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 1 contributor

127 lines (106 sloc) | 4.33 KB

...

```
1  using SplashKitSDK;
2  using System;
3
4  namespace _5._2C_Not_Complete
5  {
6      public class Program
7      {
8          private enum ShapeKind
9          {
10              Rectangle,
11              Circle,
12              Line
13          }
14
15          public static void Main()
16          {
17              Window window = new("5.2C: Thomas Horsley - 103071494", 800, 600);
18              Drawing drawing = new();
19
20              ShapeKind kindToAdd = ShapeKind.Circle;
21
22              do
23              {
24                  SplashKit.ProcessEvents();
25                  SplashKit.ClearScreen();
26
27                  Point2D mouseLocation = SplashKit.MousePosition();
28
29                  //! Mouse Functionality
30                  if (SplashKit.MouseClicked(MouseButton.LeftButton))
31                  {
32                      if (kindToAdd == ShapeKind.Rectangle)
```

```
33     {
34         Shape rectangleShape = new MyRectangle(Color.Green, 0, 0, false, 100, 100);
35         {
36             X = (float)mouseLocation.X,
37             Y = (float)mouseLocation.Y
38         };
39
40         drawing.AddShape(rectangleShape);
41     }
42     if (kindToAdd == ShapeKind.Circle)
43     {
44         Shape circleShape = new MyCircle(Color.Red, 0, 0, false, 50)
45         {
46             X = (float)mouseLocation.X,
47             Y = (float)mouseLocation.Y
48         };
49
50         drawing.AddShape(circleShape);
51     }
52     if(kindToAdd == ShapeKind.Line)
53     {
54         Shape lineShape = new MyLine(Color.GreenYellow, 0, 0, false, 50)
55         {
56             X = (float)mouseLocation.X,
57             Y = (float)mouseLocation.Y,
58         };
59
60         drawing.AddShape(lineShape);
61     }
62 }
63
64 //! Keystroke Functionality
65 //? Relates keys pressed to shape kind
66 if (SplashKit.KeyReleased(KeyCode.RKey))
67 {
68     kindToAdd = ShapeKind.Rectangle;
69 }
70 else if (SplashKit.KeyReleased(KeyCode.CKey))
71 {
72     kindToAdd = ShapeKind.Circle;
73 }
74 else if (SplashKit.KeyReleased(KeyCode.LKey))
75 {
76     kindToAdd = ShapeKind.Line;
77 } //TODO <--- can i use cases instead?
78
79
80 //? Checks if shape is selected
81 if (SplashKit.MouseClicked(MouseButton.RightButton))
82 {
83     drawing.SelectShapesAt(mouseLocation);
84 }
```

```
85
86
87     //? Changes background color when user presses space
88     if (SplashKit.KeyReleased(KeyCode.SpaceKey))
89     {
90         drawing.Background = SplashKit.RandomRGBColor(255);
91     }
92
93     if (SplashKit.KeyReleased(KeyCode.DeleteKey) || SplashKit.KeyReleased(KeyCode.F5))
94     {
95         foreach (Shape genericShape in drawing.SelectedShapes)
96         {
97             drawing.RemoveShape(genericShape);
98         }
99     }
100
101     //? Saves the data in a text file if Keydown S and Loads on Keydown O
102     if (SplashKit.KeyReleased(KeyCode.SKey))
103     {
104         drawing.Save(Environment.GetFolderPath(Environment.SpecialFolder.Desktop));
105     }
106
107     if (SplashKit.KeyReleased(KeyCode.OKey))
108     {
109         try
110         {
111             drawing.Load(Environment.GetFolderPath(Environment.SpecialFolder.Desktop));
112         }
113         catch (Exception loadException)
114         {
115             Console.Error.WriteLine("Error loading file {0}", loadException.Message);
116         }
117     }
118
119     drawing.Draw();
120     SplashKit.RefreshScreen(60);
121 } while (!window.CloseRequested);
122
123 }
124
125 }
126
127
```