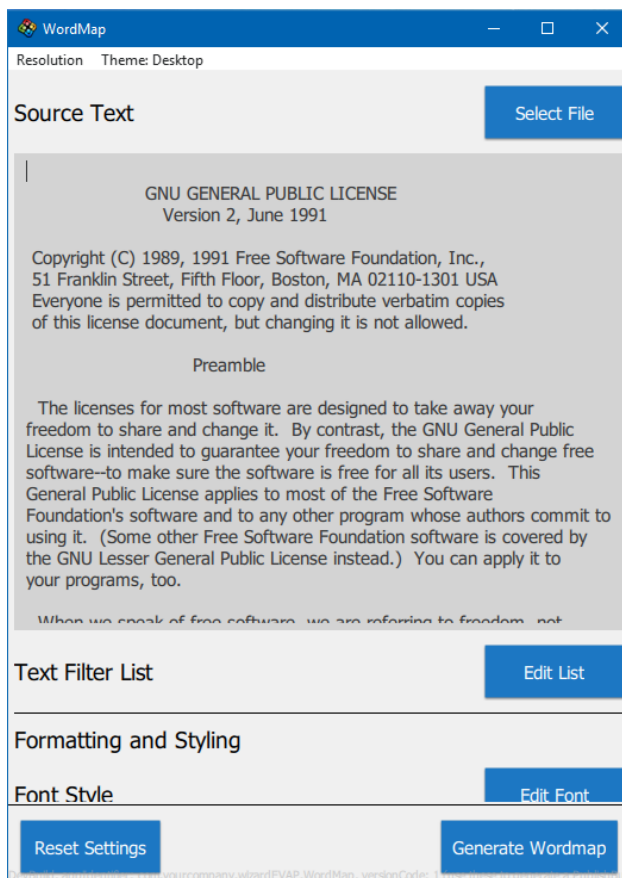# Word Map User Manual

This is the main window of the application that allows the user to customize the word map.

Source Text:

Located at the top of the main window, this text area contains the text the user wants to use in the word map.

The user has multiple options to add the text into the text area:

1.Select from a text (**.txt**) file which will then update the text area
2.Copy and paste text into the text area
3.Manually type the words into the text area

This is the only **required** input the user needs to fill out in order to generate a word map, as defaults are set for the remainder of them.

Characters that are filtered out by the program:
- Punctuation / special characters
- Numbers
- Single letters (a, b, c etc.)

An error will be shown to the user if the word text is blank, or **only** contains the above-mentioned restrictions.
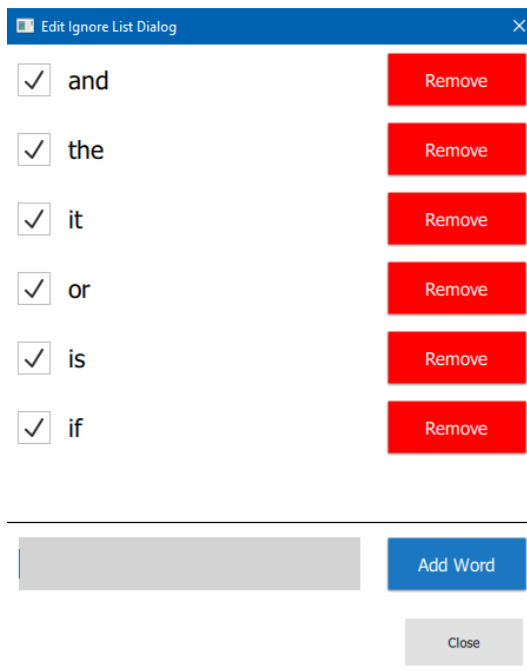
Text Filter List:

Clicking the button will display the dialog, in this dialog the user can add, remove and toggle words in the custom list that the algorithm will ignore when generating the word map. Words are stored in the applications database for persitancy between program executions.

When adding a word to the list, numbers and punctuation will be ignored. The words are also case **insensitive**, just like the underlying algorithm used to calculate the frequency of each word that appears in the source text.

Therefore, the following words are the same:

THE = the = The = the, = the1

Errors will be shown when attempting to add a blank word, a word that only contains punctuation or numbers or a word that already exists in the list.

Formatting and Styling

In this section, the user has the **option** of changing these values. If they do not wish to change any values, the default values will be used instead. By selecting the reset option, all these inputs will receive their default values. All custom values the user had set will be lost.

Font Style:

Setting the font style options will apply the settings to **all** words that appear in the word map. The default is Sans Serif, no other styling applied.

Setting the font size will set the **minimum** font size of the words that appear in the text. The default is set to size 9.

Font / Background Color:

Setting this input for either the font color or the background color will change that setting in the generated word map.

The default font color is set to black and the default background color is set to white.

Background Image:

Selecting this will open a file dialog that will allow the user to select **.png** or **.jpg** files. No image is selected as the default.

Note:

If no background color is selected and no background image is selected, the generated word map will have a black line outlining its background shape.

If both background color and background image are set, the word maps background will display the image with the color applied as a tint.

