



The List Box Control

- Items can be placed into the list at design time or run time
- The **Sorted** property causes items in the list to be sorted automatically
- If the Sorted property is set to True, then the following will place an item into the list in order and assign the index of its position to num:

num = lstBox.Items.Add(str)



Useful Properties of the List Box

- For the total number of items in a list box:

`ListBox.Items.Count`

- **Note:** Each item in `ListBox` is identified by an index number from 0 to `ListBox.Items.Count - 1`
- For the index number of the currently highlighted item:

`ListBox.SelectedIndex`



More List Box Properties

- `lstBox.Items()` is the list of items in the list box.
- The value of the item with an index of n is:

`lstBox.Items(n)`

- The data type of the elements in the `lstBox.Items()` array is `Object`. To put the first element of `lstBox.Items` in a text box:

`txtBox.Text = CStr(lstBox.Items(0))`

Type Conversion Function



Type Conversion Function CStr

<i>Original Data</i>	<i>Returns</i>
<u>Boolean Data Type</u>	A string containing "True" or "False".
<u>Date Data Type</u>	A string containing a Date value (date and time) in the short date format of your system.
<u>Numeric Data Types</u>	A string representing the number.



Currently Highlighted Item in a List Boxes

The currently highlighted item can be obtained as:

`lstBox.Items(lstBox.SelectedIndex)`

Or

`lstBox.Text`



Removing Items from a List Box

- To delete an item at a given location:
`lstBox.Items.RemoveAt(n)`
- To delete the first occurrence of an item:
`lstBox.Items.Remove(str)`
- To remove everything from a list box:
`lstBox.Items.Clear()`



List Box Events

- Three main types of events with list boxes:
- Click – if the user clicks on an item in the list box
- SelectedIndexChanged - if the user clicks on an item or uses the arrow keys to select it
- DoubleClick - if the user double-clicks on an item
- The Click, DoubleClick, and SelectedIndexChanged events are all triggered when the user double-clicks.



Lab Sheet 9.1: Form

lstOxys →

Selected item: good grief ← txtSelected



Lab Sheet 9.1 : Code

```
Private Sub lstOxys_SelectedIndexChanged(...) _  
    Handles lstOxys.SelectedIndexChanged  
    txtSelected.Text = CStr(lstOxys.SelectedItem)  
End Sub
```

```
Private Sub btnAdd_Click(...) Handles btnAdd.Click  
    Dim item As String  
    item = InputBox("Item to Add:")  
    lstOxys.Items.Add(item)  
End Sub
```

```
Private Sub lstOxys_DoubleClick(...) _  
    Handles lstOxys.DoubleClick  
    lstOxys.Items.RemoveAt(lstOxys.SelectedIndex)  
    txtSelected.Clear()  
End Sub
```



Filling a List Box at Design Time

1. Select the Items property of the list box.
2. Click on the ellipsis button on the right side of the Settings box. (A window titled String Collection Editor will be displayed.)
3. Type in the first item, and press Enter.
4. Repeat Step 3 for each of the other items.
5. When you are finished entering items, click on the OK button.



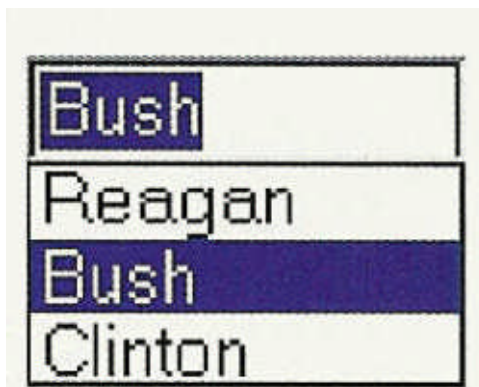
The Combo Box Control

- A list box combined with a text box
- The user has the option of selecting from a list or typing in something
- Essentially same properties, events, and methods as list box

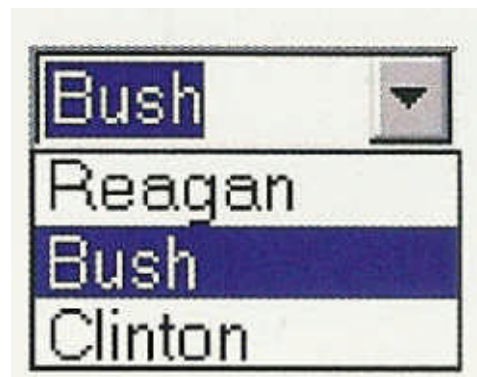


The Combo Box Control

- Three types of combo boxes in the DropDownStyle property:



Simple
combo box



DropDown (and
DropDownList)
combo box



Lab Sheet 9.1

```
Private Sub btnDisplay_Click(...) _  
    Handles btnDisplay.Click  
    txtDisplay.Text = cboTitle.Text & " " & txtName.Text  
End Sub
```

The screenshot shows a Windows application window titled "Letter Address". Inside the window, there is a "Title" label next to a dropdown menu (cboTitle) containing the following options: "Her Excellency", "Mr.", "Ms.", "Dr.", "The Honorable", and "Her Excellency". To the right of the dropdown is a "Name:" label followed by a text box (txtName) containing the text "Queen Elizabeth". Below the dropdown and name text box is a button labeled "Display Full Name". At the bottom of the form is a text box (txtDisplay) containing the text "Her Excellency Queen Elizabeth". Three arrows point from labels outside the window to the controls: "cboTitle" points to the dropdown menu, "txtName" points to the name text box, and "txtDisplay" points to the output text box.