

**Confidence intervals for elytra data**

<b>Obs</b>	<b>length</b>
<b>1</b>	5.0
<b>2</b>	5.1
<b>3</b>	5.2
<b>4</b>	5.9
<b>5</b>	4.8
<b>6</b>	5.5
<b>7</b>	4.8
<b>8</b>	5.1
<b>9</b>	5.0
<b>10</b>	5.1

**Confidence intervals for elytra data**  
**95% confidence intervals**

The UNIVARIATE Procedure  
Variable: length

Moments			
<b>N</b>	10	<b>Sum Weights</b>	10
<b>Mean</b>	5.15	<b>Sum Observations</b>	51.5
<b>Std Deviation</b>	0.33082389	<b>Variance</b>	0.10944444
<b>Skewness</b>	1.42698649	<b>Kurtosis</b>	2.26518149
<b>Uncorrected SS</b>	266.21	<b>Corrected SS</b>	0.985
<b>Coeff Variation</b>	6.4237648	<b>Std Error Mean</b>	0.1046157

Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	5.150000	<b>Std Deviation</b>	0.33082
<b>Median</b>	5.100000	<b>Variance</b>	0.10944
<b>Mode</b>	5.100000	<b>Range</b>	1.10000
		<b>Interquartile Range</b>	0.20000

Basic Confidence Limits Assuming Normality			
Parameter	Estimate	95% Confidence Limits	
<b>Mean</b>	5.15000	4.91334	5.38666
<b>Std Deviation</b>	0.33082	0.22755	0.60396
<b>Variance</b>	0.10944	0.05178	0.36476

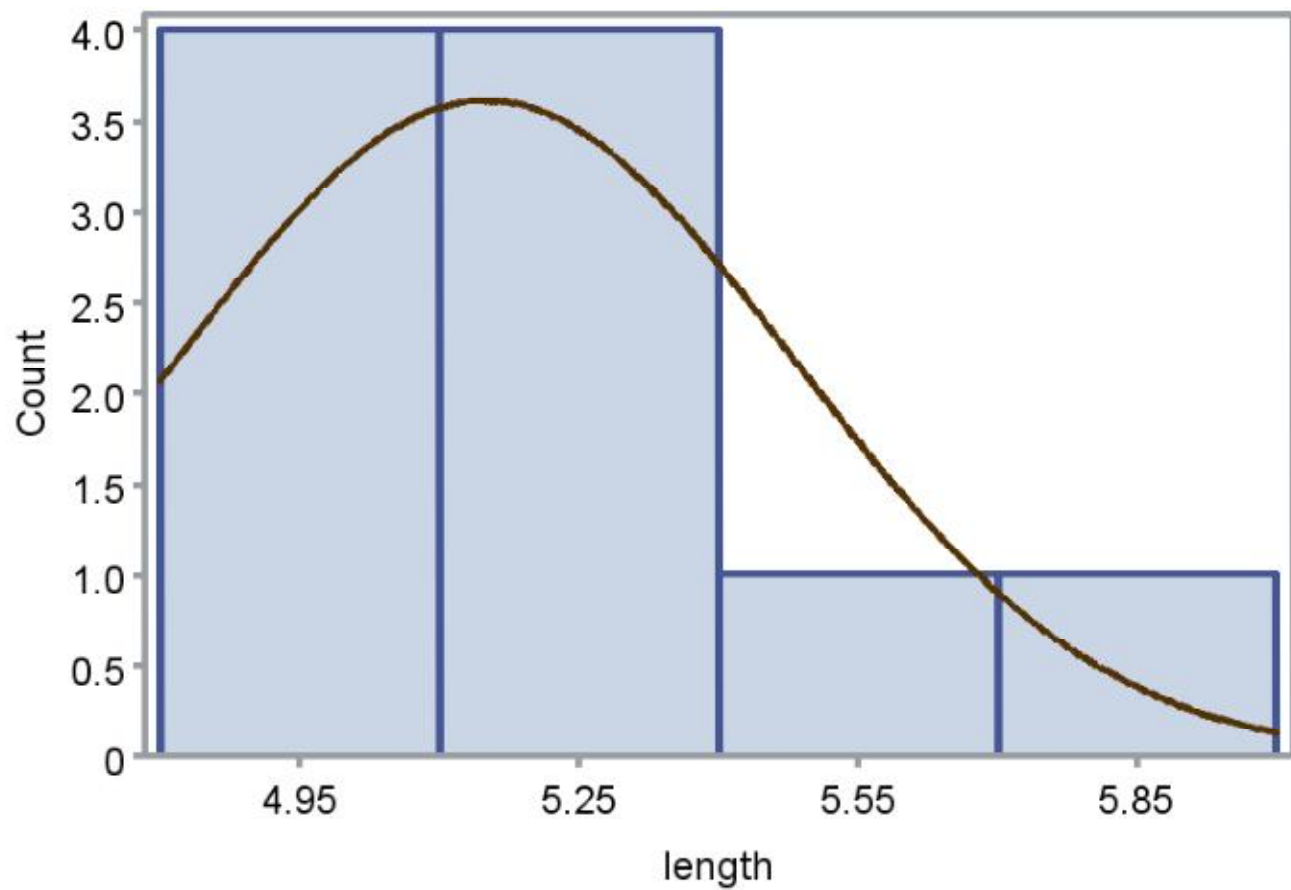
Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	49.22779	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	5	<b>Pr &gt;=  M </b>	0.0020
<b>Signed Rank</b>	<b>S</b>	27.5	<b>Pr &gt;=  S </b>	0.0020

