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USER MANUAL - GROUP 5

Purpose:

The purpose of this document is to explain how the user can install the system as well describe the major use cases. Accompanying screenshots and links to videos are provided to help users become more familiar with how to use the application.

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1.0 = Installation

1.1 - Download vF Release File

Double click on the Github URL and download the release file (either as a zip or by pulling the release to your computer). In the case of downloading a zip file the user can then install the runnable .jar file (in the vF release) on the following operating systems as outlined for 1.2, 1.3 and 1.4 respectively.

1.2 - macOS Installation

- 1) Unzip the .zip file
- 2) Drag and drop the icon to your Applications folder
- 3) Double click the program to start
- 4) A dialog box will appear. Follow the instructions to install the software*.

1.3 - Windows Installation

- 1) Unzip the .zip file
- 2) Place the folder into your computer (It will usually be in your Downloads folder).
- 3) Double click the program to start
- 4) A dialog box will appear. Follow the instructions to install the software*.

1.4 - Linux Installation

- 1) Right-click on the .zip file
- 2) Select "Open With Archive Manager"
- 3) Within Archive Manager, select "Extract" and choose a location within your computer
- 4) Double click the program to start
- 5) A dialog box will appear. Follow the instructions to install the software*.

1.5 - Instructions to Install the Software

Double click on the .jar file or enter the commands "java -jar filename.jar" into the OS's CLI (Command Line Interface). Program will immediately run.

IMPORTANT NOTE:

The application might not work without Java 8 so it is advised to make sure you have it before downloading and running the application.

2.0 = User Manual & Features

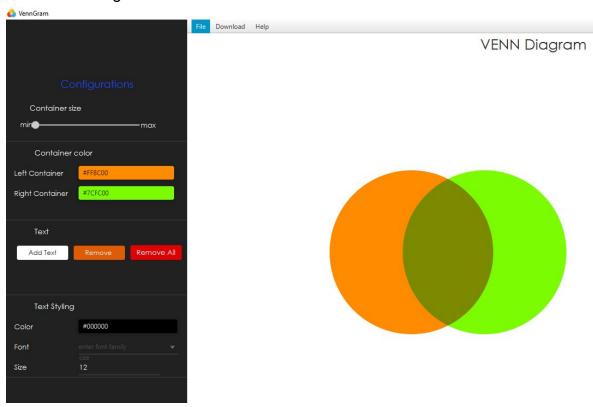
2.1 - How to Get Started

NOTE:

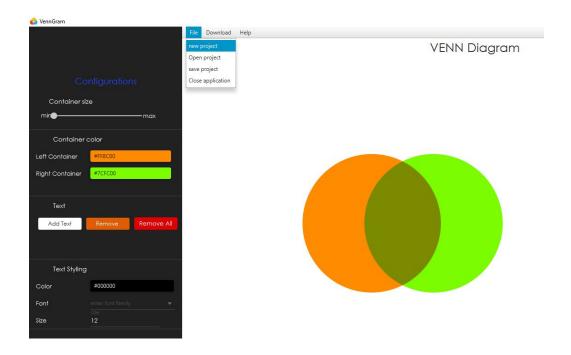
Each of the following steps are accompanied by videos and screenshots to demonstrate the step in action. Greater details about each of these steps/features are provided in section 2.2

Step 1

Step 1.1
Start by clicking the application logo which will open the application as seen in the image below.

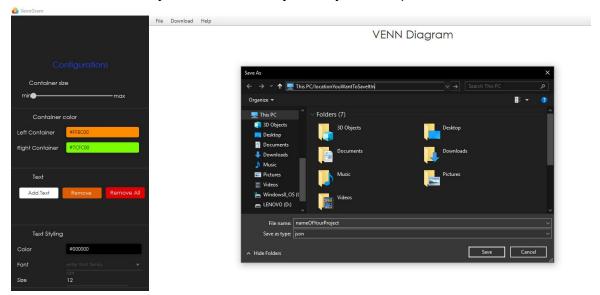


Step 1.2 Click file followed by the "new project" button



Step 2

Then type the Name of your project in the textbox and click browse and search for a location you want to save your in your computer/drive



Step 3

You are now ready to build your first Venn Diagram

Step 3.1

Start by selecting the preferred size of the circles/containers/diagrams (as shown in this video:

https://drive.google.com/file/d/1IBjCb3Nzc3b1-e_zmVfRMqV102HXn_P m/view?usp=sharing).

