



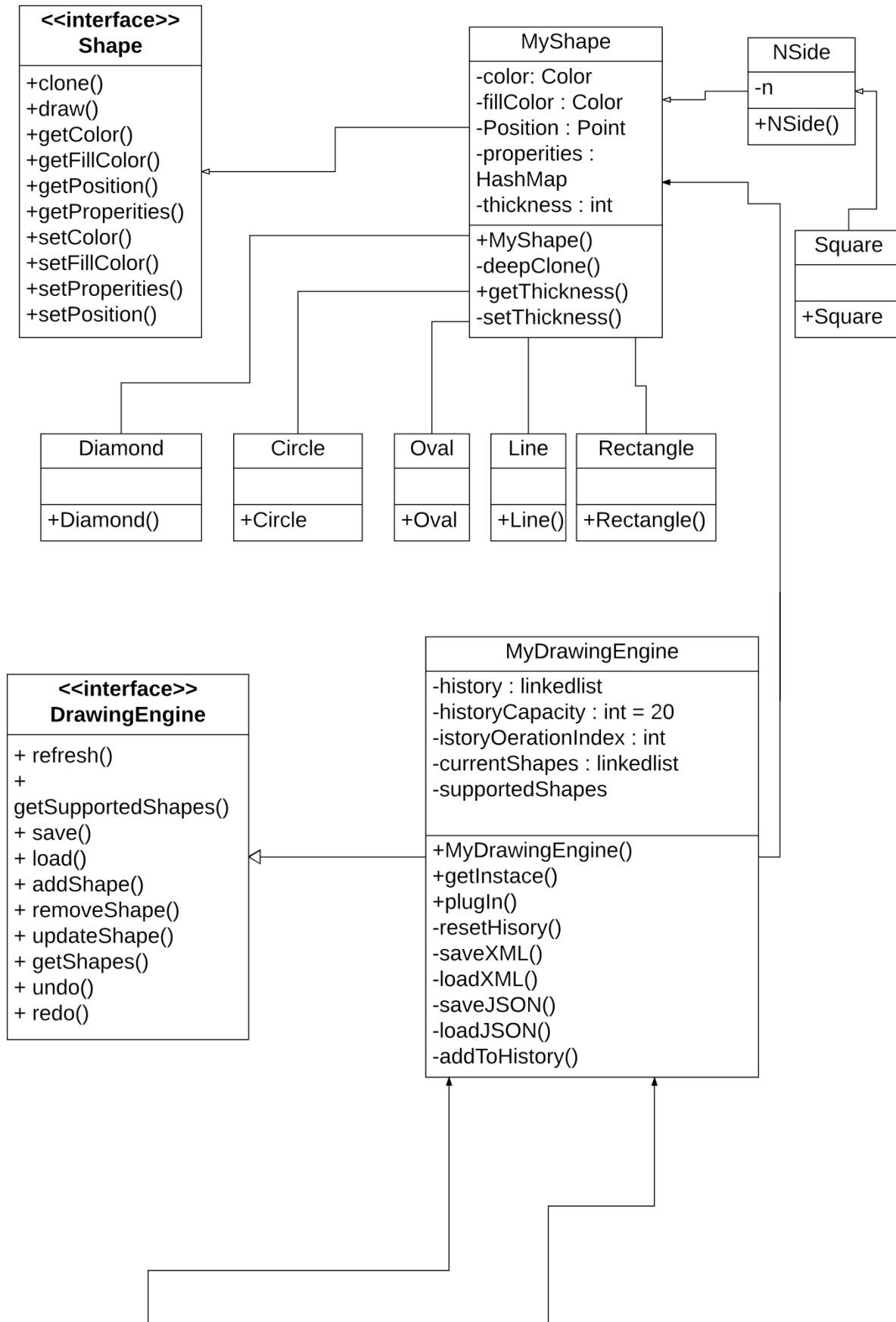
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