Manual De Desarrollador

RODRIGO VASQUEZ

ÍNDICE

1	Forn	nMenuPrincipal	3
	1.1	FormMenuPrincipal	3
	1.2	WindProc:	4
	1.3	OnSizeChanged:	4
	1.4	OnPaint:	4
	1.5	PanelBarraTitulo_MouseDonw:	5
	1.6	btnMaximizar:	5
	1.7	btnNormal_Click:	5
	1.8	btnMinimizar_Click:	6
	1.9	btnMenu_click:	7
	1.10	tmExpandirMenu_Tick:	7
	1.11	tmContraerMenu_Tick:	8
	1.12	aBrirToolStripMenuItem_Click:	8
	1.13	namesFiles:	9
	1.14	cerrarArchivo_Click:	9
	1.15	nuevoToolsStripMenuItem:	10
	1.16	save:	11
	1.17	gUardarToolStripMenuItem:	12
	1.18	label2_Click:	12
	1.19	buscarToolStipMenuItem:	13
	1.20	printDocument1:	13
	1.21	fastColoredTextBox:	14
	1.22	fastColoredTextbox:	16
	1.23	pegarToolStripMenuItem1:	18
	1.24	pppToolStripMenuItem:	19
	1.25	tmFechaHora:	21
2	Dom	1.CS	22
	2.1	DOM:	22
	2.2	arbol:	24
	2.3	proceso:	25
	2.4	proceso2:	28
	2.5	DOM_Activated_1:	30
3	Ayu	da.cs	31
	2 1	Avuda:	21

4	nave	egador.cs	33
	4.1	Navegador	33
	4.2	OnPaint	34
	4.3	btnnormal_Click	35

1 FORMMENUPRINCIPAL

1.1 FORMMENUPRINCIPAL

```
public FormMenuPrincipal()
{
    InitializeComponent();
    //Estas lineas eliminan los parpadeos del formulario o controles en la interfaz grafica (Pero no en un 100%)
    this.SetStyle(ControlStyles.ResizeRedraw, true);
    this.DoubleBuffered = true;
    label2.Visible = false;
}
```

1.2 WINDPROC:

```
protected override void WndProc(ref Message m)
{
    switch (m.Msg)
    {
        case WM_NCHITTEST:
            base.WndProc(ref m);
        var hitPoint = this.PointToClient(new Point(m.LParam.ToInt32() & 0xffff, m.LParam.ToInt32() >> 16));
        if (sizeGripRectangle.Contains(hitPoint))
            m.Result = new IntPtr(HTBOTTOMRIGHT);
        break;
    default:
        base.WndProc(ref m);
        break;
}
```

1.3 ONSIZECHANGED:

```
protected override void OnSizeChanged(EventArgs e)
{
   base.OnSizeChanged(e);
   var region = new Region(new Rectangle(0, 0, this.ClientRectangle.Width, this.ClientRectangle.Height));

   sizeGripRectangle = new Rectangle(this.ClientRectangle.Width - tolerance, this.ClientRectangle.Height - tolerance, tolerance);

   region.Exclude(sizeGripRectangle);
   this.panelContenedorPrincipal.Region = region;
   this.Invalidate();
}
```

1.4 ONPAINT:

```
protected override void OnPaint(PaintEventArgs e)
{
    SolidBrush blueBrush = new SolidBrush(Color.FromArgb(55, 61, 69));
    e.Graphics.FillRectangle(blueBrush, sizeGripRectangle);
    base.OnPaint(e);
    ControlPaint.DrawSizeGrip(e.Graphics, Color.Transparent, sizeGripRectangle);
}
```

1.5 PANELBARRATITULO_MOUSEDONW:

```
private void PanelBarraTitulo_MouseDown(object sender, MouseEventArgs e)
{
    ReleaseCapture();
    SendMessage(this.Handle, 0x112, 0xf012, 0);
}
```

1.6 BTNMAXIMIZAR:

```
private void btnMaximizar_Click(object sender, EventArgs e)
{
    lx = this.Location.X;
    ly = this.Location.Y;
    sw = this.Size.Width;
    sh = this.Size.Height;
    this.Size = Screen.PrimaryScreen.WorkingArea.Size;
    this.Location = Screen.PrimaryScreen.WorkingArea.Location;
    btnMaximizar.Visible = false;
    btnNormal.Visible = true;
}
```

