

Class Level Information		
Class	Levels	Values
sex	2	f m

Number of Observations Read	8
Number of Observations Used	8

### Dependent Variable: t1

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.0000000	2.0000000	0.04	0.8559
Error	6	334.0000000	55.6666667		
Corrected Total	7	336.0000000			

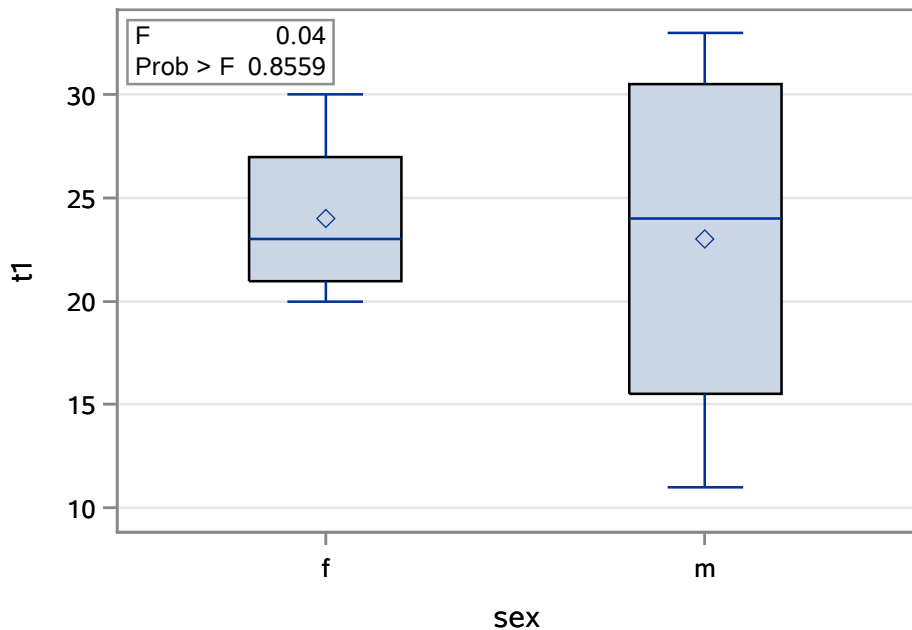
R-Square	Coeff Var	Root MSE	t1 Mean
0.005952	31.74898	7.461010	23.50000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
sex	1	2.00000000	2.00000000	0.04	0.8559

Source	DF	Type III SS	Mean Square	F Value	Pr > F
sex	1	2.00000000	2.00000000	0.04	0.8559

Dependent Variable: t1

### Distribution of t1



### Dependent Variable: t2

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.12500000	0.12500000	0.01	0.9259
Error	6	79.75000000	13.29166667		
Corrected Total	7	79.87500000			

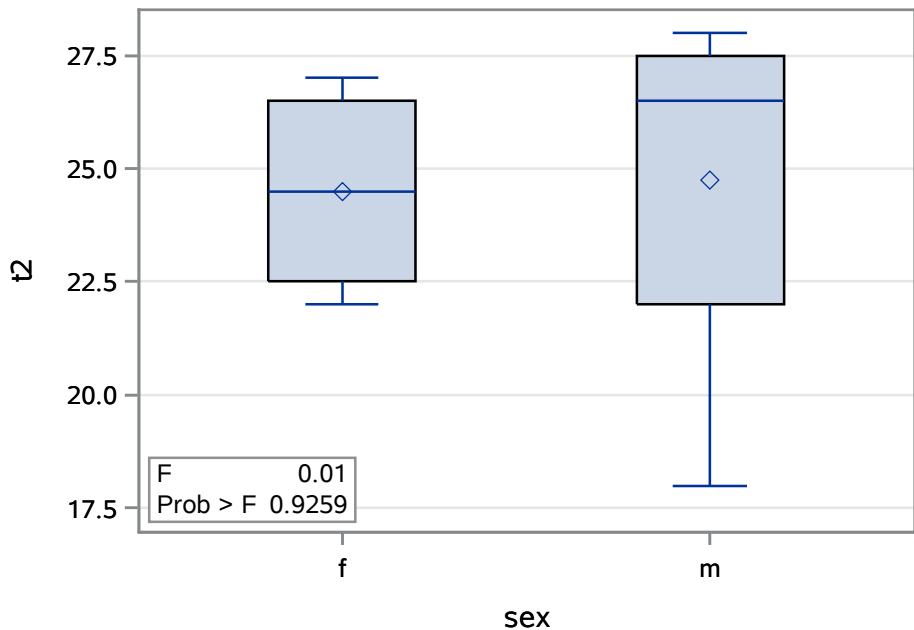
R-Square	Coeff Var	Root MSE	t2 Mean
0.001565	14.80517	3.645774	24.62500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
sex	1	0.12500000	0.12500000	0.01	0.9259

