

---

Subject: Paste Properly Scaled Images Into RichEdit

Posted by [emve](#) on Sun, 24 Nov 2024 20:50:24 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

I'm evaluating RichEdit using this code in main.cpp:

```
#include <CtrlLib/CtrlLib.h>
#include <RichEdit/RichEdit.h>
using namespace Upp;

GUI_APP_MAIN
{
    RichText txt;
    {
        RichPara para;
        RichPara::Format fmt;
        (Font&)fmt = Monospace(50).Bold();
        para.Cat("", fmt);
        txt.Cat(para);
    }

    RichEdit e;
    e.ShowCodes(NULL); //hide enter marks
    e.Clear();

    HDC screen = GetDC(NULL); // Get device context for the screen
    int dpiX = GetDeviceCaps(screen, LOGPIXELSX); // Horizontal DPI
    int dpiY = GetDeviceCaps(screen, LOGPIXELSY); // Vertical DPI
    ReleaseDC(NULL, screen);

    e.Pick(pick(txt));

    TopWindow win;
    win.Add(e.SizePos());
    win.Run();
}
```

When I copy paste an image (I use GreenShot) into RichEdit, the pasted image shown is bigger.

Here I copied (PrintScreen using GreenShot) top left corner of the window and pasted it back into RichEdit:

When I paste the image from file, the result is the same.

Can it be solved anyhow? I asked chatgpt and it kinda hallucinated this solution (as there is apparently no WhenPaste event handler in RichEdit object):

```
class MyApp : public TopWindow {
    RichEdit richEdit;

public:
    MyApp() {
        Title("Adjust DPI for Pasted Image").Sizeable();

        // Intercept the paste action and adjust the image DPI
        richEdit.WhenPaste = [&]() {
            // Check if the clipboard contains an image
            if (ClipboardHas<Image>()) {
                Image img = ReadClipboardImage();
                if (!img.IsEmpty()) {
                    // Get system DPI
                    Size dpi = GetPrimaryScreenDPI(); // Get DPI of the primary screen
                    double scaleFactor = dpi.cx / 96.0; // Assuming 96 DPI as the base

                    // Scale the image
                    int newWidth = img.GetWidth() * scaleFactor;
                    int newHeight = img.GetHeight() * scaleFactor;
                    Image scaledImage = Rescale(img, newWidth, newHeight);

                    // Insert the scaled image into the RichEdit control
                    richEdit.PasteImage(scaledImage);
                }
            } else {
                // Default paste behavior for non-image content
                richEdit.Paste();
            }
        };

        Add(richEdit.SizePos());
    }
};
```

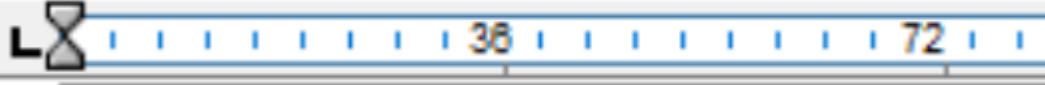
Michal

## File Attachments

1) [2024-11-24 21\\_38\\_02-Clipboard.png](#), downloaded 344 times



Test paste.



Test paste.