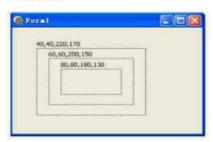
WinAPI: InflateRect - 改变矩形大小 //声明: InflateRect (var lprc: TRect; (要修改的矩形) dx, dy: Integer (变化值)): BOOL; //举例: procedure TForm1.FormPaint (Sender: TObject); var R: TRect; const s = '%d, %d, %d, %d'; begin R := Rect (60, 60, 200, 150); DrawFocusRect (Canvas.Handle, R); Canvas.TextOut(R.Left, R.Top-15, Format(s, [R.Left, R.Top, R.Right, R.Bottom])); InflateRect (R, 20, 20); DrawFocusRect (Canvas.Handle, R); Canvas.TextOut(R.Left, R.Top-15, Format(s, [R.Left, R.Top, R.Right, R.Bottom])); InflateRect (R, -40, -40); DrawFocusRect (Canvas. Handle, R); Canvas.TextOut(R.Left, R.Top-15, Format(s, [R.Left, R.Top, R.Right, R.Bottom])); end; www.docin.com

//效果图:



```
WinAPI: FlashWindow - 闪烁窗口
//声明:
FlashWindow(
 hWnd: HWND; (窗口句柄)
bInvert: BOOL (设为 True 才会闪烁)
): BOOL;
//举例:
begin
 FlashWindow (Handle, True);
end;
WinAPI: GetActiveWindow - 获取当前活动窗口的句柄
//声明:
 GetActiveWindow: HWND; (无参数; 返回当前活动窗口的句柄)
//举例:
var
 h: HWND;
begin
 h := GetActiveWindow;
 FlashWindow(h, True);
end;
WinAPI: GetFocus - 获取当前拥有焦点的窗口的句柄
//声明:
GetFocus: HWND; (无参数; 返回当前拥有焦点窗口的句称)
//举例:
unit Unit1;
interface
```

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

uses

```
Dialogs, StdCtrls, ExtCtrls;
type
 TForm1 = class (TForm)
   Buttonl: TButton;
   Memol: TMemo;
   Editl: TEdit;
   Timerl: TTimer;
   procedure TimerlTimer (Sender: TObject);
 end;
var
 Forml: TForml;
implementation
(SR *.dfm)
procedure TForm1.Timer1Timer(Sender: TObject);
var
 h: HWND;
begin
 h := GetFocus;
 Text := IntToStr(h);
end;
end.
```



WinAPI: GetParent - 获取指定窗口的父窗口句柄

```
//声明:
GetParent(
hWnd: HWND {窗口句柄}
```

//举例:

```
procedure TFormI.ButtonlClick(Sender: TObject);
var
  h1,h2: HWND;
begin
  h1 := GetParent(Buttonl.Handle);
  h2 := Panell.Handle;
  ShowMessage(IntToStr(h1)); (590862)
  ShowMessage(IntToStr(h2)); (590862)
  h1 := GetParent(Panell.Handle);
  h2 := Self.Handle;
  ShowMessage(IntToStr(h1)); (459824)
  ShowMessage(IntToStr(h2)); (459824)
  ShowMessage(IntToStr(h2)); (459824)
```

//效果图:



WinAPI: GetParent - 判断两个窗口是不是父子关系

//声明:

IsChild(

hWndParent, hWnd: HWND {参数是两个窗口句柄, 父窗口在前}

): BOOL;

```
WinAPI: IsIconic、IsZoomed - 分别判断窗口是否已最小化、最大化
//声明:
IsIconic(
 hWnd: HWND {窗口句柄}
): BOOL;
IsZoomed(
 hWnd: HWND (窗口句柄)
): BOOL;
WinAPI: MoveWindow - 改变窗口的位置与大小
//声明:
MoveWindow(
 hWnd: HWND;
              {窗口句柄}
 X, Y: Integer;
                       (位置)
 nWidth, nHeight: Integer; (大小)
 bRepaint: BOOL
                       (是否重绘)
): BOOL;
//举例:
procedure TForm1.Button1Click(Sender: TObject);
 MoveWindow(Button1. Handle, 0, 0, ClientWidth, ClientHeight, True);
```

end;





