UTRGV Cleaning App Guide

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Back up files

Introduction:

The backup files is a batch file made to scan the active user profile and identify all the files with the supported extensions.

The supported extensions currently are:

- Text files(.txt)
- Word files(.docx, .doc)
- PDF files(.PDF)
- PowerPoint files(.ppt, .pptx)
- Excel files (.xls, .xlsx)

Once the files have been identified it will compress them all inside a .zip[1] file. The zip file will contain only the folders with the relevant documents, and any folder without supported documents will be ignored.

Important Code:

set dt=%date:~7,2%-%date:~4,2%-%date:~10,4%

This line sets the date on the a string so it can be used in the naming function

timeout /t 5

This line waits 5 seconds before proceeding in case you decide to cancel the process

7za a -tzip C:\Users\%username%\Desktop\Backup_%dt%.zip -r0
<location><extension to scan>

This line uses 7zip(7za) to add(a) a file of type zip (-tzip) on the specified location, named Backup_<date>. It also scans every folder and subfolder, ignoring empty ones (-r0).

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[1] The compression format can change depending feedback. Zip files can be opened without any 3rd party software so I decided to make it the default

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Cleaning using CCleaner

Introduction:

This method is universal for any version of windows. The way that this option works is by launching the prepackaged portable version of CCleaner in automatic mode, which cleans using the default settings of the app. Please do keep in mind that since it clears browser history and cookies, it might log you out of your accounts.

Note: Since this option is designed to launch CCleaner in stealth mode, I decided to create a prompt that notifies you if the app has been launched property, but this can be turned off if requested.

Code:

The code in this section is relatively simple as I'm using a third party software to do the work.

CCleaner /auto

This line launches CCleaner in auto mode, which in turn will commence to clean (in the background) the default settings on the app itself.

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Delete Old Files

Introduction:

This code will run through the active user profile, and gather all the files with the supported extension. After all the files have been gathered, it will analyzed the modified date[2] and delete them if they are older than two years

Note: It is strongly advised to use this option AFTER using the "Backup Files" option, as this will not scan zip files and this if the command deletes a file that was not supposed to, it will most likely be inside the backup zip file.

This file might take a bit to perfect, considering it needs to be calibrated to work on different scenarios.

Important Code:

timeout /t 5

This line waits 5 seconds before commencing the cleaning in case you accidentally pressed the option

forfiles /P C<path> /S /D -730 /M <extention> /C "cmd /c del @path"

This line uses Windows' forfiles option to scan (/S) the path (/P) for files with the specified extension that were modified (/M) more than 730 days ago. After this is done the command (/C) to delete files will run ("del @path")

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[2] The compression format can change depending feedback. Zip files can be opened without any 3rd party software

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Clean Using Disk Cleanup

This option will scan for temporary windows files such as thumbnails, windows update files, and temporary files in the "/%appdata%/temp/" folder. This option is slower than the CCleaner option but it will clean more system related stuff compared to CCleaner that will clean more user related trash files

Code:

cmd /c start Cleanmgr /sagerun:1

The command opens the command line (cmd) and starts a command string (/c). The command uses Cleanmgr to launch the clean manager (in windows 7 and up is called the Disk Cleanup) and run the default settings on set 1(/sagerun:1)[3].

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[3] The command /sagerun:n can set predetermined settings to add or delete options, it can be predetermined by adding an extra line of code. Again, this requires feedback to know what else is needed to be cleaned.

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Defragment Disk

Introduction:

This option will run the disk defragment tool and start the automatic defragmentation. This option will take from 30 minutes to up to 2 hours depending on the size of the disk, and the writing speed. It is highly recommended to be done once every other month, and overnight as it will cause the computer to slow down.

This option requires administrator rights to run, and this a normal user will not be able to use it.

Code:

timeout /t 5

This line waits 5 seconds before commencing the defragmentation in case you accidentally pressed the option

defrag /C /H /V

This command launches the defrag option that will scan all the volumes of C: (/C), run the operation at a normal priority (might cause computer to slow down), and initiates verbose[4] (/V) mode for debugging purposes

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[4] Vervose mode is the mode that lets you see the progress of the command, instead of waiting on a black screen before it finishes.