

Version

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YORK UNIVERSITY

Lassonde School of Engineering

Venn Diagram Visual Tool

User Manual

EECS2311 - GROUP #17

Venn Diagram Visual Tool User Manual

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Running the application on different Operating Systems

Java must be installed on any OS to run this application.

Linux

To run the VennApplication.jar on a Linux Operating System:

- 1) Open the terminal with CTRL + ALT + T.
- 2) Change directory to where the **.jar** file is located.
- 3) Type the following command on the terminal: `java -jar VennApplication.jar &` in order to run the **jar** application in the background.

Windows

Running the VennApplication.jar is relatively simple:

- 1) Open the directory where the VennApplication.jar is located.
- 2) Double-Click on the **VennApplication.jar**, and a new window with the application will pop-up.

Mac OS

- 1) Open the directory where the VennApplication.jar is located.
- 2) Right-click the VennApplication.jar, choose open with/jar Launcher, the application will pop-up.

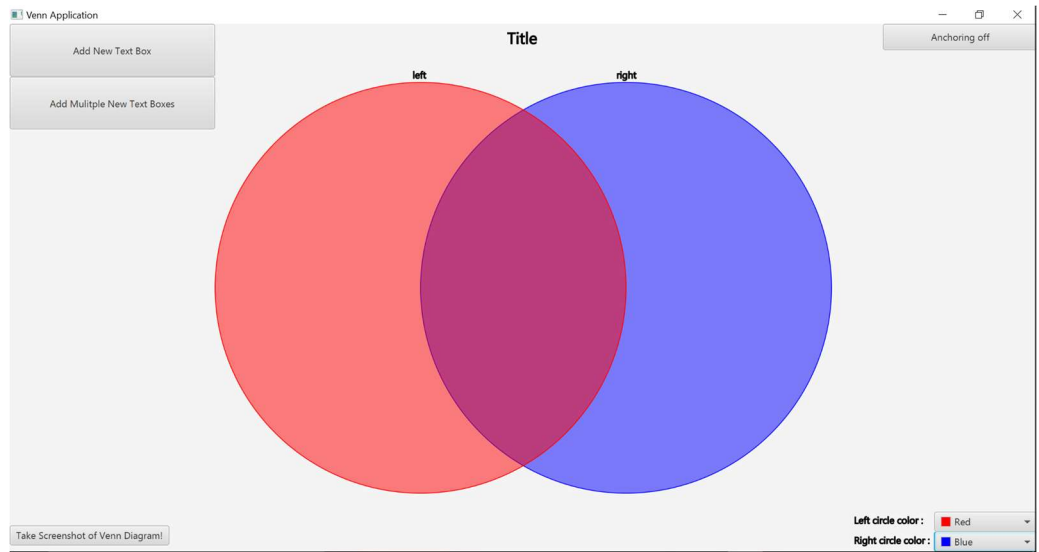


Fig: Default state of the Venn Application after being executed for the first time

Customizing Titles

How to Customize the Title of the Venn Diagram

1. Move the mouse cursor above the default Title located at the top of the user interface.
2. Left Click on the title with the mouse cursor.
3. A Text Editor Interface will open where you can change the text to your preferred title.
4. Click 'OK'.

User Case Scenario: Changing the title to “My Venn Diagram”

1. Move the mouse cursor above the title located at the top of the user interface.
2. Left Click on the title with the mouse cursor.
3. A Text Editor Interface will open, change the text box to “Venn Diagram Demo”.

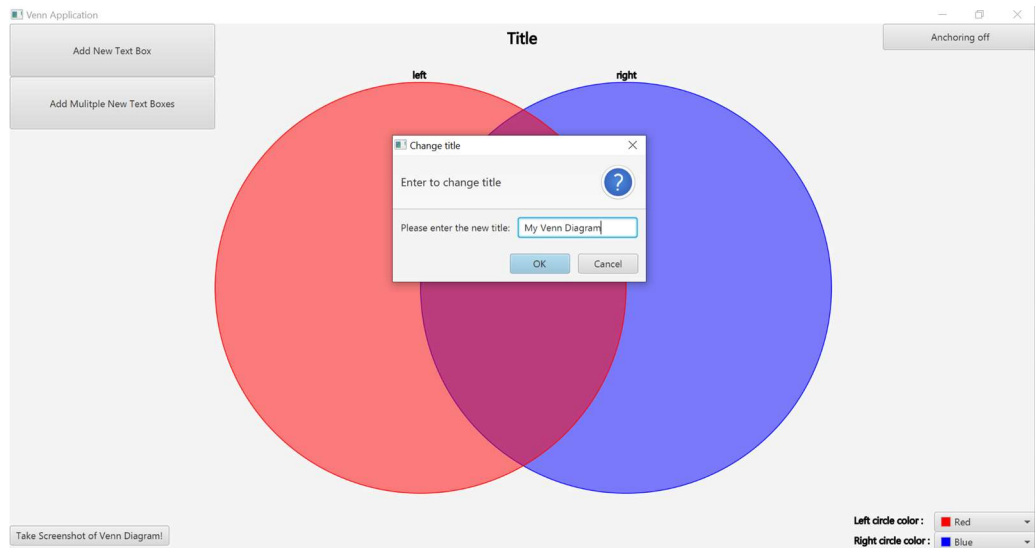


Fig: After left-clicking on the default “Title”

4. Click 'OK'.

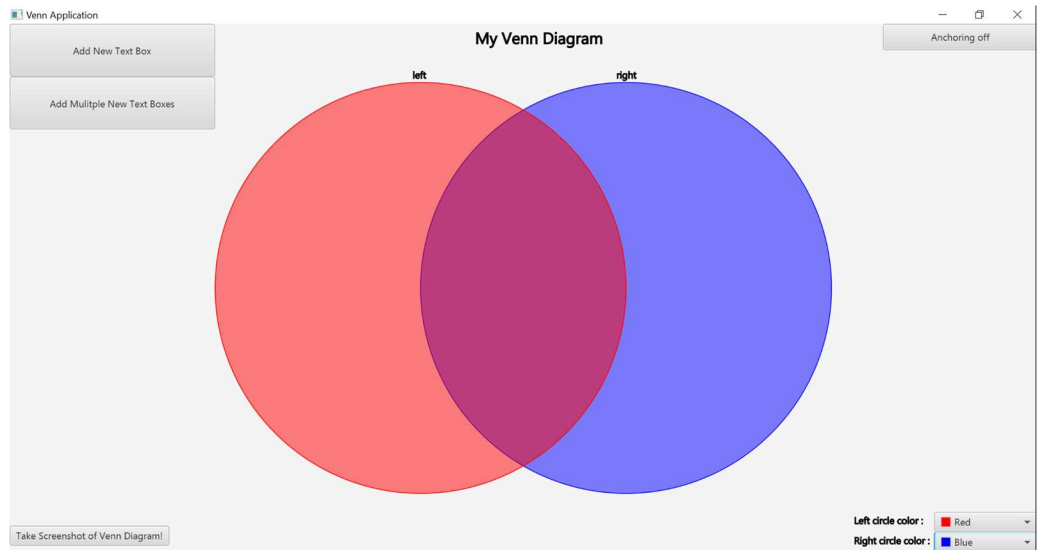


Fig: New title name taking effect after clicking “OK”

How to Customize the Circle Titles of the Venn Diagram

1. Move the mouse cursor above one of the circle titles located above the Venn diagram circles.
2. Left Click on the text with the mouse cursor.
3. A Text Editor Interface will open where you can change the text to your preferred title of that circle.
4. Click 'OK'.

