

Sift Command Line

It is possible to run sift from the command line, this offers several advantages:

- With no need to update a GUI or plots the application will run much faster
- With experience it makes it possible to quickly execute commands
- Creating a bat file or python script it is possible to completely automate processing

Running Sift From Command Line

To start sift in command line mode, open a command line console, navigate to Sift's install directory and run sift with any argument that starts with a single dash (-) if you do not want to run any commands as Sift is launched you can instead pass **-NoGUI**

Command Line Overview

- Commands are prefixed with a dash these are considered a reserved character, but Sift will ignore any dashes that are within double quotes so file-name.txt will cause an error, where "file-name.txt" will not.
- Commands and parameters are case insensitive
- any parameters containing a space or a dash (e.g. a folder path) must be wrapped in double quotes ("")
- Command parameters are named not positional, so the order they are passed does not matter
- Some commands have a default parameter, in these cases the parameter name can be omitted, for example with -loadLib the directory parameter name is optional. so either of the following will work: -loadLib directory "folder path" or -loadLib "folder path". These parameters are marked as default in the list below
- Commands can be entered all at once in the same command that launches sift, or one at a time
- To exit pass the command **-Exit**, or press **Ctrl + C** to quickly exit at any time (Sift will exit once the current command finishes executing)
- Most commands have one or more aliases that will be accepted

Help Command

If at any point you need help remembering a command or its parameters you can use the help function. Enter the command **-Help** to receive a list of all available commands within the command line:

```

*****
**  Enter command, -exit to close, or -help for a list of commands  **
*****
>> -Help

LoadLib | l
=====
Search the provided directory and all sub directories for .cmz files and load them
    ~ directory
    ~ libQuery
    ~ libSubjTags

LoadQuery | q
=====
Load and calculate a predefined query
    ~ file

RunPCA | pca
=====
Run Principal Component Analysis
    ~ name
    ~ numPCs
    ~ workspaceMean

```

This will display the commands default name and any aliases separated by |'s, below each will be a brief description of the command as well as a list of all it's parameters

From here, if you want some more information about a specific command and its parameters you can enter the command of interest and pass it the **help** parameter, this will give a more detailed description of the command and its parameters:

```

*****
**  Enter command, -exit to close, or -help for a list of commands  **
*****
>> -RunPCA help

RunPCA | pca
=====
Run Principal Component Analysis

Parameters
    ~ name
        - The name of the new PCA being computed
        - Required: True
        - Default Value: N/A
        - Data Type: String
    ~ numPCs
        - The number of dimensions to reduce to
        - Required: False
        - Default Value: 4
        - Data Type: Integer
    ~ workspaceMean
        - If passed PCA will be run on the mean value of each workspace, and not individual traces
        - Required: False
        - Default Value: false
        - Data Type: True / False

```

This will display the command name and any accepted aliases, and below that a list of all parameters complete with a description and some more details about the parameter:

- Whether or not this parameter is required for the command to run
- The default value of the parameter if its not passed
- The expected data type of the parameter

Command Reference

-LoadLib / -l

Search the provided directory and all sub directories for .cmz files and load them into the library

Parameters

****directory (DEFAULT) (REQUIRED) ****

A path to the root directory to be searched recursively for .cmzs

- **Data Type:** String (Directory)
- **Default Value:** N/A

****libQuery ****

The query used to refine the files loaded into the library

- **Data Type:** String
- **Default Value:** NULL

****libSubjTags ****

A list of subject tags that must be included within the .cmzs

- **Data Type:** String
- **Default Value:** NULL

```
-LoadLib "C:\Library Location\Data" libQuery "RUN AND NOT(OLD)" libSubjTags "RUN"
```

-LoadND / -lnd

Takes in the filepath for a Sift Normal Database .Sift file and loads it into the current project.

Parameters

****File (DEFAULT) (REQUIRED) ****

A filepath with the Normal Database .sift file to be loaded into the workspace

- **Data Type:** String (File Path)
- **Default Value:** N/A

```
-LoadND "C:\Library Location\Data\ND.sift"
```

-LoadQuery / -q

Load and calculate a predefined query

Parameters

****file (DEFAULT) (REQUIRED) ****

Path to the .q3d containing query definitions

- **Data Type:** String (File Path)
- **Default Value:** N/A

```
-LoadQuery file "C:\Data\query.q3d"
```

-LoadProject / -ld

Load a previously saved project

Parameters

****file (DEFAULT) (REQUIRED) ****

The path and name of the project

- **Data Type:** String (File Path)
- **Default Value:** N/A

****loadLib ****

If passed Sift will attempt to load the library associated with the project

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-LoadProject "C:\Saved Projects\test_project.i3d" loadLib
```

-LoadNDQuery / -ndq

Load and calculate a predefined Normal Database query

Parameters

**file (DEFAULT) (REQUIRED) **

Path to the .q3d containing query definitions

- **Data Type:** String (File Path)
- **Default Value:** N/A

```
-LoadNDQuery file "C:\Data\NDquery.q3d"
```

-SaveProject / -sv

Save the current project

Parameters

**file (DEFAULT) (REQUIRED) **

The path and name of the file

- **Data Type:** String (File Path)
- **Default Value:** N/A

```
-SaveProject file "C:\Project Files\test_project.i3d"
```

-ClearProject / -clr

Clear and create a new project workspace (All unsaved progress will be lost)

```
-ClearProject
```

-SelectSignals / -sig

Select queried signals (if no parameters are passed all signals are selected)

Parameters

group

The name of a group to be selected (pass multiple times to select more than one)

- **Data Type:** List
- **Default Value:** NULL

workspace

The name of a workspace to be selected (pass multiple time to select more than one)

- **Data Type:** List
- **Default Value:** NULL

