SDL2 references for eForth Windows

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SDL₂

CreateRenderer window index flag -- render

Create a 2D rendering context for a window.

Parameters:

- window the window where rendering is displayed
- index the index of the rendering driver to initialize, or -1 to initialize the first one supporting the requested flags
- flags 0, or one or more SDL_RendererFlags OR'd together.

CreateWindow zstr x y w h fl -- win

Create a window with the specified position, dimensions, and flags.

```
\ define size and position for SDL window
800 constant SCREEN_WIDTH
400 constant SCREEN_HEIGHT
200 constant X0_SCREEN_POSITION
50 constant Y0_SCREEN_POSITION

z" My first window with SDL2"

x0_SCREEN_POSITION Y0_SCREEN_POSITION

SCREEN_WIDTH SCREEN_HEIGHT

SDL_WINDOW_SHOWN CreateWindow

value WIN0
```

DestroyRenderer render -- fl

Destroy the rendering context for a window and free associated textures.

```
\ free ressources, end renderer and window
: freeRessources ( -- )
    RENO DestroyRenderer drop
```

```
WINO DestroyWindow drop
Quit
;
```

DestroyWindow win -- fl

Destroy a window.

```
\ WINO must be declared by value and set by CreateWindow WINO DestroyWindow
```

GetError -- n

Retrieve a message about the last error that occurred on the current thread.

Init n -- n

Initialize the SDL library.

n must be one of

SDL_INIT_TIMER \ timer subsystem

SDL_INIT_AUDIO \ audio subsystem

SDL_INIT_VIDEO \ video subsystem; automatically initializes the events subsystem

SDL_INIT_JOYSTICK \ joystick subsystem; automatically initializes the events subsystem

SDL_INIT_HAPTIC \ haptic (force feedback) subsystem

 ${\tt SDL_INIT_GAMECONTROLLER} \setminus {\tt controller} \ {\tt subsystem}; \ {\tt automatically} \ {\tt initializes} \ {\tt the} \ {\tt joystick} \ {\tt subsystem}$

SDL_INIT_EVENTS \ events subsystem

SDL_INIT_SENSOR

Returns 0 on success or a negative error code on failure. Call **GetError** for more information.

Quit --

Clean up all initialized subsystems.

RenderClear render -- 0 | err

Clear the current rendering target with the drawing color.

RenderPresent render --

Update the screen with any rendering performed since the previous call.

SDL_INIT_VIDEO -- n

Constant. Tells the SDL that you want to initialize the video subsystem.

SDL INIT VIDEO SDL.Init

SetRenderDrawColor renderer r g b a -- fl

Set the color used for drawing operations (Rect, Line and Clear)

Parameters

- renderer the rendering context
- **r** the red value used to draw on the rendering target
- **g** the green value used to draw on the rendering target
- **b** the blue value used to draw on the rendering target
- a the alpha value used to draw on the rendering target; usually SDL_ALPHA_OPAQUE (255). Use SetRenderDrawBlendMode to specify how the alpha channel is used