User Case Scenario: Changing the right circle's title to "Things I'm Good At"

1. Move the mouse cursor above the right circle's title located above the Venn diagram's right circle.
2. Left Click on the text with the mouse cursor.
3. A Text Editor Interface will open, change the text of the circle title to "Left Circle Demo".

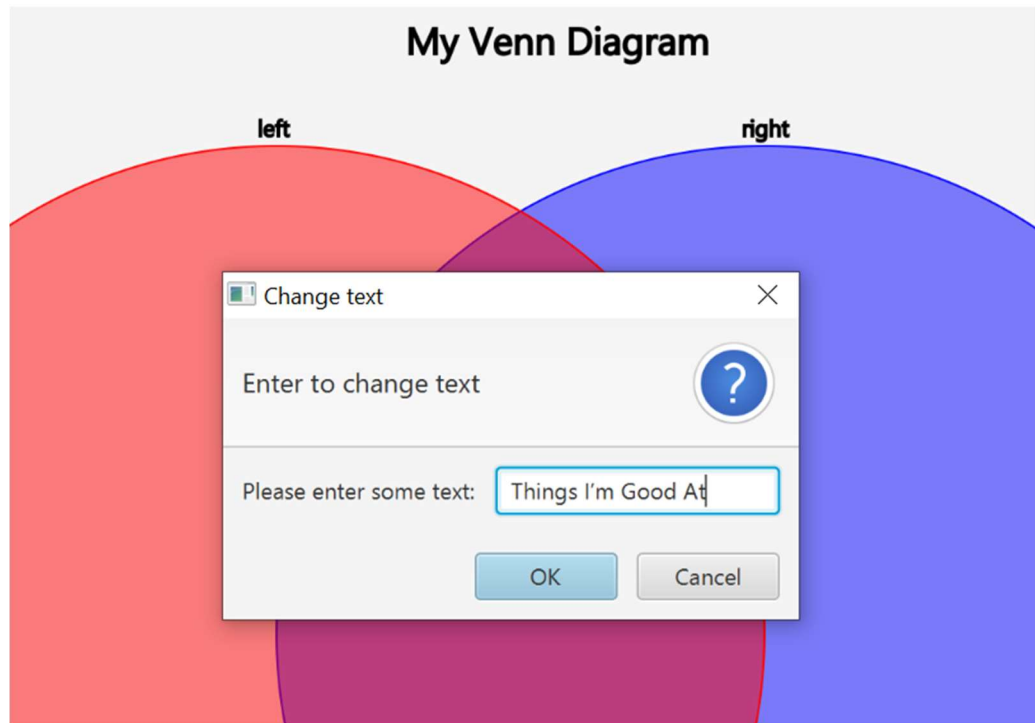


Fig: After left-clicking on the right circle's title 'right'

4. Click 'OK'.

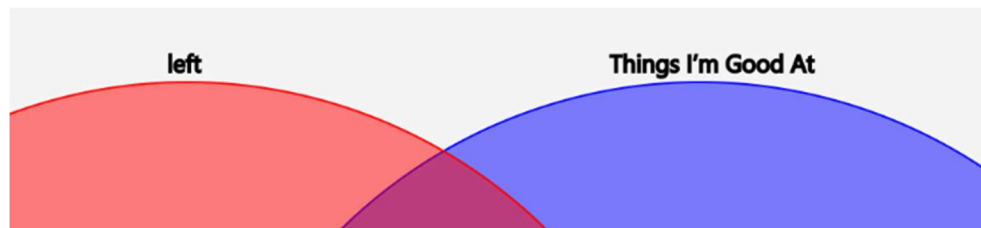


Fig: New title for the right circle taking effect after clicking "OK"

The same procedure could be repeated in order to change the title name for the left circle as well.

Customizing Venn Diagram Circles

How to Customize the Circles' Color

1. Select one of the Color Pallet buttons located at the bottom right corner of the window.
2. A selection of colors will open, click your preferred color for the circle.

User Case Scenario: Making the left circle's colour yellow

1. Select the 'Left circle color' button located at the bottom right corner of the window.

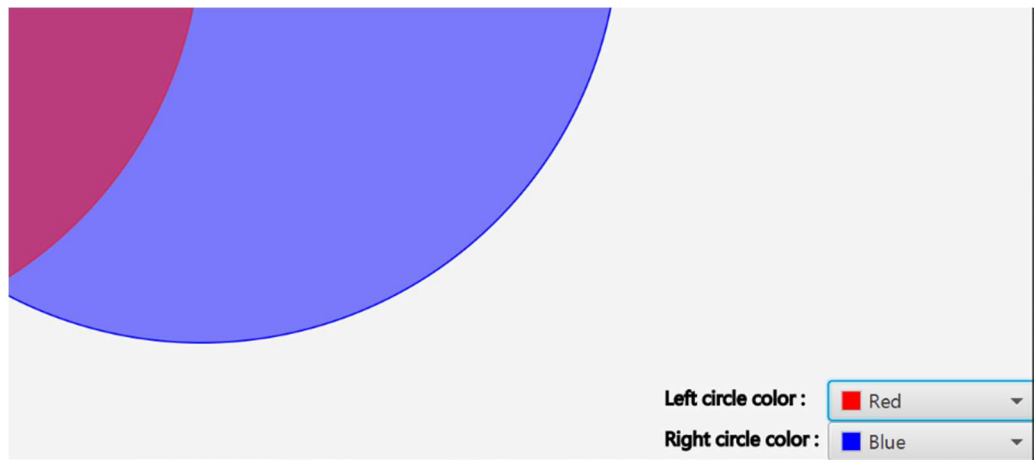


Fig: Color boxes located at the bottom-right corner of the window

2. A selection of colours will open.
3. Click on 'Custom Color...' and pick a yellow color

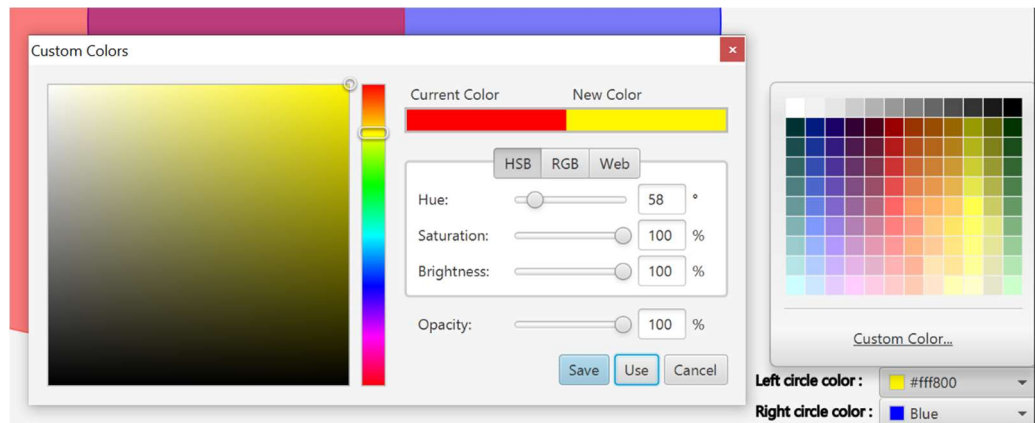


Fig: Selection of colors to choose from, after clicking on each of the boxes and then Custom Color option