```
-SelectSignals group "KneeAngleX"
```

-SelectMetrics / -met

Select queried metrics (if no parameters are passed all metrics are selected)

Parameters

group

The name of the group to be selected (pass multiple times to select more than one)

- **Data Type:** List
- **Default Value:** NULL

workspace

The name of the workspace to be selected (pass multiple times to select more than one)

- **Data Type:** List
- **Default Value:** NULL

```
-SelectMetrics group "AnkleAngleX" group "AnkleAngleY" workspace "P002"
```

-RunTheiaBatch / -RunTheia / -RTB

Make a call to Theia3D.exe and pass an instruction file

Parameters

**settingsFile (DEFAULT) (REQUIRED) **

The instruction set for Theia3D

- **Data Type:** String (File Path)
- **Default Value:** N/A

**theiaLocation **

The location of Theia3D.exe, if not passed a default value will be used, either the last successful location used or the default install location

- **Data Type:** String (File Path)
- **Default Value:** NULL

```
-RunTheiaBatch theiaLocation "C:\Program Files\Theia\Theia3D\Theia3D.exe"  
settingsFile "C:\Data\Theia\The3DSettingsFile.txt"
```

-BuildNormalDatabase / -BuildND

Build a normal database using currently queried data

Parameters

**excludedData **

Pass to use excluded data when creating normal database

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**filePath (DEFAULT) (REQUIRED) **

Location to save the ND

- **Data Type:** String (File Path)
- **Default Value:** N/A

**group **

Group to build normal database with, pass multiple time to select more than one, do not pass to select all

- **Data Type:** List
- **Default Value:** NULL

**librarySummary **

Pass to include a library summary in the normal database, if no other summaries are passed this is the default

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****summaryStats ****

What statistics to build the normal database with, pass multiple times to select more than one, do not pass to select all

- **Data Type:** List
- **Default Value:** NULL
- **Options:** Mean, Median, Mode, Trimean, Geometric Mean, Trimmed Mean, Standard Deviation, Variance, Range, 1st Quartile, 3rd Quartile, Interquartile Range, 5th Percentile, 95th Percentile, Mean Absolute Deviation, Median Absolute Deviation

****trialSummary ****

Pass to include a trial summary in the normal database, if no other summaries are passed librarySummary is the default

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****workspaceSummary ****

Pass to include a workspace summary in the normal database, if no other summaries are passed librarySummary is the default

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-BuildNormalDatabase "C:\Library\ND.sift" group "AnkleAngleX" summaryStats  
"Mean" summaryStats "Mode" librarySummary
```

-RunPCA / -pca

Run Principal Component Analysis on selected groups / workspaces

Parameters

****name (DEFAULT) (REQUIRED) ****

The name of the PCA

- **Data Type:** String
- **Default Value:** N/A

****numPCs ****

The number of principal components calculated

- **Data Type:** Integer
- **Default Value:** 4

****workspaceMean ****

If passed run PCA on workspace mean instead of individual traces

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunPCA name "Sample_PCA" numPCs "4" workspaceMean
```

-RunLOF / -lof

Run Local Outlier Factor on currently active PCA

Parameters****autoExclude ****

If passed any outliers found will be excluded automatically

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****grouping ****

How should data be grouped before looking for outliers

- **Data Type:** String
- **Default Value:** combined group
- **Options:** combined group, group, workspace

****manualThreshold ****

The threshold to consider when searching for outliers

- **Data Type:** Decimal
- **Default Value:** 3

****numNeighbors ****

How many neighbors should each point be compared to

- **Data Type:** Integer
- **Default Value:** 14

****numPasses ****

How many iterations of the test should be run

- **Data Type:** Integer
- **Default Value:** 1

****numPCs ****

How many principal components should the test be run on

- **Data Type:** Integer
- **Default Value:** 2

**PCsVariance **

Determine the number of PCs by variance explained

- **Data Type:** Decimal
- **Default Value:** 95

**scaleToVariability **

Scale all calculated values to the variability explained by the PC

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunLOF grouping "combined group" numPasses "2" numNeighbors "7"  
autoExclude
```

-RunKMeans / -kmeans

Run K-Means clustering on currently active PCA

Parameters

**clusters **

How many clusters generated

- **Data Type:** Integer
- **Default Value:** 2

**customSeed **

Provide a seed for the random first centroid (produces repeatable results)

- **Data Type:** Integer
- **Default Value:** 0

**grouping **

How should data be grouped before being clustered

- **Data Type:** String
- **Default Value:** combined group
- **Options:** combined group, group, workspace

**iterations **

How many iterations of the test should be run

- **Data Type:** Integer
- **Default Value:** 1

****numPCs ****

The number of principal components to run the test on

- **Data Type:** Integer
- **Default Value:** 2

****PCsVariance ****

Determine the number of PCs by variance explained

- **Data Type:** Decimal
- **Default Value:** 95

****scaleToVariability ****

Scale all calculated values to the variability explained by the PC

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunKMeans clusters "4" scaleToVariability
```

-RunSPE / -spe

Run Squared Prediction Error on the currently active PCA

Parameters****alphaValue ****

The alpha threshold used to determine outliers

- **Data Type:** Decimal
- **Default Value:** 0.1
- **Options:** 0.1, 0.05, 0.025, 0.01, 0.005

****autoExclude ****

If passed any outliers found will be exclude automatically

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****numPCs ****

The number of principal components to run the test on

- **Data Type:** Integer
- **Default Value:** 2

****PCsVariance ****

scale calculated values to variability explained

- **Data Type:** Decimal
- **Default Value:** 95

