COMP 3602

C# Application Development

Week Seven - Online



This Week's Learning Outcomes



ToolTip Class

Lives in System. Windows. Forms Namespace

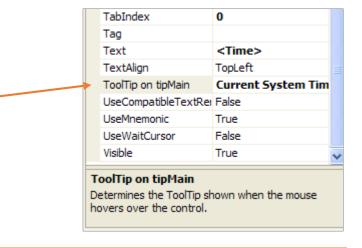
Adding a ToolTip to a Form, Adds a ToolTip Property to Each Visible Component on that Form

SetToolTip Method to Change ToolTip Text

GetToolTip Method to Read ToolTip Text

See Sample Project

Details at link below:



The ToolTip Text can be set or altered by calling the SetToolTip method and passing the control and the Text you want displayed

```
labelTimeDisplay.Text = DateTime.Now.ToString("h:mm:ss tt");
timerClock.Interval = 1000;
timerClock.Enabled = true;
tipMain.SetToolTip(labelTimeDisplay, "Current System Time");
tipMain.SetToolTip(buttonStartStop, "Stop the Display Timer");
```

ToolTip Info on MSDN



Timer Class

Lives in System. Windows. Forms Namespace

Start() Method Starts the Timer

Stop() Method Stops the Timer

Interval Property sets Timer Interval (in ms)

Fires the Tick Event Every Interval

See Sample Project

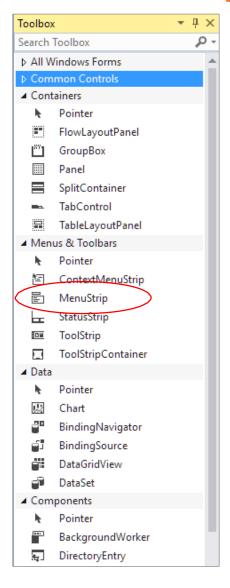
Details at link below:

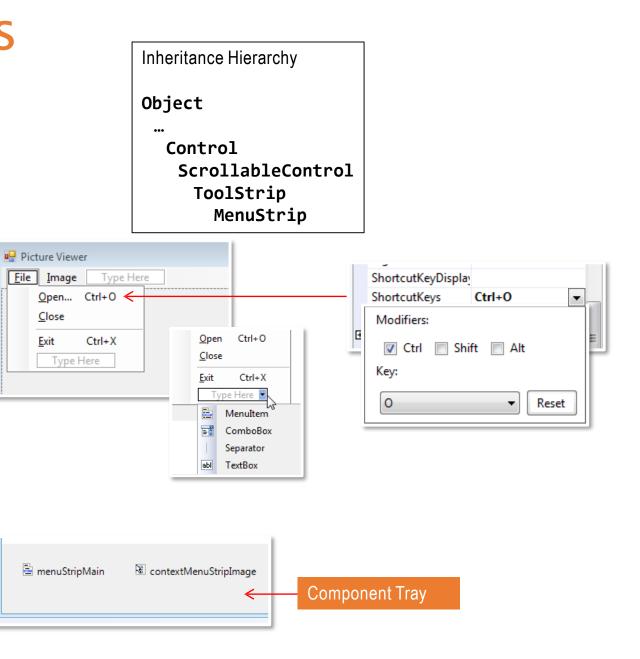
Timer Info on MSDN

Dragging a Timer control on to the design surface places it in the Component Tray

