

# SEABORN LINEPLOT

SHARP SIGHT

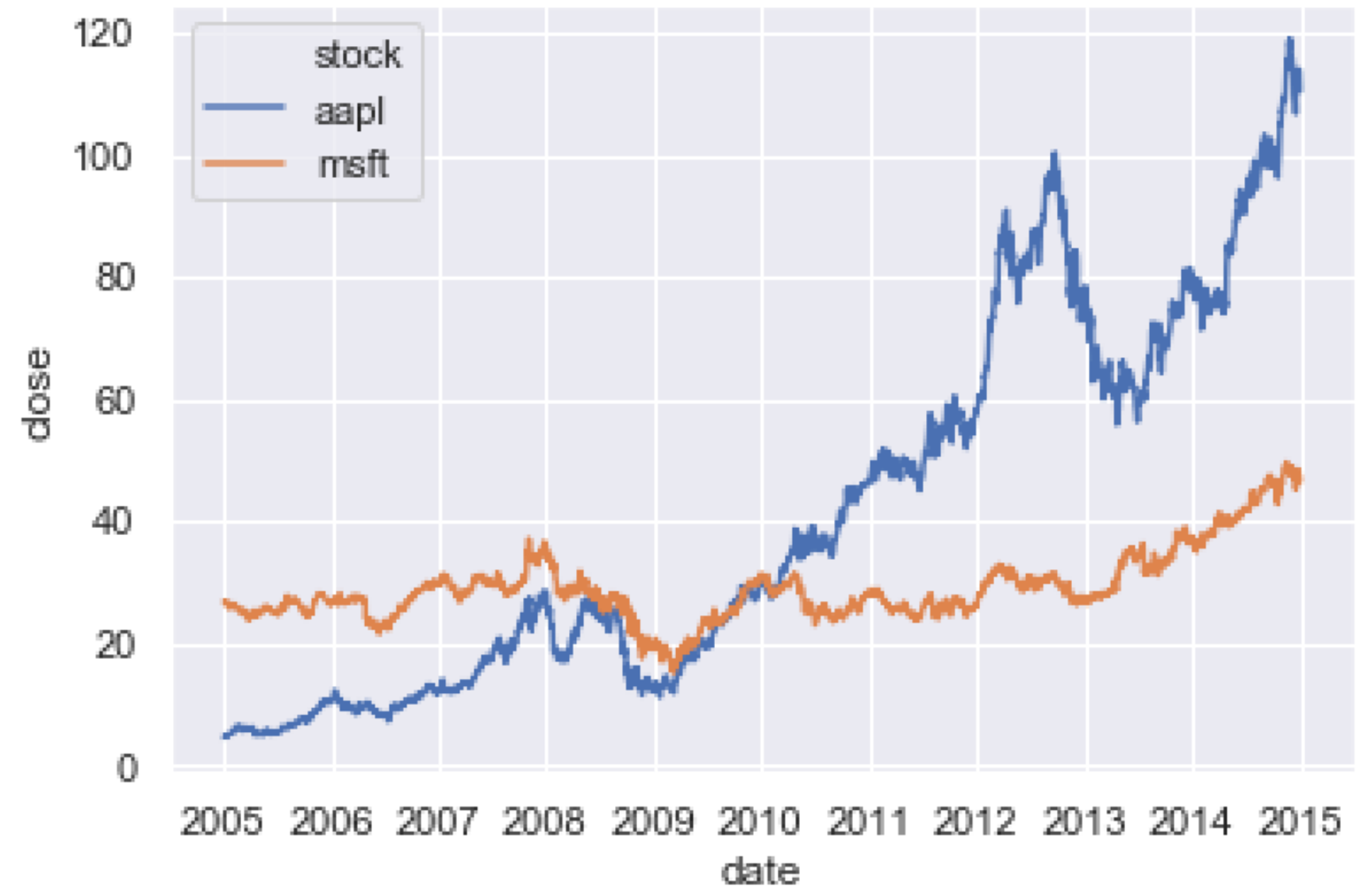
# WHAT YOU'LL LEARN

- How to use the `sns.lineplot()` function
- How to create line charts with Seaborn
- How to change the color of the line
- How to create a multi-line line chart

