

Pivot

df

	foo	bar	baz	zoo
0	one	A	1	x
1	one	B	2	y
2	one	C	3	z
3	two	A	4	q
4	two	B	5	w
5	two	C	6	t



```
df.pivot(index='foo',
          columns='bar',
          values='baz')
```

bar	A	B	C
foo			
one	1	2	3
two	4	5	6

Melt

df3

	first	last	height	weight
0	John	Doe	5.5	130
1	Mary	Bo	6.0	150



```
df3.melt(id_vars=['first', 'last'])
```

	first	last	variable	value
0	John	Doe	height	5.5
1	Mary	Bo	height	6.0
2	John	Doe	weight	130
3	Mary	Bo	weight	150

Stack

df2

		A	B
first	second		
bar	one	1	2
	two	3	4
baz	one	5	6
	two	7	8



```
stacked = df2.stack()
```

first	second		
bar	one	A	1
	two	B	2
	two	A	3
		B	4
baz	one	A	5
		B	6
	two	A	7
		B	8

stacked

first	second		
bar	one	A	1
	two	B	2
	two	A	3
		B	4
baz	one	A	5
		B	6
	two	A	7
		B	8



```
stacked.unstack(1)
or
stacked.unstack('second')
```

	second	one	two
first			
bar	A	1	3
	B	2	4
baz	A	5	7
	B	6	8

MultIndex

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