pandas.DataFrame.pivot

`DataFrame.`**`pivot`**(*index=None*, *columns=None*, *values=None*) [source]

Reshape data (produce a “pivot” table) based on column values. Uses unique values from index / columns to form axes of the resulting DataFrame.

Parameters:

index *: string or object, optional*
Column name to use to make new frame’s index. If None, uses existing index.

columns *: string or object*
Column name to use to make new frame’s columns

values *: string or object, optional*
Column name to use for populating new frame’s values. If not specified, all remaining columns will be used and the result will have hierarchically indexed columns

Returns: **pivoted** *: DataFrame*

See also:

`DataFrame.pivot_table`
generalization of pivot that can handle duplicate values for one index/column pair

`DataFrame.unstack`
pivot based on the index values instead of a column

Notes

For finer-tuned control, see hierarchical indexing documentation along with the related stack/unstack methods

Examples

```
>>> df = pd.DataFrame({'foo': ['one','one','one','two','two','two'],
                       'bar': ['A', 'B', 'C', 'A', 'B', 'C'],
                       'baz': [1, 2, 3, 4, 5, 6]})
>>> df
    foo   bar  baz
0   one   A    1
1   one   B    2
2   one   C    3
3   two   A    4
4   two   B    5
5   two   C    6
```

```
>>> df.pivot(index='foo', columns='bar', values='baz')
     A   B   C
one  1   2   3
two  4   5   6
```

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```
>>> df.pivot(index='foo', columns='bar')['baz']
     A   B   C
one  1   2   3
two  4   5   6
```

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