Source	DF	Type III SS	Mean Square	F Value	Pr > F
sex	1	0.12500000	0.12500000	0.01	0.9259

Dependent Variable: t2

### Distribution of t2



### Dependent Variable: t3

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.1250000	0.1250000	0.00	0.9595
Error	6	267.7500000	44.6250000		
Corrected Total	7	267.8750000			

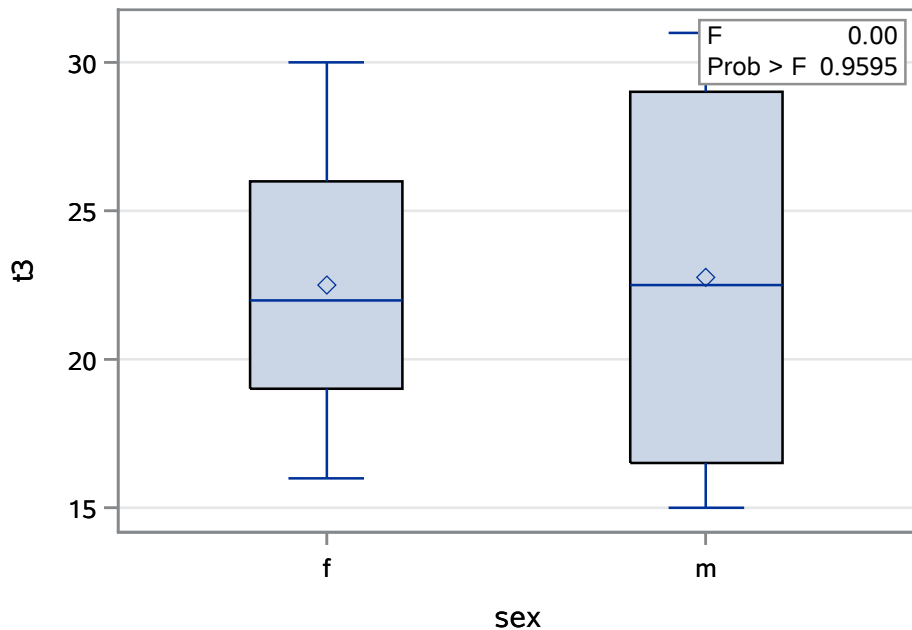
R-Square	Coeff Var	Root MSE	t3 Mean
0.000467	29.52572	6.680195	22.62500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
sex	1	0.12500000	0.12500000	0.00	0.9595

Source	DF	Type III SS	Mean Square	F Value	Pr > F
sex	1	0.12500000	0.12500000	0.00	0.9595

Dependent Variable: t3

### Distribution of t3



### Dependent Variable: t4

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.00000000	2.00000000	0.17	0.6973
Error	6	72.00000000	12.00000000		
Corrected Total	7	74.00000000			

