

# Summary Statistics

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graph TD; A([Summary Statistics]) --> B([Location]); A --> C([Spread]); A --> D([Shape]); A --> E([Dependence]);
```

## Location

### 1) Mean

#### a) Pythagorean Mean

- i) Arithmetic Mean
- ii) Geometric Mean
- iii) Harmonic Mean

#### b) Weighted Mean

#### c) Truncated Mean

#### d) Interquartile Mean

### 2) Mode

### 3) Median

## Spread

### 1) Standard Deviation

### 2) Variance

### 3) Range

### 4) Interquartile Range

### 5) Absolute deviation

### 6) Mean Absolute difference

### 7) Distance Standard Deviation

## Shape

### 1) Skewness

### 2) Kurtosis

### 3) Distance Skewness

## Dependence

### 1) Covariance

### 2) Pearson Correlation

### 3) Kendall Correlation

### 4) Spearman Correlation