

Hamburg 11. Sep. 93

About SCROLL.BAS

### **Why ?**

Because I saw so many questions about scrolling under VB, I decided to present my solution. (Sorry for strange english, I'm giving my best).

### **The aim**

The aim was to have form that is sizeable and scrollable. The scrollbars should disappear when the user makes the size of the form big enough to see all objects. All objects in the form should move when the scrollbar is used.

### **How it's done**

I'm using the ability of a PictureBox-Control to hold not only a picture, but also other controls. Another trick is, that it is possible to set the picturebox Top and Left properties to negative values. The next trick is to use Windows API Functions SetScrollRange and SetScrollPos to force a normal VB form to have scrollbars. The only problem now is, how to trigger, if a user was clicking on one of the scrollbars. This problem could be solved by using the VBXMessage from James Tyminski (register if you want to use). This VBX allows you to trigger any Message that is send to your form. So we only have to look for WM\_VSCROLL and WM\_HSCROLL messages and their settings of wParam and lParam. For details have a look at the code in procedure Scroll(...).

### **Procedures**

#### **InitScrollPic aPictureBox**

set the PictureBox to the upper Left corner.  
Naturally you can also say: aPicture.Top=0 and  
aPicture.Left=0. Placed in Form\_Load()

#### **SetScrollBar aForm, aPictureBox**

shows or hides the scrollbars. Should allways be  
placed in Form\_Resize()

#### **Scroll aForm, aPicture, aMsg, wParam, lParam**

makes the scrolling happen. Should be placed in  
VBMsg1\_WindowMessage (...).

#### **EnableThumbTrack aBoolean**

call with TRUE enablesThumbTrack, FALSE enables ThumbPosition.

### **How to use in your project**

If you want to use SCROLL.BAS for your own project, follow this steps:

- Create a new form.
- Inside the new form, create a new PictureBox. Bring it to the rights size.  
**By the way, the size of a picturebox can be bigger than your form or even bigger then your screen!**  
It's a little bit tricky to expand the picturebox, because VB seems to stop after

- reaching a certain size. Just enter the the desired size directly in the properties window. Set BorderStyle to 0 (none).
- Place every desired control inside the PictureBox.
  - Add Scroll.bas to your project.
  - Add VBMSG.VBX to your project.
  - Place somewhere in your form the VBMSG control.
  - In Form\_Load() procedure you have to set:

```
VbMsg1.SubClasshWnd = Form1.hWnd  
InitScrollPic Picture1
```

- In Form\_Resize() you have to set:

```
SetScrollBar Form1, Picture1
```

- In VBMsg1\_WindowMessage(...) you have to set:

```
Scroll Form1, Picture1, Msg, wParam, lParam
```

**That's all !**

**Have fun...**

**Christian Juerges, 100277,2551**