

Delete files with the ability to undo or recycle

Answer 1

Windows will not let the user or your program undo file delete operations that you perform using low-level functions such as *DeleteFile()* from your program. Following function, however, will delete a file with the ability to undo (recycle) by sending the file to the "Recycle Bin."

```
uses ShellAPI;

function DeleteFileWithUndo(sFileName: string): boolean;
var
  fos: TSHFileOpStruct;
begin
  FillChar(fos, SizeOf(fos), 0);
  with fos do
    begin
      wFunc := FO_DELETE;
      pFrom := PChar(sFileName);
      fFlags := FOF_ALLOWUNDO or FOF_NOCONFIRMATION or FOF_SILENT;
    end;
  Result := (0 = ShFileOperation(fos));
end;
```

To delete a file, simply pass the file name to *DeleteFileWithUndo()* and it will return True if the operation was successful.

There is a version of *DeleteFileWithUndo* in the *Code Snippets Database*.

Answer 2

Here's a unit that provides some extended functionality:

```
unit Recycle;

interface

uses
  Windows, Messages, SysUtils, Classes, Controls, Forms, Dialogs,
  ShellAPI;

function RecycleFile(FileToRecycle: TFilename): boolean;
function RecycleFileEx(FileToRecycle: TFilename; Confirm: boolean): boolean;

implementation

function RecycleFile(FileToRecycle: TFilename): boolean;
begin
  Result := RecycleFileEx(FileToRecycle, True);
end;

function RecycleFileEx(FileToRecycle: TFilename; Confirm: boolean): boolean;
var
  Struct: TSHFileOpStruct;
  tmp: string;
  Resultval: integer;
begin
  tmp := FileToRecycle + #0#0;
  Struct.wnd := 0;
  Struct.wFunc := FO_DELETE;
  Struct.pFrom := PChar(tmp);
  Struct.pTo := nil;
  Struct.fFlags := FOF_ALLOWUNDO;
  if not Confirm then
    Struct.fFlags := Struct.fFlags or FOF_NOCONFIRMATION;
```

```
Struct.fAnyOperationsAborted := false
Struct.hNameMappings := nil;
  try
    Resultval := ShFileOperation(Struct);
  except
    on e: Exception do
      begin
        e.Message := 'Tried to recycle file:' +
          FileToRecycle + #13#10 + e.Message;
        raise;
      end;
    end;
  Result := (Resultval = 0);
end;

end.
```

Author:	Unknown
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