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	5.9
<b>99%</b>	5.9
<b>95%</b>	5.9
<b>90%</b>	5.7
<b>75% Q3</b>	5.2
<b>50% Median</b>	5.1
<b>25% Q1</b>	5.0
<b>10%</b>	4.8
<b>5%</b>	4.8
<b>1%</b>	4.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.8	7	5.1	8
4.8	5	5.1	10
5.0	9	5.2	3
5.0	1	5.5	6
5.1	10	5.9	4



## The UNIVARIATE Procedure

**Confidence intervals for elytra data**  
95% confidence intervals

**Confidence intervals for elytra data**  
**95% confidence intervals**

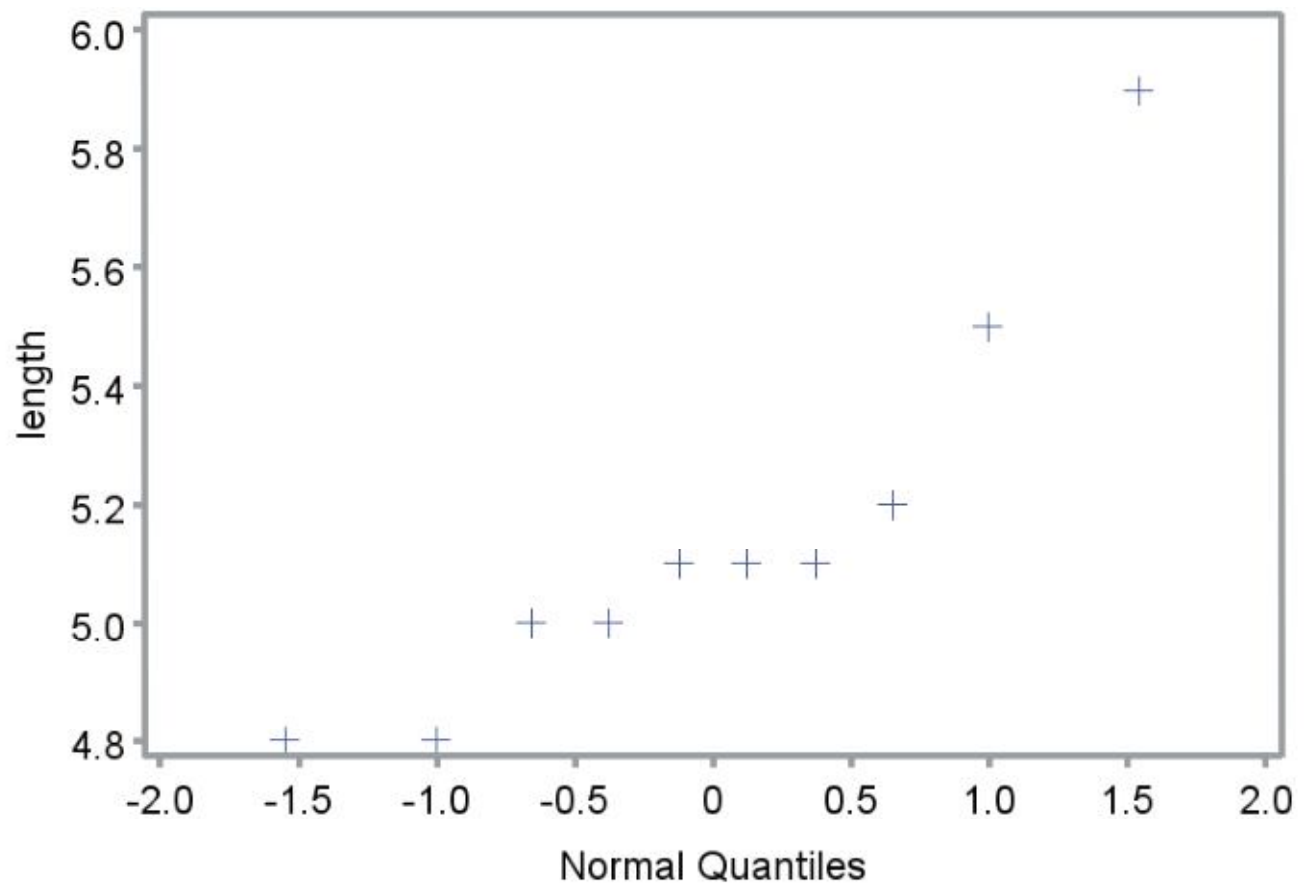
The UNIVARIATE Procedure  
 Fitted Normal Distribution for length

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	5.15
Std Dev	Sigma	0.330824

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.26006650	Pr > D	0.053
Cramer-von Mises	W-Sq	0.11756306	Pr > W-Sq	0.056
Anderson-Darling	A-Sq	0.65358519	Pr > A-Sq	0.064

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	4.80000	4.38039
5.0	4.80000	4.60584
10.0	4.80000	4.72603
25.0	5.00000	4.92686
50.0	5.10000	5.15000
75.0	5.20000	5.37314
90.0	5.70000	5.57397
95.0	5.90000	5.69416
99.0	5.90000	5.91961