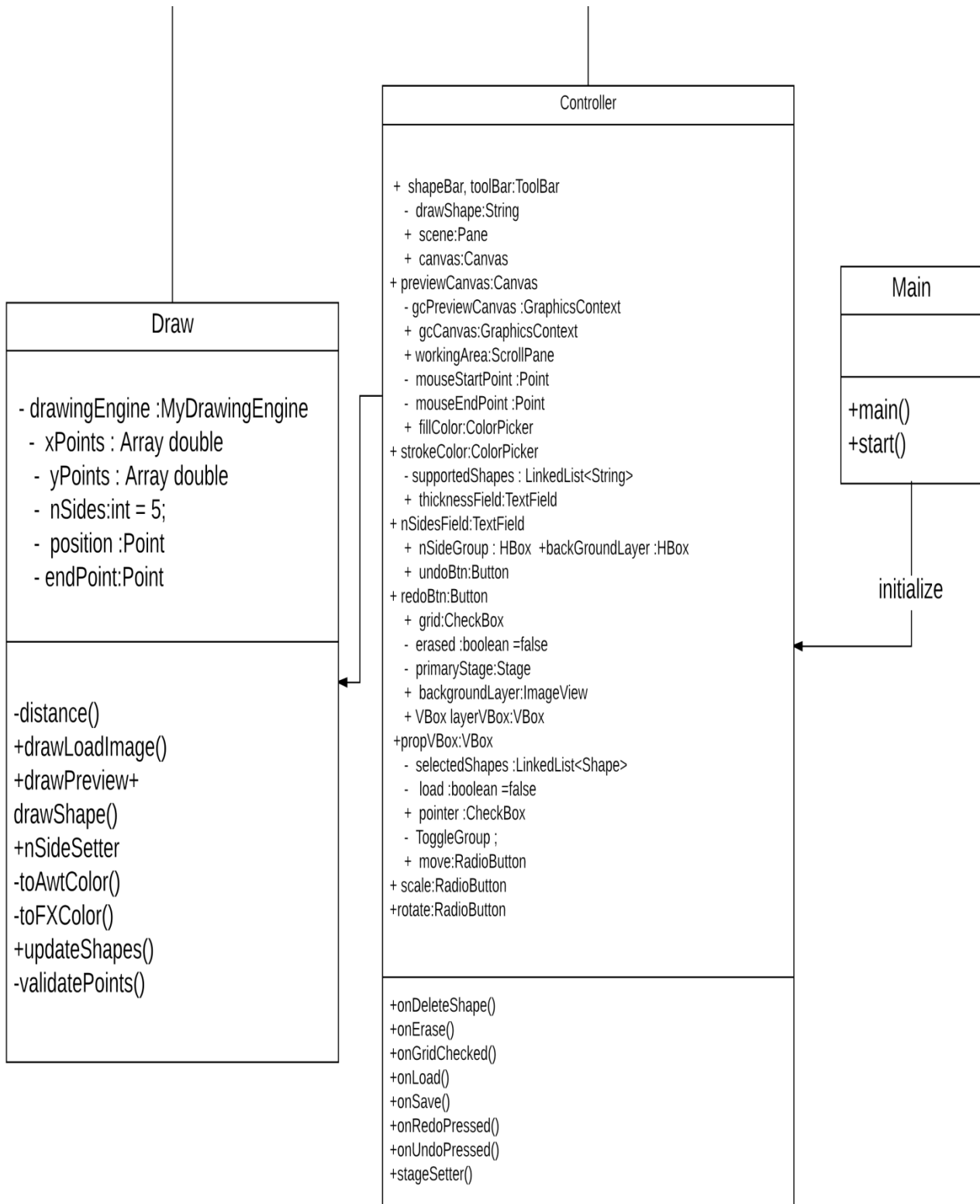
# Paint Software