```
-RunSPE alphaValue "0.005" PCsVariance "80.0"
```

-RunMah / -mah

Run Mahalanobis Distance test on the currently active PCA

Parameters

**alphaValue **

The alpha threshold used to determine outliers

- **Data Type:** Decimal
- **Default Value:** 0.1
- **Options:** 0.1, 0.05, 0.025, 0.01, 0.005

**autoExclude **

If passed any outliers found will be excluded automatically

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**grouping **

How should data be grouped before running

- **Data Type:** String
- **Default Value:** combined group
- **Options:** combined group, group, workspace

**numPasses **

How many iterations of the test should be run

- **Data Type:** Integer
- **Default Value:** 1

**numPCs **

The number of principal components to run the test on

- **Data Type:** Integer
- **Default Value:** 2

**PCsVariance **

Determining the number of PCs by variance explained instead of number

- **Data Type:** Decimal
- **Default Value:** 95

****scaleToVariance ****

scale calculated values to variability explained

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunMah grouping "group" alphaValue "0.5" autoExclude
```

-RunGDI

Calculate Gait Deviation Index (GDI)

Parameters****computeComponents ****

If passed compute all component queries

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****computeQueries ****

If passed compute generated queries after running

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****leftEvent ****

The left gait event used

- **Data Type:** String
- **Default Value:** NULL

****normalDatabase (REQUIRED) ****

The normal database used to run GDI

- **Data Type:** String (File Path)
- **Default Value:** N/A

****normalizedPoints ****

The number of points to normalize to

- **Data Type:** Integer
- **Default Value:** 0

****rightEvent ****

The right gait event used

- **Data Type:** String

- **Default Value:** NULL

****settingsFile (DEFAULT) (REQUIRED) ****

The settings XML file containing the calculate instructions, to overwrite the settings within the file pass the associated parameter

- **Data Type:** String (File Path)
- **Default Value:** N/A

****signalFolder ****

What folder to search for signals

- **Data Type:** String
- **Default Value:** NULL

-RunV3D / -s / -lpath

Run pipelines via the Visual3D engine

Parameters

****exportLog ****

If passed a processing log will be exported to the file path provided

- **Data Type:** String (File Path)
- **Default Value:** NULL

****onLib ****

If passed the scripts will be run on the loaded library

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****script (DEFAULT) (REQUIRED) ****

A path to the script file, multiple scripts can be passed by repeating the parameter (Scripts are executed in the order passed)

- **Data Type:** List
- **Default Value:** N/A

```
-RunV3D script "C:\Scripts\v3d_script.v3s" exportLog  
"C:\Scripts\v3d_script_export.txt"
```

-RunV3DCommand / -c

Run a single V3D pipeline command (Can be used multiple times to execute multiple commands)

Parameters

**command (DEFAULT) (REQUIRED) **

The pipeline command executed

- **Data Type:** String
- **Default Value:** N/A

```
-RunV3DCommand command "Set_Default_Folders / DEFAULT_DATA = C:\Users\Shane  
Granger\Desktop\Intro_Project\SPL - Open - Data -  
main\basketball\freethrowdata; "
```

-DirPath

Set a global variable within the V3D Engine to the passed path

Parameters

**path (DEFAULT) (REQUIRED) **

The path to set

- **Data Type:** String (Directory)
- **Default Value:** N/A

```
-DirPath path "C:\Work Directory\Data"
```

-SetEnginePluginsFolder / -SEPF

Set the location the engine will look for plugins e.g Meta-Commands

Parameters

**folderPath (DEFAULT) (REQUIRED) **

The path to the engine plugins folder

- **Data Type:** String (Directory)
- **Default Value:** N/A

```
-SetEnginePluginsFolder folderPath "C:\Engine Resources"
```

-RegisterCurves / -rc

Register time series data to align certain landmarks / events

Parameters

**eventSequence **

Register by events

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**localMax **

Register by local maximum

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**localMaxLower **

The lower bounds of the local max

- **Data Type:** Integer
- **Default Value:** -1

**localMaxUpper **

The upper bounds of the local max

- **Data Type:** Integer
- **Default Value:** -1

**localMin **

Register by local minimum

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**localMinLower **

The lower bounds of the local minimum

- **Data Type:** Integer
- **Default Value:** -1

****localMinUpper ****

The upper bounds of the local minimum

- **Data Type:** Integer
- **Default Value:** -1

****max ****

Register by maximum

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****min ****

Register by minimum

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****name (DEFAULT) (REQUIRED) ****

The name for the new group created

- **Data Type:** String
- **Default Value:** N/A

```
-RegisterCurves name "Knee Angle X Reg" max min
```

-CreateGLM / -glm

Create a General Linear Model using the selected groups / workspaces

Parameters

****grouping ****

The grouping used for the model

- **Data Type:** String
- **Default Value:** group
- **Options:** workspace, group

****name (DEFAULT) (REQUIRED) ****

The name of the GLM

- **Data Type:** String
- **Default Value:** N/A

****test ****

The intended test type for the model

- **Data Type:** String
- **Default Value:** two_sample
- **Options:** one_sample, two_sample, paired, one_way_anova

****workspaceMeans ****

If passed use workspace means, instead of the individual traces

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-CreateGLM name "GLM_ONE" test "one_sample" grouping "group" workspaceMeans
```

-RunSPM1ttest

Run Statistical Parametric Mapping One-Sample T-Test

Parameters

****alpha (REQUIRED) ****

The alpha value to threshold with

- **Data Type:** Decimal
- **Default Value:** N/A

****glm (REQUIRED) ****

The name of the GLM to use when creating the SPM

- **Data Type:** String
- **Default Value:** N/A

****group (REQUIRED) ****

The name of the group to test

- **Data Type:** String
- **Default Value:** N/A

****name (REQUIRED) ****

The name of the SPM being created

- **Data Type:** String
- **Default Value:** N/A

****twoTailed ****

If two-tailed inference (as opposed to one-tailed)

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunSPM1TTest name "SPM_1_Test" glm "GLM_ONE" alpha "0.7" group  
"AnkleAngleX"
```