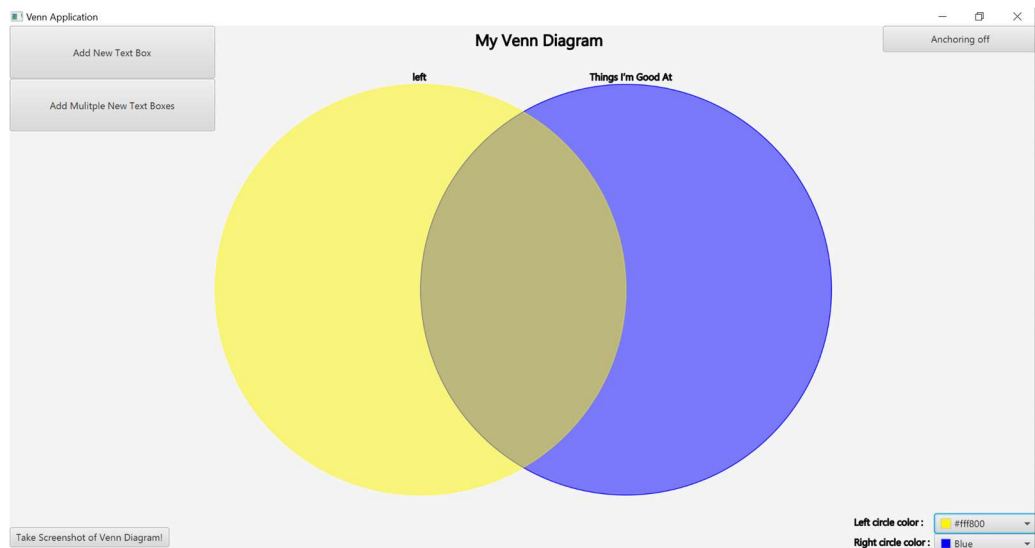


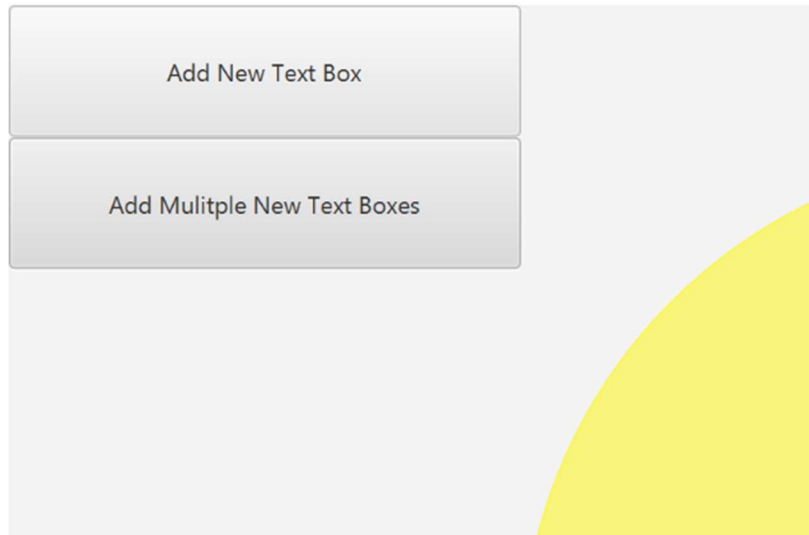
Fig: New color applied to the left circle after selection.

The same procedure could be repeated in order to change the color for the right circle as well.

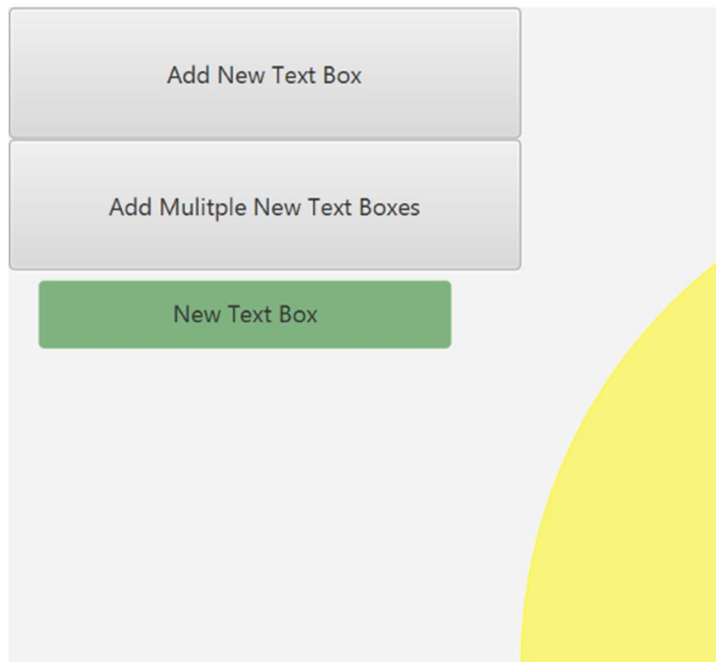
Customizing Text Boxes

Adding a Text Box to the Universal List

1. Select the 'Add Text Box' button located at the top left of the window.



2. Text Box is added to Universal List, located at the left side of the window.



Changing the text of a Text Box

1. Right click on a Text Box.
2. Modify Text to user preference in the text editor window that pops up.
3. Click 'OK'

User Case Scenario: Making the text of a Text Box “Hello World”