Paint is software to draw colored shapes and control their position, change line thickness and more throw an easy GUI. We used java as programming language for this software, javaFX as a library for the GUI, XMLEncoder and XMLDecoder for saving data in xml file and finally we implemented our own JSON parser ... The software is very easy to use . the user can draw, resize and move shapes just by dragging it. Finally we made JNLP - even we are a team of two - . you can download from "paintklb.000webhostapp.com"

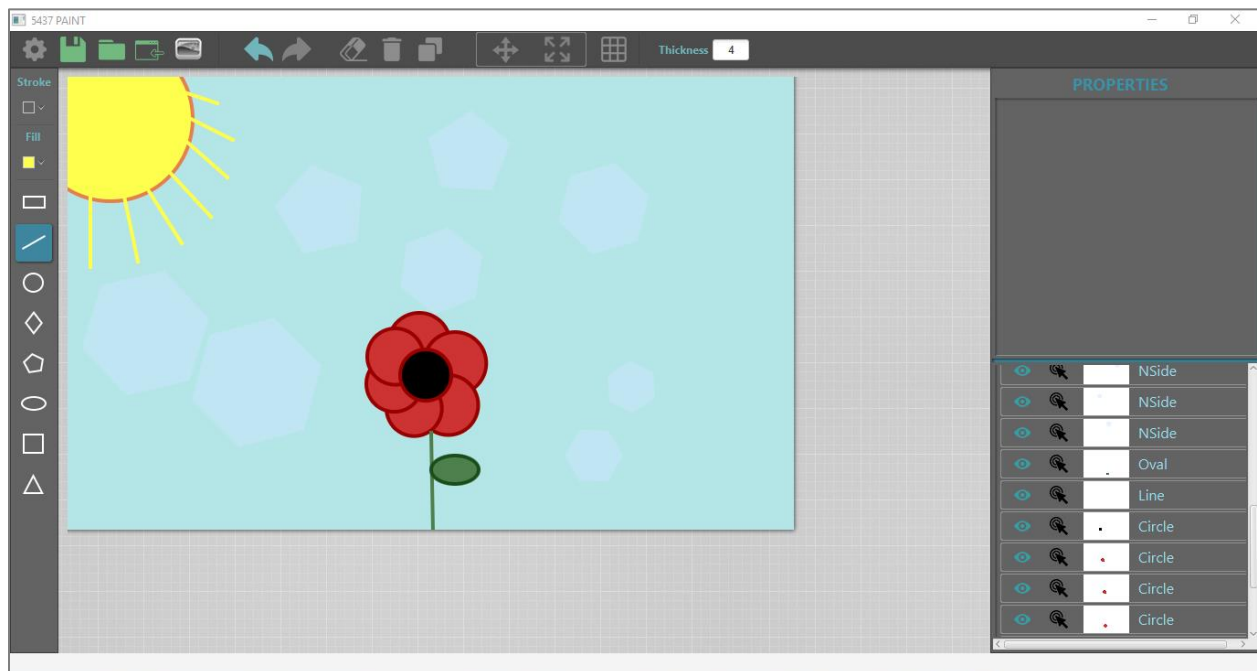
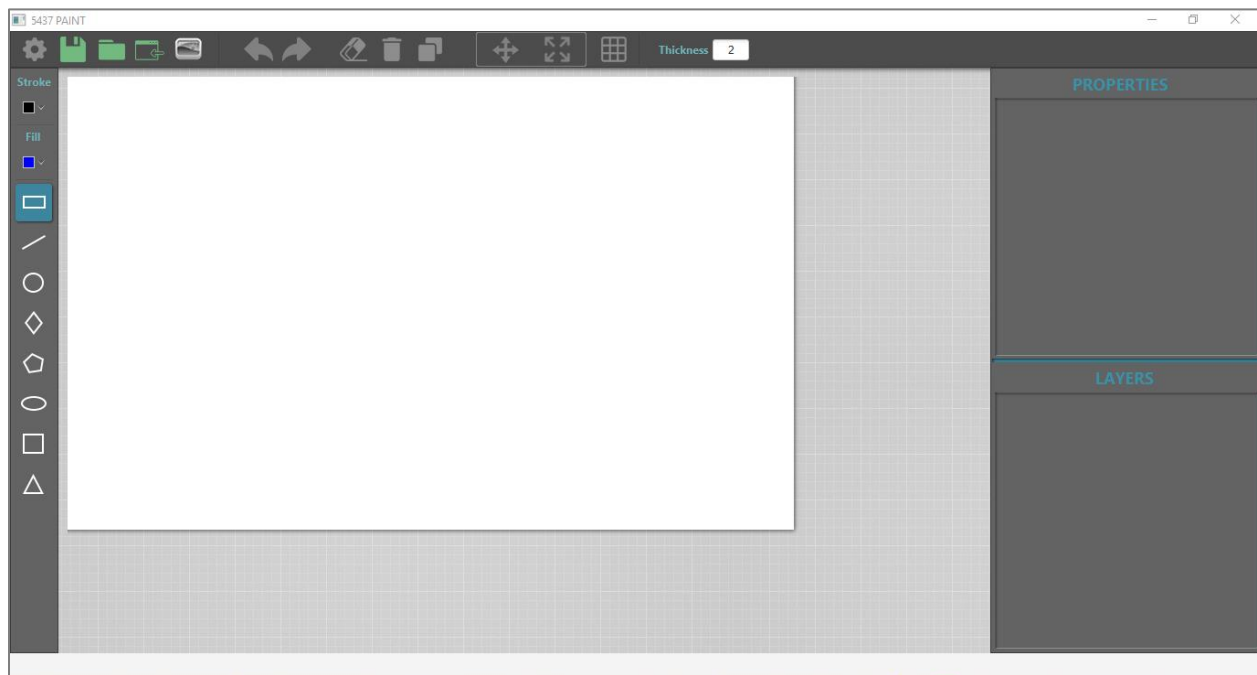
Muhammad El-Sayed Sharaf El-Deen 54  
Abdelrahman Ahmed Muhammad Abdelfattah Omran 37  
11/23/2017

