# Pandas Series

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## What is a Series?

A Pandas Series is like a column in a table.

It is a one-dimensional array holding data of any type.

### Example



Create a simple Pandas Series from a list:

```
import pandas as pd

a = [1, 7, 2]

myvar = pd.Series(a)

print(myvar)
```

has index 0, second value has index 1 etc.

This label can be used to access a specified value.

### Example

Return the first value of the Series:

```
print(myvar[0])
```

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## Create Labels

With the `index` argument, you can name your own labels.

### Example

Create your own labels:

```
import pandas as pd

a = [1, 7, 2]

myvar = pd.Series(a, index = ["x", "y", "z"])

print(myvar)
```

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When you have created labels, you can access an item by referring to the label.

```
print(myvar["y"])
```

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# Key/Value Objects as Series

You can also use a key/value object, like a dictionary, when creating a Series.

## Example

Create a simple Pandas Series from a dictionary:

```
import pandas as pd

calories = {"day1": 420, "day2": 380, "day3": 390}

myvar = pd.Series(calories)

print(myvar)
```

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**Note:** The keys of the dictionary become the labels.

To select only some of the items in the dictionary, use the `index` argument and specify only the items you want to include in the Series.

```
import pandas as pd

calories = {"day1": 420, "day2": 380, "day3": 390}

myvar = pd.Series(calories, index = ["day1", "day2"])

print(myvar)
```

Try it Yourself »

# DataFrames

Data sets in Pandas are usually multi-dimensional tables, called DataFrames.

Series is like a column, a DataFrame is the whole table.

## Example

Create a DataFrame from two Series:

```
import pandas as pd

data = {
  "calories": [420, 380, 390],
  "duration": [50, 40, 45]
}

myvar = pd.DataFrame(data)

print(myvar)
```

You will learn about DataFrames in the next chapter.

## Exercise ?

**True or False. A Series is like a row in a table.**

- ○ True
- ○ False

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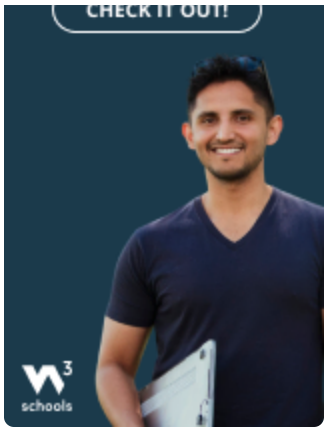


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## Top Examples



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