1.7 BTNNORMAL_CLICK:

```
private void btnNormal_Click(object sender, EventArgs e)
{
    this.Size = new Size(sw, sh);
    this.Location = new Point(lx, ly);
    btnNormal.Visible = false;
    btnMaximizar.Visible = true;
}
```

1.8 BTNMINIMIZAR_CLICK:

1.9 BTNMENU_CLICK:

```
private void btnMenu_Click(object sender, EventArgs e)
{
    //------CON EFECTO SLIDING
    if (panelMenu.Width == 230)
    {
        this.tmContraerMenu.Start();
    }
    else if (panelMenu.Width == 55)
    {
        this.tmExpandirMenu.Start();
    }

    //-----SIN EFECTO
    //if (panelMenu.Width == 55)
    //{
        // panelMenu.Width = 230;
    //}
    //else

    // panelMenu.Width = 55;
}
```

1.10 TMEXPANDIRMENU_TICK:

```
private void tmExpandirMenu_Tick(object sender, EventArgs e)
{
   if (panelMenu.Width >= 230)
       this.tmExpandirMenu.Stop();
   else
      panelMenu.Width = panelMenu.Width + 5;
}
```

1.11 TMCONTRAERMENU_TICK:

```
private void tmContraerMenu_Tick(object sender, EventArgs e)
{
   if (panelMenu.Width <= 55)
       this.tmContraerMenu.Stop();
   else
      panelMenu.Width = panelMenu.Width - 5;
}</pre>
```

1.12 ABRIRTOOLSTRIPMENUITEM_CLICK:

```
private void aBRIRToolStripMenuItem_Click(object sender, EventArgs e)
{
    OpenFileDialog Openfile = new OpenFileDialog();
    Openfile.Filter = "Texto|*.HTML";
    if (Openfile.ShowDialog() == DialogResult.OK)
    {
        archivo = Openfile.FileName;
        using (StreamReader sr = new StreamReader(archivo))
        {
            fastColoredTextBox1.Text = sr.ReadToEnd();
        }
        NamesFiles(Openfile.FileName);
}
```

1.13 NAMESFILES:

```
private void NamesFiles(string Nombre)
{
    char[] delimiterChars = { '.', '\\' };
    string[] nombre = Nombre.Split(delimiterChars);
    int cantidad = 0;
    cantidad = nombre.Length;
    Titulo.Text = nombre[cantidad - 2];
    label2.Visible = true;
}
```

1.14 CERRARARCHIVO_CLICK:

```
private void cerrarArchivo_Click(object sender, EventArgs e)
{
    fastColoredTextBox1.Clear();
    Titulo.Text = "Sin Titulo";
    label2.Visible = false;
    archivo = null;
}
```

1.15 NUEVOTOOLSSTRIPMENUITEM:

```
private void nUEVOToolStripMenuItem_Click(object sender, EventArgs e)
   if (Titulo.Text.Contains("*"))
       DialogResult dialogo = MessageBox.Show("¿Desea Guardar los Cambios?", "Guardar Cambios",
         MessageBoxButtons.YesNo, MessageBoxIcon.Question);
       if (dialogo == DialogResult.No)
           label2.Visible = false;
           fastColoredTextBox1.Clear();
           Titulo.Text = "Sin Titulo*";
           archivo = null;
           save();
           label2.Visible = false;
           Titulo.Text = "Sin Titulo*";
           fastColoredTextBox1.Clear();
           archivo = null;
       label2.Visible = false;
       Titulo.Text = "Sin Titulo*";
       fastColoredTextBox1.Clear();
       archivo = null;
```

```
private void save()//GUARDAR
   SaveFileDialog SaveFile = new SaveFileDialog();
   SaveFile.Filter = "Texto|*.HTML";
    if (archivo != null)
       using (StreamWriter sw = new StreamWriter(archivo))
           sw.Write(fastColoredTextBox1.Text);
       Titulo.Text= Titulo.Text.Remove(Titulo.Text.Length - 1,1 );
    }
       if (SaveFile.ShowDialog() == DialogResult.OK)
           archivo = SaveFile.FileName;
           using (StreamWriter sw = new StreamWriter(SaveFile.FileName))
                sw.Write(fastColoredTextBox1.Text);
       NamesFiles(archivo);
```

