Lazy Foo' Productions





As you can see, despite the fact that we're showing the messages based on key presses we don't check for any key events.

```
//Get the keystates
Uint8 *keystates = SDL_GetKeyState( NULL );
```

Instead what we do is use SDL_GetKeyState().

What SDL_GetKeyState() does is give us the key state array. The key state array is a list of every key and whether the key is pressed or not, kind of like this:

SDLK_UP unpressed
SDLK_BOWN pressed
SDLK_BEGIT unpressed
SDLK_LEFT unpressed
SDLK_INSERT pressed
SDLK_HOME uspressed
SDLK_FOME_uspressed
SDLK_PMGEUP unpressed
SDLK_FI unpressed

Now we can tell which key is down.

Just for information's sake, the argument we give SDL_GetKeyState() gets the number of keys available. Since we don't care about how many keys there are, we just set it to NULL.

```
//If up is pressed
if( keystates[ SDLK_UP ] )
{
    apply_surface( ( SCREEN_WIDTH - up->w ) / 2, ( SCREEN_HEIGHT / 2 - up->h ) / 2, up, screen );
}
```

```
//If down is pressed if( keystates[ SDLK_DOWN ] ) {
    apply_surface(( SCREEN_WIDTH - down->w ) / 2, ( SCREEN_HEIGHT / 2 - down->h ) / 2 + ( SCREEN_HEIGHT / 2 ), down, scre
}

//If left is pressed if( keystates[ SDLK_LEFT ] ) {
    apply_surface(( SCREEN_WIDTH / 2 - left->w ) / 2, ( SCREEN_HEIGHT - left->h ) / 2, left, screen );
}

//If right is pressed if( keystates[ SDLK_RIGHT ] ) {
    apply_surface(( SCREEN_WIDTH / 2 - right->w ) / 2 + ( SCREEN_WIDTH / 2 ), ( SCREEN_HEIGHT - right->h ) / 2, right, screen )
}

//Update the screen if( SDL_Flip( screen ) == -1 ) {
    return 1;
}
```

Here's a basic if up is pressed show the up message, if down is pressed show the down message, etc.

Had this program been done with events, the code would be a good size longer.

SDL_GetKeyState() and other state functions like SDL_GetModState(), SDL_GetMouseState(), SDL_JoystickGetAxis() and others can be incredibly useful. Learn more about them in the SDL API reference, which you should have handy on your computer.

Download the media and source code for this tutorial here.



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