

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

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",_ 'initialize DLL
    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                        'draw card front
        r=DrawCard(hgDC,cardX,cardY,nCard,nDraw,col)
    next
next

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

```
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)
    nDraw=1
    r=DrawCard(hgDC,cardX,cardY,nCard,nDraw,col) 'on last row
    '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
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        iDraw as long, _      '0=front, 1=back, 2=invert for active
        clr as long, _        'background color
        result as long
end function
```

```
Function GetDC(hWnd)
    CallDLL #user32, "GetDC", _
        hWnd As Ulong, _ 'window or control handle
        GetDC As Ulong 'returns device context
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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