
Subject: Re: XML Question

Posted by [Karl Schultz](#) on Wed, 23 Feb 2005 18:03:54 GMT

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On Wed, 23 Feb 2005 10:33:08 -0700, David Fanning wrote:

> Karl Schultz writes:
>
>> Hope this helps. I can help further, if needed.
>
> Oh, that **really** helps. Thanks!

Great!

> I've been reading my w3schools.com tutorials, and working my
> way through the relevant sections of Building Applications
> and it is beginning to make a lot of sense to me now. In fact,
> like most of the objects I work with, it generates more good
> ideas than I know what to do with! I can see all **kinds** of
> possibilities! :-)

That's exactly the thing to do. The IDL XMLDOM support is built on top of the Xerces DOM library, so after you trip across that, the IDL stuff will seem pretty familiar.

Here's an update to the program that lets you modify the widget values. As the widget values change, the DOM tree contents are modified. When the application is closed, the DOM tree is written back out to the XML file. When you start the app again, you see your updated values in the widgets.

This code is really bare-bones for newsgroup-level brevity with a lot of ugly shortcuts, but you'll get the idea.

Karl

```
pro demo_cleanup, w
  WIDGET_CONTROL, w, GET_UVALUE=state
  state.oDoc->Save, FILENAME='demo.xml'
  OBJ_DESTROY, state.oDoc
end

pro demo_event, ev
  WIDGET_CONTROL, ev.id, GET_VALUE=value, GET_UVALUE=oValue
  oValue->SetNodeValue, STRING(value[0])
end
```

```

pro demo
  oDoc = OBJ_NEW('IDLffXMLDOMDocument', FILENAME='demo.xml')
  oTopLevel = oDoc->GetDocumentElement()
  oWidgetList = oTopLevel->GetElementsByTagName("widget")

  wBase = WIDGET_BASE(/COL, TITLE=oTopLevel->GetAttribute("title"))

  for i=0, oWidgetList->GetLength()-1 do begin
    oWidget = oWidgetList->Item(i)
    case oWidget->GetAttribute("type") OF
      'slider': begin
        wSlider = WIDGET_SLIDER(wBase, $
                                MINIMUM=FIX(oWidget->GetAttribute("min")), $
                                MAXIMUM=FIX(oWidget->GetAttribute("max")))
        oValueList = oWidget->GetElementsByTagName("value")
        oValue = oValueList->Item(0)
        WIDGET_CONTROL, wSlider, $
          SET_VALUE=FIX((oValue->GetFirstChild())->GetNodeValue()), $
          SET_UVALUE=oValue->GetFirstChild()
        end
      'text': begin
        wText = WIDGET_TEXT(wBase, /EDITABLE)
        oValueList = oWidget->GetElementsByTagName("value")
        oValue = oValueList->Item(0)
        WIDGET_CONTROL, wText, $
          SET_VALUE=(oValue->GetFirstChild())->GetNodeValue(), $
          SET_UVALUE=oValue->GetFirstChild()
        end
      else: print, "Unknown widget type"
    endcase
  endfor

  state = { $
    oDoc: oDoc }

  WIDGET_CONTROL, wBase, SET_UVALUE=state
  WIDGET_CONTROL, wBase, /REALIZE

  XMANAGER, 'demo', wBase, CLEANUP='demo_cleanup', /NO_BLOCK
end

```