-RunSPM2ttest / -spm

Run Statistical Parametric Mapping Two-Sample T-Test

Parameters

**alpha (REQUIRED) **

The alpha value to threshold with

- **Data Type:** Decimal
- **Default Value:** N/A

**glm (REQUIRED) **

The name of the GLM to use when creating the SPM

- **Data Type:** String
- **Default Value:** N/A

**group1 (REQUIRED) **

The name of the first group to test

- **Data Type:** String
- **Default Value:** N/A

**group2 (REQUIRED) **

The name of the second group to test

- **Data Type:** String
- **Default Value:** N/A

**name (REQUIRED) **

The name of the SPM being created

- **Data Type:** String
- **Default Value:** N/A

**twoTailed **

If two-tailed inference (as opposed to one-tailed)

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunSPM2TTest name "spm_two_sample" glm "GLM_TW0" group1 "KneeAngleX"  
group2 "HipAngleX"
```

-RunSPMpairedttest

Run Statistical Parameteric Mapping Paired T-Test

Parameters

**alpha (REQUIRED) **

The alpha value to threshold with

- **Data Type:** Decimal
- **Default Value:** N/A

**glm (REQUIRED) **

The name of the GLM to use when creating the SPM

- **Data Type:** String
- **Default Value:** N/A

**group1 (REQUIRED) **

The name of the first group to test

- **Data Type:** String
- **Default Value:** N/A

**group2 (REQUIRED) **

The name of the second group to test

- **Data Type:** String
- **Default Value:** N/A

**name (REQUIRED) **

The name of the SPM being created

- **Data Type:** String
- **Default Value:** N/A

**twoTailed **

If two-tailed inference (as opposed to one-tailed)

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunSPMPairedTTest name "spm_pair" glm "GLM_ONE" group1 "AnkleAngleX"
group2 "KneeAngleX"
```

-RunSPMOneWayAnova

Run Statistical Parameteric Mapping one way Anova test

Parameters

**alpha (REQUIRED) **

The alpha value to threshold with

- **Data Type:** Decimal
- **Default Value:** N/A

**glm (REQUIRED) **

The name of the GLM to use when creating the SPM

- **Data Type:** String
- **Default Value:** N/A

**name (REQUIRED) **

The name of the SPM being created

- **Data Type:** String
- **Default Value:** N/A

**twoTailed **

If two-tailed inference (as opposed to one-tailed)

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-RunSPMOneWayAnova name "anova_spm" glm "GLM_2" twoTailed
```

-RunDTW / -dtw

Run Dynamic Time Warping

Parameters

**DTWType **

The type of DTW test to run.

- **Data Type:** String
- **Default Value:** FindOutliers
- **Options:** FindOutliers, FindTrace

****exclude ****

Do you want to exclude the found traces?

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****framesOfTrace ****

The frames of the trace you want to compare the dataset to. Example input frames: [1,100]

- **Data Type:** String
- **Default Value:** NULL

****groupOfTrace ****

The group of the trace you want to compare the dataset to.

- **Data Type:** String
- **Default Value:** NULL

****groups (REQUIRED) ****

Groups to run DTW on

- **Data Type:** List
- **Default Value:** N/A

****standardDeviations ****

How many standard deviation to test for: 1-3

- **Data Type:** Integer
- **Default Value:** 1
- **Options:** 1, 2, 3

****testName (REQUIRED) ****

The name of the DTW test being run.

- **Data Type:** String
- **Default Value:** N/A

****trialOfTrace ****

The trial of the trace you want to compare the dataset to.

- **Data Type:** String
- **Default Value:** NULL

****workspaceOfTrace ****

The workspace of the trace you want to compare the dataset to.

- **Data Type:** String
- **Default Value:** NULL

****workspaces ****

Workspaces to run DTW on, if left blank all workspaces will be used.

- **Data Type:** List
- **Default Value:** NULL

```
-RunDTW name "SAMPLE_DTW" standardDeviations "3"
```

-RunGPS / -GPS

Calculates GPS metrics for the loaded data.

Parameters

computeComponentQueries

If passed calculate individual component queries generated by results

- **Data Type:** Boolean (True / False)
- **Default Value:** false

computeQueries

If passed calculate all queries generated by results

- **Data Type:** Boolean (True / False)
- **Default Value:** false

leftEvent

The left cycle event to use for gait

- **Data Type:** String
- **Default Value:** NULL

normalDatabase (REQUIRED)

Path to normal database file

- **Data Type:** String (File Path)
- **Default Value:** N/A

normalizedPoints

How many points to normalize to

- **Data Type:** Integer
- **Default Value:** 0

p2dFolder

The normal database folder (only used for .vnd files)

- **Data Type:** String
- **Default Value:** NULL

rightEvent

The right cycle event to use for gait

- **Data Type:** String
- **Default Value:** NULL

**settingsFile (DEFAULT) (REQUIRED) **

Path to XML settings file, to overwrite any settings within the file pass the associated parameter

- **Data Type:** String (File Path)
- **Default Value:** N/A

**signalFolder **

The folder the signal can be found in

- **Data Type:** String
- **Default Value:** NULL

**signalType **

The signal type the signal can be found in

- **Data Type:** String
- **Default Value:** NULL