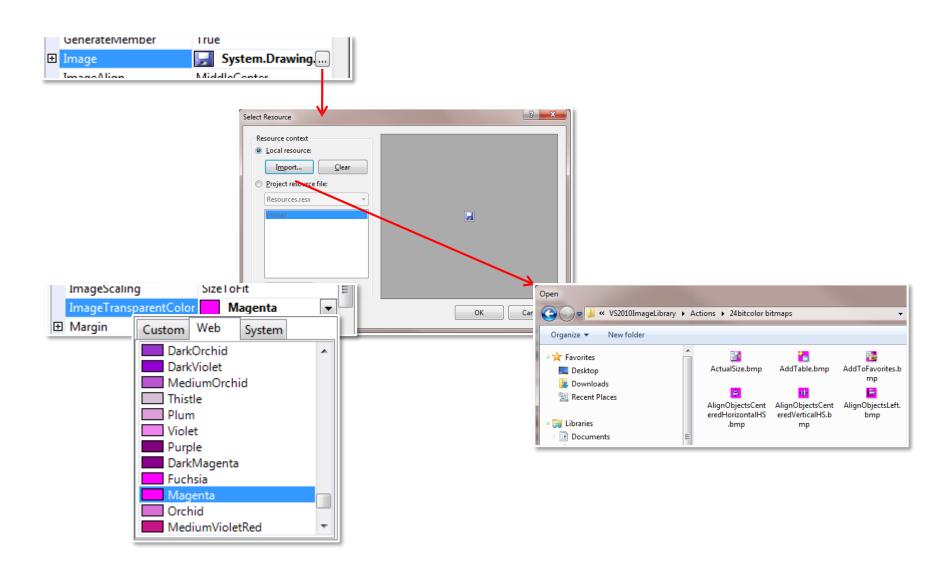
Timer Tick Event Handler

MenuStrip Class

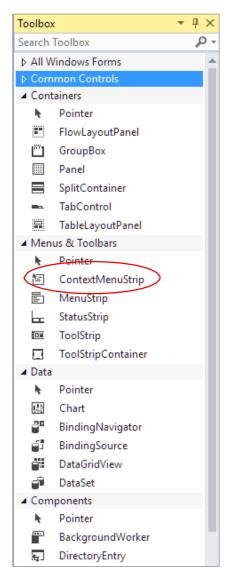


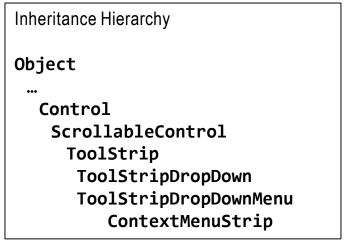


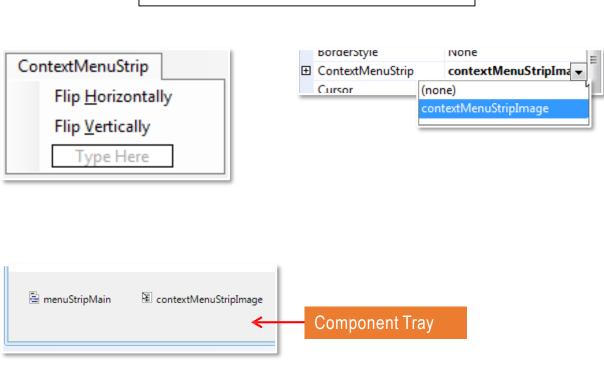
MenuStrip Class - Adding Images



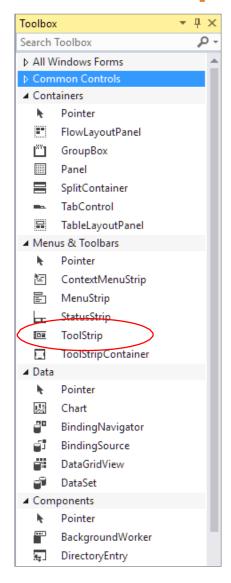
ContextMenuStrip Class

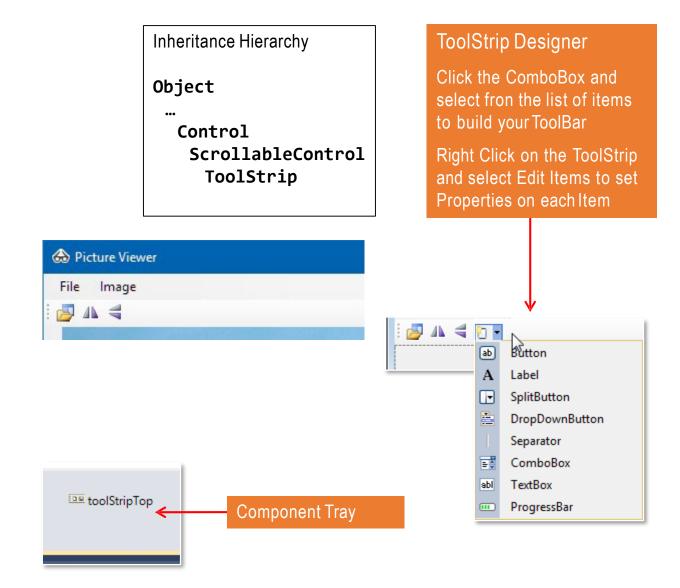




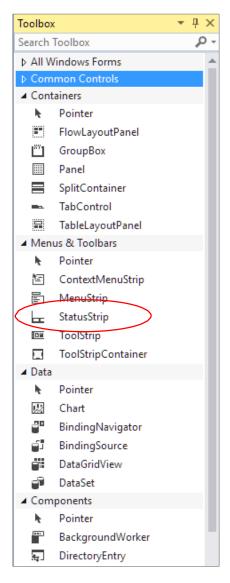


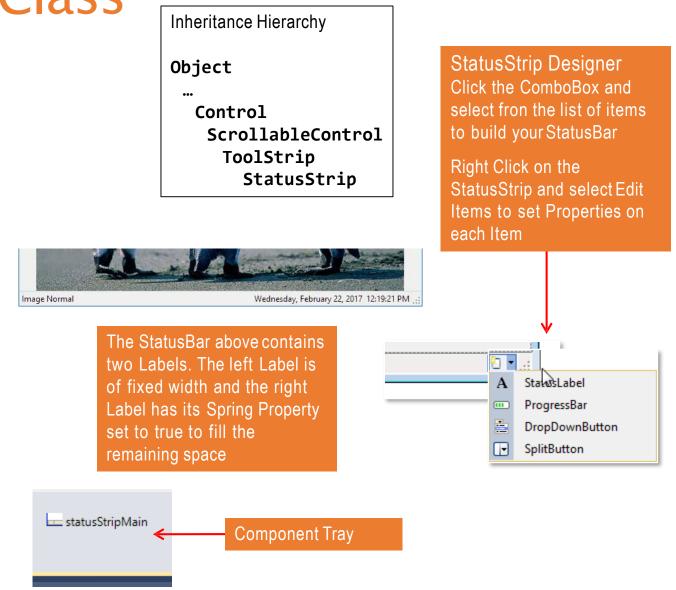
ToolStrip Class





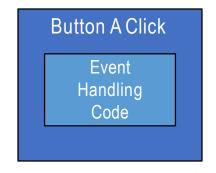
StatusStrip Class

