Lazy Foo' Productions 页码, 1/3

Lazy Foo' Productions

News FAQs Games Tutorials Articles Contact Donations

SlickEdit Code Editor - Over 40 Languages on 8 Platforms

Download a free trial today! www.slickedit.com

Ads by Google

Setting up SDL Extension Libraries in MinGW

Last Updated 12/09/07

In this tutorial you're going to learn to set up SDL_image. If you know how to set up this extension, you can set any of them up.

SDL_image is located on this page.

1)Scroll down to the Binary section and download the Windows development library

```
Binary:
Linux

SDL image-1.2.4-1.i386.rpm
SDL image-1.2.4-1.ppc.rpm
SDL image-devel-1.2.4-1.i386.rpm
SDL image-devel-1.2.4-1.ppc.rpm
Win32

SDL image-1.2.4-win32.zip
SDL image-devel-1.2.4-VC6.zip 
MacOS X
SDL image-1.2.4.pkg.tar.gz
```

Every extension libary has 3 essential parts:

- 1. The header file.
- 2. The lib file.
- 3. The *.dll file(s)

They're all set up pretty much the same way no matter which extension

you're setting up.

Open up the zip archive and there should be a folder inside. Open the folder and it'll contain 2 subfolders.

- 2)First, open the include subfolder in the archive and extract the header file inside to the SDL subfolder inside of the MinGW include folder. It should be at C:\MinGW\include\SDL.
- 3) Next extract the lib file that's inside of lib subfolder of the archive to the MinGW lib folder. The MinGW lib folder should be at C:\MinGW\lib.
- 4)Now extract the *.dll file(s) to C:\WINDOWS\SYSTEM32. This is so whenever you make an SDL extension app, the program will be able to find the *.dll file(s) even if they're not in the same directory as the *.exe.
- 5)Now in the command line you enter

g++ -o myprogram.exe mysource.cpp -lmingw32 -lSDLmain -lSDL -lSDL_image

to compile your program.

If you were linking SDL_ttf you'd append

-ISDL_ttf

if you were linking SDL_mixer you'd add on

-ISDL_mixer

etc. etc.

6)To use SDL_image make sure to include the header file.

#include "SDL/SDL_image.h"

If you were setting up SDL_ttf you'd put

#include "SDL/SDL ttf.h"

If you were setting up SDL_mixer you'd put

#include "SDL/SDL_mixer.h"

etc, etc.

Now the extension library is all set up.

Now you can use SDL_image functions.

The main one you want to know about is IMG_Load().

```
SDL_Surface *load_image( std::string filename )

{

//The image that's loaded
   SDL_Surface* loadedImage = NULL;

//The optimized image that will be used
   SDL_Surface* optimizedImage = NULL;

//Load the image using SDL_image
   loadedImage = IMG_Load( filename.c_str() );

//If the image loaded
   if( loadedImage != NULL )

{

       //Create an optimized image
       optimizedImage = SDL_DisplayFormat( loadedImage );

       //Free the old image
       SDL_FreeSurface( loadedImage );

}

//Return the optimized image
   return optimizedImage;

}
```

Here is a revised version of the image loading function from the previous tutorial. As you can see IMG_Load() functions exactly the same as SDL_LoadBMP(), but there's one big exception: IMG_Load() can load BMP, PNM, XPM, LBM, PCX, GIF, JPEG, TGA and PNG files.

From this tutorial on, PNG image files will be the primary image format used. PNGs have excellent lossless compression.

Download the media and source code for this tutorial here.

I highly recommend that you download the documentation for SDL_image and keep it handy.

It can be found here.

```
Make games using C++ C++ Debugging

Learn windows game programming using
C++, OpenGL or DirectX Debug C/C++ code w/Insure++

Ads by Google
```

News FAQs Games Tutorials Articles Contact Donations

Copyright Lazy Foo' Productions 2004-2008