

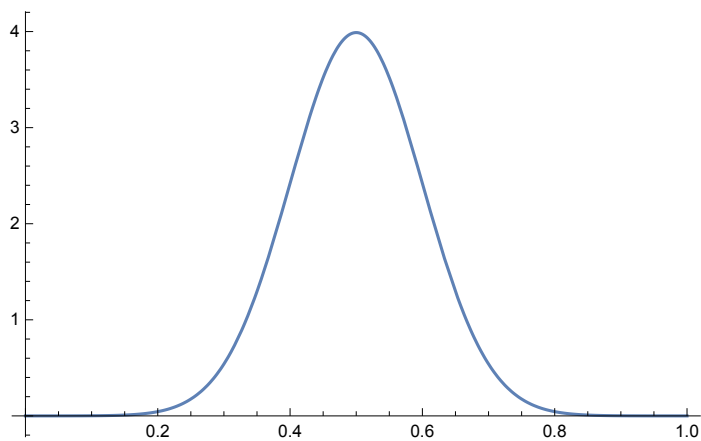
Sample Distribution

■ Normal Distribution

```
n = NormalDistribution[0.5, 0.1]
```

```
NormalDistribution[0.5, 0.1]
```

```
Plot[PDF[n, x], {x, 0, 1}]
```



```
n
```

```
NormalDistribution[0.5, 0.1]
```

■ Population

```
Population = Table[RandomVariate[n], {i, 1, 1000}];
```

```
Mean[Population]
```

```
0.504084
```

```
Variance[Population]
```

```
0.0098354
```

■ Sample

```
Sample = Table[Mean[Table[RandomVariate[n], {i, 1, 1000}]], {i, 1, 100}];
```

```
Mean[Sample]
```

```
0.499899
```

Variance[Sample]

9.61351×10^{-6}

0.01 / 1000

0.00001