1. Right click the Text Box with the cursor.
2. Modify Text to “Hello World” in the text editor window that pops up.

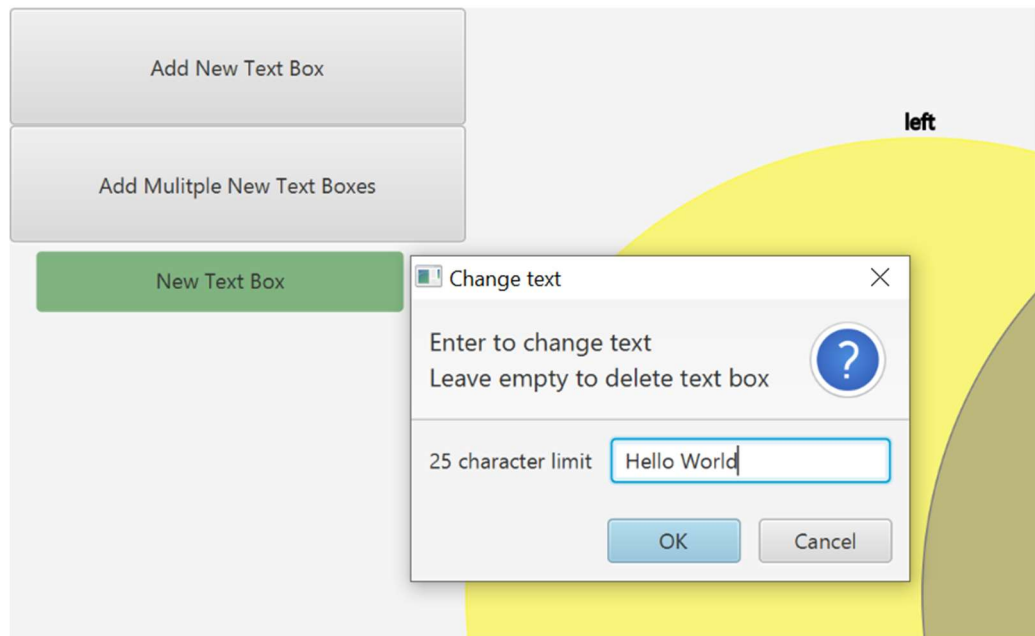


Fig: After right-clicking on the text box

3. Click 'OK'

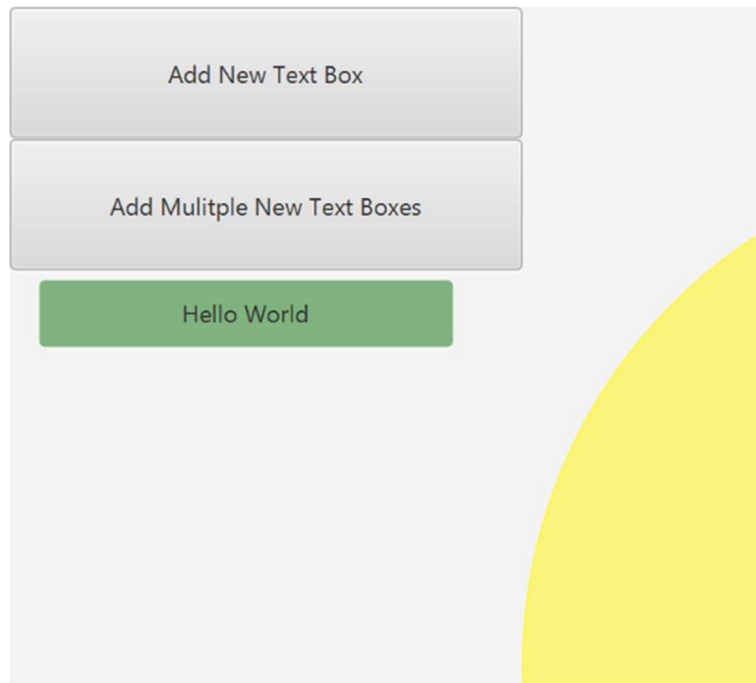


Fig: After clicking “OK”, the text of the text box has changed to ‘Hello World’

Dragging a Text Box into a Venn Diagram Section

1. Select a Text Box with the cursor.
2. Keep selecting the Text Box while dragging it over to one of the three Venn Diagram Sections.
3. Drop the Text Box.

User Case Scenario: Dragging a Text Box into the intersection section of the Venn Diagram

1. Select a Text Box you want to drag over with the cursor.
2. Keep selecting the Text Box while dragging it over to the middle section, located between the two Venn Diagram circles, of the Venn Diagram.

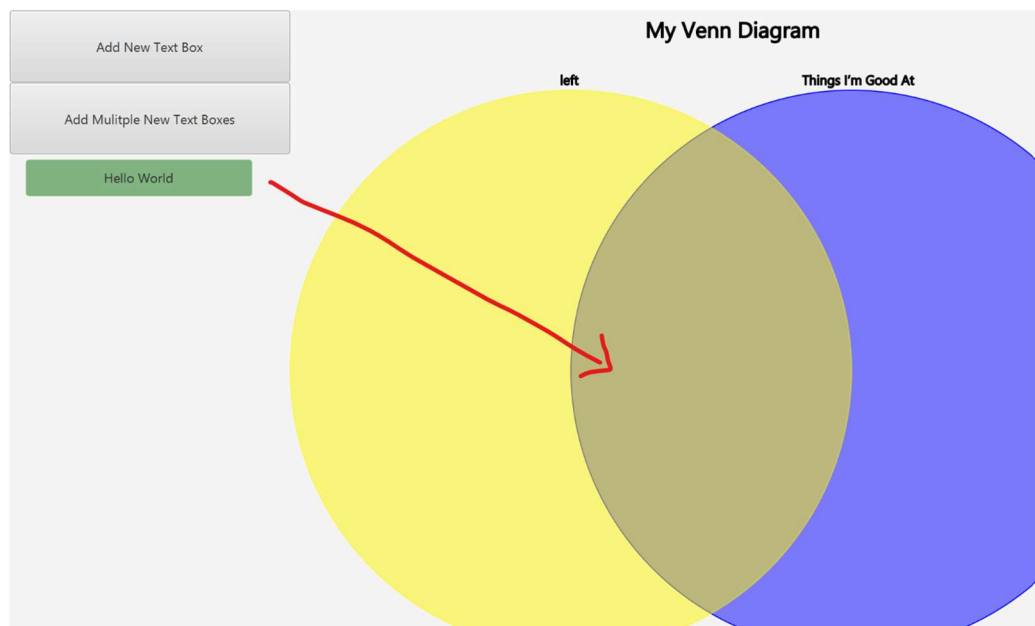


Fig: Keep dragging the box to the desired location.

3. Drop the Text Box.

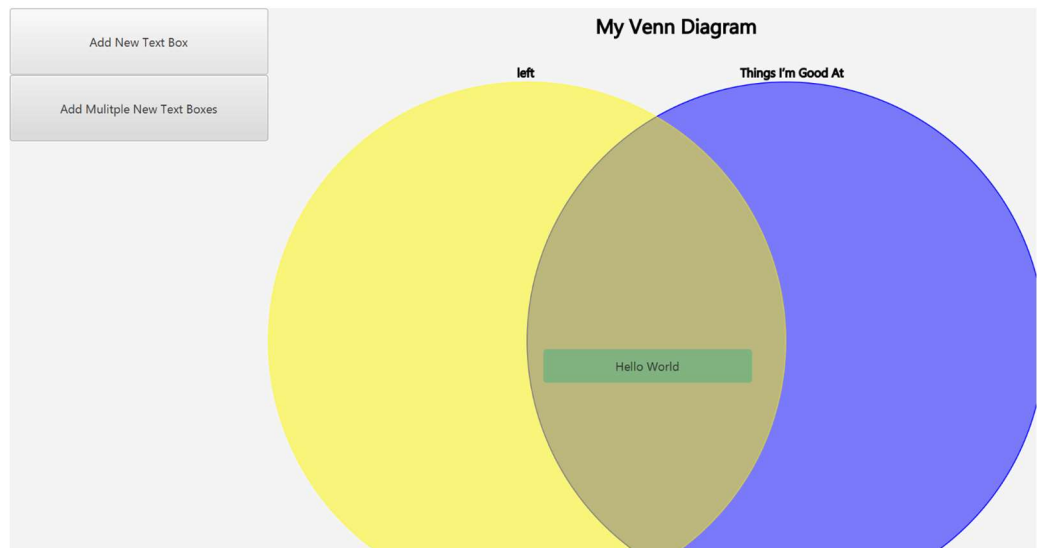
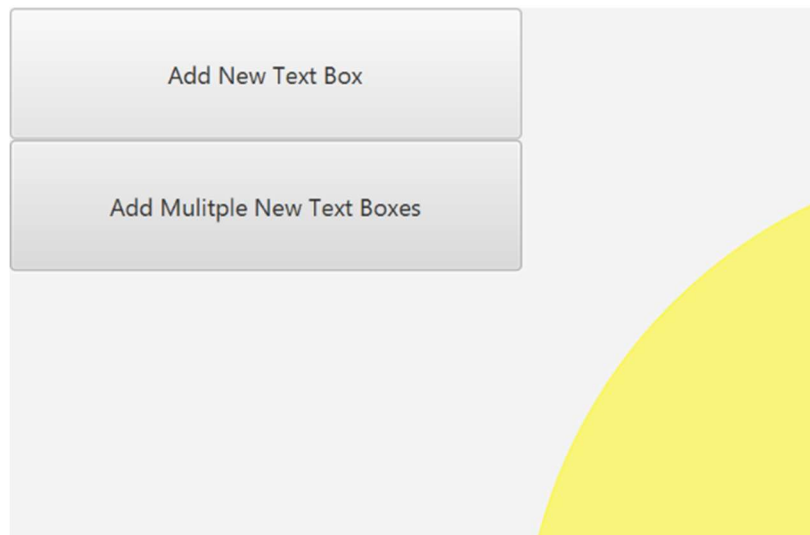