Step 3.2

Then choose the colors for the diagram by clicking "the drop-down color picker menu designated (as demonstrated in this video: https://drive.google.com/file/d/1qefClwicIAcjaIXLEADs2VMZXIFQOnBI/view?usp=sharing).

Step 3.3

The user is then able to at any time add as many text elements as they want and drag them to where they would like to position them (e.g. in the left circle, right circle or the intersection) (as shown in this video: https://drive.google.com/file/d/10_U183MKZLIr_kDOH7Dc6aR7GYTQd tHY/view?usp=sharing)

Step 3.4

The user can double click on a text element and change the text of the element (as shown in this video:

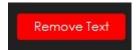
https://drive.google.com/file/d/1mL47vNfANLM6VVN74K_7gTKr9eMld PSx/view?usp=sharing).

Step 3.5

The user can also change any individual text element's font, size and color independent of each other (as shown in this video: https://drive.google.com/file/d/1sTapMxrC_8lQc2BH4vhl5U3DQ_X5RPGm/view?usp=sharing).

Step 3.6

The user can also delete a text by clicking the "Remove Text" button. Or they can delete all text by clicking the "Remove All" button



NOTE:

These features/(steps 3.1 - 3.6) can be used at any time while working on your project.

All The features mentioned in section 2.1 are discussed in greater detail in section 2.2

Step 4

Throughout working on your diagram or When you are finished click "Save" to change the name of the project or the location of where you save your project to save the most recent version your project

Step 5

You can reopen this project later or open another project by clicking "Open" and browse to where you saved your project and double left click on it or single left click on it and select open to open that project.