1.17 GUARDARTOOLSTRIPMENUITEM:

```
private void gUARDARToolStripMenuItem_Click(object sender, EventArgs e)
{
    save();
}

private void fastColoredTextBox1_TextChanged(object sender, FastColoredTextBoxNS.TextChangedEventArgs e)
{
    if (!Titulo.Text.Contains("*"))
    {
        Titulo.Text += "*";
    }
}
```

1.18 LABEL2_CLICK:

```
private void label2_Click_1(object sender, EventArgs e)
{
    fastColoredTextBox1.Clear();
    Titulo.Text = "Sin Titulo*";
    label2.Visible = false;
    archivo = null;
    if (h != null)
    {
        h.Close();
      }
    if (dom!=null)
    {
        dom.Close();
    }
}
```

1.19 BUSCARTOOLSTIPMENUITEM:

```
private void bUSCARToolStripMenuItem_Click(object sender, EventArgs e)
{
    fastColoredTextBox1.ShowFindDialog();
}

private void iMPRIMIRToolStripMenuItem_Click(object sender, EventArgs e)
{
    if (printPreviewDialog1.ShowDialog() == DialogResult.OK)
    {
        printDocument1.Print();
    }
}
```

1.20 PRINTDOCUMENT1:

```
private void printDocument1_PrintPage(object sender, System.Drawing.Printing.PrintPageEventArgs e)
{
    e.Graphics.DrawString(fastColoredTextBox1.Text, new Font("Arial", 14, FontStyle.Bold), Brushes.Black, new PointF(100, 100));
}
```

1.21 FASTCOLOREDTEXTBOX:

```
private void fastColoredTextBox1_KeyDown(object sender, KeyEventArgs e)
   int cont_abre_etiqueta = 0;
   int cont_cierra_etiqueta = 0;
   string texto = fastColoredTextBox1.Text;
   char[] array = texto.ToCharArray();//separa en letras
   string error = "Cierre todas las etiquetas";
   string[] stringSeparators = new string[] { " ", "<", ">" };
   string[] array2 = texto.Split(stringSeparators, StringSplitOptions.None);//separa las palabras
   string busc = "";
   if (e.KeyCode == Keys.Up)
       foreach (var p in array2)
          busc = p;
          for (int i = 0; i < Reservadas.Length; i++)//para comparar cuando se abre la etiqueta
              if (busc == Reservadas[i].ToString())
                  cont_abre_etiqueta++;
                  int a = fastColoredTextBox1.Text.IndexOf(busc);
          if (busc == Cierre_Reservadas[j].ToString())
                  cont_cierra_etiqueta++;
          busc = "";
       if (cont_abre_etiqueta > 0 && cont_cierra_etiqueta > 0)
          if (cont_abre_etiqueta == cont_cierra_etiqueta)
              variableCom = fastColoredTextBox1.Text;
              if (dom != null)
                  if (Application.OpenForms["DOM"] == null)
                     if (!dom.IsDisposed)
                         dom.Refresh();
                         dom.Activate();
                         dom.Show();
                         this.Focus();
```

```
this.Focus();
                        dom = new DOM();
                        dom.Refresh();
                        dom.Activate();
                        dom.Show();
                        this.Focus();
                else
                {
                    dom.Refresh();
                    dom.Activate();
                    dom.Show();
                    this.Focus();
            else
                dom = new DOM();
                dom.Refresh();
                dom.Activate();
                dom.Show();
                this.Focus();
        else
        {
            MessageBox.Show(error);
        }
}
```

