PANDAS PIVOT

WHAT YOU'LL LEARN

- How to use the pivot () method in Pandas
- How to reshape or "transpose" your data
 - reshape from long to wide

PANDAS PIVOT OVERVIEW

EXAMPLE: YOU HAVE A DATAFRAME

ind_var	col_var	val_var
1	A	val 1
2	A	val 2
1	В	val 3
2	В	val 4
1	С	val 5
2	С	val 6

YOU NEED TO RESHAPE THE DATA FROM "TIDY" FORMAT TO A DIFFERENT FORMAT

ind_var	col_var	val_var
1	A	val 1
2	A	val 2
1	В	val 3
2	В	val 4
1	С	val 5
2	С	val 6

PIVOT "RESHAPES" DATA FROM LONG TO WIDE

```
my_dataframe.pivot(index = 'ind_var', columns = 'col_var', values = 'val_var')
```

ind_var	col_var	val_var
1	A	val 1
2	A	val 2
1	В	val 3
2	В	val 4
1	С	val 5
2	С	val 6

PIVOT "RESHAPES" DATA FROM LONG TO WIDE

my_dataframe.pivot(index = 'ind_var', columns = 'col_var', values = 'val_var')

ind_var	col_var	val_var				
1	A	val 1				
2	A	val 2		index	A	В
1	В	val 3	-	1	val 1	val 3
2	В	val 4		2	val 2	val 4
1	С	val 5				
2	С	val 6				

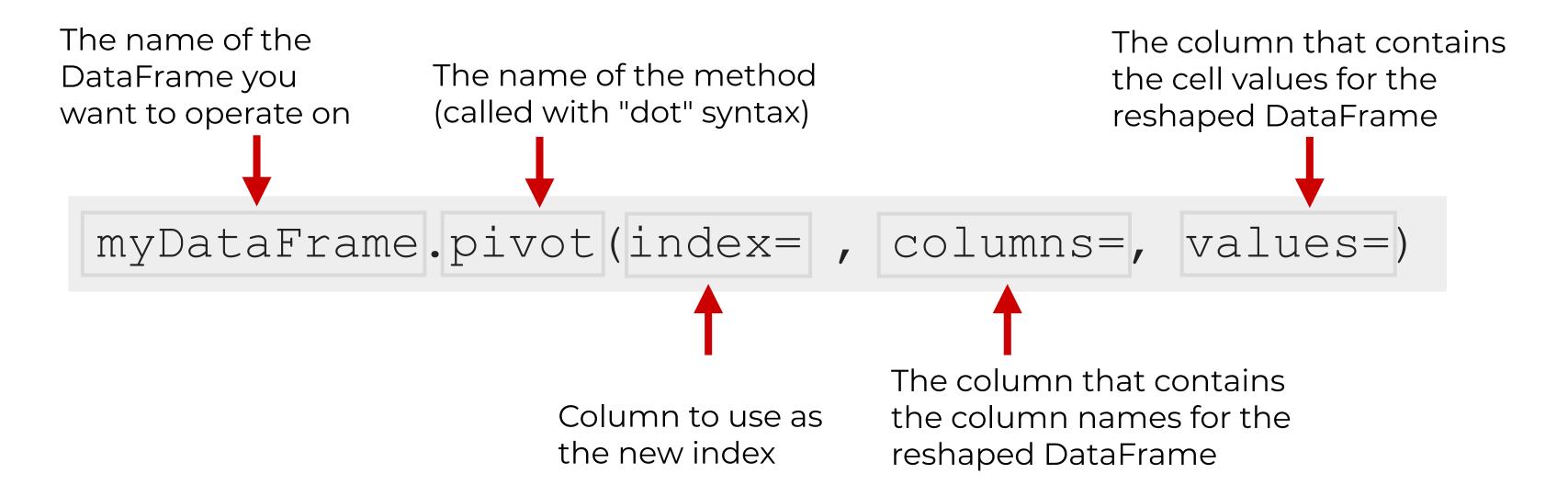
This operation is sometimes called a "transpose"

val 5

val 6

PANDAS PIVOT SYNTAX

SYNTAX: PANDAS PIVOT



PARAMETERS OF PANDAS PIVOT

THE PARAMETERS OF PANDAS PIVOT

Parameter	What it does	Format
index=	The values in the index= column will become the index values of the output DataFrame	Column name
columns=	The values in the columns column will become the column names of the output DataFrame	
values=	values= The values in the values column will become the cell values of the output DataFrame	

THE OUTPUT OF PANDAS PIVOT

- The pivot () method will produce a new DataFrame as output
 - A reshaped DataFrame

PANDAS PIVOT EXAMPLE

EXAMPLE: RESHAPE TO WIDE

```
my_dataframe.pivot(index = 'ind_var', columns = 'col_var', values = 'val_var')
```

ind_var	col_var	val_var
1	A	val 1
2	A	val 2
1	В	val 3
2	В	val 4
1	С	val 5
2	С	val 6

EXAMPLE: RESHAPE TO WIDE

my_dataframe.pivot(index = 'ind_var', columns = 'col_var', values = 'val_var')

ind_var	col_var	val_var
1	A	val 1
2	A	val 2
1	В	val 3
2	В	val 4
1	С	val 5
2	С	val 6

index	A	В	С
1	val 1	val 3	val 5
2	val 2	val 4	val 6

RECAP

RECAP OF WHAT WE LEARNED

- You can reshape your Pandas data with pivot ()
 - reshape from long to wide
- Note: pivot () is a little hard to understand!
 - the best way to understand it is to work with some simple examples
- **Next Steps**: Watch the code walkthrough video for simple, step-by-step examples of the Pandas pivot () method