R-Square	Coeff Var	Root MSE	t4 Mean
0.027027	17.76462	3.464102	19.50000

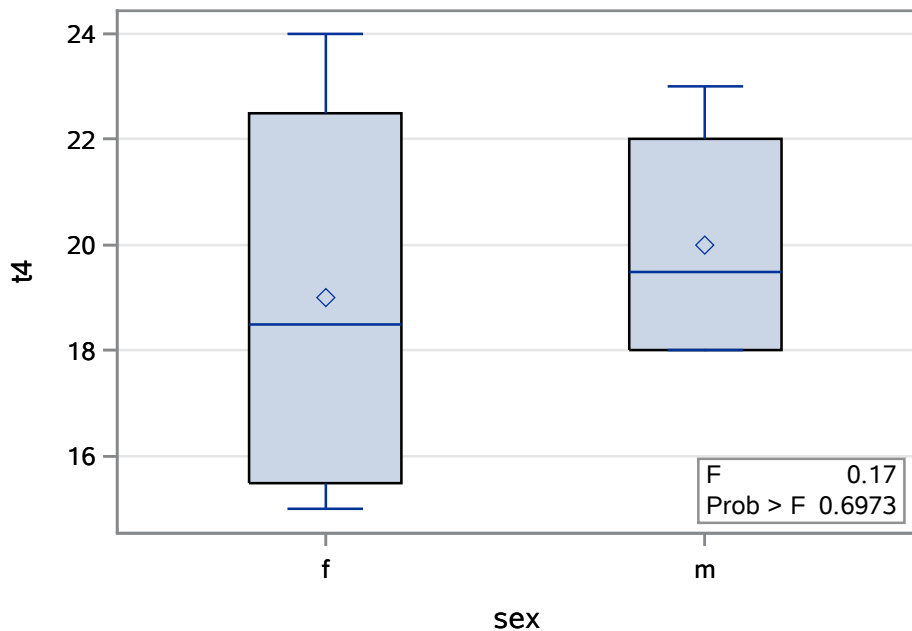
Source	DF	Type I SS	Mean Square	F Value	Pr > F
sex	1	2.00000000	2.00000000	0.17	0.6973

Source	DF	Type III SS	Mean Square	F Value	Pr > F
sex	1	2.00000000	2.00000000	0.17	0.6973



Dependent Variable: t4

### Distribution of t4



### Dependent Variable: t5

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	21.1250000	21.1250000	0.51	0.5030
Error	6	249.7500000	41.6250000		
Corrected Total	7	270.8750000			

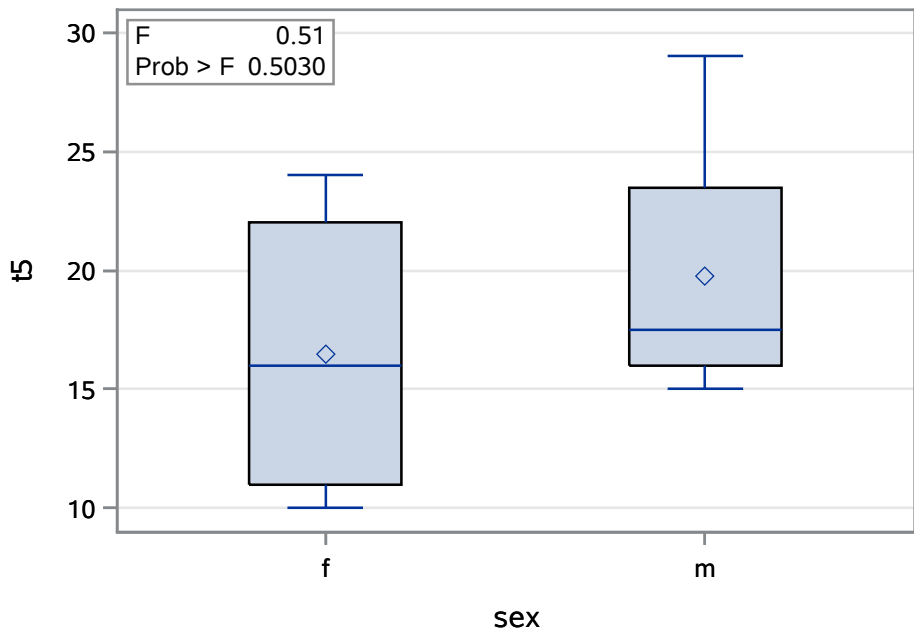
R-Square	Coeff Var	Root MSE	t5 Mean
0.077988	35.59583	6.451744	18.12500

Source	DF	Type I SS	Mean Square	F Value	Pr > F
sex	1	21.12500000	21.12500000	0.51	0.5030