1.22 FASTCOLORED TEXTBOX:

```
private void fastColoredTextBox1_KeyUp(object sender, KeyEventArgs e)
   int cont_abre_etiqueta = 0;
   int cont_cierra_etiqueta = 0;
   string texto = fastColoredTextBox1.Text;
   char[] array = texto.ToCharArray();//separa en letras
   string error = "Cierre todas las etiquetas";
   string[] stringSeparators = new string[] { " ", "<", ">" };
   string[] array2 = texto.Split(stringSeparators, StringSplitOptions.None);//separa las palabras
   string busc = "";
   if (e.KeyCode == Keys.Delete)
       foreach (var p in array2)
          busc = p;
           for (int i = 0; i < Reservadas.Length; i++)//para comparar cuando se abre la etiqueta
              if (busc == Reservadas[i].ToString())
                   cont_abre_etiqueta++;
                   int a = fastColoredTextBox1.Text.IndexOf(busc);
           for (int j = 0; j < Cierre_Reservadas.Length; j++)//para comparar cuando se cierra la etiqueta
               if (busc == Cierre_Reservadas[j].ToString())
                   cont_cierra_etiqueta++;
          busc = "";
       if (cont_abre_etiqueta > 0 && cont_cierra_etiqueta > 0)
           if (cont_abre_etiqueta == cont_cierra_etiqueta)
               variableCom = fastColoredTextBox1.Text;
              if (dom != null)
                   if (Application.OpenForms["DOM"] == null)
                       if (!dom.IsDisposed)
                           dom.Refresh();
                           dom.Activate();
                           dom.Show();
                           this.Focus();
```

```
dom = new DOM();
                            dom.Refresh();
                            dom.Activate();
                            dom.Show();
                            this.Focus();
                        dom.Refresh();
                        dom.Activate();
                        dom.Show();
                        this.Focus();
                    dom = new DOM();
                    dom.Refresh();
                    dom.Activate();
                    dom.Show();
                    this.Focus();
                MessageBox.Show(error);
int s1 = 0, s2 = 0, s3 = 0;
private void adelanteToolStripMenuItem_Click(object sender, EventArgs e)
    fastColoredTextBox1.Redo();
private void copiarToolStripMenuItem_Click(object sender, EventArgs e)
    fastColoredTextBox1.Copy();
private void cortarToolStripMenuItem_Click(object sender, EventArgs e)
    fastColoredTextBox1.Cut();
private void pEGARToolStripMenuItem1_Click(object sender, EventArgs e)
    fastColoredTextBox1.Paste();
```

1.23 PEGARTOOLSTRIPMENUITEM1:

```
private void pEGARToolStripMenuItem1_Click(object sender, EventArgs e)
{
   fastColoredTextBox1.Paste();
}
private void selecionartodotoolstripMenuItem_click(object sender, EventArgs e)
    fastColoredTextBox1.SelectAll();
}
private void eLIMINARTODOToolStripMenuItem_Click(object sender, EventArgs e)
{
    fastColoredTextBox1.Clear();
}
private void rEEMPLAZARToolStripMenuItem_Click(object sender, EventArgs e)
    fastColoredTextBox1.ShowReplaceDialog();
}
private void fUENTEToolStripMenuItem_Click(object sender, EventArgs e)
   var formato = fontDialog1.ShowDialog();
   if (formato == DialogResult.OK)
        fastColoredTextBox1.Font = fontDialog1.Font;
private void iRAToolStripMenuItem1_Click(object sender, EventArgs e)
{
    fastColoredTextBox1.ShowGoToDialog();
```

1.24 PPPTOOLSTRIPMENUITEM:

```
public Navegador h;
private void pppToolStripMenuItem_Click(object sender, EventArgs e)
   if (h == null)
       string content = "";
       content = fastColoredTextBox1.Text;
       if (content.Equals(""))
           MessageBox.Show("No hay nada que mostrar escriba codiog para mostrar la web");
       else
           h = new Navegador(content);
           this.Invoke(new Action(() => { h.Refresh(); }));
           h.Titulo.Text = Titulo.Text;
           h.Show();
   else
       if (fastColoredTextBox1.Language == FastColoredTextBoxNS.Language.HTML)
           if (Application.OpenForms["Navegador"] == null && !fastColoredTextBox1.Text.Equals(""))
                if (!h.IsDisposed)
                   h.Actualizar(fastColoredTextBox1.Text);
                   this.Invoke(new Action(() => { h.Refresh(); }));
                   h.Titulo.Text = Titulo.Text;
                   h.Show();
                   h.FormClosed += Logout;
                   h = new Navegador(fastColoredTextBox1.Text);
                   h.Titulo.Text = Titulo.Text;
                   h.Show();
                   this.Invoke(new Action(() => { h.Refresh(); }));
                   h.FormClosed += Logout;
               h.Actualizar(fastColoredTextBox1.Text);
               this.Invoke(new Action(() => { h.Refresh(); }));
               h.Titulo.Text = Titulo.Text;
               h.FormClosed += Logout;
```

```
}
       else
           MessageBox.Show("NO SE PUEDE EJECUTAR");
private void Logout(object sender, FormClosedEventArgs e)
    this.Focus();
private void aYUDAToolStripMenuItem1_Click(object sender, EventArgs e)
   if (Application.OpenForms["Ayuda"] == null)
       Ayuda MenuDeAyuda = new Ayuda();
       MenuDeAyuda.Show();
private void AtrasoolStripMenuItem_Click(object sender, EventArgs e)
    fastColoredTextBox1.Undo();
bool div = false;
private void fastColoredTextBox1_KeyPress(object sender, KeyPressEventArgs e)
    if (e.KeyChar.ToString() == Convert.ToString("/"))
       div = true;
   if (e.KeyChar.ToString() == Convert.ToString(">") && div == true)
       div = false;
```