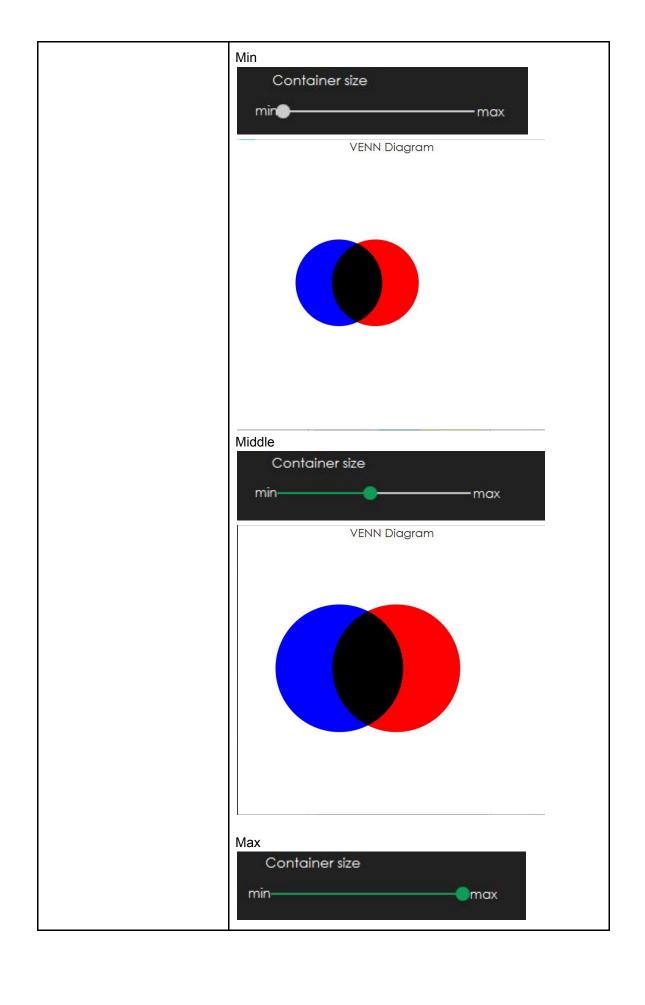
Step 6

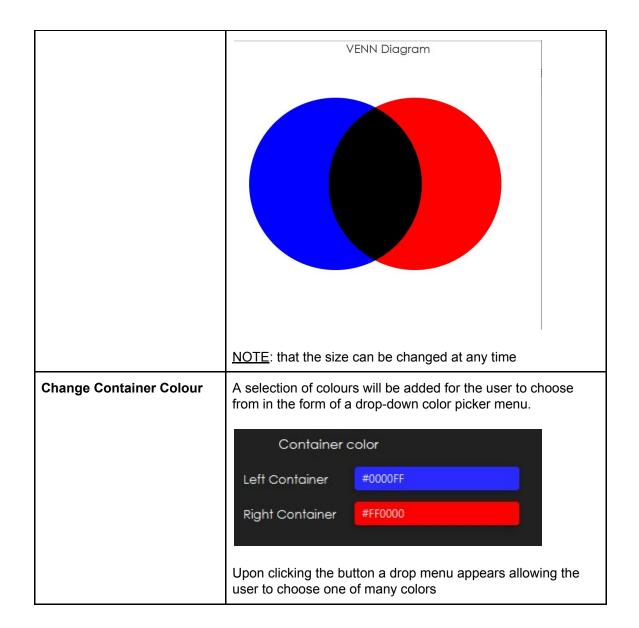
You can download your diagram as a PNG by clicking the "Download" button followed by selecting either "Download as image" or "Download as pdf" to download the diagram as a PDF file.

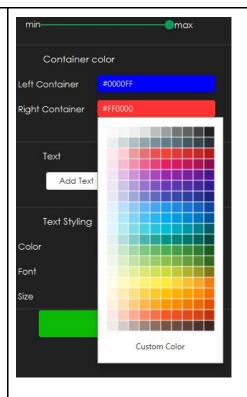
2.2 - Features and How to Use

The following are features which the prototype has already implemented as well as descriptions of what they do and how the user can use them.

Features	Description of how it functions
Change Container Size	The user can use the Container size slider to change the size of the circles to their desire by clicking on the circle and moving to either the right or left. Moving the circle slider to the right will increase the size and moving it to the right will decrease the size. Max and Min indicate the limits of the size slider. An image of the slider is shown below
	Container size min max
	To give an idea of the difference of the different sizes images are shown below:







Upon selecting a color the container/circle will change to the corresponding colour.

Example shown below: Left Container: Green Right Container: Red



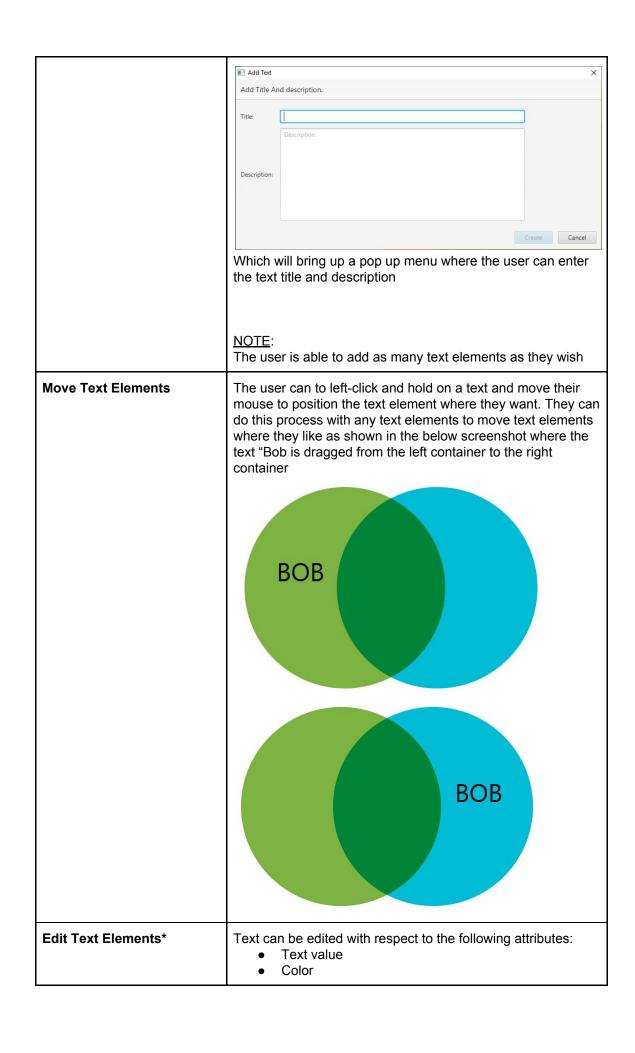
NOTE: the colors can be changed at any time

