

06-important-methods

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1 Some Useful Methods in Pandas

Hi Guys, Welcome to [Tirendaz Academy](#) In this notebook, I'm going to show some useful methods.
Happy Learning

```
[1]: import pandas as pd
import numpy as np
```

```
[2]: s=pd.Series([1,2,3,4],
                index=["a","b","c","d"])
s
```

```
[2]: a    1
     b    2
     c    3
     d    4
     dtype: int64
```

```
[3]: s["a"]
```

```
[3]: 1
```

```
[4]: s2=s.reindex(["b","d","a","c","e"])
s2
```

```
[4]: b    2.0
     d    4.0
     a    1.0
     c    3.0
     e    NaN
     dtype: float64
```

```
[5]: s3=pd.Series(["blue","yellow","purple"],
                index=[0,2,4])
s3
```

```
[5]: 0    blue
     2  yellow
```

```
4    purple
dtype: object
```

```
[6]: s3.reindex(range(6),method="ffill")
```

```
[6]: 0    blue
      1    blue
      2   yellow
      3   yellow
      4   purple
      5   purple
dtype: object
```

```
[7]: df=pd.DataFrame(np.arange(9).reshape(3,3),
                      index=["a","c","d"],
                      columns=["Tim","Tom","Kate"])
df
```

```
[7]:   Tim  Tom  Kate
a     0    1     2
c     3    4     5
d     6    7     8
```

```
[8]: df2=df.reindex(["d","c","b","a"])
df2
```

```
[8]:   Tim  Tom  Kate
d  6.0  7.0  8.0
c  3.0  4.0  5.0
b   NaN  NaN  NaN
a  0.0  1.0  2.0
```

```
[9]: names=["Kate","Tim","Tom"]
df.reindex(columns=names)
```

```
[9]:   Kate  Tim  Tom
a     2    0    1
c     5    3    4
d     8    6    7
```

```
[10]: df.loc[["c","d","a"]]
```

```
[10]:   Tim  Tom  Kate
c     3    4     5
d     6    7     8
a     0    1     2
```

```
[11]: s=pd.Series(np.arange(5.),
                index=["a","b","c","d","e"])
s
```

```
[11]: a    0.0
      b    1.0
      c    2.0
      d    3.0
      e    4.0
      dtype: float64
```

```
[12]: new_s=s.drop("b")
new_s
```

```
[12]: a    0.0
      c    2.0
      d    3.0
      e    4.0
      dtype: float64
```

```
[13]: s.drop(["c","d"])
```

```
[13]: a    0.0
      b    1.0
      e    4.0
      dtype: float64
```

```
[14]: data=pd.DataFrame(np.arange(16).reshape(4,4),
                        index=["Kate","Tim",
                              "Tom","Alex"],
                        columns=list("ABCD"))
data
```

```
[14]:
```

	A	B	C	D
Kate	0	1	2	3
Tim	4	5	6	7
Tom	8	9	10	11
Alex	12	13	14	15

```
[15]: data.drop(["Kate","Tim"])
```

```
[15]:
```

	A	B	C	D
Tom	8	9	10	11
Alex	12	13	14	15

```
[16]: data.drop("A",axis=1)
```

```
[16]:      B   C   D
      Kate  1   2   3
      Tim   5   6   7
      Tom   9  10  11
      Alex 13  14  15
```

```
[17]: data.drop("Kate",axis=0)
```

```
[17]:      A   B   C   D
      Tim   4   5   6   7
      Tom   8   9  10  11
      Alex 12  13  14  15
```

```
[18]: data
```

```
[18]:      A   B   C   D
      Kate  0   1   2   3
      Tim   4   5   6   7
      Tom   8   9  10  11
      Alex 12  13  14  15
```

```
[19]: data.mean(axis="index")
```

```
[19]: A    6.0
      B    7.0
      C    8.0
      D    9.0
      dtype: float64
```

```
[20]: data.mean(axis="columns")
```

```
[20]: Kate    1.5
      Tim     5.5
      Tom     9.5
      Alex   13.5
      dtype: float64
```

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