PANDAS AGG

WHAT YOU'LL LEARN

- How to use the Pandas agg method
- How to aggregate your data
 - calculate the mean
 - median
 - sum
 - etc

PANDAS AGG OVERVIEW

THE AGG METHOD "AGGREGATES" YOUR DATA

IN: supercars.agg('mean')

OUT:

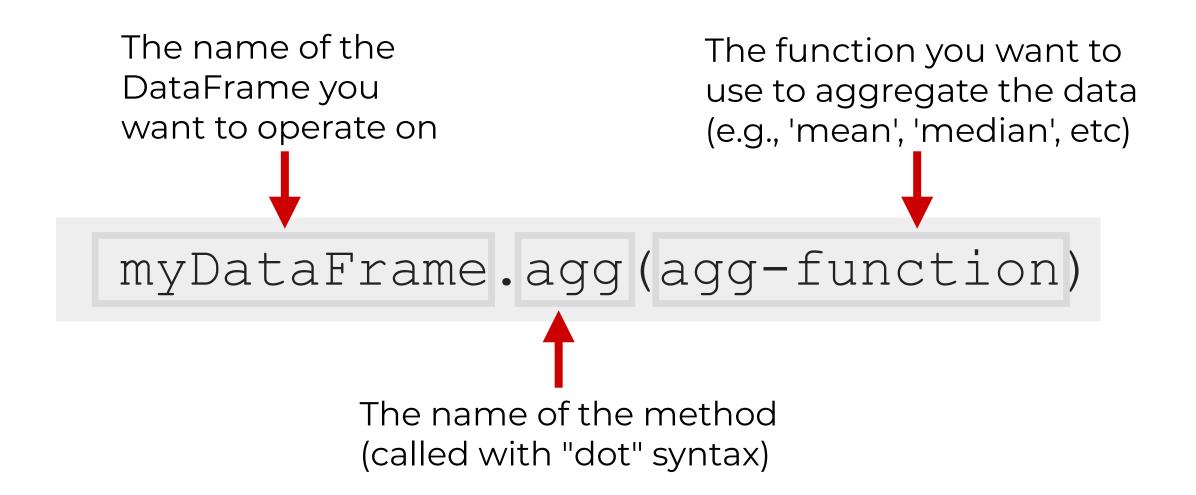
year1994.520913horsepower304.655894torque301.180838seconds_0_603.965491engine_size220.011316top_speed150.194515weight1.476125dtype: float64

Specify an aggregation function (like mean, etc)

Pandas agg will calculate the summary statistic(s) that you specify on the variable(s) that you specify

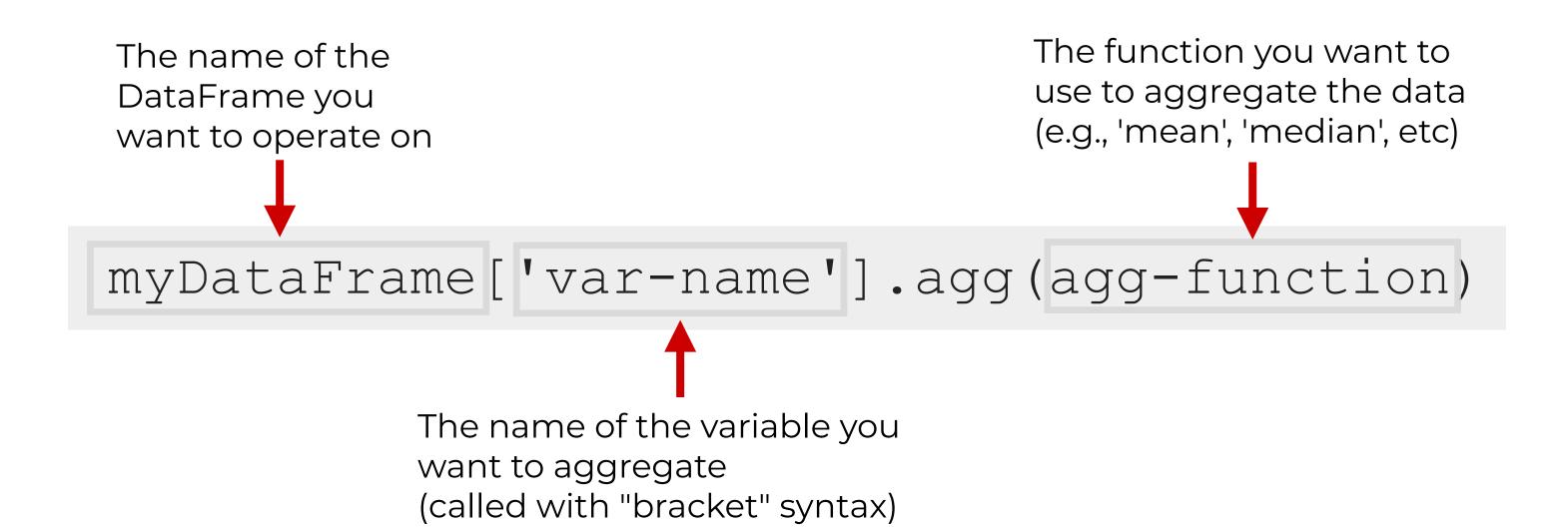
PANDAS AGG SYNTAX

SYNTAX: AGGREGATE ALL VARIABLES



Calling the function this way will apply the aggregation function to all numeric variables

SYNTAX: AGGREGATE ONE VARIABLE



Calling the function this way will apply the aggregation function to a single variable only

SYNTAX: AGGREGATE SELECT VARIABLES

```
myDataFrame[['var-name']].agg(agg-function)
```



You can also provide a list of variable names to aggregate select variables

SYNTAX: USE AGGREGATION FUNCTIONS

You can also provide a list of multiple aggregation functions (e.g., ['mean', 'median'])



myDataFrame['var-name'].agg(agg-functions)

This will calculate the specified aggregation functions for the variable(s)

PARAMETERS OF PANDAS AGG

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Parameter	What it does	notes
		Can be single function or multiple functions in a list
	The "direction" (i.e., axis) you want to perform the calculation	Default is 0 We almost never use this parameter

THE OUTPUT OF PANDAS AGG

The output of agg depends on how the method is called...

If the input is a	And agg is called with	agg will return a
Series	a single function	scalar
DataFrame	a single function	Series
DataFrame	several functions	DataFrame

RECAP

RECAP OF WHAT WE LEARNED

- The Pandas agg method aggregates your data
- You can use agg to calculate a single statistic, or multiple statistics
- Next Steps: watch the code walkthrough for examples