# SEABORN LINEPLOT OVERVIEW

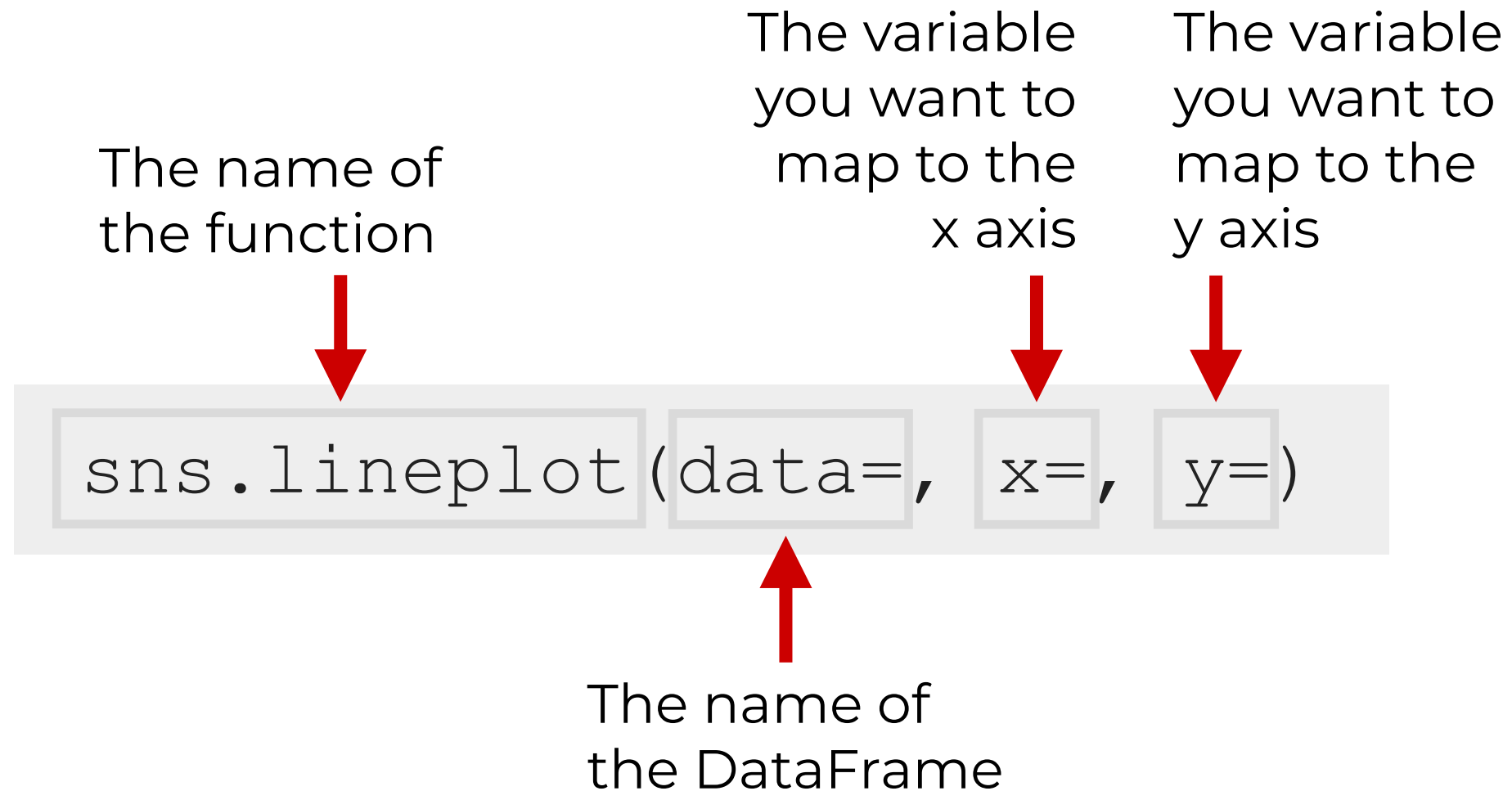
# THE LINE PLOT FUNCTION CREATES LINE CHARTS IN SEABORN

```
sns.lineplot(data = stocks  
             ,x = 'date'  
             ,y = 'close'  
             ,hue = 'stock'  
             )
```



# SEABORN LINEPLOT SYNTAX

# SYNTAX OF SNS.LINEPLOT



# PARAMETERS OF SEABORN LINEPLOT

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Parameter	What it does	Format
data	Specify DataFrame to plot	DataFrame
x	Map variable to x-axis	variable (numeric or categorical)
y	Map variable to y-axis	variable (numeric or categorical)
color	Specify color of the line	color name
hue	Map a variable to the line color (i.e., change the color of the lines according to the values of a variable)	variable (numeric or categorical)

**Note:** `sns.lineplot()` has many more parameters, but these are the most commonly used



# EXAMPLES OF SNS.LINEPLOT

# PRELIMINARY CODE FOR EXAMPLES

```
stocks = pd.read_csv('https://learn.sharpsightlabs.com/datasets/pdm/stocks.csv')
stocks.date = pd.to_datetime(stocks.date)

aapl_stock = stocks.query("stock == 'aapl'")
```

# EXAMPLE 1: CREATE A SIMPLE LINE CHART

```
sns.lineplot(data = aapl_stock  
             ,x = 'date'  
             ,y = 'close'  
             )
```

Here, we're specifying a dataframe, and mapping variables to the x and y axes

Notice that we're using the `aapl_stock` dataframe in this example

# EXAMPLE 1: CREATE A SIMPLE LINE CHART

```
sns.lineplot(data = aapl_stock  
             ,x = 'date'  
             ,y = 'close'  
             )
```



# EXAMPLE 2: CHANGE THE LINE COLOR

```
sns.lineplot(data = aapl_stock  
             ,x = 'date'  
             ,y = 'close'  
             ,color = 'red'  
             )
```

Here, we're using the `color` parameter to change the color of the line to 'red'