# UML Diagram

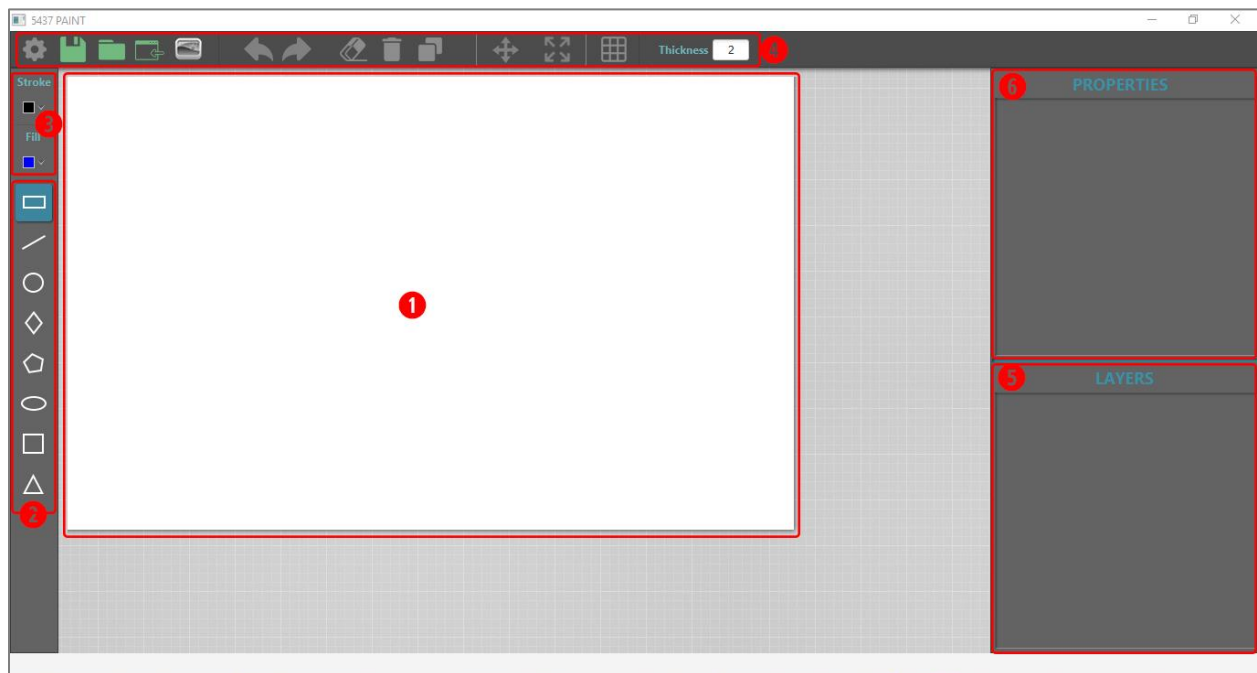




# Design

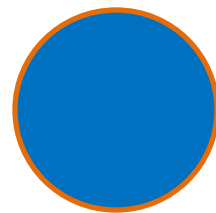


# User Guide

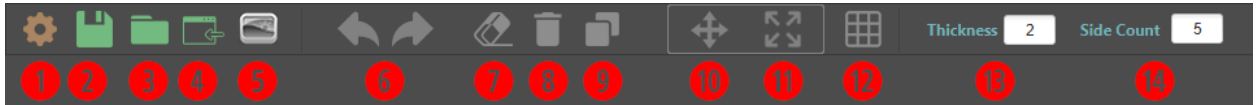


1. **Drawing Area** where you can make various drawings.
2. **Shapes Menu** where you can pick a shape and start drawing it on the Drawing Area  