```
-RunGPS "C:\Data Folder\GPS Settings File.xml" leftEvent "RT0"
```

-RunGGA / -GGA

Execute the GGA process on all loaded .cmz files in the library using the configured parameters and settings.

Parameters

**computeQuery **

Compute query after calculation

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**leftCycleEvent **

The left cycle event to be evaluated

- **Data Type:** String
- **Default Value:** NULL

**leftSelects **

Select the left side signals for GGA processing

- **Data Type:** List
- **Default Value:** NULL

****pelvis ****

Select pelvis signal to use for GGA computation

- **Data Type:** String
- **Default Value:** NULL

****settingsFile ****

A path to a LGGA settings file

- **Data Type:** String (File Path)
- **Default Value:** NULL

****signalFolder ****

The folder of signals you would like to process for LGGA

- **Data Type:** String
- **Default Value:** ORIGINAL
- **Options:** ORIGINAL, PROCESSED

****signalMagnitude ****

Use signal magnitude for LGGA

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****trunk ****

Select trunk signal to use for GGA computation

- **Data Type:** String
- **Default Value:** NULL

```
-runGGA leftCycleEvent "LHS" leftSelects "LAnklePower" rightCycleEvent  
"RHS" computeQuery
```

-ExportData / -ex

Export queried data

Parameters

****allSequencesNorm ****

CommandExport all sequences normalized

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****allSequencesTime ****

CommandExport all time based sequences

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**eventsNorm **

CommandExport all events normalized

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**eventsOrig **

CommandExport all time based events

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**exportFormat **

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

**file (REQUIRED) **

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

**groupMean **

CommandExport the mean value of each group

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**groupStdDev **

CommandExport the standard deviation of each group

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**normalizedTo **

Normalize values to...

- **Data Type:** String
- **Default Value:** 101

**precision **

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

****workspaceMean ****

CommandExport the mean of each workspace

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****workspaceStdDev ****

CommandExport the standard deviation of each workspace

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-ExportData file "C:\Data\Export Folder\data_export.txt" precision "2"
exportFormat "transposed" groupMean groupStdDev workspaceMean
workspaceStdDev
```

-ExportSummaryStatistics

Export summary statistics

Parameters

****addMetrics ****

Export metrics

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****exportFormat ****

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

****file (REQUIRED) ****

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

****max ****

Export the maximum value

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****maxEventPoint ****

Export the maximum event point

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**maxStdDev **

Export the maximum standard deviation

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**mean **

Export the mean value

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**meanStdDev **

Export the mean standard deviation

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**min **

Export the minimum value

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**minEventPoint **

Export the minimum event point

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**minStdDev **

Export the minimum standard deviation

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**normalizeMetrics **

Normalize exported metrics

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**precision **

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

**results **

Export results for: Groups, Workspaces, Instances

- **Data Type:** String
- **Default Value:** groups
- **Options:** groups, workspaces, instances

```
-ExportSummaryStatistics file "C:\Exports\summary_stats.txt" results  
"workspaces" mean min max
```

-ExportStatsTestResults

Export results from statistical tests

Parameters

**exportFormat **

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

**file (REQUIRED) **

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

**groupResults **

Export group results: Mean, Standard Deviation, Standard Error, N

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**precision **

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

**testInfo **

Export test information: Statistical Test, Significance Level, Population Mean, Group1 : Name of group used

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**testResults **

Export test results: Degrees of Freedom, T Stat, Null Hypothesis

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-ExportStatsTestResults file "C:\Exports\stats_results.txt" testInfo  
groupResults testResults
```

-ExportRegisteredCurves

Export results of curve registration

Parameters

**exportFormat **

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

**file (REQUIRED) **

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

**landmarkAll **

Export all landmarks

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**landmarkMeans **

Export the landmark mean value

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**precision **

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

**registeredCurves **

Export registered curves

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**warpingFunctions **

Export all warping functions

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-ExportRegisteredCurves file "C:\Export Folder\registered_curves.txt"
registeredCurves warpingFunctions landmarkMeans
```

-ExportDTW

Export Dynamic Time Warping results

Parameters

**costFunctions **

Export cost functions

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**exportFormat **

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

**file (REQUIRED) **

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

**foundAnomalies **

Export all outliers found with dynamic time warping

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**precision **

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

```
-ExportDTW file "C:\DTW DATA\export.txt" costFunctions foundAnomalies
```

-ExportSPM

Export Statistical Parameteric Mapping results

Parameters

**bMatrix **

Export the B Matrix used

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**exportFormat **

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

**file (REQUIRED) **

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

**precision **

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

**residualMatrix **

Export the residual matrix

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**spm **

Export the statistical parameteric map

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-ExportSPM file "C:\Export Folder\SPM.txt" bMatrix residualMatrix spm
```

-ExportPCA

Export Principal Component Analysis results

Parameters

**eigenVectors **

Export the eigen vectors

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**exportFormat **

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

**file (REQUIRED) **

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

**groupScores **

Export group scores

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**groupStdDev **

Export group standard deviation

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**kMeans **

Export K-Means results

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**lof **

Export local outlier factor results

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****lofThreshold ****

Export threshold to determine an LOF outlier

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****mahDis ****

Export the mahalanobis distance results

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****mahDisThreshold ****

Export the threshold used to determine a mahalanobis distance outlier

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****mean595 ****

Export the mean plus or minus 5 and 95%

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****meanSD ****

Export the mean plus or minus one standard deviation

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****precision ****

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

****spe ****

Export squared prediction error results

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****speThreshold ****

Export the threshold to determine an SPE outlier

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****varianceExplained ****

Export the variance explained

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****workspaceScores ****

Export workspace scores

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-ExportPCA file "C:\Processing Folder\PCA\export.txt" groupScores  
workspaceScores lof spe
```

