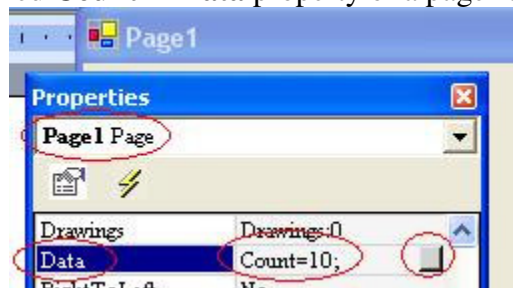


How to do Countdown

This sample describes one way of doing countdown. You may have other methods better fit your needs.

1. Create a variable to hold countdown count.

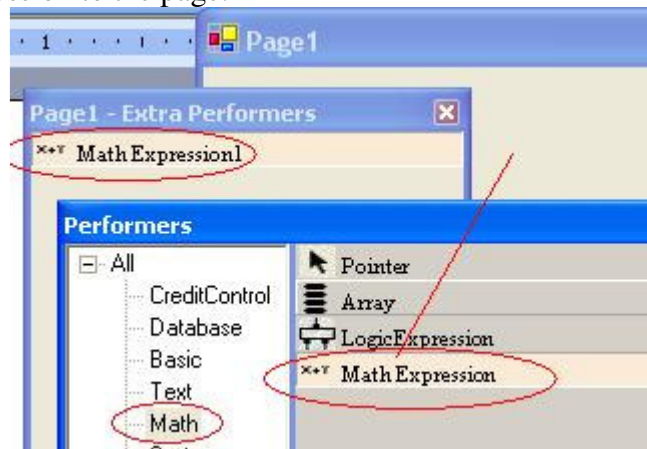
We create a variable named **Count** in **Data** property of a page for this purpose:



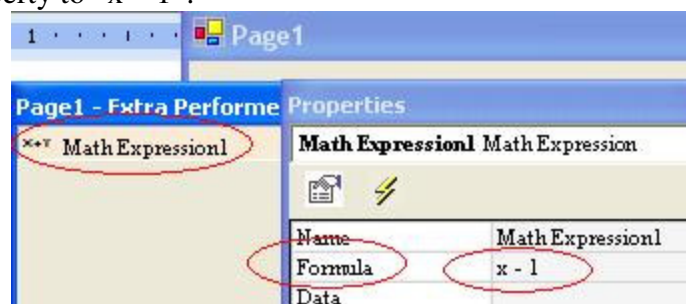
Use “New” button to create a variable; use “Rename” button to name the variable; use “Set data” button to give the variable initial value.

2. Use a Math Expression to do countdown.

Drop a Math Expression to the page:

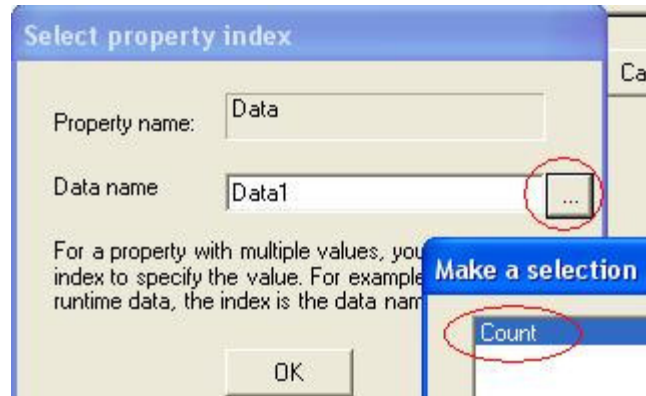


Set Formula property to “ $x - 1$ ”:

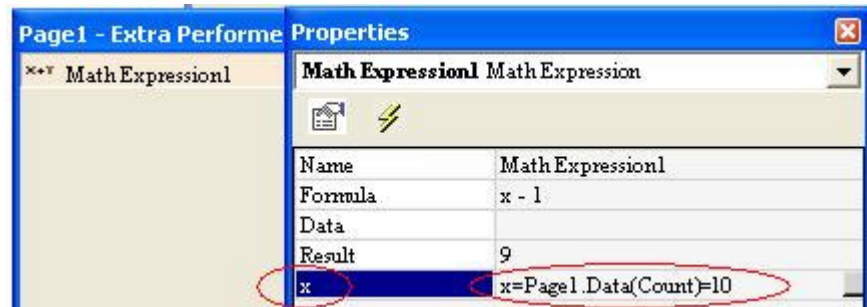


x becomes a property. Set it to the Data property of the page, and select Count:

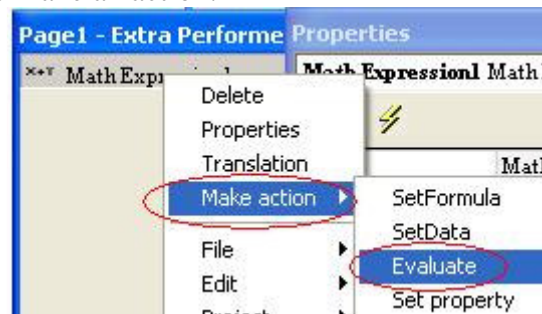
Count Down Sample



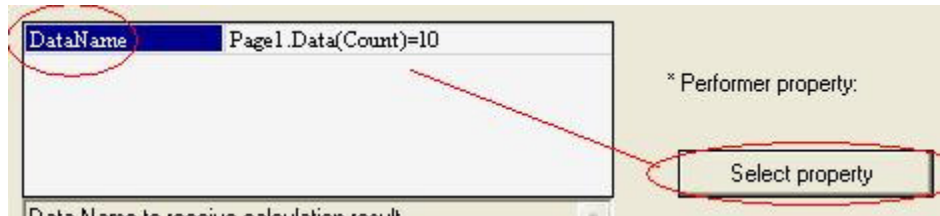
Now x is linked to variable Count:



