## How to convert tuple of tuples to pandas.DataFrame in Python?

Ask Question



No offence, if the questions is too basic. Let me know if you need more



information.



I am looking for an idea to convert square-form tuple of tuples to pandas.DataFrame in a clean/efficient/pythonic way, i.e. from

```
s = ((1,0,0,0,),(2,3,0,0,),(4,5,6,0,),(7,8,9,10,))
```

to pandas.DataFrame like

```
3
1
  3
     0
         0
```

Naturally, this list can grow with more zeros appended in the uppertriangular (if we think of s as a tuple of rows).

DataFrame(t) seems to fail.



edited Nov 13 '15 at 19:57

asked Nov 13 '15 at 19:43



## 2 Answers



import pandas as pd

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```
# 0 1 2 3
# 0 1 0 0 0
# 1 2 3 0 0
# 2 4 5 6 0
# 3 7 8 9 10
```

print pd.DataFrame(list(s), column

```
# 1
        0
               0
     1
           0
#
 2
     2
        3
           0
               0
# 3
        5
     4
           6
               0
        8
           9
              10
```

answered Nov 13 '15 at 19:54



furas 45.1k 5 37 60



Pass a *list* of tuples instead of a tuple of tuples:

5



```
In [13]: pd.DataFrame(list(s))
Out[13]:
   0
             3
     1
  1
     0
         0
             0
1
  2
     3
         0
             0
2
  4
     5
         6
             0
            10
```

pd.DataFrame(data) follows different code paths when data is a tuple as opposed to a list.

Pandas developer <u>Jeff Reback</u> <u>explains</u>:

list-of-tuples is the specified type, tuple-of-tuple is not allowed as I think it can signify nested types that would require more parsing.

edited Nov 13 '15 at 20:13

answered Nov 13 '15 at 19:52



I had this: pd.DataFrame(json.loads(json.d umps(s))) but yours is cleaner skulz00 Nov 13 '15 at 19:54

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