Fig: After dragging and dropping text box to desired location

Using the 'Add Multiple New Text Boxes' Button

1. Click the 'Add Multiple New Text Boxes' button located at the top left of the window.



2. A new window opens



Adding text into the list

1. Click the 'Add One Text to List' button
2. Clicking the button multiple times will add multiple texts to the list

User Case Scenario: Adding 4 text boxes into the list

1. Click the 'Add One Text to List' button

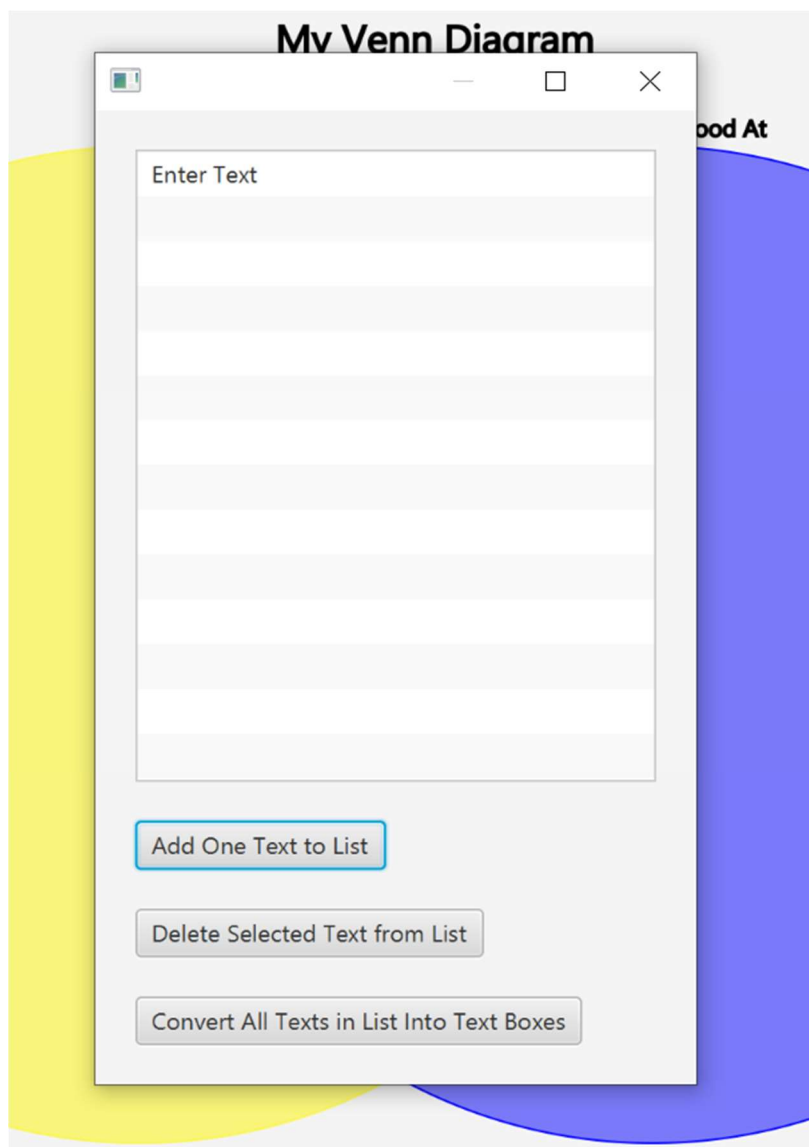


Fig: After clicking the 'Add One Text to List

2. Click the button 3 more times

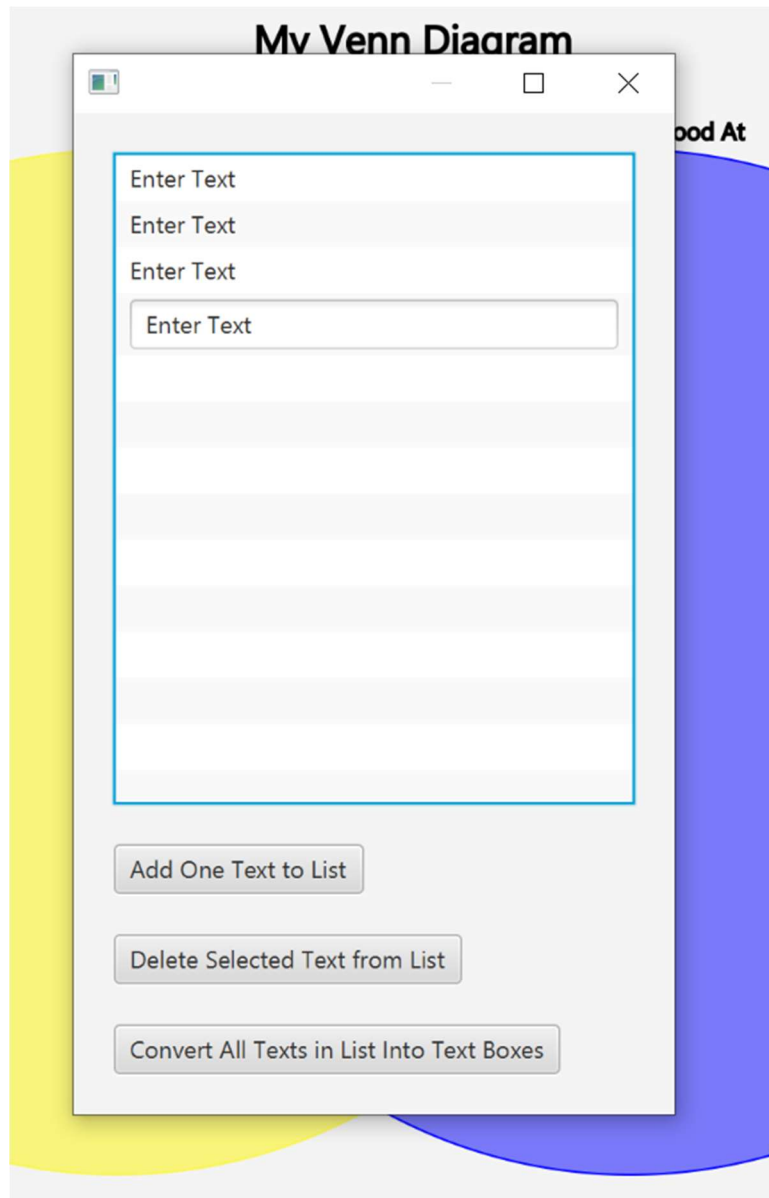


Fig: After clicking the 'Add One Text to List' 3 more times

Editing text in the list

1. Double click the desired text.
2. Press Enter.

User Case Scenario: Changing the text of the first text to 'First'

