

What is a Series?

A Panda Series is like a column in a table It is one-dimentional array holding data of any type.

In [1]: *#Create a simple panda Series from a List*

```
import pandas as pd

a = [1,7,2]

myvar = pd.Series(a)

print(myvar)
```

```
0    1
1    7
2    2
dtype: int64
```

Creating a Label

In [3]: *# with the index argument , you can name your own labels*

```
import pandas as pd

a = [1,7,5]

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

print(myvar)
```

```
x    1
y    7
z    5
dtype: int64
```

Key/Value Objects as a Series

you can also use a key/value object like a dictionary:

```
In [5]: import pandas as pd

calories = {

    'day1' : 420 ,
    'day2' : 456 ,
    'day3' : 470

}

myvar = pd.Series(calories)

print(myvar)
```

```
day1    420  
day2    456  
day3    470  
dtype: int64
```

DataFrames

In [6]: *#Data sets in Pandas are usually multidimensional tables, called Data Frames*
Sereis is like a column, a DataFrame is the whole table

```
import pandas as pd  
data = {  
  
    'calories' : [420, 430, 440 ],  
    'duration' : [50, 40, 45]  
}  
  
myvar = pd.DataFrame(data)  
  
print(myvar)
```

	calories	duration
0	420	50
1	430	40
2	440	45

In []: