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Eigen Vectors and Eigen Values

Eigen Vectors

The vectors that don't change their span while transformation

Eigen Values

The scalar values that are associated to the vectors

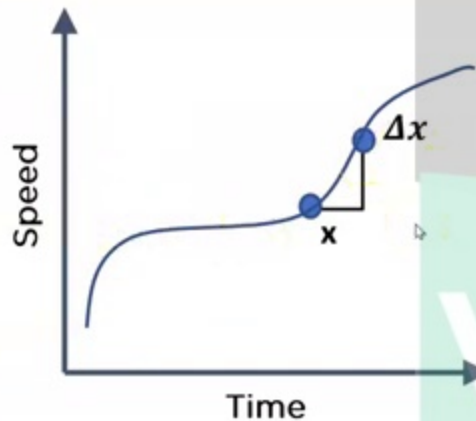
V



Vectors before transition

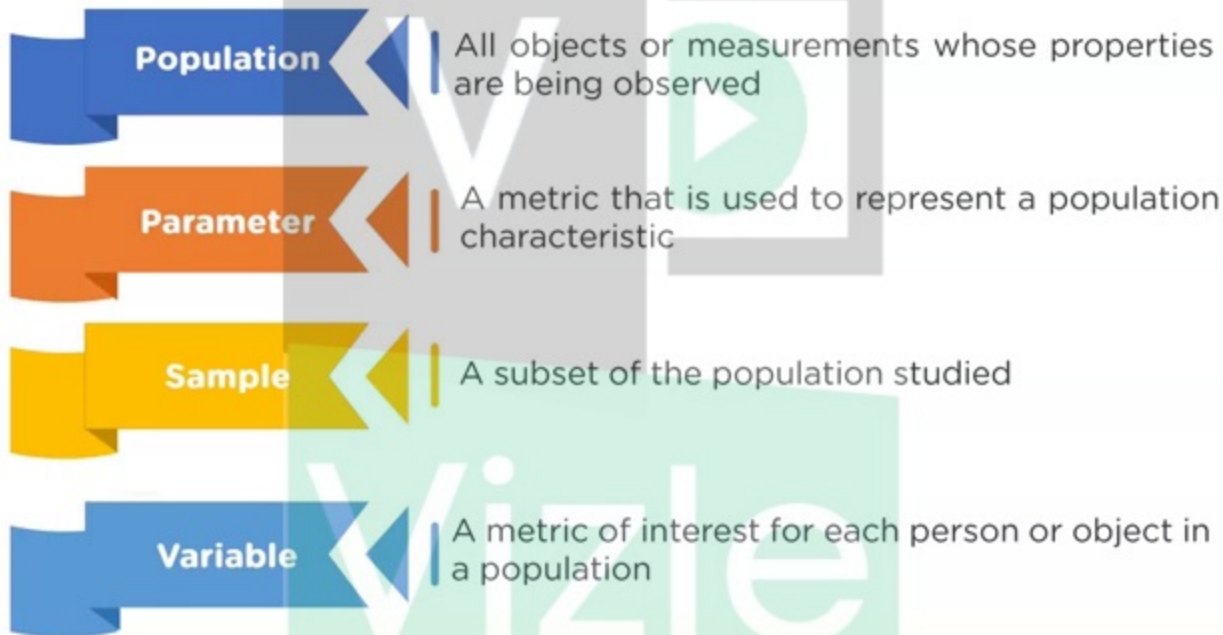
 \vec{A} \vec{B}

Differentiation



- Helps to calculate the spontaneous rate of change
- Suppose we plot a graph of the speed of a car with respect to time
- The rate of change of speed with respect of time is nothing but acceleration
- The acceleration is the area between the start point x and end point Δx

Important Terminologies



```
In [1]: 1 import pandas as pd
        2
        3 df = pd.DataFrame({'Name': ['Jane', 'Michael', 'Willian', 'Rosy', 'Hana', 'Ferdie', 'Graeme'],
        4                   'Salary':[50000,54000,50000,189000,55000,40000,59000]})
        5
        6 print(df.head())
```

	Name	Salary
0	Jane	50000
1	Michael	54000
2	Willian	50000
3	Rosy	189000
4	Hana	55000

```
In [5]: 1 # Calculate the mean, median, mode
        2 print ('means', df['Salary'].mean())
        3 print ('median', df['Salary'].median())
        4 print ('mode', df['Salary'].mode())
```

```
means 71000.0
median 54000.0
mode 0    50000
dtype: int64
```

In []: 1



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