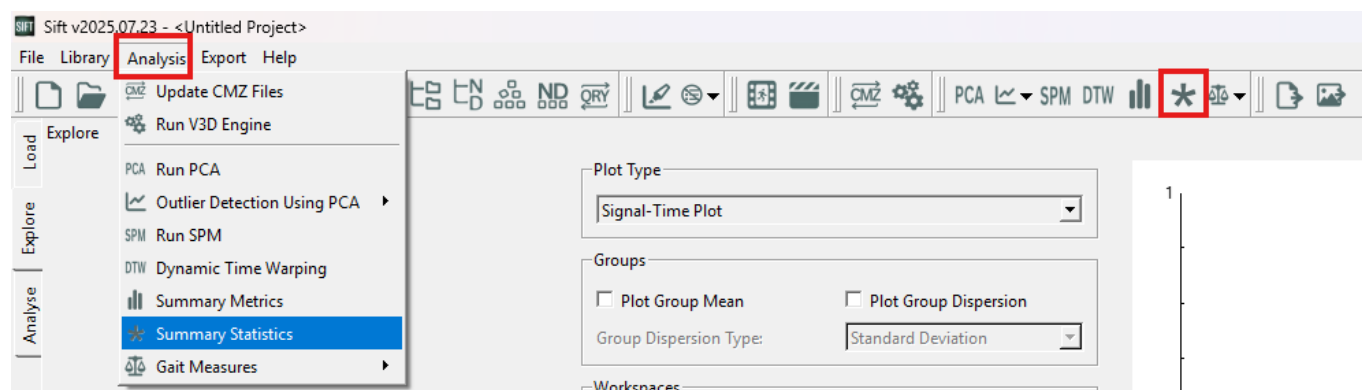


Summary Statistics Dialog

Summary statistics can be used to summarize data sets and relationships between data in a simple way. Within Sift there are currently three different statistical tests:

1. One Sample T Test
2. Two Sample T Test
3. Paired T Test

The Summary Statistics dialog is found on the toolbar and under the Analysis menu.



Summary Statistics Dialog

The summary statistics dialog is split into two sections: the test information, and the results.

Depending on the test you select the test information and results displayed might be different.

One Sample T Test

Test Information

Test Name

Test

Statistical Test

One Sample T-Test

Significance Level

0.05

Select Data

Group

Metric1

Metric2

Workspaces

Metric1:Sub01\Sub01_Workspace.cmz\

Metric1:Sub02\Sub02_Workspace.cmz\

Metric1:Sub03\Sub03_Workspace.cmz\

Metric1:Sub04\Sub04_Workspace.cmz\

Metric1:Sub05\Sub05_Workspace.cmz\

Metric1:Sub06\Sub06_Workspace.cmz\

☐ Use Excluded Data
 ☒ Use All Workspaces

Population Mean

1.65

Result Information

Result Name

Test

Test Information

Statistical Test

One Sample T Test

Significance Level

0.05

Population Mean

1.65

Group1

Metric1

Group Results

Metric1

Mean

1.70901

Standard Deviation

0.0695117

Standard Error

0.00824952

N

71

Test Results

Degrees of Freedom

70

T Stat

7.15364

Reject Null Hypothesis

Cancel

Compute Stats Test

Test Information

To run a one sample t test you will need to input the following:

- **Test Name**
- **** Statistical Test: One Sample T Test * ** Significance Level:** Options of 0.1, 0.05, 0.025,0.01,0.005,0.001
- **Data Selection**
 - **Group:** One Metric must be selected

- **Workspaces:** Select all workspaces you want included in your test
- **Use Excluded Data:** If checked, any excluded data will be included in your test
- **Use All Workspaces:** If checked, all workspaces will be used in your test
- **Population Mean:** Mean of the population you are comparing against

Result Information

Once the test has run the results information will be displayed:

- **Result Name:** Drop down to ensure you are looking at the right test
- **Test Information**
 - **Statistical Test:** What test was performed
 - **Significance Level:** What significance level was used to run the test
 - **** Population Mean: What Population Mean was used * **Group1:** Name of group used in test. If expanded the selected workspaces will be shown
- **Group Results**
 - For the group the following results will be shown
 - **Mean**
 - **Standard Deviation**
 - **Standard Error**
 - **N**
- **Test Results**
 - **Degrees of Freedom**
 - **T Stat**
 - **Null Hypothesis :** Either will say Do Not Reject Null Hypothesis, or Reject Null Hypothesis