-ExportND

Export Principal Component Analysis results

Parameters****exportFormat ****

What format should be exported: Standard ASCII, Transposed ASCII, SPSS ASCII, P2D, CSV

- **Data Type:** String
- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d, csv

****file (REQUIRED) ****

Desired path for the text export to be saved

- **Data Type:** String (File Path)
- **Default Value:** N/A

****ndSignals ****

Export Normal Database Signals

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****precision ****

How many decimal places should values be displayed to

- **Data Type:** String
- **Default Value:** 4

```
-ExportND file "C:\Processing Folder\ND\export.txt" ndSignals
```

-ExportPlotSignalTime / -ExportPlotST / -EPST

Export a signal time plot using the currently selected groups / workspaces

Parameters

**dataStyle **

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

**filePath (DEFAULT) (REQUIRED) **

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

**groupDispersion **

If passed group dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**groupDispersionType **

The type of dispersion to be displayed for groups

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

**groupMean **

If passed group mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**height **

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**legend **

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

**rawTraces **

If passed individual traces will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**title **

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

**width **

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**workspaceDispersion **

If passed workspace dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**workspaceDispersionType **

The type of dispersion to be displayed for workspaces

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

**workspaceMean **

If passed workspace mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**xLabel **

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

**XRange **

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

**yLabel **

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange ****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotSignalTime filePath "C:\Plots\signal_time.png" groupMean  
WorkspaceMean groupDispersion workspaceDispersion
```

-ExportPlotMetric / -ExportPlotM / -EPM

Export a metric plot using the currently selected groups / workspaces

Parameters****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****groupDispersion ****

If passed group dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****groupDispersionType ****

The type of dispersion to be displayed for groups

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

****groupMean ****

If passed group mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**legend **

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

**meanPlotStyle **

How should means be displayed

- **Data Type:** String
- **Default Value:** Bar Chart
- **Options:** Bar Chart, Stacked Bar Chart, Box Plot

**metricGrouping **

How should workspace means be grouped?

- **Data Type:** String
- **Default Value:** No Group
- **Options:** No Group, Group, Workspace

**rawTraces **

If passed individual traces will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**title **

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

**width **

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**workspaceDispersion **

If passed workspace dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**workspaceDispersionType **

The type of dispersion to be displayed for workspaces

- **Data Type:** String

- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

****workspaceMean ****

If passed workspace mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****xLabel ****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange ****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel ****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange ****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotMetric file "C:\Plot Exports\metric_plot.png" groupMean  
meanPlotStyle "Stacked Bar Chart"
```

-ExportPlotPairSignal / -ExportPlotPS / -EPPS

Export a Signal Signal plot using the currently selected groups / workspaces

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****groupDispersion ****

If passed group dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****groupDispersionType ****

The type of dispersion to be displayed for groups

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

****groupMean ****

If passed group mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend ****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****pair (REQUIRED) ****

Add a pair of two groups, seperate group names with '|' eg. "GROUP_1|GROUP_2"

- **Data Type:** List
- **Default Value:** N/A

****rawTraces ****

If passed individual traces will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****title ****

The title of the plot.

- **Data Type:** String

- **Default Value:** ###

width

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

workspaceDispersion

If passed workspace dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

workspaceDispersionType

The type of dispersion to be displayed for workspaces

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

workspaceMean

If passed workspace mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

xLabel

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

XRange

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

yLabel

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

YRange

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotPairSignal filePath "C:\Plot Folder\signalSignal.pdf"  
workspaceMean workspaceDispersion
```

-ExportPlotPairMetric / -ExportPlotPM / -EPPM

Export a Metric Metric plot using the currently selected groups / workspaces

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****groupDispersion ****

If passed group dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****groupDispersionType ****

The type of dispersion to be displayed for groups

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

****groupMean ****

If passed group mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****jitterX ****

The random offset of each point on the X Axis

- **Data Type:** Decimal

- **Default Value:** 0

**jitterY **

The random offset of each pointer on the Y Axis

- **Data Type:** Decimal
- **Default Value:** 0

**legend **

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

**pair (REQUIRED) **

Add a pair of two groups, seperate group names with '|' eg. "GROUP_1|GROUP_2"

- **Data Type:** List
- **Default Value:** N/A

**rawTraces **

If passed individual traces will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**title **

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

**width **

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**workspaceDispersion **

If passed workspace dispersion will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**workspaceDispersionType **

The type of dispersion to be displayed for workspaces

- **Data Type:** String
- **Default Value:** One Standard Deviation
- **Options:** One Standard Deviation, Two Standard Deviations, Interquartile Range

**workspaceMean **

If passed workspace mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****xLabel ****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange ****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel ****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange ****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotPairMetric filePath "C:\Plot Folder\pair_metric_plot.jpg" pair  
"Stride_Length_Start|Stride_Length_End" jitterX "0.2" jitterY "0.2"
```

-ExportPlotSPM / -EPSPM

Export the current SPM plot

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****height****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****title****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****xLabel****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
ExportPlotSPM filePath "C:\Plots\SPM\spm_plot"
```

-ExportPlotResiduals / -ExportPlotR / -EPR

Export the current GLMs residuals plot

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend ****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****title ****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width ****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****xLabel ****

Label for the X-Axis.

- **Data Type:** String

- **Default Value:** ###

****XRange ****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel ****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange ****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotResiduals filePath "C:\Plots\SPM\glm_residuals.png"
```

-ExportPlotB / -EPB

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend ****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String

- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****title ****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width ****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****xLabel ****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange ****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel ****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange ****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotB filePath "C:\ProcessingPlots\bPlot.png" dataStyle "Workspace"
legend "Bottom Right"
```

-ExportPlotVarianceExplained / -ExportPlotVE / -EPVE

Export the current PCAs variance explained plot

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend ****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****title ****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width ****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****xLabel ****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange ****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel ****

Label for the Y-Axis.

- **Data Type:** String

- **Default Value:** ###

**YRange **

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotVarianceExplained filePath "C:\Plots\PCA\variace explained.png"
```

-ExportPlotLoadingVector / -ExportPlotLV / -EPLV

Export the current PCAs loading vectors plot

Parameters

**dataStyle **

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

**filePath (DEFAULT) (REQUIRED) **

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

**flipPC **

If passed, invert PC

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**height **

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**legend **

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****pcNumber ****

The principal component to plot.