(Shapes are extendable that you can import a new shape and use it)
3. **Colors Menu** where you choose a **stroke color** and a **fill color** to your shape,

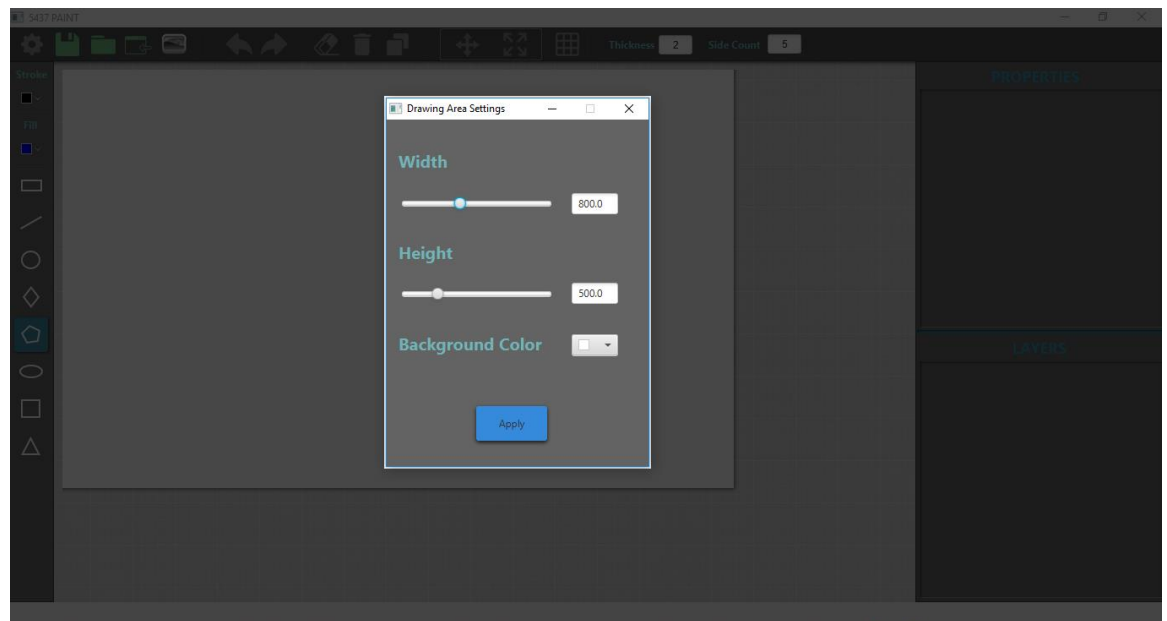
Or change selected shape(s) colors.