1.25 TMFECHAHORA:

```
//METODO PARA HORA Y FECHA ACTUAL

private void tmFechaHora_Tick(object sender, EventArgs e)
{
    lbFecha.Text = DateTime.Now.ToLongDateString();
    lblHora.Text = DateTime.Now.ToString("HH:mm:ssss");
}
```

2.1 DOM:

```
public partial class DOM : Form
   string pal;
   string[] trozos1;
   public DOM()
       InitializeComponent();
   public void Graficar(int[] columna)
       Graphics nodo;
       nodo = CreateGraphics();
       int tam = 580;
       int fila = columna.Length;
        int sum = columna.Sum();
       int k = 0;
       Font drawFont = new Font("Arial", 13);
       int y = 30;
        int x = 50;
        int z = 0;
        int[] a = new int[50];//
       int[] b = new int[50];//
       Pen linea = new Pen(Color.Gold, 2);
       for (int i = 0; i < fila; i++)</pre>
            x = (tam / (columna[i] + 1));
           Z = X;
            for (int j = 0; j < columna[i]; j++)</pre>
                nodo.FillRectangle(Brushes.White, x, y, 78, 35);
                nodo. DrawString(trozos1[k], \ drawFont, \ Brushes. Black, \ x \ + \ 13, \ y \ + \ 5); // \texttt{PINTA EL TEXTO}
                a[k] = x; //CUENTA PUNTOS PARA LINEAS
                b[k] = y;//CUENTA PUNTOS PARA LINEAS
                x += z;
                k++;//AYUDA A PINTAR EL TEXTO
           y += 60;
```

```
int xi = 300;
int yi = 60;
int xf = xi;
int yf = yi + 30;
Z = 0;
int w = 0;
for (int i = 1; i < fila; i++)//-----
   if (i != fila - 2)
       xi = ((tam + 60) / (columna[i] + 1));
       z = xi;
       xf = xi;
       for (int j = 0; j < columna[i]; j++)</pre>
           nodo.DrawLine(linea, xi, yi, xf, yf);
           xi += Z;
           xf = xi;
       xf = ((tam + 60) / (columna[i] + 1));
       z = xf;
       xi = ((tam + 60) / (columna[i - 1] + 1));
       for (int j = 0; j < columna[i]; j++)</pre>
           nodo.DrawLine(linea, xi, yi + 5, xf, yf);
           xf += Z;
   yi = (yf + 30);
   yf = (yi + 30);
```

```
static string arbol(string pal)
{
   string ncadena = "";
   int parentesis1 = 0, parentesis2 = 0, inicio = 0, tamaño = 0, copia = 0;
   string nodo = "", cnodo = "", hijo = "";
   parentesis1 = pal.IndexOf("/");
   parentesis2 = pal.IndexOf(">", parentesis1);//****
   int resta = parentesis2 - parentesis1;
   nodo = pal.Substring(parentesis1 + 1, resta - 1);
   cnodo = nodo;
   nodo = "<" + nodo + ">";
   inicio = pal.IndexOf(nodo);
   tamaño = (nodo).Length;//LONGITUD DEL NOD
   copia = inicio + tamaño;
   resta = (parentesis1 - 1) - copia;
   hijo = pal.Substring(copia, resta);//DONE ESTA EL HIJO
   ncadena = pal.Substring(0, inicio) + cnodo + "(" + hijo + ")";
   resta = ln - (parentesis2 + 1);
   ncadena += pal.Substring(parentesis2 + 1, resta);
   return ncadena;
```

```
public int[] proceso(string array)
    int tamaño = (array).Length;
   int fila = 0, j = 0, aux = 0, aux1 = 0, profi = 0;
    int i = 0, p = 0;
    char[] arbol = array.ToCharArray();
   int[] c = new int[20];
    char[] imprimiraux = new char[500];
   int[] imporden = new int[500];
    foreach (char ch in arbol)
       if (ch == '(')
           aux1 = fila;
           fila++;
           if (aux1 < fila)
               c[i] = fila;
               i++;
           aux1 = fila;
       if (ch == ')')
           fila -= 1;
           aux1 = fila;
           imprimiraux[p] = '+';///
           imporden[p] = aux1;///
           p++;///
       if (ch != '(' && ch != ')' && ch != ',' && ch != '.' && ch != ' ')
           j++;
           imprimiraux[p] = ch;
           imporden[p] = aux1;
           p++;
```

```
int max = 0;
for (int k = 0; k < c.Length; k++)
