# TRAINING & INSTALLATION

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# Overview

## Introduction

This manual provides information related to the installation, operation, and use of the Conversion software built by the Cosc591 Trimester 1 group.

## Targeted users

Any individual reading this document or any university staff or personnel who are working with or on the "gait project".

## Prerequisites

Before continuing with the installation of this software, please confirm that you comply with the minimum system requirements below

- Java 8 , Version 1.8.0_91 or above
- A Windows 7, Macintosh or Linux Machine
- At least 50 MB of hard disk space
- Processor: pentium 90 Mhz or Faster
- Graphics: SVGA
- Elevated User Control

# Processes

## File Formats

The software will accept **.csv**, **.txt**, **.tsv** formats for the importation process, however it will only export **.csv** to the database for final storage.

## File Conversion

To convert a file to the correct **.csv** format and file extension, first navigate to either the "Open" button located at the bottom left of the program or *"Open File"* located under the *"File"* menu tab in left of the program. Once clicked a *"File Dialog"* will be displayed to the user, simply navigate to the file that you wish to import and click on the file you wish to import and press the *"Open"* button located at the bottom right of the *"File Dialog"*.

You will notice that the "*File Field*" will now be populated with the directory path from your selected file. Now you must populate the *"Name"* , *"Speed" and "Trial"* fields located at the bottom of the program. Note that both the *"Speed" and "Trial"* fields are integer sensitive, so only ensure that you populate them with characters **[0-9]**.

Once all fields have been correctly populated simply click the "*convert*" button located at the bottom of the program and the file should now be converted and stored in the database. To view the database click on the database tab.

## Multi-File Conversion

To convert multiple files to the correct **.csv** format and file extension, first navigate to *"Open Multiple Files"* located under the *"File"* menu tab in left of the program. Once clicked a *"Multi-File Dialog"* will be displayed to the user. By default there is only one file import structure generated, by pressing the *"+"* button located at the bottom of the structure, additional fields will appear. Press the *"+"* button until the desired number of fields are created, note that if you have too many fields, pressing the *"-"* button will delete a field.

Clicking on the *"Open File"* button will once again bring you to a file dialog. Navigating through this dialog and selecting the desired file will populate the file field. Do this for all files desired to be converted, and once completed, populate the *"Name", "Speed" and "Trial"* fields with the appropriate data. Once again note, that all of the *"Speed" and "Trial"* fields are Integer sensitive, so only ensure that you populate them with characters **[0-9]**. If any fields are unpopulated or if the parser thinks they contain illegal characters, an error message will appear. Make sure that any unused multi-imports are removed using the *"-"* button otherwise the parser will consider them to be "empty" and will not convert the files.

Once all the files have been selected and all of the fields correctly populated, press the convert button, if done correctly the mult-file window will disappear and you will be presented with the first file displayed on the main tab. If you would like to view the database, clicking on the database tab will take you there.

## Database

To view the database, simply click on the *"database"* tab located in the middle left of the screen. This will take you to the database view, where you can see the screen divided up into three sections. If you see nothing in any of the sections, this means that no data has been imported into the database yet. If data has been imported you will notice on the left hand side a single list view of the database, clicking on the *"Database"* top level of the tree will expand it.

The database consists of *"names"* each name corresponds to a folder created in the database for that participant. From the top down, it should read

