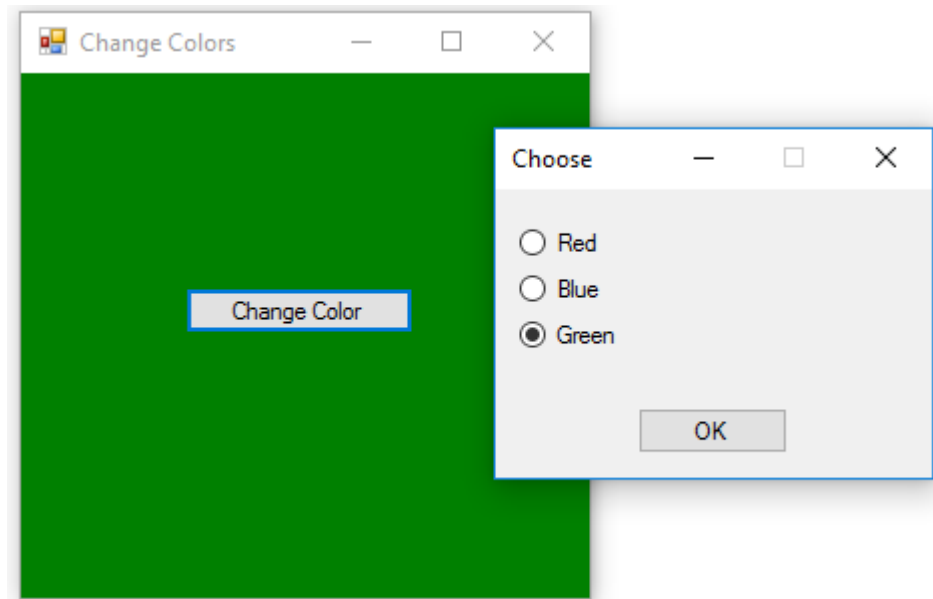


## Modeless Dialog Box

Comp 445

10 points

The goal of this assignment is to give you practice creating a modeless dialog box using customized events and delegates. You are to create a Windows Forms application that contains a single button on the main window. When the user clicks the button, a **modeless** dialog box should be displayed listing at least three color options (choose any colors you would like) with radio buttons. The first color should be selected by default. An OK button should be present at the bottom of the dialog box.



When a radio button is selected (triggering the `CheckedChanged` or `Click` event), the background color of the main window should change to the selected radio button's color immediately. When OK is pressed, the dialog box should disappear (using the `.Close()` method).

You must create your own event and delegate so the dialog box can communicate back to the main form which color was selected. The delegate should take a single `System.Drawing.Color` parameter, the color that was selected.

You should make the dialog box expose a single property: the color that is selected. The main form should set this property to its current background color. The property should use a setter that will check the proper radio button when the dialog box is displayed. So if green is the main form's background color, the dialog box should show Green as the selected radio button when the dialog is displayed.

Additionally, you should ensure that the Colors button does not launch multiple dialog boxes. If the dialog box is already displayed when the user clicks on the Colors button, bring the dialog box to the front.

**1 bonus point** for adding a fourth option entitled "Other" which launches the color common dialog box from the modeless dialog. The user can then select a custom color from the common dialog box, and the main form should change to the selected color.

Zip your entire project and submit the zip file to Easel before class on the due date.