Use Evaluate method to make an action:



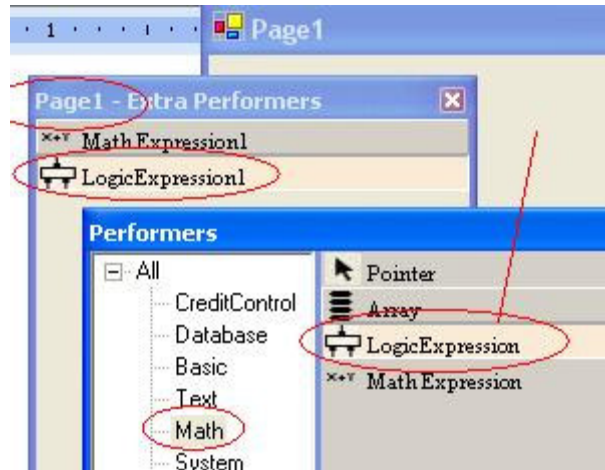
This method allows you to specify a property to receive the evaluation result. You do it by clicking "Select property" button. In our case, we want to put the countdown result back to the variable Count. So we select the Data property of the page, and then select Count.



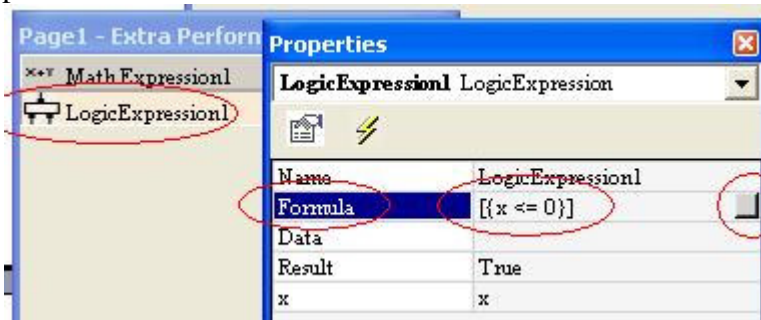
3. Use a Logic Expression to know the end of countdown

Drop a Logic Expression to the page:

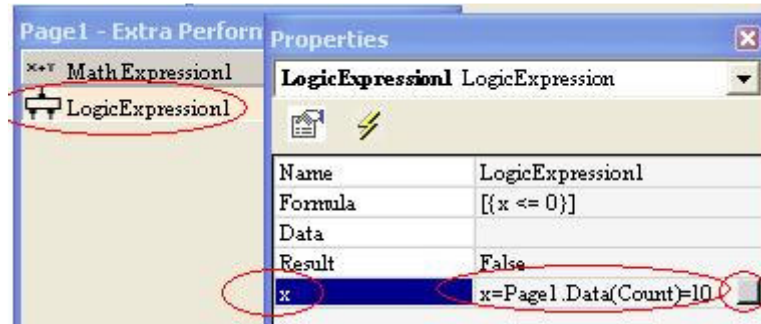
Count Down Sample



Suppose we want countdown to finish when the value of Count reaches 0. We may use $x \leq 0$ as our logic expression:



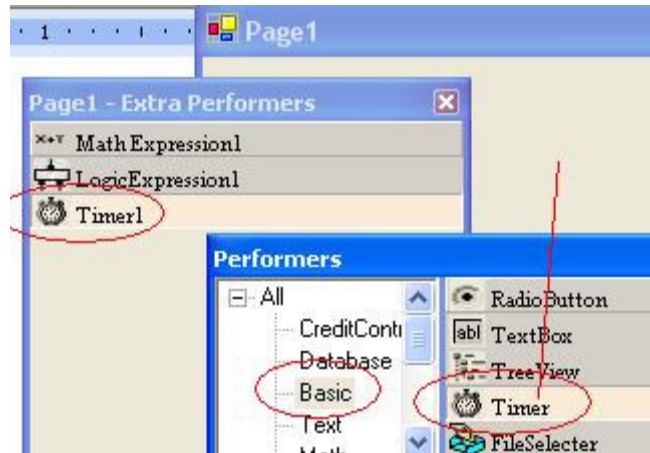
Set x property to variable Count:



4. Use a timer to execute countdown

Drop a Timer to the page:

Count Down Sample



By default a timer fires Timer event every second. We just use the default here.

We create two action lists:

CountdownFinish – This is the action list which will be executed when countdown finishes. This action list will be enabled when the Result property of the Logic expression is TRUE. This action list should contain one action to stop the timer and thus stop the countdown. This action list contains other actions you want to execute when countdown finishes. In this example, we just show a message box saying “Countdown finished”.

CountdownOnce – This is the action list which is executed at the Timer event of the timer. So do not forget to assign this action list to the Timer event of the timer. It should contain following actions:

- 1). the math action to do the countdown (created in section 2 above)
- 2). Actions you want to execute at the time of count changes. In this example, we show the value of Count in a label.
- 3). Execute action list CountdownFinish. Because CountdownFinish is enabled only when countdown finishes, if countdown has not finished, CountdownFinish will be ignored.

You may download this sample application from
<http://www.limnor.com/downloads/countdown.cab>