

# Known Colors



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/*
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by Jay Glynn, Csaba Torok, Richard Conway, Wahid Choudhury,
Zach Greenvoss, Shripad Kulkarni, Neil Whitlow

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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.IContainer 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());
}

```

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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]
```