   if (c[k] > max)
       max = c[k];
profi = max + 1;
//Console.WriteLine("PROFUNDIDAD: " + profi);
string[] primera = new string[50];
string juntar = "";
for (int x = 0; x < profi; x++)
    int variables = (imporden).Length;
   //Console.Write( x.ToString()+"|");
    for (int y = 0; y < variables; y++)</pre>
       if (imporden[y] == x)
       {
            //Console.Write(imprimiraux[y].ToString());
            juntar += imprimiraux[y].ToString();
   primera[x] = juntar;
   juntar = "";
   //Console.WriteLine();
primera[profi - 1] = proceso2(array);
for (int t = 0; t < profi; t++)</pre>
   Console.WriteLine(primera[t]);
```

```
int count = 0;
int[] dev = new int[profi];
for (int t = 0; t < profi; t++)</pre>
{
   count = primera[t].Split('+').Length - 1;
   dev[t] = count;
   //Console.WriteLine(count);
}
string signo = primera[profi - 1];
signo = signo.Substring(1);
primera[profi - 1] = signo;
string codigo = "";
for (int t = 0; t < profi; t++)</pre>
{
   codigo += primera[t];////
}
//Console.WriteLine(codigo.Trim());
char[] delimitador = { '+', ' ' };
trozos1 = codigo.Split(delimitador);
//trozos1 = trozos;
return dev;
```

```
int tamaño = (array).Length;
   int fila = 0, j = 0, aux = 0, aux1 = 0, profi = 0;
   int i = 0, p = 0;
   char[] arbol = array.ToCharArray();
   int[] c = new int[20];
   char[] imprimiraux = new char[500];
   int[] imporden = new int[500];
   foreach (char ch in arbol)
      if (ch == '(')
         aux1 = fila;
         fila++;
         if (aux1 < fila)
             c[i] = fila;
             i++;
         aux1 = fila;
         imprimiraux[p] = '+';///
         imporden[p] = aux1;///
         p++;///
      if (ch == ')')
         fila -= 1;
         aux1 = fila;
      if (ch != '(' && ch != ')' && ch != ',' && ch != '.' && ch != ' ')
         imprimiraux[p] = ch;
         imporden[p] = aux1;
         p++;
```

```
int max = 0;
    for (int k = 0; k < c.Length; k++)
        if (c[k] > max)
            max = c[k];
    profi = max + 1;
    // Console.WriteLine("PROFUNDIDAD: " + profi);
    string[] primera = new string[50];
    string juntar = "";
    for (int x = 0; x < profi; x++)
        int variables = (imporden).Length;
        //Console.Write( x.ToString()+"|");
        for (int y = 0; y < variables; y++)</pre>
            if (imporden[y] == x)
                //Console.Write(imprimiraux[y].ToString());
                juntar += imprimiraux[y].ToString();
        primera[x] = juntar;
        juntar = "";
        //Console.WriteLine();
    for (int t = 0; t < profi; t++)</pre>
        //Console.WriteLine(primera[t]);
    // Console.WriteLine(primera[profi - 1]);
    // int count = primera[profi - 1].Split('+').Length - 1;
    // Console.WriteLine(count);
    return primera[profi - 1];
}//TERMINA LA FUNCION
```

```
private void DOM_Activated_1(object sender, EventArgs e)
    pal = FormMenuPrincipal.variableCom;
    if (pal.Length > 5)
        pal = pal.Replace("\n", "");
        pal = pal.Replace(" ", "");
        string regresa = "";
        bool i = true;
        while (i == true)
           regresa = arbol(pal);
           pal = regresa;
            i = pal.Contains("/");
        int[] resivir = (proceso(pal));
        Graficar(resivir);
private void DOM_Shown(object sender, EventArgs e)
    pal = FormMenuPrincipal.variableCom;
    pal = pal.Replace("\n", "");
    pal = pal.Replace(" ", "");
    string regresa = "";
    bool i = true;
    while (i == true)
       regresa = arbol(pal);
       pal = regresa;
        i = pal.Contains("/");
    int[] resivir = (proceso(pal));
    Graficar(resivir);
```