- **Data Type:** Integer
- **Default Value:** 1

****title ****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width ****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****xLabel ****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange ****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel ****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange ****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotLoadingVector file "C:\Processing\PCA\loading_vector_plot.png"  
xRange "20,70"
```

-ExportPlotWorkspaceScores / -ExportPlotWS / -EPWS

Export the current PCAs workspace scores plot

Parameters

**dataStyle **

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

**filePath (DEFAULT) (REQUIRED) **

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

**height **

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**legend **

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

**normalizeScores **

If passed workspace scores will be normalized

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**title **

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

**width **

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**XAxisPC **

Principal Component represented on the X Axis

- **Data Type:** Integer
- **Default Value:** 1

**xLabel **

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

**XRange **

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

**YAxisPC **

Prinicipal Component represented on the Y Axis

- **Data Type:** Integer
- **Default Value:** 2

**yLabel **

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

**YRange **

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotWorkspaceScores filePath "C:\Plots\PCA\workspace_scores.png"  
xAxisPC "2" yAxisPC "3"
```

-ExportPlotGroupScores / -ExportPlotGS / -EPGS

Export the current PCAs groups scores plot

Parameters

**dataStyle **

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

**filePath (DEFAULT) (REQUIRED) **

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****height****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****title****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****xLabel****

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

****XRange****

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

****yLabel****

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

****YRange****

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotGroupScores filePath "C:\Processing\PCA\group_scores_plot.png"
```

title "Group Scores Ankle Angle X"

-ExportPlotReconstruction / -ExportPlotR / -EPR

Export the current PCAs reconstruction plot

Parameters

dataStyle

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

**filePath (DEFAULT) (REQUIRED) **

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

group

What group to reconstruct, pass multiple times to select multiple groups, do not pass to select all

- **Data Type:** List
- **Default Value:** NULL

groupMean

If passed group mean will be plotted

- **Data Type:** Boolean (True / False)
- **Default Value:** false

height

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

legend

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

pc

What PCs to reconstruct, pass multiple times to select multiple PCs, do not pass to select all

- **Data Type:** List
- **Default Value:** NULL

**title **

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

**width **

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**workspace **

What workspace to reconstruct, pass multiple times to select multiple workspaces, do not pass to select all

- **Data Type:** List
- **Default Value:** NULL

**xLabel **

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

**XRange **

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

**yLabel **

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

**YRange **

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotReconstruction filePath "C:\Plots\PCA\reconstruction.jpg" group  
"Ankle Angle X" workspace "P001.cmz"
```

-ExportPlotExtreme / -ExportPlotE / -EPE

Export the current PCAs extreme plot

Parameters

****dataStyle ****

The data style to use when generating plot.

- **Data Type:** String
- **Default Value:** Workspace
- **Options:** Workspace, Group, Sub Group, Cluster

****filePath (DEFAULT) (REQUIRED) ****

The file path the plot will be saved to.

- **Data Type:** String (File Path)
- **Default Value:** N/A

****height ****

The height of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

****legend ****

Which corner should the legend be displayed in, if not passed no legend will be displayed

- **Data Type:** String
- **Default Value:** NULL
- **Options:** , Top Left, Top Right, Bottom Left, Bottom Right

****pcNumber ****

- **Data Type:** Integer
- **Default Value:** 1

****plotType ****

- **Data Type:** String
- **Default Value:** StdDevRecon
- **Options:** StdDevRecon, 595Recon, 595Raw

****title ****

The title of the plot.

- **Data Type:** String
- **Default Value:** ###

****width ****

The width of the image exported.

- **Data Type:** Integer
- **Default Value:** 1000

**xLabel **

Label for the X-Axis.

- **Data Type:** String
- **Default Value:** ###

**XRange **

The display range of the X Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

**yLabel **

Label for the Y-Axis.

- **Data Type:** String
- **Default Value:** ###

**YRange **

The display range of the Y Axis: "Max,Min"

- **Data Type:** String
- **Default Value:** ###

```
-ExportPlotExtreme filePath "C:\Processing\PCA\extreme_plot.png" height  
"600" width "1200" pcNumber "2"
```

-CreateWatcher / -cw

Creates a new directory watcher

Parameters

**delay **

The number of ms to wait before executing scripts after watcher is triggered

- **Data Type:** Integer
- **Default Value:** 3000

**directory (REQUIRED) **

The directories to be watched, pass multiple times to add more directories

- **Data Type:** List

- **Default Value:** N/A

****name (REQUIRED) ****

The name of the watcher being created

- **Data Type:** String
- **Default Value:** N/A

****overwrite ****

If passed and existing watchers with the same name will be overwritten

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****recursive ****

If passed all subdirectories will be watched as well

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****script (REQUIRED) ****

A list of paths to the scripts to execute when the watcher is triggered

- **Data Type:** List
- **Default Value:** N/A

****triggerOnDelete ****

If passed watcher will be triggered when a file is deleted as well as added or edited

