

右键弹出菜单

WM_CONTEXTMENU消息

一般用户在窗口中单击鼠标右键会产出此消息

- `wParam`
 - 用户右键单击鼠标的窗口句柄。可以是接收消息的窗口的子窗口。
- `lParam`
 - 低位字指定鼠标单击时屏幕坐标中光标的水平位置。
 - 高位字指定鼠标单击时屏幕坐标中光标的垂直位置。

弹出右键菜单

1. 响应WM_CONTEXTMENU消息
2. 加载菜单资源
3. 获取鼠标位置
4. `TrackPopupMenu` 弹出菜单

```
1  case WM_CONTEXTMENU:
2  {
3      // 获取客户区大小
4      RECT rect;
5      GetClientRect((HWND)wParam, &rect);
6      // 获取鼠标位置
7      POINT point;
8      point.x = GET_X_LPARAM(lParam);
9      point.y = GET_Y_LPARAM(lParam);
10     ScreenToClient((HWND)wParam, &point);
11
12     if(PtInRect(&rect, point)) {
13         HMENU hmenu = LoadMenu(g_hInstance, MAKEINTRESOURCE(IDR_MENU2));
14         if (hmenu) {
15             // 获取弹出菜单第一个子菜单
16             HMENU hmenu_pop = GetSubMenu(hmenu, 0);
17             ClientToScreen((HWND)wParam, &point);
18             TrackPopupMenu(hmenu_pop, TPM_LEFTALIGN | TPM_TOPALIGN |
19             TPM_RIGHTBUTTON, point.x, point.y, 0, (HWND)wParam, NULL);
20             // 释放菜单
21             DestroyMenu(hmenu);
22         }
23     } else {
24         break;
25     }
26     return 0;
```

TrackPopupMenu

```
1  BOOL TrackPopupMenu(  
2      HMENU      hMenu,  
3      UINT       uFlags,    // 标志, 一般可 TPM_LEFTALIGN | TPM_TOPALIGN |  
                              TPM_RIGHTBUTTON  
4      int        x,  
5      int        y,  
6      int        nReserved,  
7      HWND       hwnd,  
8      const RECT *prcRect   // 忽略  
9  );
```

MFC

```
1  void CDirectoryInquiriesDlg::OnContextMenu(CWnd* pwnd, CPoint point)  
2  {  
3      // TODO: 在此处添加消息处理程序代码  
4      RECT lc_rect;  
5      list_control_.GetWindowRect(&lc_rect); // 获取列表控件区域大小  
6  
7      if(::PtInRect(&lc_rect, point)) {  
8          GetCursorPos(&point);  
9  
10         POSITION pos = list_control_.GetFirstSelectedItemPosition();  
11         // 如果没有选中项目, 则菜单子项目禁用, 否则启用  
12         if(pos == NULL) {  
13             EnableMenuItem(pop_menu.GetSafeHmenu(), ID_DEL, MF_GRAYED);  
14         } else {  
15             EnableMenuItem(pop_menu.GetSafeHmenu(), ID_DEL, MF_ENABLED);  
16         }  
17  
18         pop_menu.GetSubMenu(0)->TrackPopupMenu(TPM_LEFTALIGN, point.x,  
point.y, this);  
19     }  
20 }
```