Notice that we're using the `aapl_stock` dataframe in this example

# EXAMPLE 2: CHANGE THE LINE COLOR

```
sns.lineplot(data = aapl_stock  
             ,x = 'date'  
             ,y = 'close'  
             ,color = 'red'  
             )
```



# EXAMPLE 3: CREATE A MULTI-LINE LINE CHART

```
sns.lineplot(data = stocks  
             ,x = 'date'  
             ,y = 'close'  
             ,hue = 'stock'  
             )
```

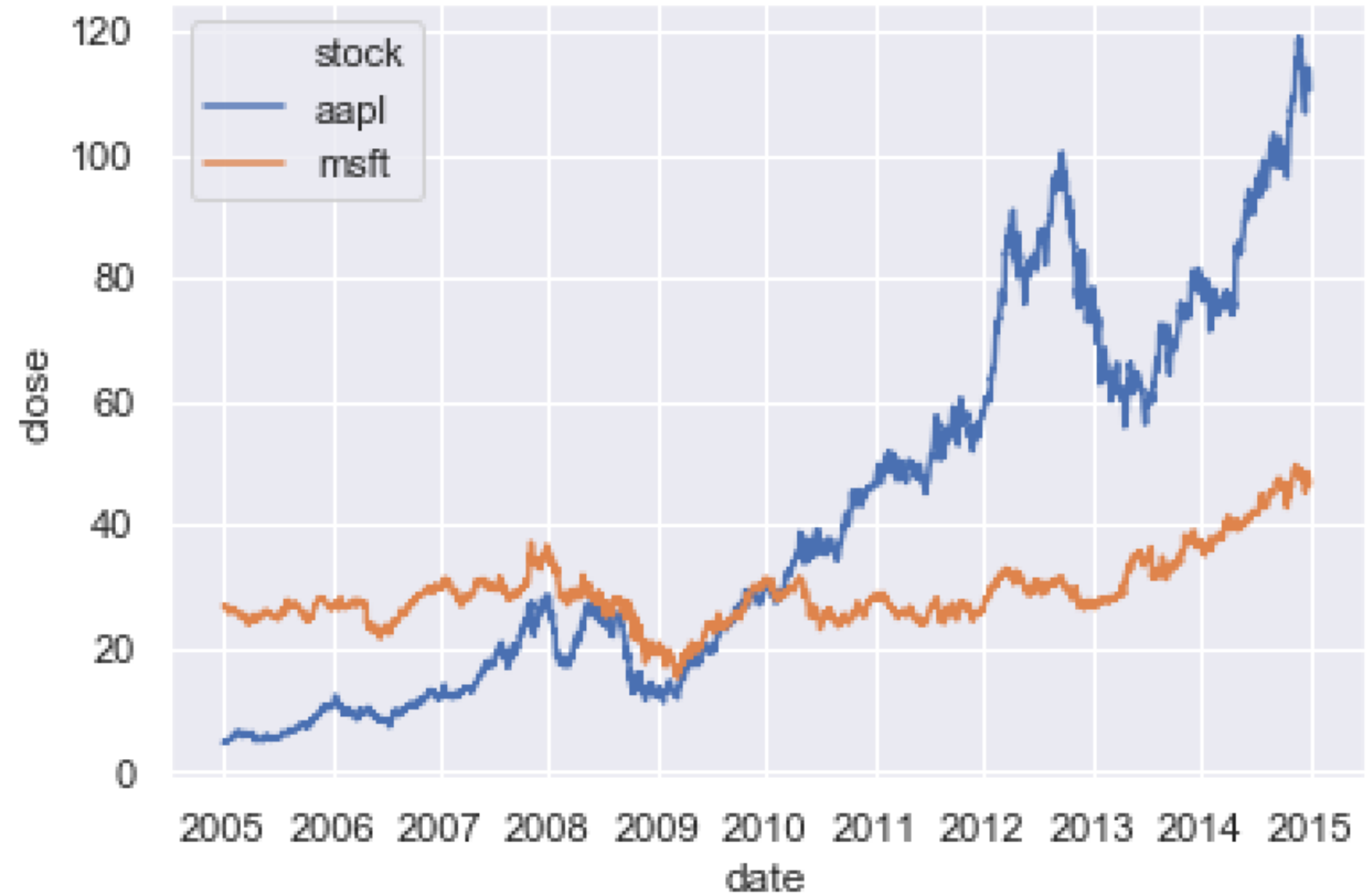
Here, we're mapping the 'stock' variable to the hue parameter

This will create a separate line for every value of stock

Notice that we're using the `stocks` dataframe in this example

# EXAMPLE 3: CREATE A MULTI-LINE LINE CHART

```
sns.lineplot(data = stocks  
             ,x = 'date'  
             ,y = 'close'  
             ,hue = 'stock'  
             )
```





RECAP

# RECAP OF WHAT WE LEARNED

- How to use the `sns.lineplot()` function to create line charts
- How to change the color of the line
- How to create a multi-line line chart
- **Next Steps:** Watch the code walkthrough video for step-by-step examples