> Database
>> Name of the participant
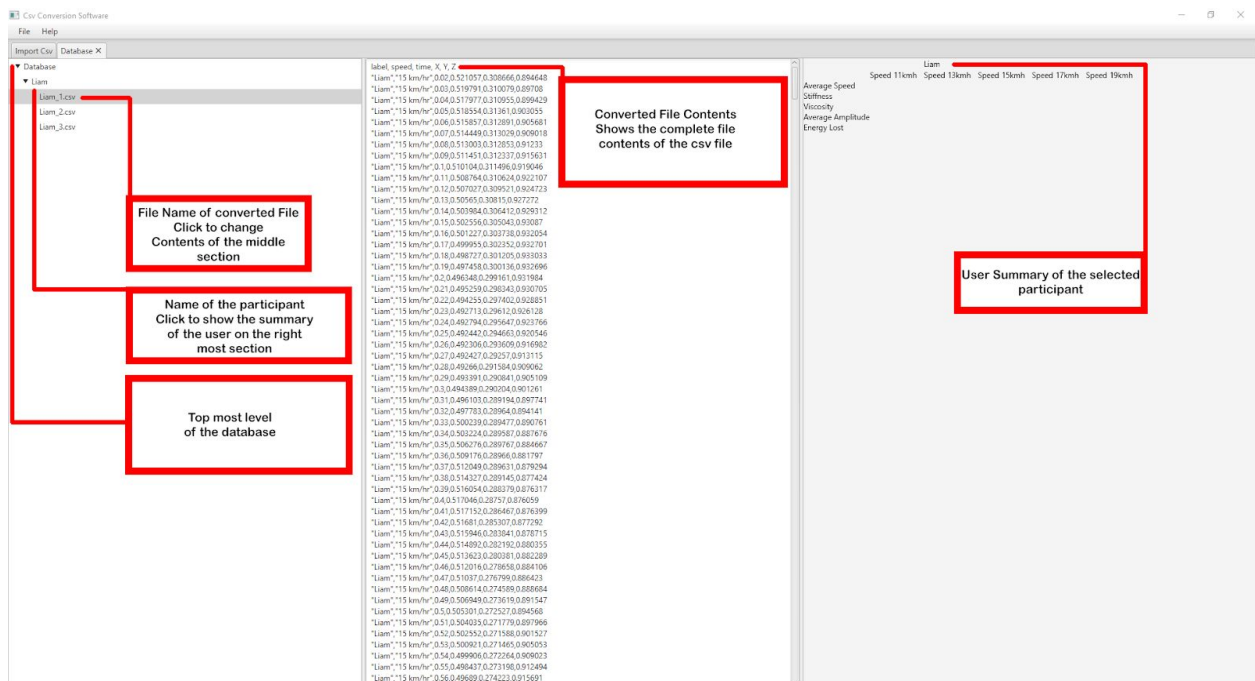>>> Trial x
>>> Trial y
>>> Trial z

Clicking on a name, will display a temporary graph on the right most section, this will be implemented with data about the participant at a later date. Clicking on any file with a **.csv** extension will show the data in the middle most section of the program. This data is not currently editable, but will be updatable at a later date.

# Interfaces

## General Interface



File Menu, contains openfile, open multi file and an exit option

Open button , for opening a file

Convert Button, to convert the file once it has been selected and all fields filled out

Name of the participant Field

Kilometers per hour field

Trial Number field

location Field, populated after a file has been selected

## Database Interface



File Name of converted File Click to change Contents of the middle section

Name of the participant Click to show the summary of the user on the right most section

Top most level of the database

Converted File Contents Shows the complete file contents of the csv file

User Summary of the selected participant
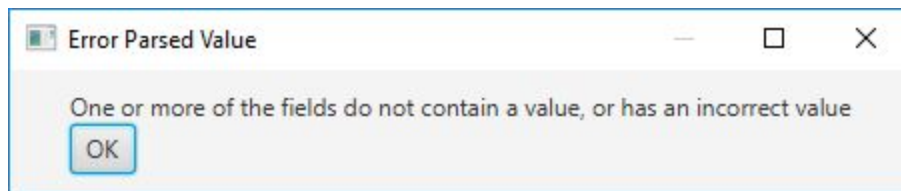
# FileMenu Interface



# Multi-File Dialog Interface

# TroubleShooting

## Error Messages
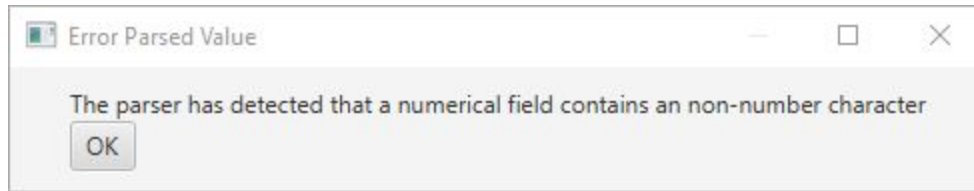


This error indicates that one of the field(s) (Either a speed or a trial) contains an Illegal Character (Something other than **[0-9]**).



This error indicates that one of the field(s) that is required for the conversion process is either empty or that the "Location field" is not a valid path.

## Instructional Videos

There are some recorded videos about general use of the software located at the following link, they include how to view the database, how to convert a single file and how to convert multiple files:

https://github.com/DefinitelyNotASquid/UNE-CSV-Conversion-Software/tree/master/Cosc591/User%20Manuals%2C%20Video%20Recordings%2C%20Images/Videos

# About

**Repository**

The code repository is stored at this link:

https://github.com/DefinitelyNotASquid/UNE-CSV-Conversion-Software/tree/master/Cosc591/Project%20Source%20Code/Convert

A download of the entire project is also available at this link:

https://github.com/DefinitelyNotASquid/UNE-CSV-Conversion-Software

# Legal

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