I quick wrote the Convergence class I mentioned in yesterday’s meeting as an example of a discreet, broadly applicable class. I wrote it as a .NetFramework Class. It requires .Net 4.5 or higher. The class diagram is below. All properties are ReadOnly. It was super quick to write but may be useful to many. It’s compiled as a DLL that can be referenced in other code projects. All you have to do is set up a Do Loop with the condition of Until Converged, write a test function that returns a TooHigh or TooLow hint, and you’re done (example at the bottom of this doc).

 

Class Diagram.



Private Sub btnOK\_Click(sender As Object, e As EventArgs) Handles btnOK.Click

Try

Dim C As New Converge(Double.MinValue, Double.MaxValue, CDbl(TextBox1.Text))

Do Until C.Converged

Select Case CDbl(tbxValue.Text) - C.CurrentValue

Case 0

C.NewValue(Converge.Hint.Exact)

Case < 0

C.NewValue(Converge.Hint.TooHigh)

Case > 0

C.NewValue(Converge.Hint.TooLow)

End Select

lblAttemps.Text = "Number of Attemps: " & C.IterationCount

Loop

tbxCurrentValue.Text = C.CurrentValue

Catch ex As Exception

End Try

End Sub