Two Sample T Test

Test Information

Test Name: Test1

Statistical Test: Two Sample T-Test

Significance Level: 0.1

Select Data

Group: Metric1, Metric2

Workspaces: Metric1:Sub01\Sub01_Workspace.cmz\, Metric1:Sub02\Sub02_Workspace.cmz\, Metric1:Sub03\Sub03_Workspace.cmz\, Metric1:Sub04\Sub04_Workspace.cmz\, Metric1:Sub05\Sub05_Workspace.cmz\, Metric1:Sub06\Sub06_Workspace.cmz\

☐ Use Excluded Data ☒ Use All Workspaces

Result Information

Result Name: Test1

Test Information	
Statistical Test	Two Sample T Test
Significance Level	0.1
Group1	Metric1
Group2	Metric2

Group Results	
Overall	
Mean	39.3258
Standard Deviation	7.19857
Standard Error	0.60409
N	142
Metric1	
Metric2	

Test Results	
Degrees of Freedom	140
Pooled Standard Deviation	7.19857
T Stat	-62.2702
Do Not Reject Null Hypothesis	

Cancel Compute Stats Test

Test Information

To run a two sample t test you will need to input the following:

- **Test Name**
- **** Statistical Test: Two Sample T Test * ** Significance Level:** Options of 0.2,0.1,

0.05,0.01,0.002

- **Data Selection**

- **Group:** Two Metrics must be selected
- **Workspaces:** Select all workspaces you want included in your test
- **Use Excluded Data:** If checked, any excluded data will be included in your test
- **Use All Workspaces:** If checked, all workspaces will be used in your test

Result Information

Once the test has run the results information will be displayed:

- **Result Name:** Drop down to ensure you are looking at the right test
- **Test Information**
 - **Statistical Test:** What test was performed
 - **Significance Level:** What significance level was used to run the test
 - **Group1:** Name of group one used in test. If expanded the selected workspaces will be shown
 - **Group2:** Name of group two used in test. If expanded the selected workspaces will be shown
- **Group Results**
 - For each group and overall the following results will be shown
 - **Mean**
 - **Standard Deviation**
 - **Standard Error**
 - **N**
- **Test Results**
 - **Degrees of Freedom**
 - **** Pooled Standard Deviation****
 - **T Stat**
 - **Null Hypothesis :** Either will say Do Not Reject Null Hypothesis, or Reject Null Hypothesis

Paired T Test

Test Information

Test Name

Test2

Statistical Test

Paired T-Test

Significance Level

0.1

Select Data

Group

Metric1

Metric2

Workspaces

Metric1:Sub01\Sub01_Workspace.cmz\

Metric1:Sub02\Sub02_Workspace.cmz\

Metric1:Sub03\Sub03_Workspace.cmz\

Metric1:Sub04\Sub04_Workspace.cmz\

Metric1:Sub05\Sub05_Workspace.cmz\

Metric1:Sub06\Sub06_Workspace.cmz\

☐ Use Excluded Data
 ☒ Use All Workspaces

Result Information

Result Name

Test2

Test Information

Statistical Test

Paired T Test

Significance Level

0.1

Group1

Metric1

Group2

Metric2

Group Results

Overall

Mean

39.3258

Standard Deviation

7.19857

Standard Error

0.60409

N

142

Metric1

Metric2

Test Results

Degrees of Freedom

70

Mean of Differences

-75.2337

Standard Deviation of Differences

10.1601

Standard Error of Differences

1.20578

T Stat

-62.3943

Do Not Reject Null Hypothesis

Cancel

Compute Stats Test

Test Information

To run a Paired t test you will need to input the following:

- **Test Name**
- **** Statistical Test: Paired T Test * ** Significance Level:** Options of 0.2,0.1, 0.05,0.01,0.002

- **Data Selection**

- **Group:** Two Metrics must be selected
- **Workspaces:** Select all workspaces you want included in your test
- **Use Excluded Data:** If checked, any excluded data will be included in your test
- **Use All Workspaces:** If checked, all workspaces will be used in your test

Result Information

Once the test has run the results information will be displayed:

- **Result Name:** Drop down to ensure you are looking at the right test
- **Test Information**
 - **Statistical Test:** What test was performed
 - **Significance Level:** What significance level was used to run the test
 - **Group1:** Name of group one used in test. If expanded the selected workspaces will be shown
 - **Group2:** Name of group two used in test. If expanded the selected workspaces will be shown
- **Group Results**
 - For each group and overall the following results will be shown
 - **Mean**
 - **Standard Deviation**
 - **Standard Error**
 - **N**
- **Test Results**
 - **Degrees of Freedom**
 - **Mean of Differences**
 - **Standard Deviation of Differences**
 - **Standard Error of Differences**
 - **T Stat**
 - **Null Hypothesis** : Either will say Do Not Reject Null Hypothesis, or Reject Null Hypothesis

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Last update: 2025/07/24 17:33

