PANDAS FILTER

What you'll learn

How to use the Pandas filter method

How to retrieve columns from a Pandas DataFrame

PANDAS FILTER OVERVIEW

THE FILTER METHOD RETRIEVES COLUMNS FROM A DATAFRAME

supercars.filter([make])

model	make	horsepower	engine_size
Veyron	Bugatti	1,184	487.7
Agera	Koenigsegg	1,124	307
Aventador	Lamborghini	710	396.5
Mustang Shelby	Ford	662	354.6
559 GTO	Ferrari	661	366
911	Porsche	611	219.6

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

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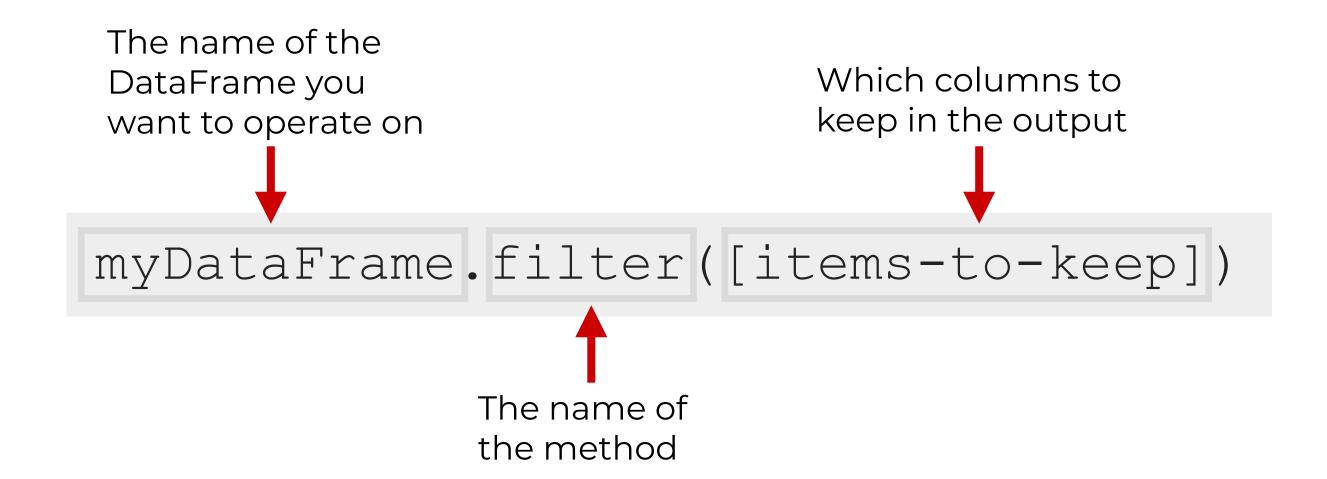
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NOTE: PANDAS FILTER TECHNICALLY CAN RETRIEVE ROWS TOO

- Technically, the filter method can retrieve rows too
- I discourage using filter to retrieve rows
 - Pandas has better tools for retrieving rows like
 - ... query, loc, iloc
- I recommend using filter for columns, just for simplicity

PANDAS FILTER SYNTAX

SYNTAX: PANDAS FILTER METHOD



THE FILTER METHOD CAN RETRIEVE ONE COLUMN OR MANY COLUMNS

The items to keep should be expressed as a Python list of columns



This can be a list of one column or many columns

PARAMETERS OF PANDAS FILTER

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Input	What it does
items=	Specify which columns to keep (expressed as a list)
regex=	Specify which columns to keep, expressed as a regular expression.

Note: There are a couple of other parameters, but they are more rarely used, so we won't discuss them.

THE OUTPUT OF PANDAS FILTER

• The filter method will return a DataFrame with the columns that you specify

RECAP

RECAP OF WHAT WE LEARNED

- You can retrieve columns from a DataFrame with the filter method
- You can retrieve:
 - one column
 - multiple columns
 - columns that match a regular expression (regex)
- Next Steps: Watch the code walkthrough video for examples how to to retrieve columns with filter