## 4. Tool Bar

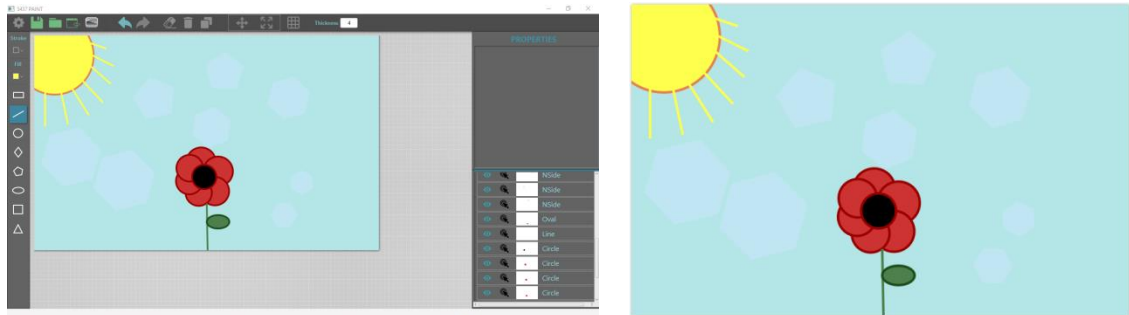


1. **Scene Settings** which opens a window where you specify width and height of the drawing area, you can also set background color.



2. **Save Scene** which allows you save you current drawing to any folder in your computer as .xml and .json format.
3. **Load Scene** which allows you load a scene you saved before.
4. **Import Shape** which allows you import a new shape and draw it.

**5. Save As** which allows you to save your drawing as a PNG image.



**6. Undo Redo** which allows undo and redo operations to your drawing.

**7. Erase** which clears the drawing area.

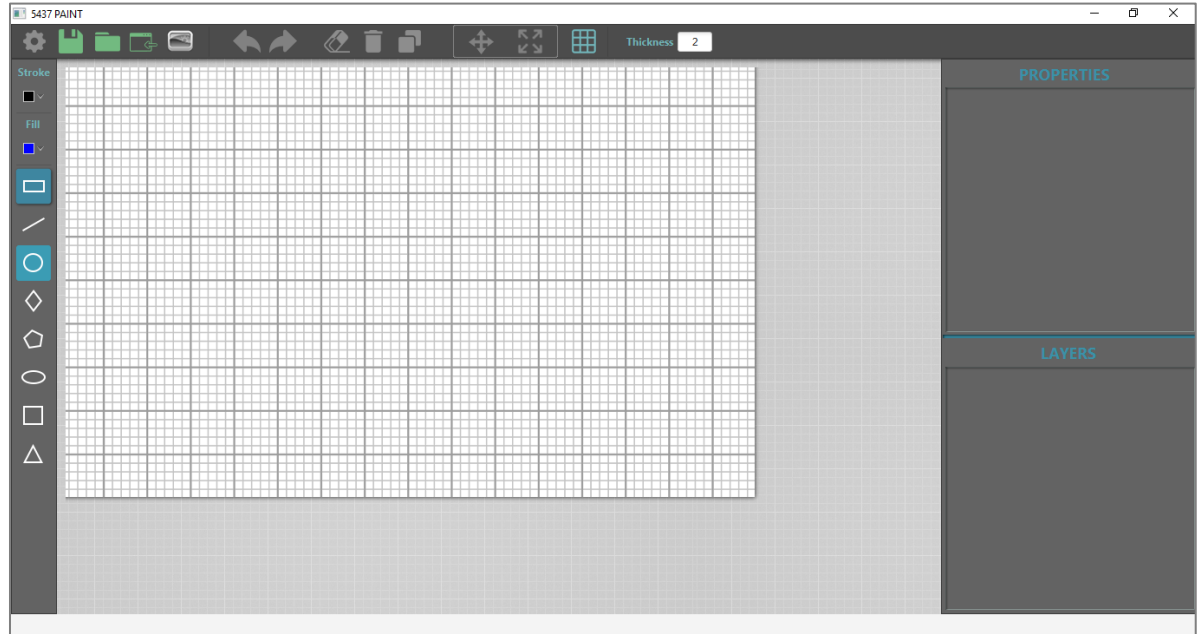
**8. Remove** which allow you to remove the selected shape(s).

