
Subject: PATCH: Image load progress update
Posted by [aroman](#) on Wed, 23 Aug 2006 09:06:09 GMT
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Loading large images can be slow (1+ sec), and in some applications it's nice to have a responsive UI during this time. I added a progress callback to the image loading code. The interface is the same except that loading functions now optionally take an additional progress callback.

This can be used very simply with:

```
Progress progress_window("Loading big image");  
Image im = StreamRaster::LoadFileAny("big_image.jpg",progress_window);
```

Here is an example program that demonstrates both loading images and using the callback:

```
#include <CtrlLib/CtrlLib.h>  
  
// NOTE: In order to load JPEG images, you need to include the "plugin\jpg" package! Once that  
// is included, you are all set to go.  
  
// Example 1: This just loads and displays the file "image_to_load.jpg" in the directory of  
// the executable. It probably won't work if you run it without having that file, so I made  
// the slightly fancier version below where you can pick a file.  
//  
// This version is here so that you can see the bare minimum code necessary to load and  
// display an image.  
class ReallySimpleImageViewer : public TopWindow {  
public:  
    ReallySimpleImageViewer() {  
        // Set up our window to be resizable  
        Zoomable().Sizeable().Title("Simple Image Viewer");  
  
        // Add a control that can display images.  
        Label image_display;  
        image_display.SetPaintRect(PaintRect(ImageDisplay()));  
        image_display.AddFrame(ThinInsetFrame());  
        Add(image_display.HSizePosZ(5,5).VSizePosZ(5,5));  
  
        // While loading the image, we'll show a nice progress box so that the user  
        // can cancel if they get bored. This is optional! If you leave out the  
        // second parameter to "LoadFileAny", it will load the image until it finishes  
        // or an error occurs.  
        Progress progress_window("Loading image");  
        Image im = StreamRaster::LoadFileAny("image_to_load.jpg",progress_window);  
  
        // im will be either the image we tried to load or a null image if the load failed.
```

```

// We can check for that with "IsNullInstance()"
if (im.IsNullInstance())
    PromptOK("Could not load image");

// Display the image. Won't display anything for a null image.
image_display.SetImage(im);
}
};

// Example 2: This allows the user to choose an image to load.
class SimpleImageViewer : public TopWindow {
public:
    typedef SimpleImageViewer CLASSNAME; // Necessary for THISBACK()
    MenuBar menu;
    StatusBar status;
    Label image_display;

    SimpleImageViewer() {
        Zoomable().Sizeable().Title("Simple Image Viewer");
        AddFrame(menu);
        menu.Set(THISBACK(MainMenu));
        AddFrame(status);

        image_display.SetPaintRect(PaintRect(ImageDisplay()));
        image_display.AddFrame(ThinInsetFrame());
        Add(image_display.HSizePosZ(5,5).VSizePosZ(5,5));
    }
    void MainMenu(Bar& bar) {
        bar.Add("File",THISBACK(FileMenu));
    }
    void FileMenu(Bar& bar) {
        bar.Add("Open image...",THISBACK(OpenImage));
        bar.Add("Exit",THISBACK(Close));
    }
    void OpenImage() {
        FileSel fs;
        fs.Type("Image files","*.jpg,*.png,*.bmp");
        fs.AllFileType();
        fs.ActiveDir(GetFileDirectory(GetDataFile("x")));
        if (fs.ExecuteOpen("Select image to load")) {
            String filename = fs.GetFile(0);
            status = Format("Loading [%s]",filename);
            Image im = StreamRaster::LoadFileAny(filename,Progress("Loading image"));
            if (im.IsNullInstance()) {
                status = Format("Failed to load [%s]",filename);
            } else {
                status = Format("Loaded [%s]",filename);
            }
        }
    }
};

```

```
        image_display.SetImage(im);
    }
}
};

GUI_APP_MAIN
{
    SimpleImageViewer().Run();
}
```

Attached is the patch to add the necessary functionality.

File Attachments

1) [upp_image_progress_feature.patch](#), downloaded 1817 times
