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[COS20007](#) / [5.2C-Complete](#) / [MyLine.cs](#) / <> Jump to ▾

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 1 contributor

81 lines (67 sloc) | 1.92 KB

...

```
1  using SplashKitSDK;
2  using System;
3  using System.IO;
4
5  namespace _5._2C_Not_Complete
6  {
7      public class MyLine : Shape
8      {
9          ///! Fields
10         private float _length;
11
12         ///! Constructors
13         public MyLine()
14             : this(Color.BlueViolet, 0, 0, false, 150)
15         {
16
17         }
18
19         public MyLine(Color color, float x, float y, bool selected, float length) : base(color, x, y, selected)
20         {
21             this._length = length;
22         }
23
24         ///! Properties
25         public float Length
26         {
27             get { return _length; }
28             set { _length = value; }
29         }
30
31
32         ///! Methods
```

```
33     public override bool IsAt(Point2D mouseLocation)
34     {
35         Point2D initialPoint = new()
36         {
37             X = X,
38             Y = Y
39         };
40
41         Point2D finalPoint = new()
42         {
43             X = X + Length,
44             Y = Y
45         };
46
47         Line line = SplashKit.LineFrom(initialPoint, finalPoint);
48         return SplashKit.PointOnLine(mouseLocation, line);
49     }
50
51     public override void DrawOutline()
52     {
53         SplashKit.DrawCircle(Color.GhostWhite, X, Y, 2);
54         SplashKit.DrawCircle(Color.GhostWhite, X + Length, Y, 2);
55     }
56
57     public override void Draw()
58     {
59         SplashKit.DrawLine(Color, X, Y, (X + Length), Y);
60
61         if (Selected)
62         {
63             DrawOutline();
64         }
65     }
66
67     ///! 5.2C Saving and Loading functionality
68     public override void SaveTo(StreamWriter writer)
69     {
70         writer.WriteLine("Line");
71         base.SaveTo(writer);
72         writer.WriteLine(Length);
73     }
74
75     public override void LoadFrom(StreamReader reader)
76     {
77         base.LoadFrom(reader);
78         Length = reader.ReadInteger();
79     }
80 }
81 }
```