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-CreateWatcher name "WATCHER_ONE" directory "C:\Local Data Folder" script  
"C:\Local Data Folder\Processing Script.v3s" delay "8000" recursive
```

-ActivateWatcher / -aw

Activate the passed watcher(s) if not already activated

Parameters

****name (DEFAULT) ****

The name of the watcher to be activated, pass multiple times to activate multiple watchers. if not passed all watcher will be activated.

- **Data Type:** List
- **Default Value:** NULL

```
-ActivateWatcher name "WATCHER_ONE" name "WATCHER_TWO"
```

-DeactivateWatcher / -daw

Deactivate the passed watcher(s), if no watcher is passed deactivate all watchers

Parameters

**name (DEFAULT) **

The name of the watcher to be deactivated

- **Data Type:** List
- **Default Value:** NULL

```
-DeactivateWatcher name "WATCHER_ONE"
```

-DeleteWatcher / -dw

Deletes the passed watcher if it exists

Parameters

**name (DEFAULT) (REQUIRED) **

The name of the watcher to be deleted

- **Data Type:** String
- **Default Value:** N/A

```
-DeleteWatcher "WATCHER_ONE"
```

-ListWatchers / -lw

List all watchers

```
-ListWatchers
```

-LaunchMinimized

Set Sift to launch minimized to the system tray by default.

Parameters

****disable****

If passed Sift will no longer launch minimized to the system tray.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

```
-LaunchMinimized disable
```

-LaunchBackgroundInstance / -LaunchTray

Immediately launch a background instance of Sift in the system tray.

```
-LaunchBackgroundInstance
```

-SetEnginePluginsFolder / -SEPF

Set the location the engine will look for plugins e.g Meta-Commands

Parameters

****folderPath (DEFAULT) (REQUIRED) ****

The path to the engine plugins folder

- **Data Type:** String (Directory)
- **Default Value:** N/A

```
-SetEnginePluginsFolder folderPath "C:\Engine Resources"
```

-RunSummaryMetrics / -ComputeSummaryMetrics / -SummaryMetrics

Compute Summary Metrics

Parameters

**EventIndex **

Index Event to compute Metrics at.

- **Data Type:** String
- **Default Value:** NULL

**GlobalMax **

Compute Global Max.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**GlobalMin **

Compute Global Min.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**Group (REQUIRED) **

The group you will calculate metrics for.

- **Data Type:** String
- **Default Value:** N/A

**LocalMax **

Compute Local Max.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**LocalMaxEnd **

Local Max End Range.

- **Data Type:** Integer
- **Default Value:** 0

**LocalMaxStart **

Local Max Start Range.

- **Data Type:** Integer
- **Default Value:** 0

**LocalMin **

Compute Local Min.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****LocalMinEnd ****

Local Min End Range.

- **Data Type:** Integer
- **Default Value:** 0

****LocalMinStart ****

Local Min Start Range.

- **Data Type:** Integer
- **Default Value:** 0

****MaxBetweenEvents ****

Compute Maximum Between Events.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****MaxEventEndIndex ****

Index of End Event for Maximum Between Events.

- **Data Type:** String
- **Default Value:** NULL

****MaxEventStartIndex ****

Index of Start Event for Maximum Between Events.

- **Data Type:** String
- **Default Value:** NULL

****Mean ****

Compute Mean.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****MetricAtEvent ****

Compute Metric at Event.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****MinBetweenEvents ****

Compute Minimum Between Events.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****MinEventEndIndex ****

Index of End Event for Minimum Between Events.

- **Data Type:** String
- **Default Value:** NULL

**MinEventStartIndex **

Index of Start Event for Minimum Between Events.

- **Data Type:** String
- **Default Value:** NULL

**StandardDeviation **

Compute Standard Deviation.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**StandardError **

Compute Standard Error.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**UseExcludedData **

Use Excluded Data to compute metrics.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

**Workspaces **

Workspaces you will calculate metrics for. If left blank all workspaces will be used.

- **Data Type:** List
- **Default Value:** NULL

-RunSummaryStatistics / -ComputeSummaryStatistics / -SummaryStatistics / -RunSumStats

Compute Summary Statistics on selected groups / workspaces

Parameters

**group (REQUIRED) **

The group you will calculate summary statistics for.

- **Data Type:** List
- **Default Value:** N/A

**popMean **

Mean of the population you are comparing against for your summary statistical test.

- **Data Type:** Decimal
- **Default Value:** -9999

****sigLevel ****

The is the significance level used for the chosen statistical test.

- **Data Type:** Decimal
- **Default Value:** 0.05
- **Options:** 0.1, 0.05, 0.025, 0.01, 0.005, 0.001, 0.2, 0.02, 0.002

****statTest (REQUIRED) ****

The is the type of statistical test that will be performed.

- **Data Type:** String
- **Default Value:** N/A
- **Options:** One Sample T-Test, Two Sample T-Test, Paired T-Test

****testName (REQUIRED) ****

The result name for your summary statistical test.

- **Data Type:** String
- **Default Value:** N/A

****useExcludedData ****

Use Excluded Data to compute summary statistics.

- **Data Type:** Boolean (True / False)
- **Default Value:** false

****workspace ****

Workspaces you will calculate summary statistics for. If left blank all workspaces will be used.
Workspaces need to be written as group:workspace

- **Data Type:** List
- **Default Value:** NULL

```
- Summary Statistics Test Name "Example_SummaryStatistics" Statistical  
Test "One Sample T-Test" Significance Level "0.05"
```

-Exit / -x

Exit Sift

```
-Exit
```

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