Source	DF	Type III SS	Mean Square	F Value	Pr > F
sex	1	21.12500000	21.12500000	0.51	0.5030

Dependent Variable: t5

### Distribution of t5



## Multivariate Analysis of Variance

M Matrix Describing Transformed Variables					
	t1	t2	t3	t4	t5
MVAR1	-1	1	0	0	0
MVAR2	0	-1	1	0	0
MVAR3	0	0	-1	1	0
MVAR4	0	0	0	-1	1

## Multivariate Analysis of Variance

Characteristic Roots and Vectors of:  $E^{-1}H$ , where  
 $H$  = Type III SSCP Matrix for sex  
 $E$  = Error SSCP Matrix

Variables have been transformed by the M Matrix

Characteristic Root	Percent	Characteristic Vector $V'EV=1$			
		MVAR1	MVAR2	MVAR3	MVAR4
<b>0.15629962</b>	100.00	-0.03939611	0.09492203	0.10515668	0.11108022
<b>0.00000000</b>	0.00	0.04087282	0.08060919	-0.01634001	-0.01726045
<b>0.00000000</b>	0.00	-0.04338978	0.09278998	0.15748851	-0.02839074
<b>0.00000000</b>	0.00	0.09486939	-0.01952789	-0.02267100	-0.04514821

## Multivariate Analysis of Variance

**MANOVA Test Criteria and Exact F Statistics for the Hypothesis of No Overall sex Effect on the Variables Defined by the M Matrix Transformation**

**H = Type III SSCP Matrix for sex**

**E = Error SSCP Matrix**

**S=1 M=1 N=0.5**

Statistic	Value	F Value	Num DF	Den DF
Wilks' Lambda	0.86482775	0.12	4	3
Pillai's Trace	0.13517225	0.12	4	3
Hotelling-Lawley Trace	0.15629962	0.12	4	3
Roy's Greatest Root	0.15629962	0.12	4	3

**MANOVA Test Criteria and Exact F Statistics for the Hypothesis of No Overall sex Effect**

**on the Variables Defined by the M Matrix Transformation**

**H = Type III SSCP Matrix for sex**

**E = Error SSCP Matrix**

**S=1 M=1 N=0.5**

Statistic	Pr > F
Wilks' Lambda	0.9673
Pillai's Trace	0.9673
Hotelling-Lawley Trace	0.9673
Roy's Greatest Root	0.9673

## Multivariate Analysis of Variance

M Matrix Describing Transformed Variables					
	t1	t2	t3	t4	t5
MVAR1	1	1	1	1	1

## Multivariate Analysis of Variance

Characteristic Roots and Vectors of:  $E^{-1}H$ , where  
 $H$  = Type III SSCP Matrix for sex  
 $E$  = Error SSCP Matrix

Variables have been transformed by the M Matrix

Characteristic Root	Percent	Characteristic Vector $V'EV=1$
		MVAR1
0.00915602	100.00	0.01804293



## Multivariate Analysis of Variance

**MANOVA Test Criteria and Exact F Statistics for the Hypothesis of No Overall sex Effect  
on the Variables Defined by the M Matrix Transformation**

**H = Type III SSCP Matrix for sex**

**E = Error SSCP Matrix**

**S=1 M=-0.5 N=2**

Statistic	Value	F Value	Num DF	Den DF
Wilks' Lambda	0.99092705	0.05	1	6
Pillai's Trace	0.00907295	0.05	1	6
Hotelling-Lawley Trace	0.00915602	0.05	1	6
Roy's Greatest Root	0.00915602	0.05	1	6

**MANOVA Test Criteria and Exact F  
Statistics for the Hypothesis of No  
Overall sex Effect**

**on the Variables Defined by the M  
Matrix Transformation**

**H = Type III SSCP Matrix for sex**

**E = Error SSCP Matrix**

**S=1 M=-0.5 N=2**

Statistic	Pr > F
Wilks' Lambda	0.8225
Pillai's Trace	0.8225
Hotelling-Lawley Trace	0.8225
Roy's Greatest Root	0.8225