

Another Cards DLL Demo

[StPendl](#)

[Cards DLL Tutorial](#)

```
'Windows Cards.DLL demo by Stefan Pendl
'based on code by UncleBen, Rod Bird, Alyce Watson and others.

nomainwin
' Indices of cards in deck, numbered 0-51:
clubs = 0      'ace of clubs=0,deuce=4,three=8...king=48
diamonds = 1    'ace of diamonds=1,deuce=5,three=9...king=49
hearts = 2      'ace of hearts=2,deuce=6,three=10...king=50
spades = 3      'ace of spades=3,deuce=7,three=11...king=51
ace=0          'values increment by 4, which is the number of suits
deuce=4
three=8
four=12
five=16
six=20
seven=24
eight=28
nine=32
ten=36
jack=40
queen=44
king=48

'formula for card index: cardValue+cardSuit
'queen of hearts is
queenHearts = queen+hearts

hDLL=LoadLibrary( "cards32.dll" )
if hDLL<>0 then
    dll$="cards32.dll"
else
    hDLL=LoadLibrary( "cards.dll" )
    if hDLL<>0 then
        dll$="cards.dll"
    else
        notice "No DLL available."
        end
    end if
end if
```

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end if

r=FreeLibrary(hDLL)

WindowWidth = 800
WindowHeight = 500
UpperLeftX=1
UpperLeftY=1

open "Cards.DLL" for graphics_nsb as #main
#main "trapclose [quit]"
#main "down ; fill 0 255 0"

'Open the card DLL
open dll$ for dll as #card

'create structs that allow function to return default card sizes
struct cardX, cardwidth as long
struct cardY, cardheight as long

calldll #card,"cdtInit",_
    cardX as struct,_
        'will contain card width
    cardY as struct,_
        'will contain card height
    result as long

cardWide = cardX.cardwidth.struct
cardHigh = cardY.cardheight.struct

hgDC=GetDC(hwnd(#main))  'device context for graphicbox
col=MakeRGB(0,127,0)      'color matches fill color of graphicbox

for Suit=0 to 3                      'card indices 0-51
    for Value = 0 to 48 step 4
        cardX=int(10 + 20 * Value / 4)
'draw overlapped cards
        cardY=int(10 + (10 + cardHigh) * Suit)
'each suit on their own row
        nCard = Suit +
Value           'calculate card index
        nDraw=0
        r=DrawCard(hgDC,cardX,cardY,nCard,nDraw,col)
    next
next

oldCardX = cardX + cardWide + 10
row = 0
```

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column = 0

for nCard = 53 to 65
    'card indices 52-65
    cardX=int(oldCardX + (10 + cardWide) * column)
'draw full cards
    cardY=int(10 + (10 + cardHigh) * row)
'on three rows
    nDraw=1
    r=DrawCard(hgDC,cardX,cardY,nCard,nDraw,col)
    'draw card

    column = column + 1
    if column > 4 then
        column = 0
        row = row + 1
    end if
next

column = 3

for nCard = 67 to 68
    'card indices 67-68
    cardX=int(oldCardX + (10 + cardWide) * column)
'draw full cards
    cardY=int(10 + (10 + cardHigh) * 3)      'on last row
    nDraw=1
    r=DrawCard(hgDC,cardX,cardY,nCard,nDraw,col)
    'draw card

    column = column + 1
next
wait

[quit]
    'terminate DLL and call FreeLibrary
    calldll #card,"cdtTerm",result as void

    close #main
    close #card
end

Function DrawCard(hDC,x,y,iCard,iDraw,clr)
    calldll #card,"cdtDraw",_
        hDC as ulong,_      'graphics device context
        x as long,_         'desired x location
        y as long,_         'desired y location
        iCard as long,_     '0-51=deck, 52-68=specials
```

```
    iDraw as long,_
    clr as long,_
    result as long
end function

Function GetDC(hWnd)
    CallDLL #user32, "GetDC",_
        hWnd As Ulong,_
        GetDC As Ulong
End Function

Function LoadLibrary(file$)
    CallDLL #kernel32, "LoadLibraryA", file$ As Ptr,
    LoadLibrary As Ulong
End Function

Function FreeLibrary(hDLL)
    CallDLL #kernel32, "FreeLibrary", hDLL As Ulong,
    FreeLibrary As Long
End Function

function MakeRGB(red,green,blue)
    if red<0 then red=0
    if red>255 then red=255
    if green<0 then green=0
    if green>255 then green=255
    if blue<0 then blue=0
    if blue>255 then blue=255
    MakeRGB=(blue*256*256)+(green*256)+red
end function
```

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