Add Text Elements

User is able to add text elements which can be used as:

- Title for the project
- Titles for the containers/circles
- Headings for elements
- Descriptions for elements

To add text simply click the "Add Text" button



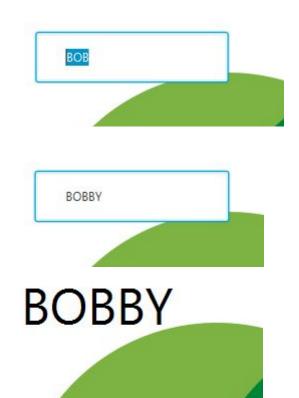
- Font
- Size

Lets take the following text "BOB" as example



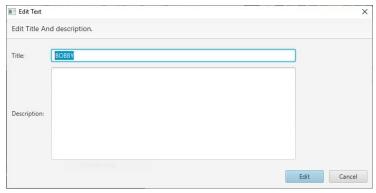
To edit the Word of the Text

The user can first double left mouse click on "BOB" which will prompt a textbox for the user to change the word of the text. In this example we will change "BOB" to "BOBBY"



The user can also single right click on a text element and then click edit to edit the text and also description.





From there the user can change the title and description then click save. For example the user can change the description to "Hi"



Now when the user hovers over the text "BOBBY" with their mouse they will see the description "Hi"



The user can also single left mouse click on any text element or elements (if holding ctrl) which will bring that text into focus (will put a box around the text indicating that it has been selected). From there the user can edit that individual text's properties (color, size, font) as explained below OR they can single right click to unselect any items they selected.

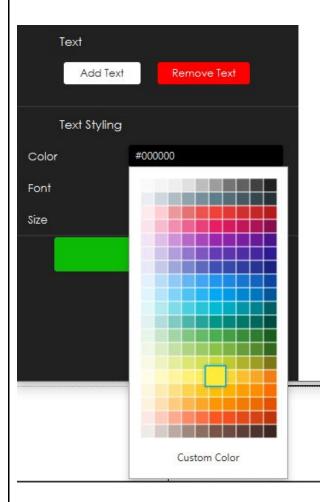
To edit Text Color

The user can single left mouse click the rectangular box button next to the word "color" as seen below.



This will open a color menu picker where the user can click on any one of the colors shown below. For this example we will choose the color yellow

The user can then single left mouse click on the texts they want to change to the color yellow (e.g. on "BOBBY" to change it from black to yellow)

