

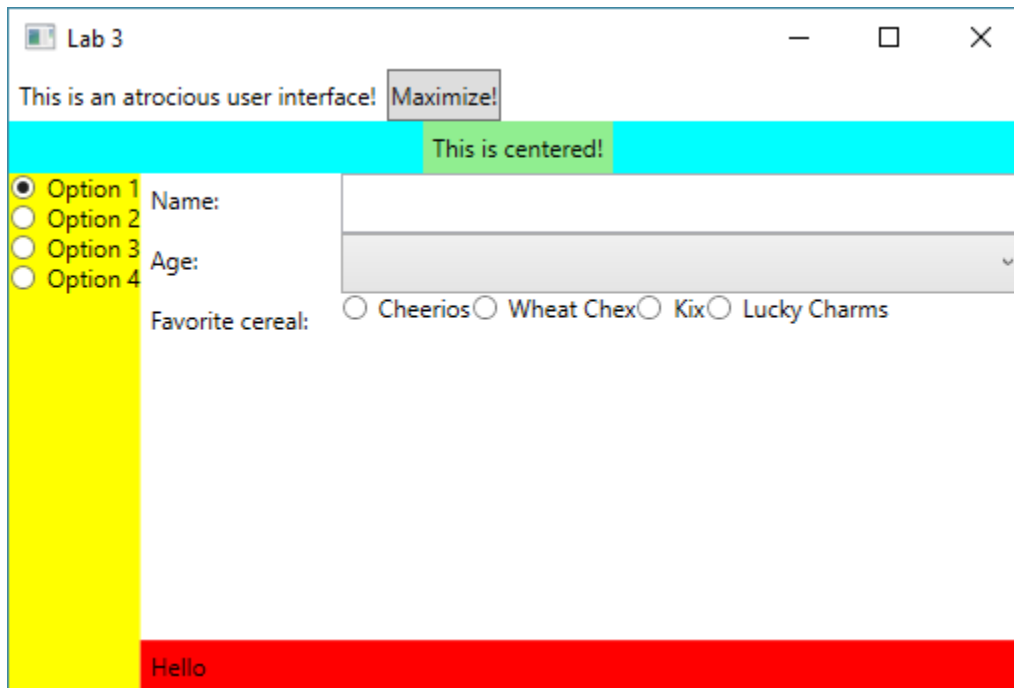
Lab 3:

I Can't Think Of a Clever Name

Due Tuesday, March 13 at the start of lecture.

Overview

In this lab, you will program a simple WPF layout with a single behavior, based on the following image:



Layout

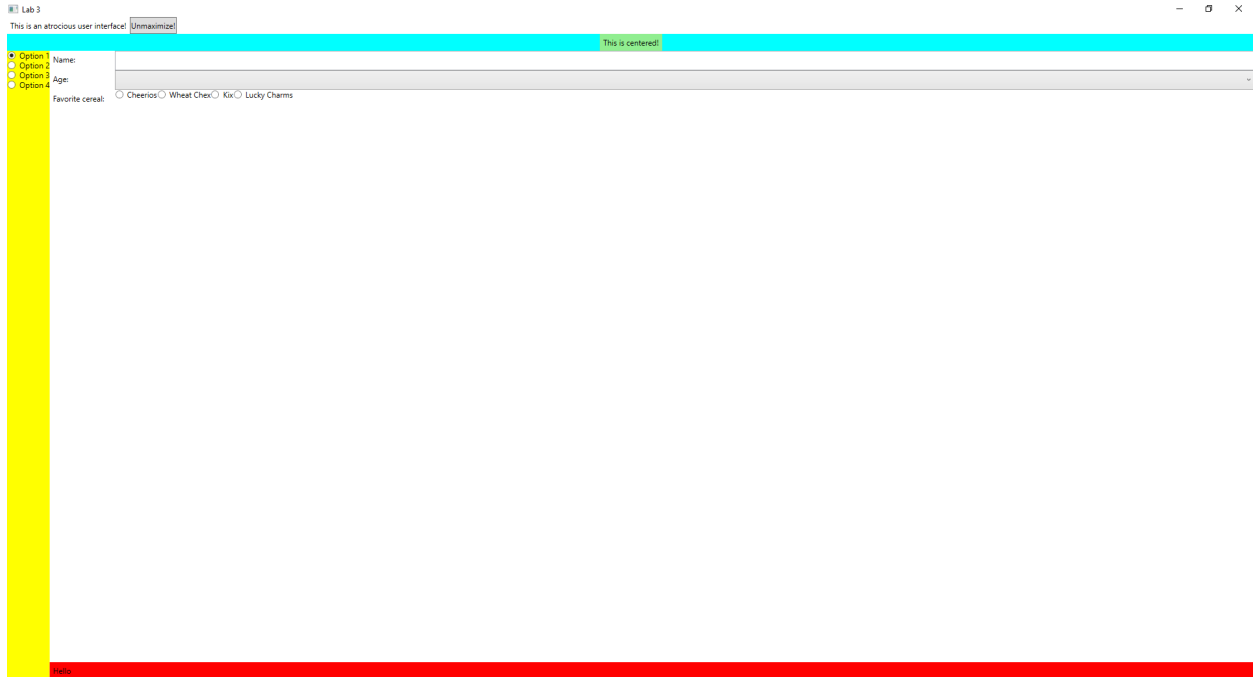
You will need to apply what you learned in lecture about the various WPF layout controls to recreate the interface above. You will need to use stack panels, wrap panels, grids, and dock panels to get a perfect recreation. Here are some details about the image above:

- Any text that is unattached to another control is a Label control.
- The control that reads “Maximize!” is a Button.
- The buttons on the left are RadioButtons, as are the cereal buttons.
- The control to the right of the Age is a ComboBox. It has four items: 18, 19, 20, 21. Your answer must also have these items.
- The control to the right of Name is a TextBox.
- You do not have to match colors exactly, only approximately.
- You do need to match the layout exactly.

Behaviors

Your layout must intelligently resize itself as the window resizes. The blue and red backgrounds must stretch to fill all available horizontal space after resizing, and so too must the TextBox and ComboBox.

When the user clicks the Maximize! button, you must change the window to be maximized, as if the user clicked the “square” icon to the left of the “X” in the upper right corner. You will need to research how to do this; it only takes a single line of code. After maximizing, change the text of the button to say “Unmaximize!”. If the button is clicked again when the window is maximized, set the window’s state back to un-maximized / “normal” and change the button’s text back to “Maximize!”. Here is an image of what the maximized window should look like:



Deliverables

Turn in the following when the lab is due:

1. A printed copy of your window’s XAML and codebehind (.xaml.cs) files.
2. A printed screenshot of your window in the default state.