

Print WebViewer on macOS in FileMaker

Today an user send us a script which does printing of a webviewer with some report (in HTML) to a PDF file. The code works pretty well and prints automatically dozens of reports to PDF files:



```
# Check plugin version installed to use right key
Set Variable [ $_MBS_Version ; Value: MBS("Version") ]
Set Variable [ $_MBS_Version_asNumber ; Value: Substitute ( GetAsNumber
( $_MBS_Version ) ; "?" ; 0 ) ]
If [ MBS("isRegistered") ≠ 1 ]
    If [ $_MBS_Version_asNumber >= 7 ]
        # Version 7 with newer code
        Set Variable [ $_MBS ; Value: MBS("Register"; "ABC"; "Complete"; "5 seats";
201803; "###") ]
    Else
        # Version 6 with older code
        Set Variable [ $_MBS ; Value: MBS("Register"; "ABC"; "Complete"; "5 seats";
201702; "xyz") ]
    End If
End If
#
# Destination file path, could be a parameter to the script.
Set Variable [ $_Path_Destination_Complete ; Value: "/tmp/test.pdf" ]
# Page to load and print
Set Variable [ $URL ; Value: "https://www.mbsplugins.de" ]
#
# Check plugin version needed for FileMaker 16
If [ GetAsNumber ( Get(ApplicationVersion) ) >= 16 and $_MBS_Version_asNumber <
7,4 ]
    Show Custom Dialog [ "Process: Error" ; "Filemaker 16 or greater requires MBS
Plugin version 7.4 or higher." ]
    Halt Script
End If
#
# Set print parameters
Set Variable [ $_MBS ; Value: MBS( "WebView.SetPrintParameter"; "topMargin"; 0 ) ]
Set Variable [ $_MBS ; Value: MBS( "WebView.SetPrintParameter"; "bottomMargin"; 0 ) ]
Set Variable [ $_MBS ; Value: MBS( "WebView.SetPrintParameter"; "leftMargin"; 0 ) ]
Set Variable [ $_MBS ; Value: MBS( "WebView.SetPrintParameter"; "RightMargin"; 30 ) ]
If [ $_MBS_Version_asNumber >= 7,4 ]
    Set Variable [ $x ; Value: 0 ]
    Set Variable [ $y ; Value: 100 ]
    Set Variable [ $w ; Value: 970 ]
    Set Variable [ $h ; Value: 440 ]
    # Create a webviewer via plugin to use older WebKit which can print
    Set Variable [ $$web ; Value: MBS("Webview.Create"; 0; $x; $y; $w; $h) ]
    Set Variable [ $error ; Value: MBS("IsError") ]
```

```

If [ $error = 0 ]
    # Load URL
    Set Variable [ $_MBS ; Value: MBS( "WebView.LoadURL"; $$web; $URL ) ]
    # Wait for loading
    Set Variable [ $_WebView_isLoading ; Value: True ]
    Loop
        Pause/Resume Script [ Duration (seconds): ,2 ]
        Exit Loop If [ MBS( "WebView.IsLoading"; $_theWebViewID ) ≠ 1 ]
    End Loop
    # print webviewer
    Set Variable [ $_MBS ; Value: MBS( "WebView.PrintToFile"; $$web ;
$_Path_Destination_Complete ) ]
    Set Variable [ $error ; Value: MBS("IsError") ]
    # close webviewer
    Set Variable [ $r ; Value: MBS( "WebView.Close"; $$web ) ]
End If
Else
    # Print WebView Contents to tmp folder
    Set Variable [ $_theWebViewID ; Value: "web" ]
    # print webviewer
    Set Variable [ $_MBS ; Value: MBS( "WebView.PrintToFile"; $_theWebViewID ;
$_Path_Destination_Complete ) ]
    Set Variable [ $error ; Value: MBS("IsError") ]
End If
#
If [ $error ]
    Show Custom Dialog [ "Process: Error" ; List ( "Failed to save file [" &
$_Path_Destination_Complete & "]" ; MBS("Text.RemovePrefix"; $_MBS... ) ]
    Halt Script
End If

```

As you see they use either an existing WebView on the layout or use the plugin provided one if possible. As WebKit 2.x does not print, but FileMaker 16 only uses the new version, we have to make a webviewer ourselves via plugin functions using older WebKit 1.x.