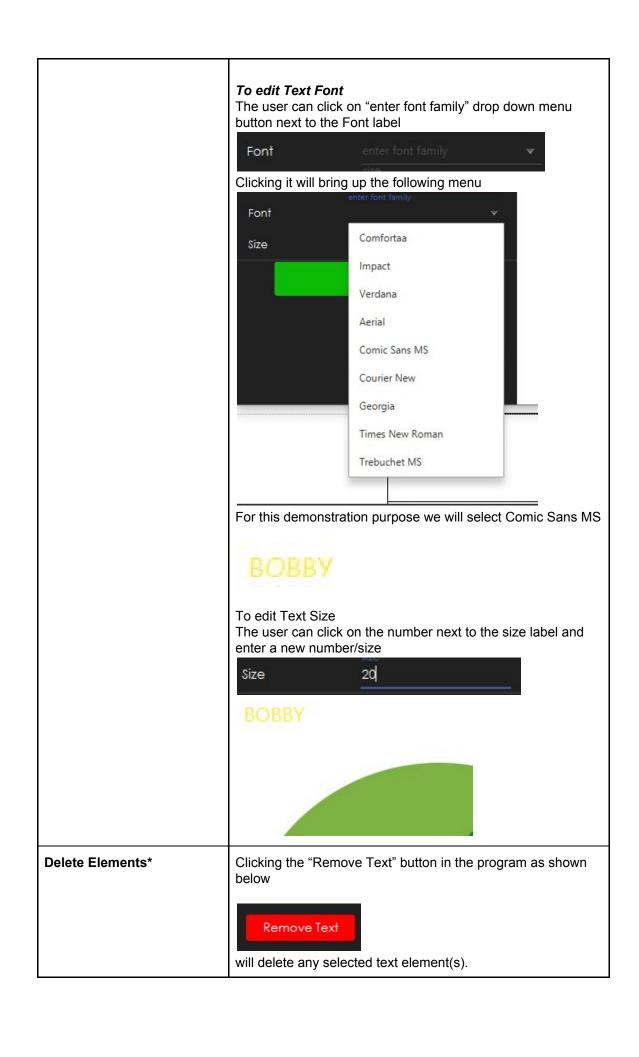




*NOTE:

A better version of color picker and edit text element in general is being worked on where The user can instead single left mouse click on "BOBBY" and then click the rectangular box button to change the color from the drop down color picker menu.

More details about this are discussed at the Note section at the end of this table.



	T		
Allow user to select elements (one or multiple)	Allow user to select particular elements so that they can all be edited or deleted at the same time		
	To select an element a user can left click on a text element of their choice		
	To select multiple text elements the user can hold ctrl and left click on the text elements they want to select		
	An element will have a box around it to indicate that its been selected (is in focus)		
Undo/Redo	Allow user to undo/redo the recent effect of a movement/click they did/undid		
Delete All Text Elements	Clicking the "Remove All" button will delete all text elements Text Add Text Remove All		
Create New Project	Allows user to begin a new project. User can click File and then new project File Download Help new project Open project This will prompt the user to enter the project name as well as the location of where they would like to save their project		
Save	Clicking the "File" followed by "Save project" button will save all text elements and circles/containers as well as their properties (e.g. color, size, etc) in an array in a text file which the application will read to keep the users progress*. File Download Help new project Open project save project Close application		

This way the user can close the application and reopen it to work on a Venn Diagram they started working on before.

*See "Open Project" for how saved work is opened

Clicking the "Save" button for the first time will first show a window where the user can choose the name of their project and the location of where they save their project. Afterwards the program will Save the Users work as discussed in the "Save" section above.

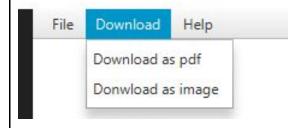
Download As

The user can click the "Download" button

File Download Help

Clicking this button will prompt the user to a menu where they

Clicking this button will prompt the user to a menu where they can choose between "Download as pdf" or "Download as image"



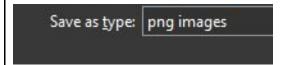
This allows the user to export /save/download their venn diagram as a PNG or PDF and save it onto their personal computer.

The user can click either the "Download as pdf" or "download as image" button. From there a pop up window will appear allowing them to browse for a location they want to store the file as well as change the name of the file.



Once they have done either of those things they can click the "Save" button to download it in that location they selected under that name they selected.

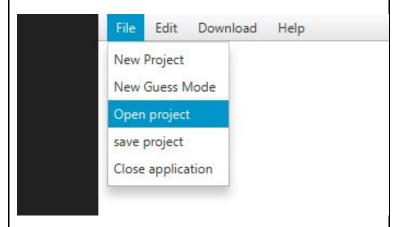
If the user clicked the "Download as image" button then a png image of the diagram was downloaded to that location.



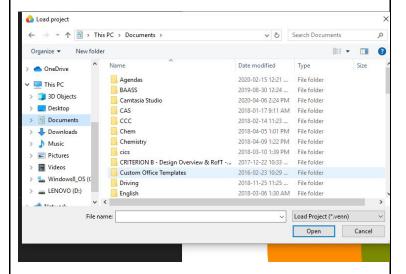
If the user clicked the "Download as pdf" button then a pdf file of the diagram was downloaded to that location.

