

Known Colors



```
/*
Professional Windows GUI Programming Using C#
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```

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*/

```
using System;
using System.Drawing;
using System.Collections;
using System.ComponentModel;
using System.Windows.Forms;
using System.Data;
```

```
namespace KnownColors
```

```
{
```

```
///
```

```
/// Summary description for KnownColors.
```

```
///
```

```
public class KnownColors : System.Windows.Forms.Form
```

```
{
```

```
private System.Windows.Forms.ComboBox comboBox1;
```

```
///
```

```
/// Required designer variable.
```

```
///
```

```
private System.ComponentModel.Container components = null;
```

```
ArrayList cAL;
```

```
ArrayList cNAL;
```

```
public KnownColors()
```

```
{
```

```
//  
// Required for Windows Form Designer support  
//  
InitializeComponent();  
  
this.Text = "Known non-system colors";  
  
cAL = new ArrayList(); // colors  
cNAL = new ArrayList(); // strings  
NonSystemColors(cAL, cNAL);  
this.comboBox1.Sorted = true;  
this.comboBox1.DataSource = cNAL; //set the combo's data  
source  
  
//  
// TODO: Add any constructor code after InitializeComponent  
call  
//  
}  
  
///  
  
/// Clean up any resources being used.  
///  
protected override void Dispose( bool disposing )  
{  
if( disposing )  
{  
if (components != null)  
{  
components.Dispose();  
}  
}  
base.Dispose( disposing );  
}  
  
#region Windows Form Designer generated code  
///
```

```
/// Required method for Designer support – do not modify
/// the contents of this method with the code editor.
///
private void InitializeComponent()
{
this.comboBox1 = new System.Windows.Forms.ComboBox();
this.SuspendLayout();
//
// comboBox1
//
this.comboBox1.Location = new System.Drawing.Point(8, 8);
this.comboBox1.Name = "comboBox1";
this.comboBox1.Size = new System.Drawing.Size(121, 21);
this.comboBox1.TabIndex = 0;
this.comboBox1.Text = "comboBox1";
//
// KnownColors
//
this.AutoScaleBaseSize = new System.Drawing.Size(5, 13);
this.ClientSize = new System.Drawing.Size(292, 266);
this.Controls.AddRange(new System.Windows.Forms.Control[] {
this.comboBox1});
this.Name = "KnownColors";
this.Text = "KnownColors";
this.ResumeLayout(false);

}
#endregion

///
/// The main entry point for the application.
///
[STAThread]
static void Main()
{
Application.Run(new KnownColors());
}
```

```
private void NonSystemColors(ArrayList cAL, ArrayList cNAL)
{
    Array cA = Enum.GetValues(typeof(KnownColor));
    foreach(KnownColor knwnC in cA) // cX.Length = 167
    {
        Color curC = Color.FromKnownColor(knwnC);
        if(!curC.IsSystemColor)
        {
            cAL.Add(curC);
            cNAL.Add(curC.Name.ToString());
        }
    }
}
protected override void OnPaint(PaintEventArgs pea)
{
    Graphics g = pea.Graphics;
    int wi = 70, hi = 12, rectNb = 8;
    int cALNb = cAL.Count;

    this.Width = (wi +2)*rectNb + 9;
    int y = (int)(cALNb / rectNb);
    this.Height = y*(2 + hi) + 60;

    DisplayKnownColors(g, cALNb, wi, hi, rectNb);
    g.Dispose();
}
private void DisplayKnownColors(Graphics g, int cALNb, int wi,
int hi, int rectNb)
{
    Rectangle rec;
    Pen p = new Pen(this.ForeColor);
    Brush b;

    StringFormat strfmt = new StringFormat();
    strfmt.LineAlignment      =      strfmt.Alignment      =
StringAlignment.Near;

    int x, y;
```

```
for (int i = 0; i < cALNb; i++) { x = (int)(i % rectNb); y =  
(int)(i / rectNb); rec = new Rectangle(1 + x*(2 + wi), 1 +  
y*(2 + hi), wi, hi); g.DrawRectangle(p, rec); b = new  
SolidBrush((Color)cAL[i]); g.FillRectangle(b, rec); b = new  
SolidBrush(Color.Black); g.DrawString((string)cNAL[i],  
this.Font, b, rec, strfmt); } x = (int)(cALNb % rectNb); y =  
(int)(cALNb / rectNb); this.comboBox1.Location = new  
Point(x*(wi + 2) + 2, y*(2 + hi) + 2); } } } [/csharp]
```