WinAPI: SetWindowPos - 改变窗口的位置与状态

```
//声明:
SetWindowPos(
 hWnd: HWND; (窗口句柄)
 hWndInsertAfter: HWND; (窗口的 Z 顺序)
X, Y: Integer; (位置)
cx, cy: Integer; {大小}
 uFlags: UINT (选项)
): BOOL;
//hWndInsertAfter 参数可选值:
HWND_TOP
         = 0; {在前面}
HWND_BOTTOM = 1;
                   (在后面)
HWND_TOPMOST = HWND(-1); (在前面,位于任何项部窗口的前面)
HWND_NOTOPMOST = HWND(-2); (在前面,位于其他顶部窗口的后面)
//uFlags 参数可选值:
SWP_NOSIZE = 1; (忽略 cx、cy, 保持大小)
SWP_NOMOVE = 2; (忽略 x、y, 不改变位置)
SWP_NOZORDER = 4; (忽略 hWndInsertAfter, 保持 z 順序)
SWP_NOREDRAW = 8; (不重绘)
SWP_NOACTIVATE = $10; (不激活)
SWP_FRAMECHANGED = $20; 强制发送 WM_NCGALCS [ZE 消息, 一般只是在改变大小时才发送此消息)
SWP_SHOWWINDOW = $40; [显示窗口]
SWP_HIDEWINDOW = $80; (隐藏窗口)
SWP_NOCOPYBITS = $100; (丢弃客户区)
SWP_NOOWNERZORDER = $200; (忽略 hWndInsertAfter, 不改变 Z 序列的所有者)
```

```
SWP_NOSENDCHANGING = $400; {不发出 WM_WINDOWPOSCHANGING 消息}
SWP_DRAWFRAME = SWP_FRAMECHANGED; (画边框)
SWP_NOREPOSITION = SWP_NOOWNERZORDER; ( )
                                (防止产生 WM_SYNCPAINT 消息)
SWP_DEFERERASE = $2000;
                                (若调用进程不拥有窗口,系统会向拥有窗口的线程发出需求)
SWP_ASYNCWINDOWPOS = $4000;
//举例:
procedure TForm1.Button1Click(Sender: TObject);
 SetWindowPos(Handle, HWND_TOPMOST, 0,0, 100,200, SWP_SHOWWINDOW);
end;
WinAPI: WindowFromPoint- 获取指定点所在窗口的句柄
//声明:
WindowFromPoint (Point: TPoint): HWND;
//举例:
unit Unitl;
interface
 Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
 Dialogs, StdCtrls, ExtCtrls;
 TForm1 = class (TForm)
  Button1: TButton;
   Timer1: TTimer;
  procedure TimerlTimer(Sender: Tobject);
 end;
var
 Form1: TForm1;
implementation
($R *.dfm)
var
 h: HWND;
```

```
procedure TForml.TimerlTimer(Sender: TObject);

var

pt: TPoint;
arr: array[0..254] of Char;

begin

if GetCursorPos(pt) then (如果能获取点)

begin

h := WindowFromPoint(pt); (返回句柄)

GetClassName(h, arr, Length(arr)); (获取该句柄窗口的类名)

Text := arr; (显示在标题)

end;
end;
end.
```



WinAPI: GetWindowRect、GetClientRect - 获取窗口的外部与内部矩形

提示:

- 1、其实用 Delphi 内部同类函数很方便的, 但系统函数是全局的;
- 2、使用 GetClientRect 时, 一般要 Windows.GetClientRect, 因为 TForm 的父类有同名函数.

//声明:

(获取窗口外部矩形(相对于屏幕))

GetWindowRect (

hWnd: HWND; (窗口句柄)

var lpRect: TRect (用于返回的矩形指针)

```
): BOOL;
GetClientRect(
                  (窗口句柄)
 hWnd: HWND;
 var lpRect: TRect (用于返回的矩形指针)
): BOOL;
//举例:
unit Unitl;
interface
uses
 Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
 Dialogs, StdCtrls, ExtCtrls;
type
 TForm1 = class (TForm)
   Labell: TLabel;
  Label2: TLabel;
   procedure FormShow (Sender: TObject);
 end;
 Form1: TForm1;
implementation
(SR *.dfm)
procedure TForm1.FormShow(Sender: TObject);
  r: TRect;
begin
 GetWindowRect(Handle, r);
Labell.Caption := Format('%d,%d,%d,%d',
 Windows.GetClientRect(Handle, r);
 Label2.Caption := Format('%d,%d,%d,%d', [r.Left,r.Top,r.Right,r.Bottom]);
end.
//效果图:
```



uses

Dialogs, StdCtrls, ExtCtrls;

WinApi: GetParent、SetParent、MoveWindow - 获取、指定父窗口和移动窗口

提示: SetParent 应该 Windows.SetParent, 因为 TForm 的父类有同名方法.

```
//声明:
(获取父窗口句柄)
GetParent(hWnd: HWND): HWND;
(指定父窗口)
SetParent (
 hWndChild: HWND; (子句柄)
 hWndNewParent: HWND (父句柄)
                (成功返回原父窗口句柄; 失败返回 0)
): HWND;
(移动窗口)
MoveWindow (
 hWnd: HWND;
                     {窗口句柄}
 X, Y: Integer;
                      {位置}
 nWidth, nHeight: Integer; (大小)
 bRepaint: BOOL
                       (True 表示刷新; False 表示不刷新)
): BOOL;
//举例:
unit Unitl;
interface
```

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

```
type
 TForm1 = class (TForm)
   Edit1: TEdit;
   Button1: TButton;
   procedure ButtonIClick (Sender: TObject);
 end;
var
 Forml: TForml;
implementation
($R *.dfm)
procedure TForml.ButtonlClick(Sender: TObject);
 if GetParent (Editl. Handle) = Handle then
 begin
   Windows.SetParent (Editl.Handle, Buttonl.Handle);
   MoveWindow (Editl. Handle, 0,0, Editl. Width, Editl. Height, True);
 end else begin
   Windows.SetParent (Edit1.Handle, Self.Handle);
   MoveWindow (Editl. Handle, 0, 0, Editl. Width, Editl. Height, True);
 end;
end;
end.
```