Open Project

The user can click File and then "Open Project" button



This will open a file explorer where the user can browse for the .venn project they want to continue working on



Upon finding the file and clicking open the project including the containers and all the text elements that were added as well as all of their properties (color, size, etc) in the same way they were when the project was last saved. For example if the left container was blue when last saved then the opened project container will be blue etc

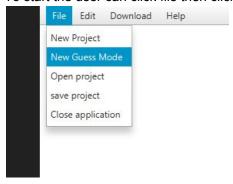
The program achieves this by reading the text file with its

array of properties and recreation each of the text elements based on their defined properties (position, words, color, etc)

Game Mode

The user can have a little fun by starting the Game/Guess mode

To start the user can click file then click "New Guess Mode"



This will automatically open up the browse/save window should the user wish to save their work before entering Game/Guess Mode.

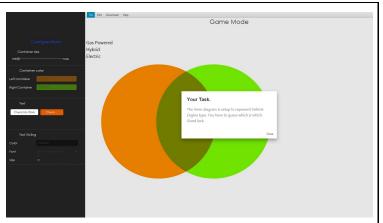
Then it will prompt the user with a pop up window asking the user to confirm that they want to enter Game/Guess Mode



If the user clicks "No" they will return to their current state as if they never clicked "New Guess Mode" in the first place.

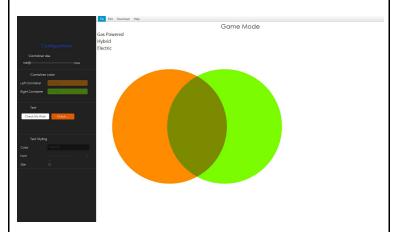
Upon clicking "Yes" however the user will enter Game Mode

The first thing they will see when they enter is a pop explaining the instructions/goal of the game to the user



The goal is to drag the label into the correct container (left, middle, right). One label per container

Once the user clicks ok to dismiss the pop up they have officially begun game mode



In Game Mode the user is presented with three texts:

- "Gas Powered"
- "Hybrid"
- "Electric"

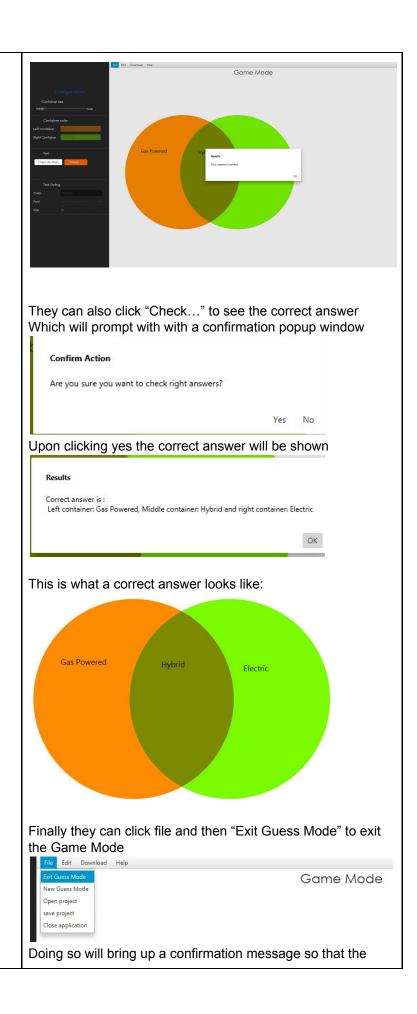
The idea is that they user must drag each text in its appropriate container (left/middle/right)

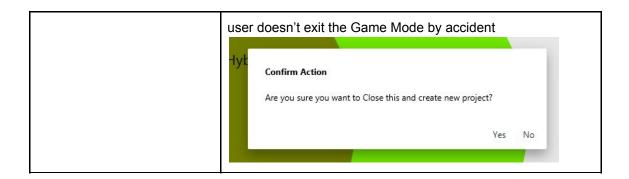
With each attempt they can click "Check My Work" to check if their attempt was correct

The following message will be displayed if their attempt/placement of texts is incorrect:



And the following message will be displayed if their attempt/placement of texts is correct:





NOTE:

We couldn't implement all of the features we wanted to make; hence section 2.3

2.3 - Future Features

The following are features that are missing which will be added in future versions of the application

Features (To Be Implemented)	Description of how it functions
Container Shape Selector	Allow user to change the shape of their container to other shapes instead of just circle
Edit Text Margins	Allow user to adjust text margins so that text can fit narrower/wider column styles based on the users needs/desires
Custom Game Mode	Allow user to make their own sets for the Game Mode. For example instead of the "Electric, Hybrid, Gas Powered" they can make a set where the player must put elements x y z in the right container, a b c in the left container and 1 2 3 in the middle. In other words allow the user to create their

	own sets/games and choose which game to play.
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3.0 = Common Usage Scenarios

There are many different use cases for this Venn Diagram application. This User Manual outlines 3 (Math and Science, Statistics and Probability and Business). Furthermore this User Manual will go into detail with an example Usage Scenario for a general comparison (3.4) using the prototype application.

3.1 - Math and Science

Enables students to visualize and organize information to see various relationships among sets, or groups of objects.

Scenario: A science student wants to compare the similarities and differences between two animals to help them visualize which animal they would prefer to present on.

3.2 - Statistics and Probability

A visual comparison of probabilities of different events occurring based on the probability of their factors being met, etc

Scenario: An economist wants to compare the statistical consequences of an economy crashing due to a stock market crash vs a war.

3.3 - Business

Comparison between different products/services to determine which one of the two is the better option

Scenario: An entrepreneur wants to compare the similarities and differences between using a domestic vs foriegn supplier and weigh the differences to help them make a more informed decision.

3.4 - Other/General Comparisons

A visual comparison of two competing ideas

EXAMPLE Scenario:

A highschool student wants to compare the differences and similarities between two universities to see which one they should prioritize getting into.

Let's say that after doing their research they form the following table (note that this table is purposefully simplified for demonstration purposes).

Ryerson	YorkU	Similarities

- Downtown Toronto location
- Well known for its: Film Program
- North York Location
- Has software engineering program
- Well known for its Schulich Business Program
- Public transit available (TTC, GO)
- Both have New Student centres and athletic facilities

Now let's say that the student wants to represent the above data in the form of a Venn Diagram. They can use our application to do that. Here's how:

Step 1 | Download and Installation

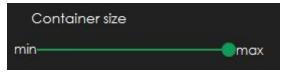
The highschool student can follow steps outlined in 1.0 to install the Venn Diagram Application.

NOTE:

For the remaining steps more detail regarding their implementation can be found in in 2.2

Step 2 | Select Size of Container/Circle

The highschool student can single left mouse click and hold and slide the container size slider to either the left or right:



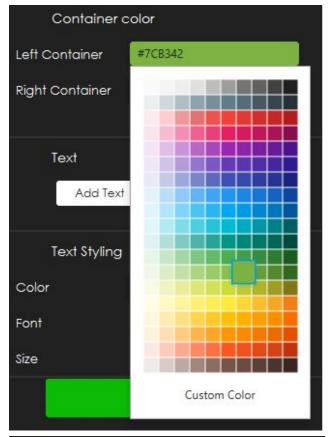
(e.g. in this case container was slided to the right to max size)

Step 3 | Select Colour of each Container/Circle

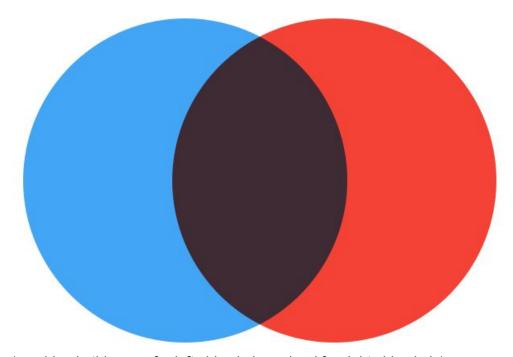
The highschool student can left click on each of the drop down menus and left click to select the colour they would like for each circle/container (left and right).