1. Double click the desired text.

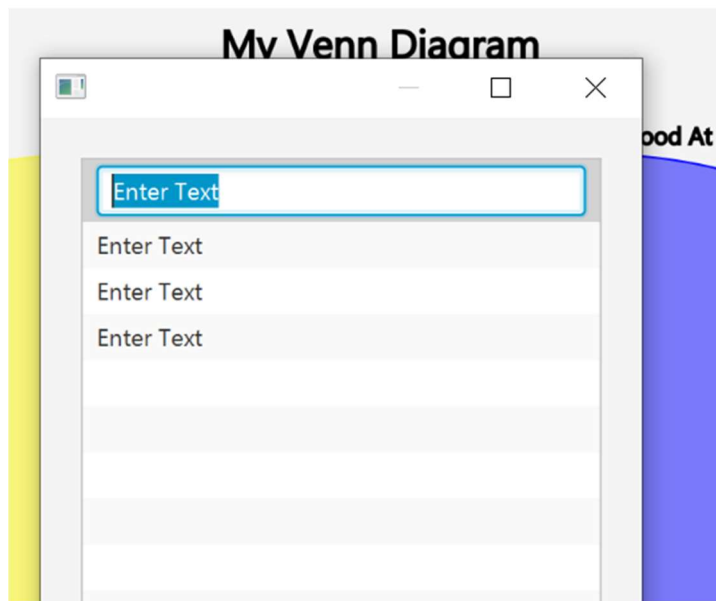


Fig: After double clicking the first text field

2. Type 'First' and press Enter

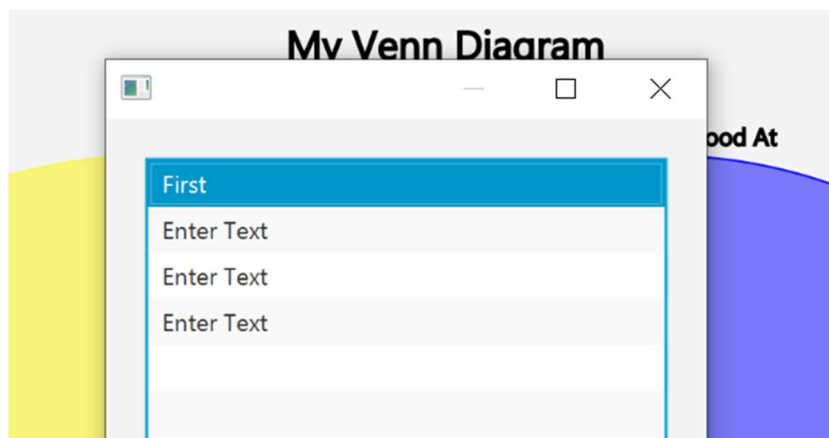


Fig: After Typing and Entering 'First'

Deleting text in the list

1. Select the undesired text.
2. Click 'Delete Selected Text from List'.

User Case Scenario: Deleting the last text in the list

1. Select the last text in the list

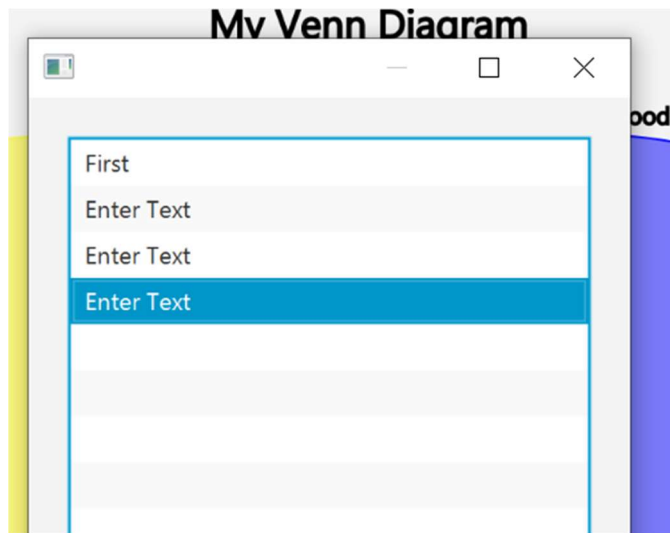


Fig: After clicking on the last text in the list

2. Click 'Delete Selected Text from List'.

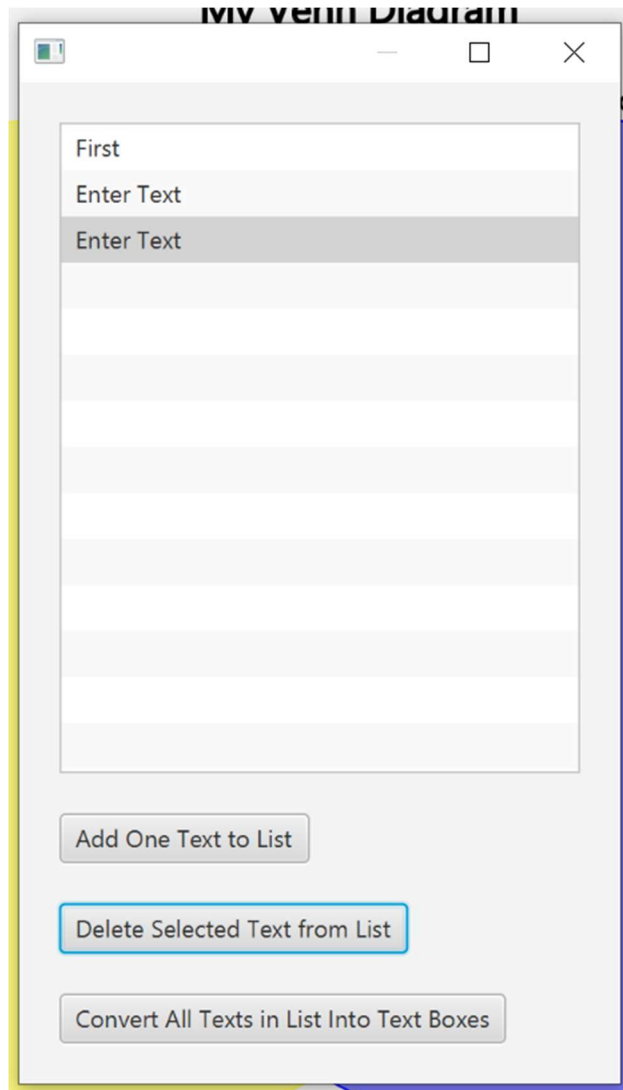


Fig: After clicking on 'Delete Selected Text from List' button

Converting text in the list to text boxes in the Venn Diagram

1. Click on the 'Convert All Texts in List into Text Boxes' button.

User Case Scenario: Converting text in the list to text boxes in the Venn Diagram

