

Check that a HTML document has completely loaded

Because the *TWebBrowser* control loads documents asynchronously, you often need to wait for the document to finish loading before continuing. For example, you'll have to do this if you need to work with the HTML document's *IHTMLDocument2* interface, because that interface is not available until the document has finished loading.

Drop a *TWebBrowser* and a *TButton* control onto a Delphi form and add the following *OnClick* event handler to the button:

```
procedure TForm1.Button1Click(Sender: TObject);

  procedure Pause(const ADelay: LongWord);
  var
    StartTC: DWORD;
    CurrentTC: Int64;
  begin
    StartTC := GetTickCount;
    repeat
      Application.ProcessMessages;
      CurrentTC := GetTickCount;
      if CurrentTC < StartTC then
        // tick count has wrapped around: adjust it
        CurrentTC := CurrentTC + High(DWORD);
    until CurrentTC - StartTC >= ADelay;
  end;

begin
  WebBrowser1.Navigate('http://www.delphidabbler.com/');
  while WebBrowser1.ReadyState <> READYSTATE_COMPLETE do
    Pause(5); // 5ms delay before re-testing
end;
```

The code loads the *DelphiDabbler* website's home page into the browser control and does not return until the page is fully loaded. It simply tests the browser control's ready state and performs a busy wait until the *READYSTATE_COMPLETE* state is reached. The private *Pause* procedure simply performs the busy wait while allowing the rest of the program to remain responsive.

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