PANDAS RENAME

What you'll learn

• How to use the Pandas rename () method

How to rename rows and index values of a DataFrame

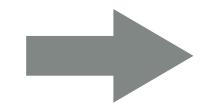
PANDAS RENAME OVERVIEW

THE PANDAS RENAME METHOD RENAMES COLUMNS AND INDEX VALUES

supercars.rename(columns = {'horsepower':'hp'})

Old name

model	make	year	horsepower*
911 Turbo	Porsche	2013	513
Z4 3.0i	BMW	2007	215
Cayman	Porsche	2007	241
Veyron	Bugatti	2012	1184
550i	BMW	2013	444



Output:

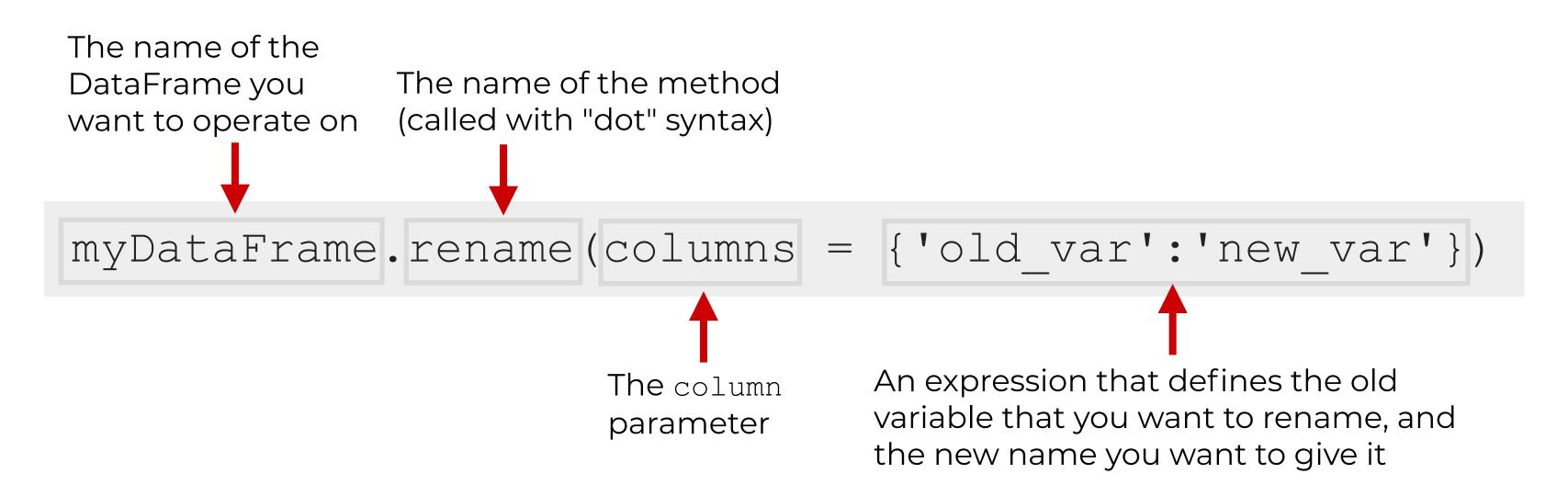
New name

model	make	year	hp*
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Z4 3.0i	BMW	2007	215
Cayman	Porsche	2007	241
Veyron	Bugatti	2012	1184
550i	BMW	2013	444

Note: Here, supercars is an "abbreviated" version of the actual data

SYNAX: RENAME COLUMNS

SYNTAX: RENAME COLUMNS



SYNTAX: RENAME COLUMNS

myDataFrame.rename(columns = {'old_var':'new_var'})