1. Click on the 'Convert All Texts in List into Text Boxes' button.

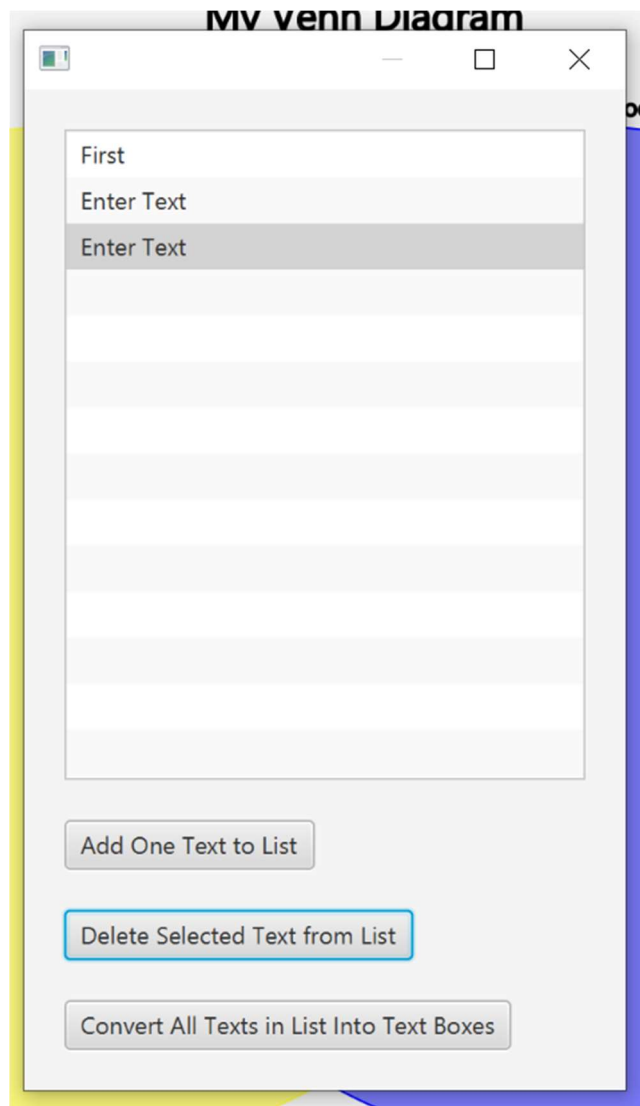


Fig: Before clicking on the 'Convert All Texts in List into Text Boxes' button

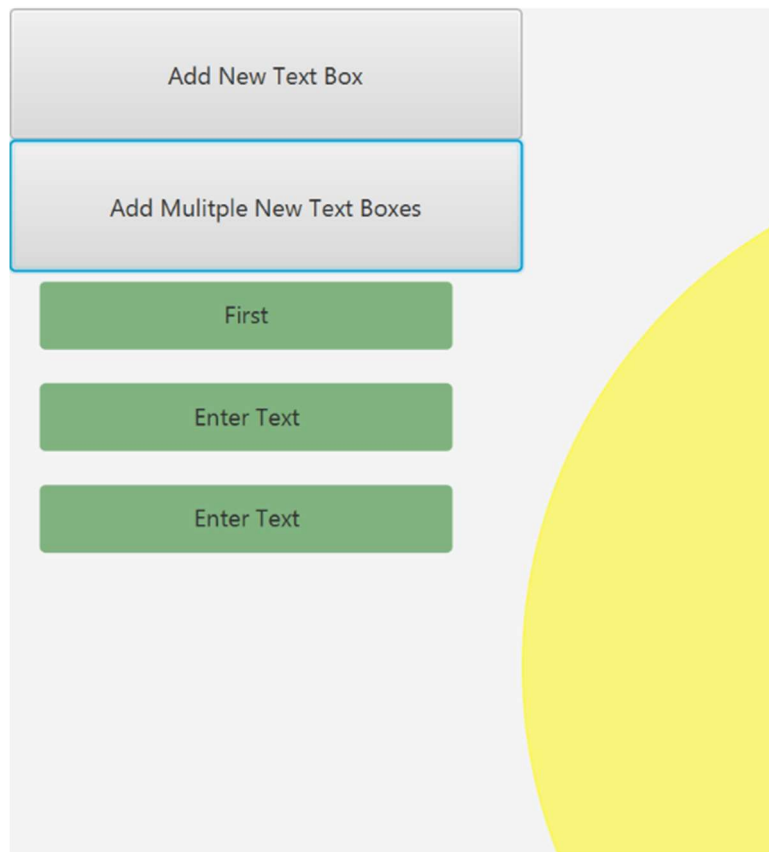


Fig: After clicking on the 'Convert All Texts in List into Text Boxes' button

Using the 'Anchoring' Button

The anchoring button is used to snap the text boxes into preprogrammed positions when dragged within the circles.

Anchoring will be off by default and can be toggled on or off depending on the user's need.

Anchoring toggled off

When anchoring is toggled off, the following features are implemented:

1. Text boxes will remain wherever the user dragged them.
2. No limitations will be present when dragging text boxes, even in potentially unfavourable positions.
3. Window can be resized and the Venn diagram will do its best to accommodate the resizing process. The diagram will not look good in a medium to small size so the user is advised to keep the resizing relatively big and with consistent dimensions.

Anchoring toggled on

When anchoring is toggled on, the following features are implemented:

4. Text boxes snap to the closest preprogrammed positions when dragged within the circles.
5. Only a certain number of text boxes can be shown at any given time (11 in either circles and 6 in the intersection). Text boxes will start overlapping if the user attempts to drag a text box close to another text box.
6. Application window will remain maximized.

User Case Scenario: Dragging 3 Text Boxes into the each of the 3 sections of the Venn Diagram with anchoring toggled on