Background Shape:

The user can select between the following options, "Square", "Rectangle", "Triangle", "Circle" or "Custom". The triangle is an equilateral triangle and along with the circle, will be drawn in the center of the image. The default is the "Square" option.
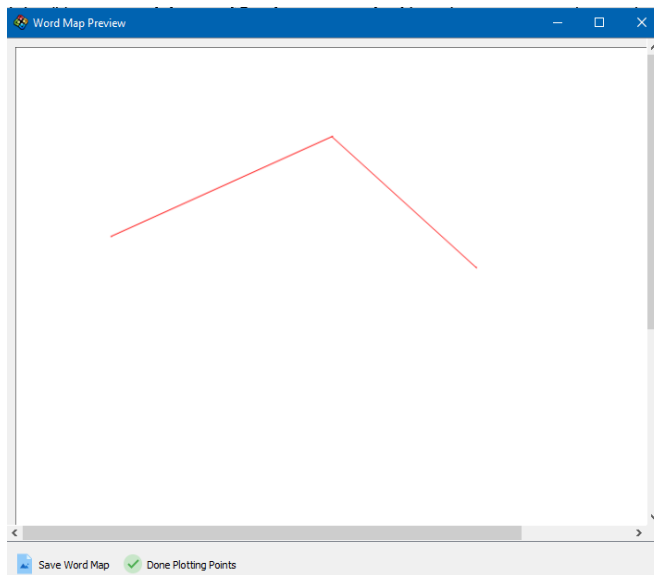

Custom:

When selected, the user will be prompted to click around the background of the image to set the points of the custom shape they are creating.

A red line will display the current points and their connection to one another. **The shape will self-close on its own, the user does not need to close the shape manually**.

To finish the custom shape, click on the "Done Plotting Points" button, **a minimum of 3 points are required** in order to generate the word map. If fewer than 3 points are plotted, an error will be shown, and the user must restart.

Also, **if lines intersect with each other, they can create blank pockets** that will not contain any words.
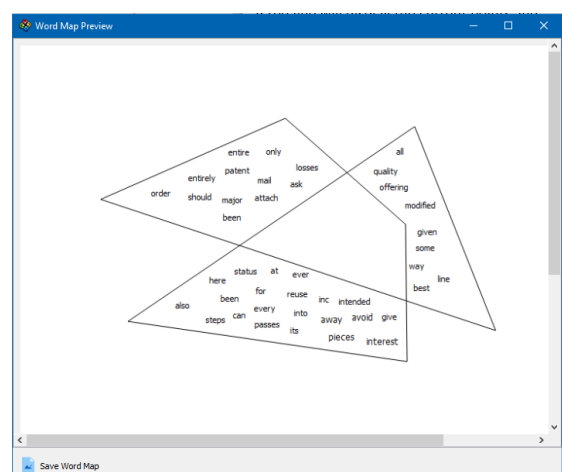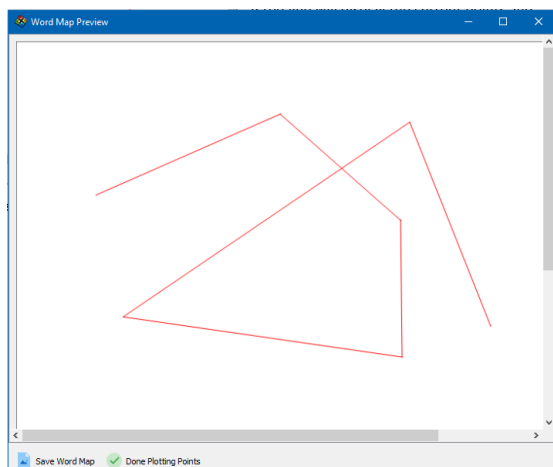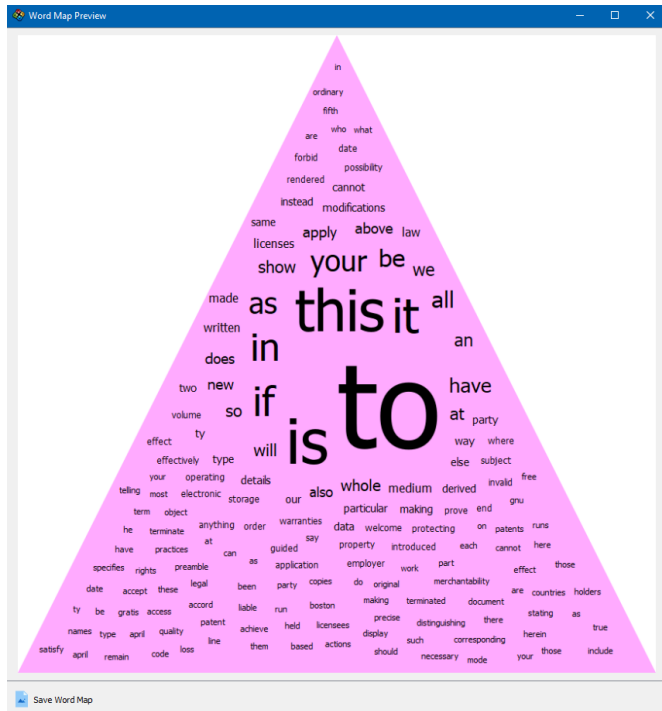
Word Map Preview:

In this dialog, the user can preview the generated image. If the image is too large to fit in the window, scroll bars will appear along the vertical and horizontal axes so the user can view the full preview.

The user can then save the image as a **.png** file by selecting the "Save Word Map" button. The user will then be able to select the directory the image will be saved in.