The colour can be one of the following options:







(e.g. blue in this case for left side circle and red for right side circle)

Step 4 | Add Main Title to Diagram

The highschool student can add a text field and type: "Ryerson vs YorkU". They can then change the font, colour and size (e.g. to Arial, Black and 18)

Ryerson vs YorkU



Step 5 | Add Ryerson Title to one container and YorkU to another

The highschool student can add a text field and type: "Ryerson". They can then change the font, colour and size (e.g. to Arial, Yellow and 14) They can then do the same except type YorkU instead of Ryerson and use the colour red instead



Step 6 | Add 7 Text Elements to the Diagram

The highschool student can add 7 text fields. They can then change/Edit the text of Each of those 7 Text Elements to one of the dot jots outlined in the table above

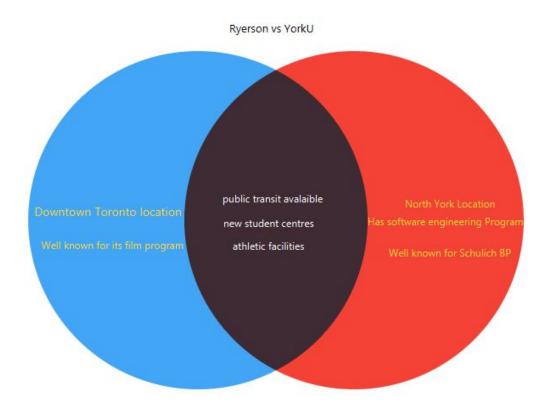
Optional Step | Edit/Delete A Text Field

The highschool student can select any one of the text elements and change their property (font, colour, size) or delete the text element entirely.

<u>Note</u>: The container sizes can be changed at any time via step 2 and container colours can be changed at any time via step 3

Step 7 | Move each text element to a place that makes sense for you

The highschool student can move each text element to a position that
makes sense for them (an example is the Venn Diagram presented
below)



Optional Step | Save Project and Reopen Later

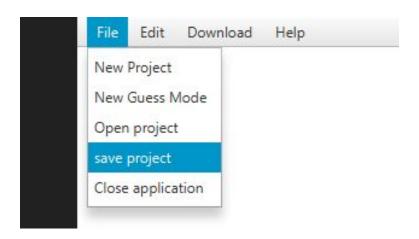
Should the student wish to work on the project later the highschool student can click the Save button to save their project so far. Or they can click the "Save As" button should they wish to not only save the project but save it under a new/different name and or location. Then the student can close the application and come back later to work on it later. Whenever they come back to work on it they can click "Open Project" and click browse and search for where they saved the project. They can then either double left click on it to immediately open it or left click once on it then click the open button for the project to open.

<u>Note</u>: This optional step can be repeated as many times as the student wishes; allowing them to continue to work on their project later whenever they want.

<u>Note</u>: This feature is still being worked on for the final version as mentioned in Section 2.3

Step 8 | Save Project and Download as a PNG image

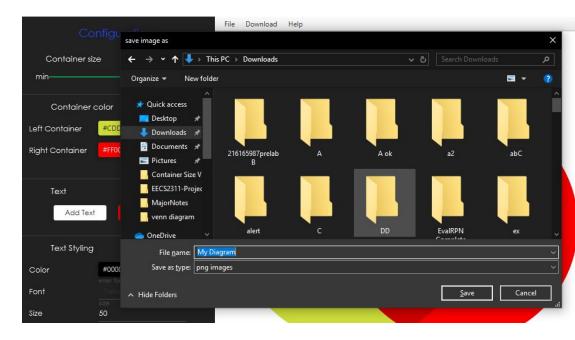
The highschool student can click the "File" followed by the "Save project" button



followed by clicking the "Download as image" button.



The student is then prompted with a popup window allowing them to choose where to save the project and which name to save it as (followed by clicking the save button). This will create a PNG image of the diagram and save it as (e.g. in downloads folder saved as "My Diagram" as shown below).



This allows the student to use or share this image via other social platforms etc (e.g. a presentation about which University is better: York or Ryerson).

NOTE: Some screenshots involve slightly older versions of the program however the final version still includes features demonstrated in those older versions which is why those screenshots are kept in this document