1. Click on the 'Anchoring' button located on the top right corner of the window.

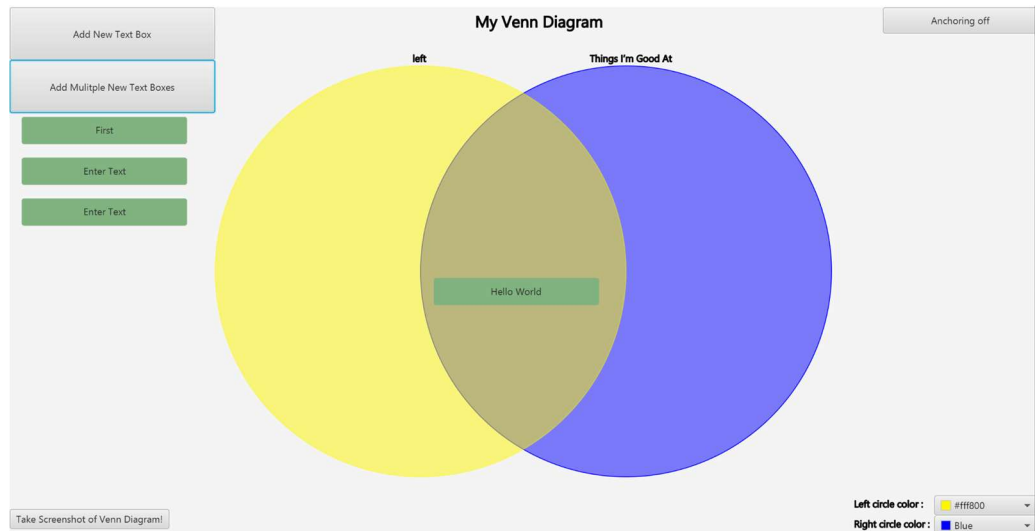


Fig: Before clicking the 'Anchoring' button

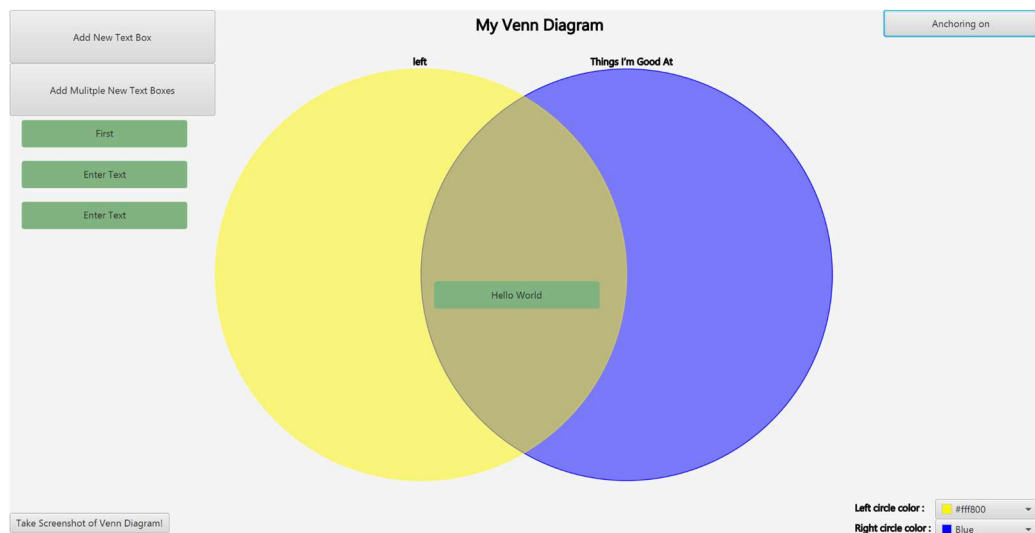


Fig: After clicking the 'Anchoring' button

2. Drag the three boxes on the left into the left, intersection and the right circles. The text boxes will snap into place.

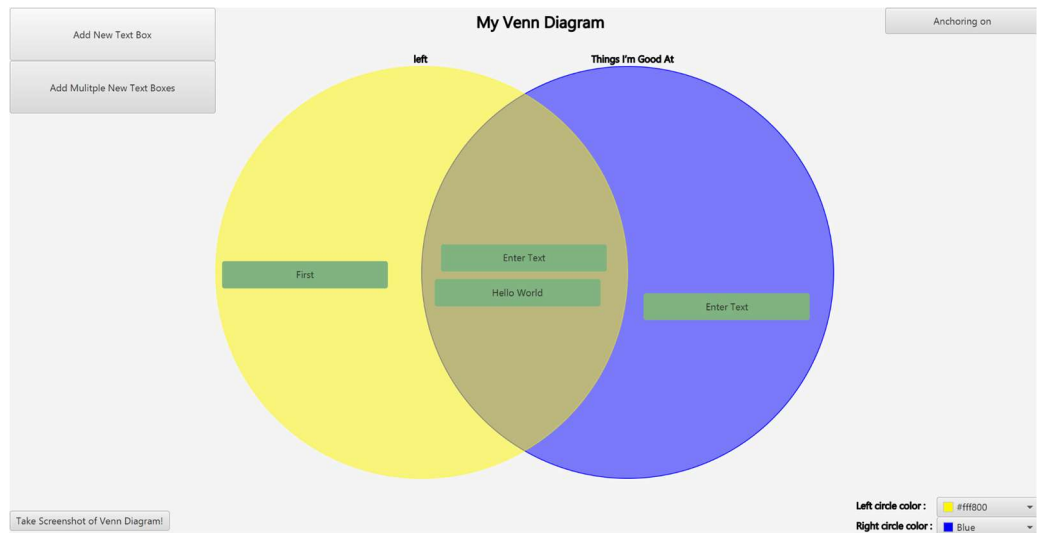


Fig: After dragging the three text boxes

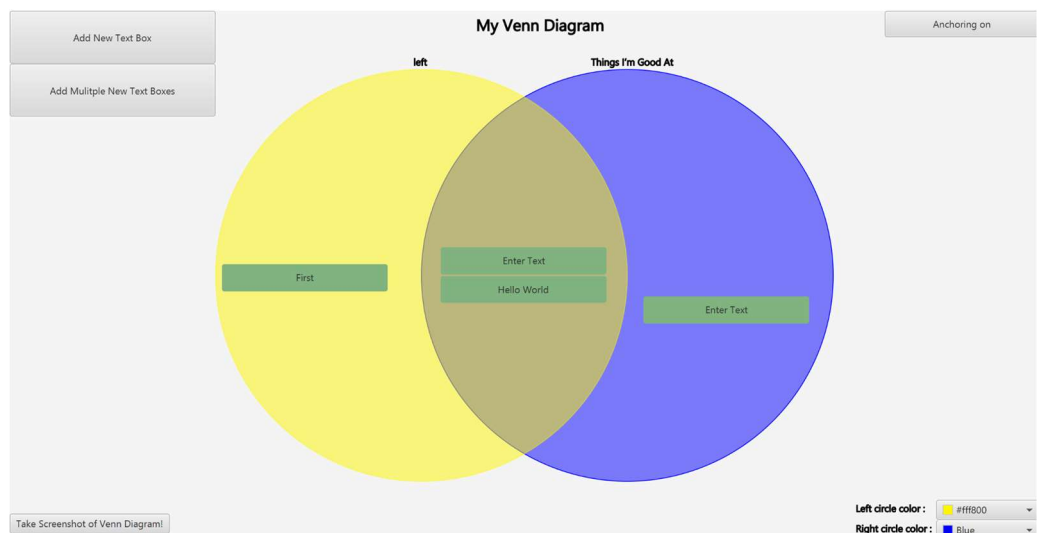


Fig: After readjusting the 'Hello World' button by moving it approximately one mm to the right

Taking a screen shot

A screenshot can be taken anytime by clicking the 'Take Screenshot of Venn Diagram' button. This button takes a screen shot of the screen instead of the application window, this will be fixed in later versions.

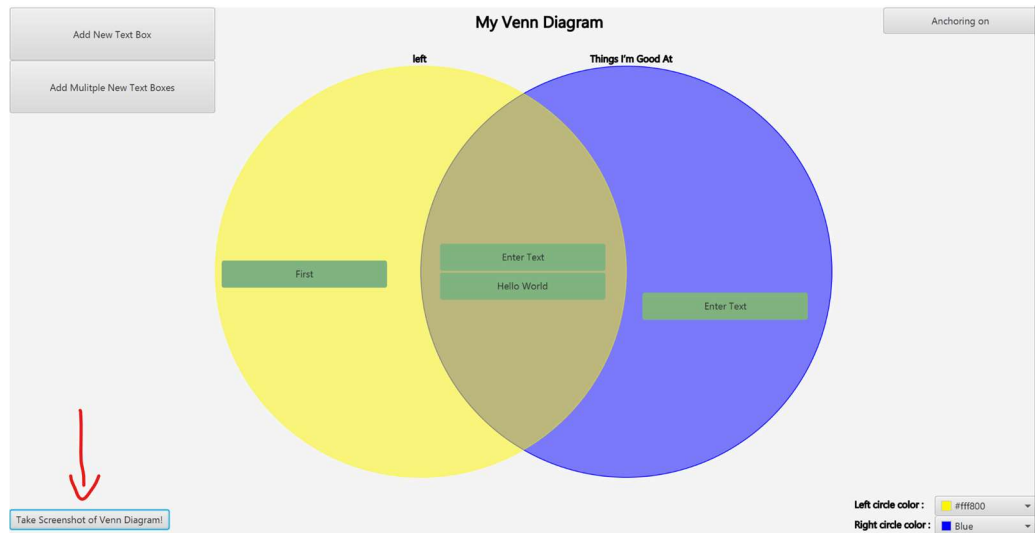


Fig: Position of the screenshot button