PANDAS FILLNA

What you'll learn

How to use the Pandas fillna() method

How to fill in missing data in a Pandas DataFrame

PANDAS FILLNA OVERVIEW

FILLNA FILLS IN MISSING VALUES IN A PANDAS DATAFRAME

- Data cleaning is one of the most important tasks of data science
- Handling missing values is one of the most common data cleaning issues
- The fillna() method enables you fill in missing values in Pandas
 - fill in missing all values
 - or, fill in missing values for a particular variable

EXAMPLE: YOU HAVE A PANDAS DATAFRAME

name	region	sales	expenses
William	East	50000	42000
Emma	NaN	52000	43000
Sofia	East	90000	NaN
Markus	South	NaN	44000
Edward	West	42000	38000
Thomas	West	72000	39000
Ethan	South	49000	42000
Olivia	West	NaN	NaN
Arun	West	67000	39000
Anika	East	65000	44000
Paulo	South	67000	45000

THE DATAFRAME HAS MISSING VALUES IN SEVERAL DIFFERENT COLUMNS

name	region	sales	expenses
William	East	50000	42000
Emma	NaN	52000	43000
Sofia	East	90000	NaN
Markus	South	NaN	44000
Edward	West	42000	38000
Thomas	West	72000	39000
Ethan	South	49000	42000
Olivia	West	NaN	NaN
Arun	West	67000	39000
Anika	East	65000	44000
Paulo	South	67000	45000

YOU CAN USE FILLNA() TO FILL IN THE MISSING DATA

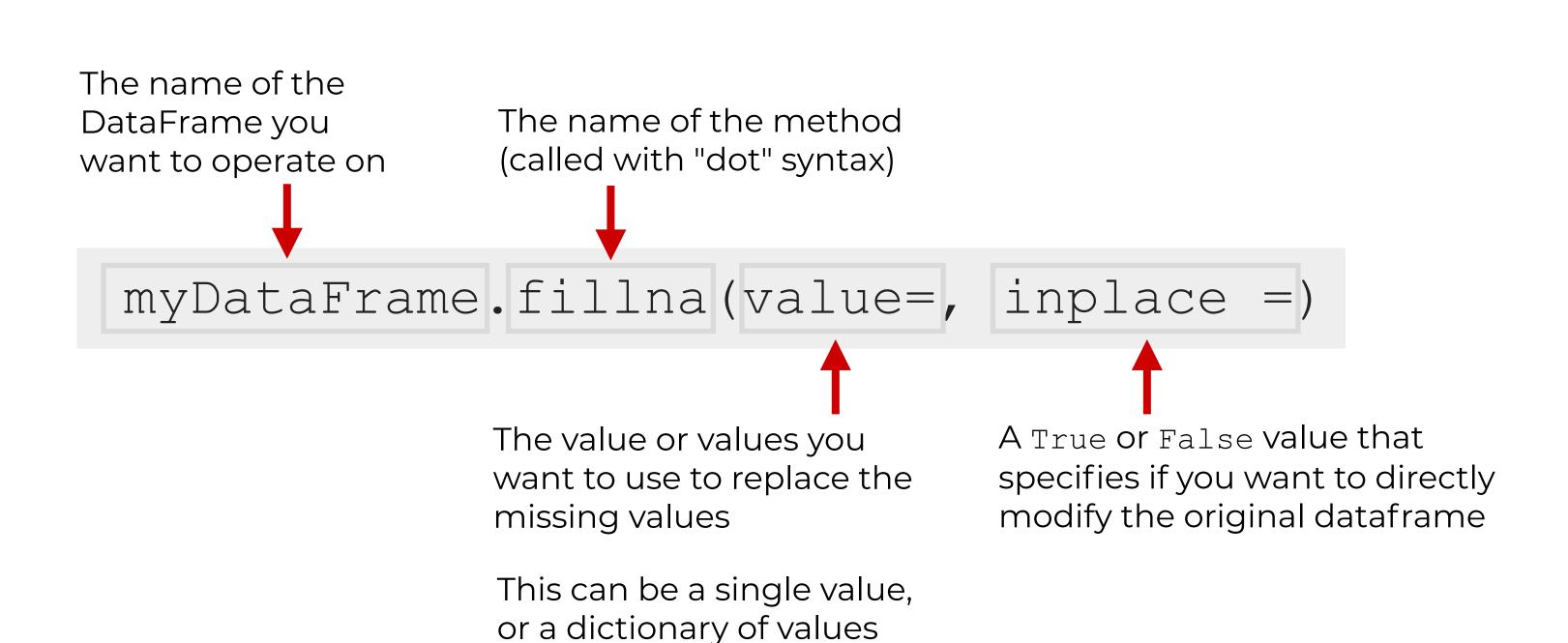
name	region	sales	expenses
William	East	50000	42000
Emma	NaN	52000	43000
Sofia	East	90000	NaN
Markus	South	NaN	44000
Edward	West	42000	38000
Thomas	West	72000	39000
Ethan	South	49000	42000
Olivia	West	NaN	NaN
Arun	West	67000	39000
Anika	East	65000	44000
Paulo	South	67000	45000

YOU CAN USE FILLNA() TO FILL IN THE MISSING DATA

name	region	sales	expenses
William	East	50000	42000
Emma	North	52000	43000
Sofia	East	90000	0
Markus	South	0	44000
Edward	West	42000	38000
Thomas	West	72000	39000
Ethan	South	49000	42000
Olivia	West	0	0
Arun	West	67000	39000
Anika	East	65000	44000
Paulo	South	67000	45000

PANDAS FILLNA SYNTAX

SYNTAX: PANDAS FILLNA



PARAMETERS OF PANDAS FILLNA

THE PARAMETERS OF PANDAS FILLNA

Input	What it does	Format
value=	Specifies the value or values you want to use to replace the missing values	Either a single value, or a dictionary of values that specify particular values to use for particular columns
inplace=	Specifies whether you want to modify the original DataFrame directly	True Or False

THE OUTPUT OF PANDAS FILLNA

- By default, the fillna() method outputs a new DataFrame
 - by default, inplace is set to inplace = False
- If you set inplace = True, fillna() will directly modify the original dataframe

RECAP

RECAP OF WHAT WE LEARNED

- How to use the fillna() method
- How to fill in missing values in a dataframe
- **Next Steps**: Watch the code walkthrough video for step-by-step examples of how to use the Pandas fillna() method