3.1 AYUDA:

```
InitializeComponent();
   //Estas lineas eliminan los parpadeos del formulario o controles en la interfaz grafica (Pero no en un 100%)
   this.SetStyle(ControlStyles.ResizeRedraw, true);
    this.DoubleBuffered = true;
//METODO PARA REDIMENCIONAR/CAMBIAR TAMAÑO A FORMULARIO TIEMPO DE EJECUCION -----
private int tolerance = 15;
private const int WM_NCHITTEST = 135;
private const int HTBOTTOMRIGHT = 17;
private Rectangle sizeGripRectangle;
protected override void WndProc(ref Message m)
    switch (m.Msg)
       case WM_NCHITTEST:
           base.WndProc(ref m);
           var hitPoint = this.PointToClient(new Point(m.LParam.ToInt32() & 0xffff, m.LParam.ToInt32() >> 16));
           if (sizeGripRectangle.Contains(hitPoint))
               m.Result = new IntPtr(HTBOTTOMRIGHT);
           base.WndProc(ref m);
           break;
//METODO PARA ARRASTRAR EL FORMULARIO-----
[DllImport("user32.DLL", EntryPoint = "ReleaseCapture")]
private extern static void ReleaseCapture();
[DllImport("user32.DLL", EntryPoint = "SendMessage")]
private extern static void SendMessage(System.IntPtr hWnd, int wMsg, int wParam, int lParam);
private void PanelBarraTitulo_MouseDown(object sender, MouseEventArgs e)
   ReleaseCapture();
   SendMessage(this.Handle, 0x112, 0xf012, 0);
```

```
int sw, sh;
private void btnMaximizar_Click(object sender, EventArgs e)
   lx = this.Location.X;
   ly = this.Location.Y;
   sw = this.Size.Width;
   sh = this.Size.Height;
   this.Size = Screen.PrimaryScreen.WorkingArea.Size;
   axAcroPDF1.Size = Screen.PrimaryScreen.WorkingArea.Size;
    this.Location = Screen.PrimaryScreen.WorkingArea.Location;
   btnMaximizar.Visible = false;
   btnNormal.Visible = true;
private void btnNormal_Click(object sender, EventArgs e)
   this.Size = new Size(sw, sh);
   axAcroPDF1.Size = new Size(sw, sh);
   this.Location = new Point(lx, ly);
   btnNormal.Visible = false;
   btnMaximizar.Visible = true;
private void button1_Click(object sender, EventArgs e)
   axAcroPDF1.src = Path.GetDirectoryName(Path.GetDirectoryName(System.IO.Directory.GetCurrentDirectory()))) + @"\Resources\Manual De Usuario.pdf";
private void button2_Click(object sender, EventArgs e)
   axAcroPDF1.src = Path.GetDirectoryName(Path.GetDirectoryName(System.IO.Directory.GetCurrentDirectory())) + @"\Resources\Manual De Desarrollador.pdf";
private void button3_Click(object sender, EventArgs e)
    //axAcroPDF1.src = Path.GetDirectoryName(Path.GetDirectoryName(System.IO.Directory.GetCurrentDirectory()))) + @"\Resources\Creditos.pdf";
   MessageBox.Show("RV\nEG\nJV");
private void btnMinimizar_Click(object sender, EventArgs e)
   this.WindowState = FormWindowState.Minimized;
private void btnCerrar_Click(object sender, EventArgs e)
   this.Close();
```

