

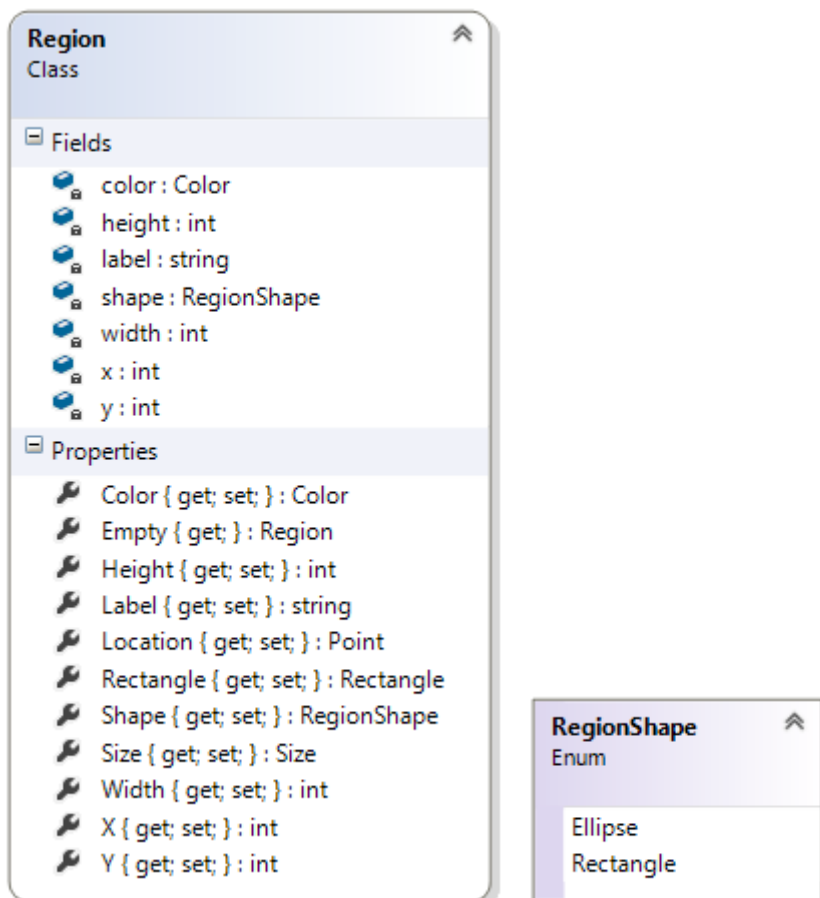
Region Editor

Objective

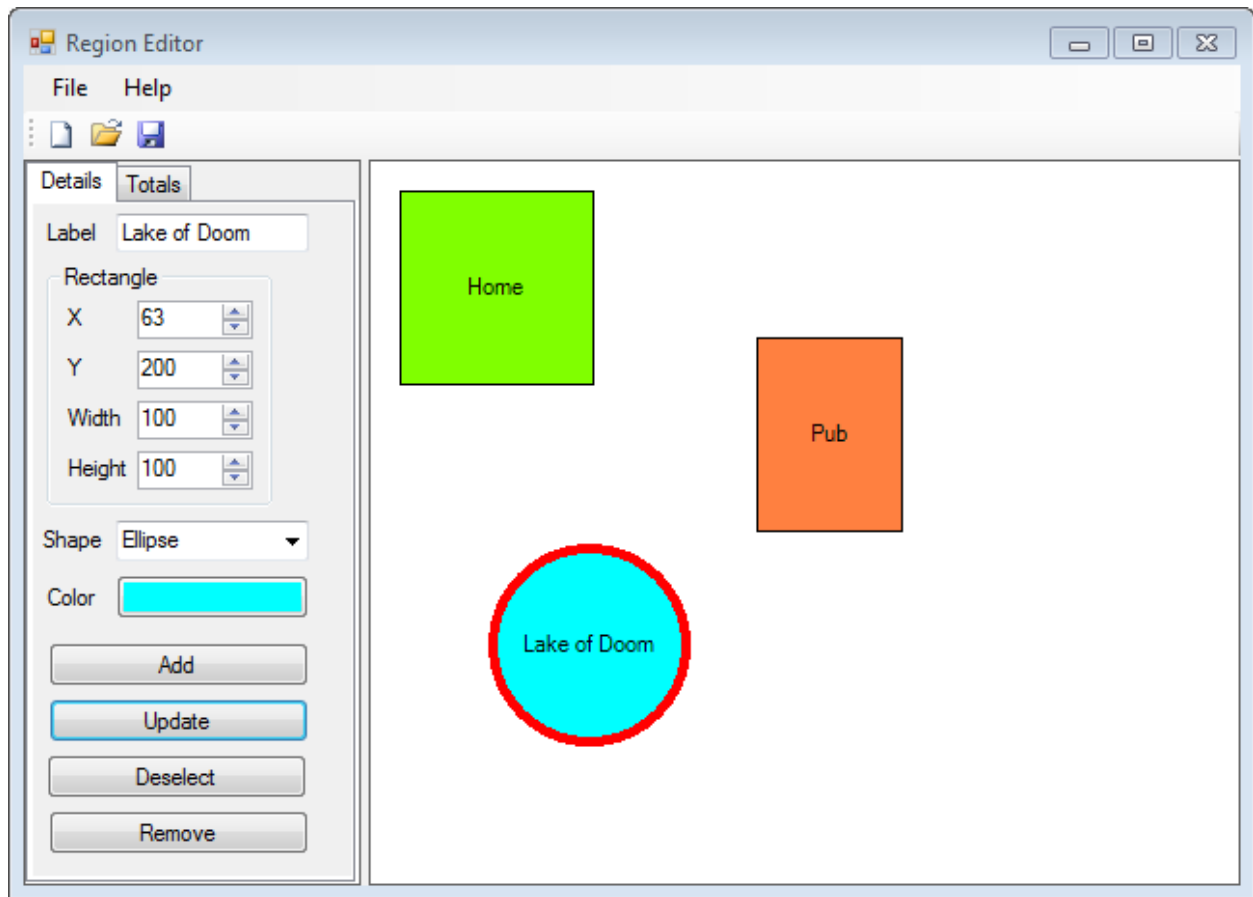
The purpose of the Region Editor is to become familiar with the basic GDI+ functionality and the mechanics of painting in .NET window classes. We will again use a list to store multiple instances of a region abstraction but this time, instead of a list box, a generic `List<T>` array type will be used.

Region Class

Please note the Shape is an enumeration type you will have to define. It should contain at least 2 values: Rectangle and Ellipse.



Main Form



Hints

Save Colors to a File

To save a color to a file save the integer returned from its [ToArgb\(\)](#) method. To read the color back in, parse it to an integer and then pass it to the static method [FromArgb\(\)](#).

Store Selected Color in a Button

```
private void buttonColor_Click(object sender, EventArgs e)
{
    ColorDialog dlg = new ColorDialog();
    dlg.Color = buttonColor.BackColor;
    if (DialogResult.OK == dlg.ShowDialog())
    {
        buttonColor.BackColor = dlg.Color;
    }
}
```

Create a Buffered GraphicsPanel

Derive a new class from [System.Windows.Forms.Panel](#). Add a default constructor that simply sets the [DoubleBuffered](#) property to true. If for some reason it doesn't paint correctly then also use its [SetStyle](#) method to set the [ControlStyles.ResizeRedraw](#) enumeration to true. Then go to Visual Studio's TOOLS/OPTIONS dialog box. Under the Windows Forms Designer options make sure that Automatically Populate Toolbox is set to true. After a clean build it should then appear in your toolbox.

Format Text Inside a Rectangle

Find the overload of the [DrawString](#) method that asks for a rectangle and a [StringFormat](#) class. Create an instance of the StringFormat class and set its appropriate properties before passing it to DrawString.

Make a Control Read Only

Set its [ReadOnly](#) property to true.

Enable and Disable Buttons

Set their [Enabled](#) property to true or false.

Does a Point Fall Inside a Rectangle?

The [Rectangle](#) structure has a [Contains](#) method. Use it.