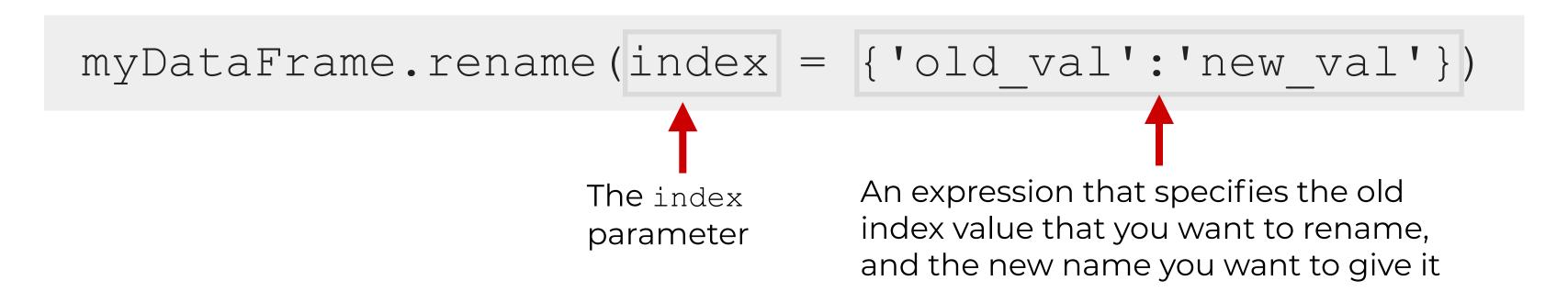
This should be expressed as a dictionary, with the old variable name on the left and the new name on the right

Notice also that the variable names are in quotes ...

RENAME INDEX VALUES

SYNTAX: RENAME INDEX VALUES

The syntax to rename index values is very similar to the syntax to rename columns

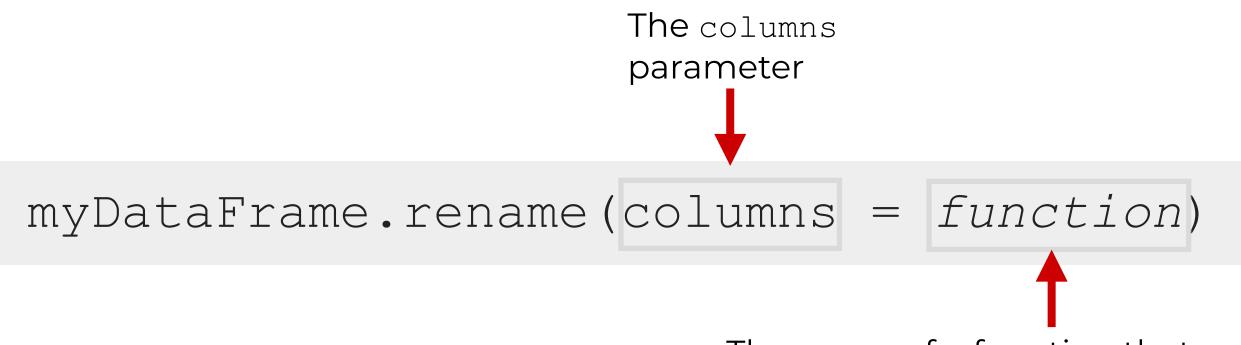


APPLY A FUNCTION TO ALL COLUMNS OR INDEX VALUES

IT'S ALSO POSSIBLE TO APPLY A FUNCTION TO ALL OF THE COLUMNS / INDEX VALUES

- Supply a function name to the columns or index parameter
- I'll show you the code to change columns
 - There's corresponding syntax to change the index values

SYNTAX: RENAME COLUMNS



The name of a function that you want to apply to every column

E.g., you can apply str.lower to change every variable name to lower case

PARAMETERS OF PANDAS RENAME

THE PARAMETERS OF PANDAS RENAME

Parameter	What it does		
columns	Specifies which columns to rename		
	You can also specify the name of a function to apply to every column		
index	Specifies which index values to rename		
	You can also specify the name of a function to apply to every index value		
inplace	Indicates whether you want to modify the DataFrame directly (inplace) or not set to inplace = False by default		

THE OUTPUT OF PANDAS RENAME

- By default, rename () creates a *new* DataFrame with renamed variables/indexes
 - By default, inplace is set to inplace = False
 - This leaves the original DataFrame unchanged
- If you set inplace = True, rename() will directly modify the original DataFrame

RECAP

RECAP OF WHAT WE LEARNED

- You can change the name of columns & index values with rename ()
- You can also apply a function to all of the columns / index values
- **Next Steps**: Watch the code walkthrough video for step-by-step examples of rename ()