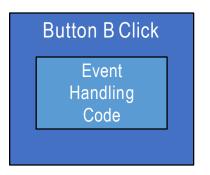


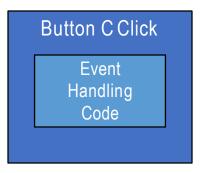


Multiple Event Sources - Same Code

Option A – Replicate Code in Each Event Handler



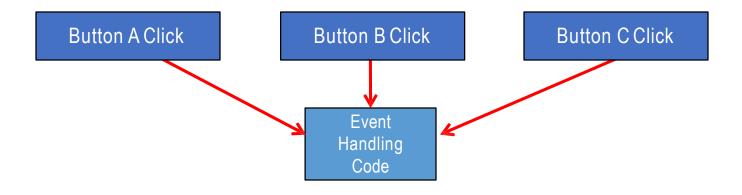




Results in code duplication – poor maintainability

Multiple Event Sources - Same Code

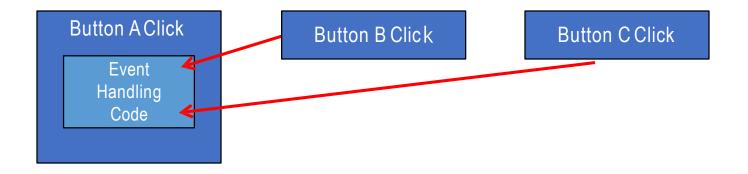
Option B – Call a Common Method from Each Event Handler



No code duplication – unnecessary method

Multiple Event Sources - Same Code

Option C – Link Event Handers



No code duplication – no unnecessary methods