

Comparing Data Sets

Introduction

This tutorial is going to describe comparing different data sets. In this example, we're going to compare data between various subjects.

Download

The sample files can be downloaded [here](#).

- Data:
 - Sub 01 CMZ
 - Sub 02 CMZ
 - Sub 03 CMZ
- Scripts:
 - Tag.v3s (Example script that can be used to tag the files)
 - Tag_Loop.v3s (Example script that can be used to tag the files using a For_Each loop)
 - Overlay.v3s (Example script that can be used to overlay the report template with another subject)
 - Overlay_Loop.v3s (Example script that can be used to overlay the report template with another subject using a For_Each loop)
- Report Templates:
 - Report_Template_ALL_FILES.rgt
 - Report_Template_Sub_01.rgt

Prepare the Workspace

The first step is to load the data. It's recommended that you use the CMO Library to view multiple CMZ files at once. Many users simply choose to do a File → Open if they're viewing two small files. This option works for smaller data sets, but it's really recommended to use the CMO Library instead.

View files using the CMZ Library

1. **CMO Library → Set CMO Library Path**
 1. Select **..\Comparing Data Sets\Data** folder
 2. Click **OK**
2. **CMO Library → Browse CMO Library**
 1. Select **Yes**

[More detailed instructions to load the CMO Library can be found here.](#)

Tag Files

Once the data is loaded in the workspace, create three tags:

**

- Sub_01

- Sub_02

- **Sub_03

CMD Workspace	Models/Calibration Files	Motion Files	Active	RUN	SUB_01	SUB_02	SUB_03
Untitled		GLOBAL					
Sub01\Sub01_Workspace.cmz	Sub01_Static01.c3d	Sub01_TM_LKrunT1_1.c3d	☐	☒	☒	☐	☐
		Sub01_TM_LKrunT1_2.c3d	☐	☒	☒	☐	☐
		Sub01_TM_LKrunT2_1.c3d	☐	☒	☒	☐	☐
		Sub01_TM_LKrunT2_2.c3d	☐	☒	☒	☐	☐
Sub02\Sub02_Workspace.cmz	Sub02_Static01.c3d	Sub02_TM_LKrunT1_1.c3d	☐	☒	☐	☒	☐
		Sub02_TM_LKrunT1_2.c3d	☐	☒	☐	☒	☐
		Sub02_TM_LKrunT2_1.c3d	☐	☒	☐	☒	☐
		Sub02_TM_LKrunT2_2.c3d	☐	☒	☐	☒	☐
Sub03\Sub03_Workspace.cmz	Sub03_Static01.c3d	Sub03_TM_LKrunT1_1.c3d	☐	☒	☐	☐	☒
		Sub03_TM_LKrunT1_2.c3d	☐	☒	☐	☐	☒
		Sub03_TM_LKrunT2_1.c3d	☐	☒	☐	☐	☒
		Sub03_TM_LKrunT2_2.c3d	☐	☒	☐	☐	☒

There are a few ways to create tags: (Choose one method of the following)

1. Manually add tags to the files or use the pipeline.

2. Use the [Assign_Tags_To_File](#) command to assign tags to subjects based on the filename. This can be done using the provided **Tag.v3s** file.

3. Using the [For_Each](#) command, you can loop over all the subjects in your workspace to create individual tags for them. This can be done using the provided **Tag_Loop.v3s** file.

Graph Data

Once the data has been loaded and tagged, create a report template that plots the data.

1. Change Report Template to Plot Sub_01 tag

A. **Open a report template** that plots the signals you are interested in viewing (ex. Open provided **Report_Template_ALL_FILES.rgt**) B. Change the tag from ALL_FILES (or whatever you're currently plotting) to one of the tags you want to plot (ex. Sub_01) and set the line color to the same for both the right and left sides. a. **Search/Replace:**

a1. Old File Tag: **ALL_FILES**

a2. New File Tag: **Sub_01**

a3. Click **“Add»”**

a4. Old Line Color: **#109900**

a5. New Line Color: **Purple**

a6. Click **“Add»”**

a7. Old Line Color: **#990000**

a8. New Line Color: **Purple**

a9. Click **“Add»”**

a10. Select **“Entire Report”**

a11. Click **“Replace”**

Search / Replace Report Items

Old Event Label

Add >>

New Event Label

Add >>

Old File Tag

ALL_FILES

Add >>

New File Tag

SUB_01

Add >>

Old Line Color

#990000

Add >>

New Line Color

Purple

Custom

Search Replace Items

Replace Tag ALL_FILES with SUB_01

Replace Color #109900 with Purple

Replace Color #990000 with Purple

Selected Page : 0

Entire Report

Remove Item

Replace

Cancel

D. **Save report template** (ex. Report_Template_Sub_01.rgt)

2. Overlay other subject's data

The step to overlay the subject data can be done manually (as described below), or using the pipeline (ex. provided scripts from download Overlay.v3s or Overlay_Loop.v3s).

A. Overlay Sub_02 on top of Sub_01 a. **Overlay Report:**

a1. Page No: ALL_PAGES a2. Identifier Type: TAG_NAME a3. Identifier Value: Sub_01 a4. New Tag: Sub_02 a5. New Color: Blue	Overlay Report Copy items on the following report pages: Page No: ALL_PAGES Copy Graphs with the following: Identifier Type: TAG_NAME Identifier Value: SUB_01 Replace the following in copied graphs: New Tag: SUB_02 New Color: Blue Replace Old Event: With New Event: Color OK Cancel
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B. Overlay Sub_03 on top of Sub_01 a. **Overlay Report:** a1. Page No: **ALL_PAGES** a2. Identifier Type: **TAG_NAME** a3. Identifier Value: **Sub_01** a4. New Tag: **Sub_03** a5. New Color: **Cyan** C. Display the tag name in the Legend of the report

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