

PolyDraw

The **PolyDraw** function draws a set of line segments and Bézier curves.

```
BOOL PolyDraw(  
    HDC hdc,                // handle of a device context  
    CONST POINT * lppt,      // address of array of points  
    CONST BYTE * lpbTypes,    // address of line and curve identifiers  
    int cCount                // count of points  
);
```

Parameters

hdc

Identifies a device context.

lppt

Points to an array of **POINT** structures that contains the endpoints for each line segment and the endpoints and control points for each Bézier curve.

lpbTypes

Points to an array that specifies how each point in the *lppt* array is used. Types can be one of the following:

Type	Meaning
PT_MOVETO	Specifies that this point starts a disjoint figure. This point becomes the new current position.
PT_LINETO	Specifies that a line is to be drawn from the current position to this point, which then becomes the new current position.
PT_BEZIERTO	Specifies that this point is a control point or ending point for a Bézier curve. PT_BEZIERTO types always occur in sets of three. The current position defines the starting point for the Bézier curve. The first two PT_BEZIERTO points are the control points, and the third PT_BEZIERTO point is the ending point. The ending point becomes the new current position. If there are not three consecutive PT_BEZIERTO points, an error results.

A PT_LINETO or PT_BEZIERTO type can be combined with the following value by using the bitwise operator OR to indicate that the corresponding point is the last point in a figure and the figure is closed:

Value	Meaning
PT_CLOSEFIGURE	Specifies that the figure is automatically closed after the PT_LINETO or PT_BEZIERTO type for this point is done. A line is drawn from this point to the most recent PT_MOVETO or MoveTo point. This value is combined with the PT_LINETO type for a line, or with the PT_BEZIERTO type of the ending point for a Bézier curve, by using the bitwise operator OR. The current position is set to the ending point of the closing line.

cCount

Specifies the total number of points in the *lppt* array, the same as the number of bytes in the *lpbTypes* array.

Return Value

If the function succeeds, the return value is TRUE.

If the function fails, the return value is FALSE.

Remarks

The **PolyDraw** function can be used in place of consecutive calls to [MoveTo](#), [LineTo](#), and [PolyBezierTo](#) functions to draw disjoint figures. The lines and curves are drawn using the current pen and figures are not filled. If there is an active path started by calling [BeginPath](#), **PolyDraw** adds to the path.

The points contained in the *lppt* array and in the *lpbTypes* array indicate whether each point is part of a **MoveTo**, **LineTo**, or **PolyBezierTo** operation. It is also possible to close figures.

This function updates the current position.