User Manual

Victorian Accident Analysis Project

Eric Martin, Harris Huntington

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# Introduction

This document will lay out the uses of the Accident Analysis Program, including the required libraries and file structure.

# Files

The file containing the crash statistics (‘Crash Statistics Victoria.csv’) is required to be in a folder by itself.

The three python files are required to be in one folder together so as to allow easy data access between them.

These two folders should be stored one folder.

This file structure is required as

Figure 1 provides a visual representation of how these files should be stored.

Figure

Folder 1

Folder 2

Folder 3

‘Victoria Crash Statistics.csv’

data.py

grid.py

main.py

# Libraries

The following libraries will need to be installed for the program to run properly.

* wxPython
* matplotlib
* wx.grid
* numpy
* pandas
* re
* datetime

# How to use

To start the program, run main.py. This will open a window which will be used for all of the data analysis.

Graphical user interface, application

Description automatically generated

The two radio buttons at the top control which section will run when the search button is clicked

To run any function from the Selected Dates section, two dates must be input, or the code will run into an error. The second date must also be later or equal to the first. Use the placeholder text as a guide to the format of the date.

To run the Type function, a keyword must be input into the available text box.

The Alcohol impacts section doesn’t require any date or text input by the user. All that is required is the radio button selection depending on which data analysis is wanted.

To exit the program, click the X in the top right corner of the selection window.