

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"
```

-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"
```

-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
```

-RunV3D / -s / -plpath

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"
```

-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 Parameteric 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 Parametric 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

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

The name of the DTW test being run

- **Data Type:** String

- **Default Value:** N/A

**standardDeviations **

How many standard deviation to test for: 1-3

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

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

-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

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

****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

```
-ExporData 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

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

**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
```

-ExportRegisteredCurves

Export results of curve registration

Parameters

****exportFormat ****

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

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

- **Options:** standard, transposed, spss, p2d

****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

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

**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

- **Data Type:** String

- **Default Value:** standard
- **Options:** standard, transposed, spss, p2d

****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

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

****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
```

-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\variacen_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 ****

Principal 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"
```

-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"
```

-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"
```

-LoadProject / -ld

Load a previously saved project

Parameters

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

The path and name of project to be loaded

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

****loadLib ****

If passed the library associated with the file will be loaded

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

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

-ClearProject / -clr

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

```
-ClearProject
```

-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
```

-Exit / -x

Exit Sift

```
-Exit
```

-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"
```

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