4.1 NAVEGADOR

```
oublic Navegador(string file)
   InitializeComponent();
   //Estas lineas eliminan los parpadeos del formulario o controles en la interfaz grafica (Pero no en un 100%)
   this.SetStyle(ControlStyles.ResizeRedraw, true);
   this.DoubleBuffered = true;
   webBrowser1.DocumentText = file;
   Titulo.Text = "Sin titulo";
//METODO PARA REDIMENCIONAR/CAMBIAR TAMAÑO A FORMULARIO TIEMPO DE EJECUCION ------
private int tolerance = 15;
private const int WM_NCHITTEST = 135;
private const int HTBOTTOMRIGHT = 17;
private Rectangle sizeGripRectangle;
protected override void WndProc(ref Message m)
    switch (m.Msg)
       case WM_NCHITTEST:
           base.WndProc(ref m);
           var hitPoint = this.PointToClient(new Point(m.LParam.ToInt32() & 0xffff, m.LParam.ToInt32() >> 16));
          if (sizeGripRectangle.Contains(hitPoint))
             m.Result = new IntPtr(HTBOTTOMRIGHT);
       default:
           base.WndProc(ref m);
           break;
//-----DIBUJAR RECTANGULO / EXCLUIR ESQUINA PANEL
protected override void OnSizeChanged(EventArgs e)
   base.OnSizeChanged(e);
   var region = new Region(new Rectangle(0, 0, this.clientRectangle.Width, this.clientRectangle.Height));
   sizeGripRectangle = new Rectangle(this.ClientRectangle.Width - tolerance, this.ClientRectangle.Height - tolerance, tolerance);
   region.Exclude(sizeGripRectangle);
    this.panelContenedorPrincipal.Region = region;
    this.Invalidate();
```

```
protected override void OnPaint(PaintEventArgs e)
   SolidBrush blueBrush = new SolidBrush(Color.FromArgb(55, 61, 69));
   e.Graphics.FillRectangle(blueBrush, sizeGripRectangle);
   base.OnPaint(e);
   ControlPaint.DrawSizeGrip(e.Graphics, Color.Transparent, sizeGripRectangle);
//METODO PARA ARRASTRAR EL FORMULARIO-----
[DllImport("user32.DLL", EntryPoint = "ReleaseCapture")]
private extern static void ReleaseCapture();
[DllImport("user32.DLL", EntryPoint = "SendMessage")]
private extern static void SendMessage(System.IntPtr hWnd, int wMsg, int wParam, int lParam);
private void PanelBarraTitulo_MouseDown(object sender, MouseEventArgs e)
   ReleaseCapture();
   SendMessage(this.Handle, 0x112, 0xf012, 0);
//METODOS PARA CERRAR, MAXIMIZAR, MINIMIZAR FORMULARIO-----
int lx, ly;
int sw, sh;
private void btnMaximizar_Click(object sender, EventArgs e)
   lx = this.Location.X;
   ly = this.Location.Y;
   sw = this.Size.Width;
   sh = this.Size.Height;
   this.Size = Screen.PrimaryScreen.WorkingArea.Size;
   this.Location = Screen.PrimaryScreen.WorkingArea.Location;
   btnMaximizar.Visible = false;
   btnNormal.Visible = true;
```

4.3 BTNNORMAL_CLICK

.

```
private void btnNormal_Click(object sender, EventArgs e)
{
    this.Size = new Size(sw, sh);
    this.Location = new Point(lx, ly);
    btnNormal.Visible = false;
    btnMaximizar.Visible = true;
}

private void btnMinimizar_Click(object sender, EventArgs e)
{
    this.WindowState = FormWindowState.Minimized;
}

private void btnCerrar_Click(object sender, EventArgs e)
{
    this.Close();
}

public void Actualizar(string file)
{
    webBrowser1.DocumentText = file;
}
```