## The UNIVARIATE Procedure

**Confidence intervals for elytra data**  
95% confidence intervals

**Confidence intervals for elytra data**  
**99% confidence intervals**

The UNIVARIATE Procedure  
Variable: length

Moments			
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<b>Mean</b>	5.150000	<b>Std Deviation</b>	0.33082
<b>Median</b>	5.100000	<b>Variance</b>	0.10944
<b>Mode</b>	5.100000	<b>Range</b>	1.10000
		<b>Interquartile Range</b>	0.20000

Basic Confidence Limits Assuming Normality			
Parameter	Estimate	99% Confidence Limits	
<b>Mean</b>	5.15000	4.81002	5.48998
<b>Std Deviation</b>	0.33082	0.20434	0.75349
<b>Variance</b>	0.10944	0.04176	0.56775

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	49.22779	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	5	<b>Pr &gt;=  M </b>	0.0020
<b>Signed Rank</b>	<b>S</b>	27.5	<b>Pr &gt;=  S </b>	0.0020

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<b>50% Median</b>	5.1
<b>25% Q1</b>	5.0
<b>10%</b>	4.8
<b>5%</b>	4.8
<b>1%</b>	4.8

0% Min	4.8
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5.0	9	5.2	3
5.0	1	5.5	6
5.1	10	5.9	4