**9. Copy** which allow you to clone the selected shape(s).


**10. Move tool** which allows you to move the selected shape(s).

**11. Resize** tool which allows you to resize the selected shape(s).

**12.Grid** tool which adds a helpful grid to the drawing area allowing you to draw more precisely.



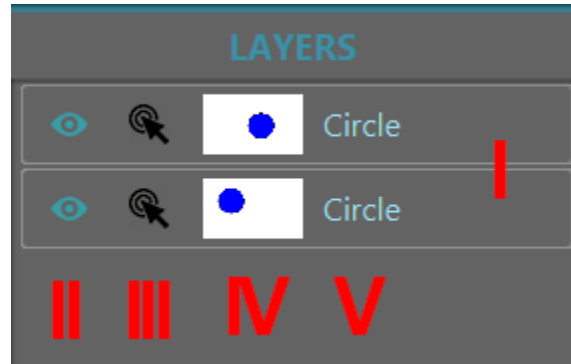
**13.Thickness** which allows you specify the stroke thickness of your drawing, it can also update the current selected shape(s) stroke thickness.

**14.Side** Count which allow you specify the number of regular shape  sides.

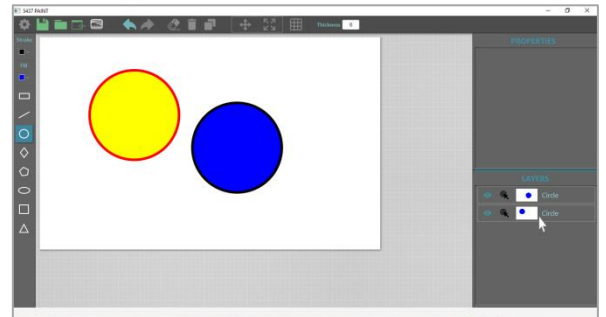
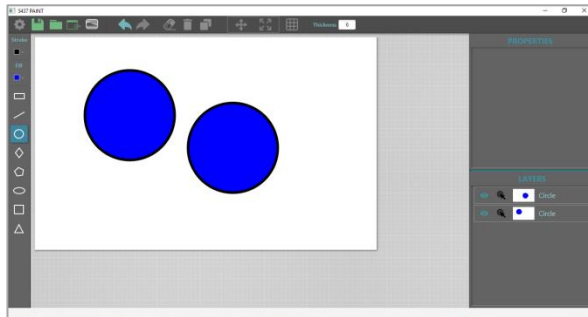


**5.Layers** which contains a layer to each shape,

This layer provides some features:



- I. Hovering over it will change its corresponding shape colors to **red stroke** and **yellow fill**.



- II. Show and hide shape
- III. Select and deselect shape
- IV. Shape image on Scene
- V. Shape type

**6.Properties** which contains the properties of the current selected shape.