



The Timer Control

- Invisible during run time
- Triggers an event after a specified period of time
- The Interval property specifies the time period – measured in milliseconds
- To begin timing, set the Enabled property to True
- To stop timing, set the Enabled property to False
- The event triggered each time `Timer1.Interval` elapses is called `Timer1.Tick`.



Lab sheet 9.4: Form

txtSeconds

OBJECT	PROPERTY	SETTING
tmrWatch	Interval	100
	Enabled	False



Lab Sheet 9.4: Code

```
Private Sub btnStart_Click(...) Handles btnStart.Click
    txtSeconds.Text = "0"      'Reset watch
    tmrWatch.Enabled = True
End Sub
```

```
Private Sub btnStop_Click(...) Handles btnStop.Click
    tmrWatch.Enabled = False
End Sub
```

```
Private Sub tmrWatch_Tick(...) Handles tmrWatch.Tick
    txtSeconds.Text = CStr((Cdbl(txtSeconds.Text) + 0.1))
End Sub
```

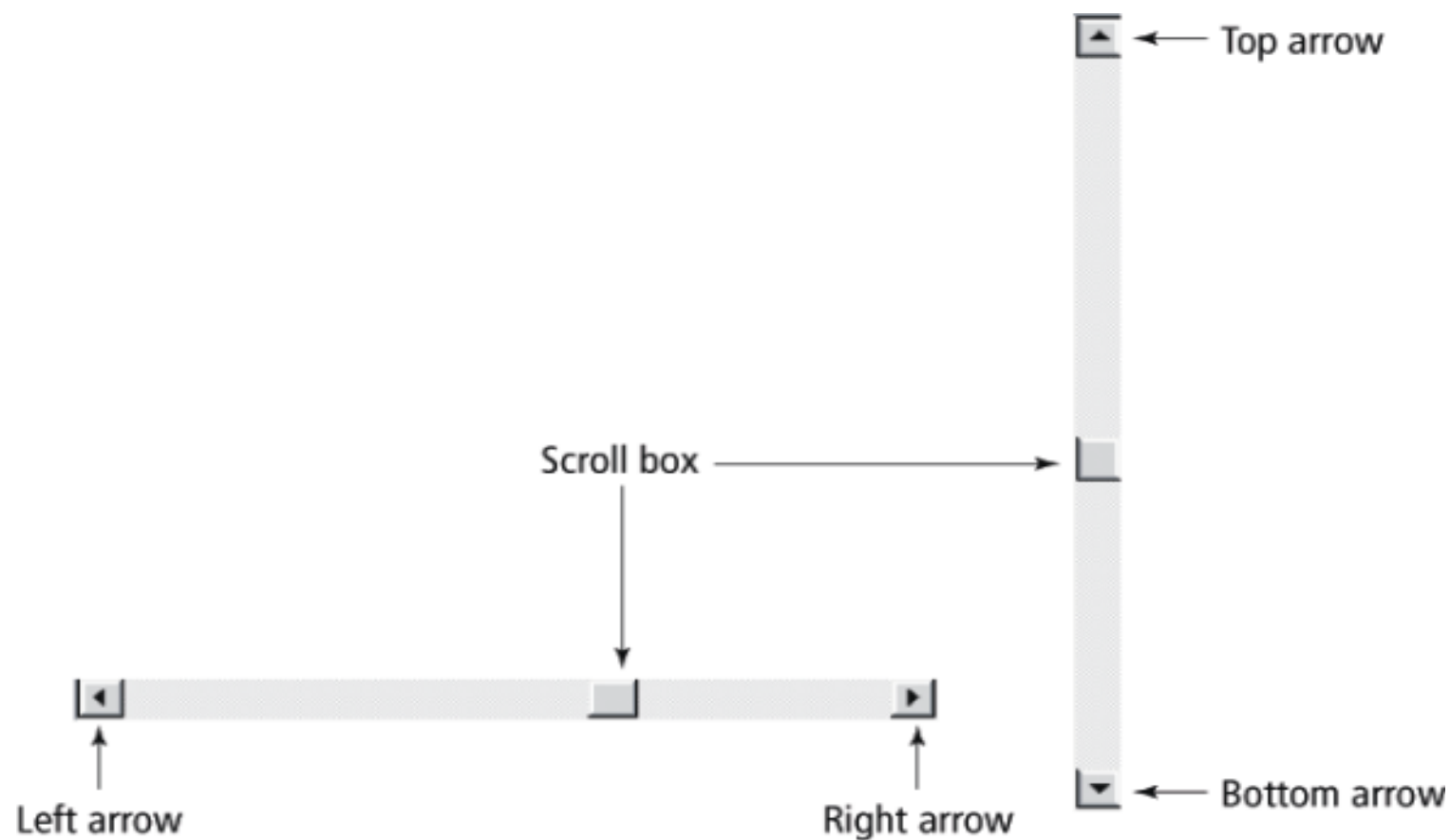


Lab Sheet 9.4: Output





The Horizontal and Vertical Scroll Bars





Scroll Bar Behavior

- When the user clicks on one of the arrow buttons, the scroll box moves a small amount toward that button.
- When the user clicks between the scroll box and one of the arrow buttons, the scroll box moves a large amount toward that button.
- The user can also move the scroll box by dragging it.



Scroll Bar Properties

- The main properties of a scroll bar control are
 - Minimum
 - Maximum
 - Value
 - SmallChange,
 - LargeChange
- `hsbBar.Value`, a number between `hsbBar.Minimum` and `hsbBar.Maximum`, gives the location of the scroll box,



Scroll Bar Notes

- The setting for the Minimum property must be less than the setting for the Maximum property.
- The Minimum property determines the values for the left and top arrow buttons.
- The Maximum property determines the values for the right and bottom arrow buttons.
- The Scroll event is triggered whenever any part of the scroll bar is clicked.