

Bulk Rename Utility

A software utility to rename files and folders

TGRMN Software

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Overview

Bulk Rename Utility is a software utility for Windows which allows you to rename multiple files and folders, based upon flexible criteria. For example, you can add a prefix or suffix to a file, or you can change three letters with four other letters in a filename. There are lots of ways to manipulate file and folder names.

Bulk Rename Utility supports [many flexible renaming criteria](#), including:

- Rename files and/or folders
- Support for [Regular Expressions](#)
- Change the file name or use a fixed filename
- Convert the extension to lower case, upper case, title case - or replace it - or add a secondary extension - or remove it
- Replace text with other text
- Add a fixed prefix or suffix
- Add text to the middle of a name
- Move text to the start/end/middle of a name
- Remove the first n characters
- Remove the last n characters
- Remove from the n th character to the n th character
- Remove a list of characters
- Remove all digits, characters or symbols
- Remove double-spaces
- Crop text before or after a fixed character or text (or from anywhere in a name using a wildcard)
- Change to upper case, lower case, title case, sentence case - all with user-defined exceptions
- Auto-number files, with a prefix or suffix, and with a predefined minimum-length if required
- Prefix or suffix the filename with various dates (date-modified, accessed, created, media date, or today's date), in many different formats with variable separators
- Pad numbers
- Reformat dates
- Append the folder name to the file (with multiple levels)
- Store your frequently-used renaming criteria as [Favourites](#)
- Copy or move the renamed files to a new location
- Set or clear the Windows attributes on the files (read-only, archived, system, hidden)
- Rename files according to a list (from -> to pairs separated by |)
- Process files in folders and also sub-folders very quickly
- Change file or folder created, modified and accessed timestamps
- Convert Roman numerals to upper or lower case
- Log all activity to a text-file
- Create an UNDO batch file
- Preview all operations before actually renaming.
- Extract certain EXIF tags from JPEG, TIFF, .NEF, .CR2 and .CRW files. Extract [EXIF version 2](#) tags from JPEG files
- Extract certain ID3 tags (V1 and V1.1) from MP3 files
- Extract the Windows Item Date and use it to rename. The Item Date is the primary date of interest for an item, such as videos, HEIC, RAW camera files. In the case of photos, for example, this property maps to Date Taken.
- Extract and use the [Windows File Properties](#) to rename
- Add file hashes to file names (crc32, MD5, SHA)
- [Link file extensions](#) for files to be renamed together
- Create and move files into folders based on file names or file dates ('folderize')
- Drag files directly from within [Windows Explorer](#)

- Support for renaming scripts using [Javascript](#)
- Dark Mode

The application supports [Favourites](#), which allows quick access to frequently-used renaming configurations. Directory recursion is also fully supported, allowing you to process folders and sub-folders. If you have suggestions for enhancements or improvements, please [get in touch](#).

Manual Version: 4.0.6

Getting Started

Bulk Rename Utility is straightforward to use.

There are four simple rules to follow:

1. Only complete the boxes you are interested in. For example, don't assume you have to put something in the Regular Expressions box, or the New Location box, etc.
2. IMPORTANT: You have to select files to rename from the file list before the *Rename* button is enabled.
3. The "new name" column will always be shown in the list, so you can experiment until you get the desired result before actually committing the changes.
4. Almost all the boxes on the screen are ONLY for affecting the file name, NOT the extension. The only box which affects the extension is box 11. There is an option in the "Renaming Options" menu to 'Rename File Extensions as Being Part of the File Names' if needed.

So for example, if you just want to change the filename case to upper case, all you need to do is:

1. Change the drop-down in box 4 to "Upper".
2. Select the files you want to rename (click on the files, Shift+click to select a range, Ctrl+click, Ctrl-A etc.)
3. Press the Rename button (or Preview to review all changes before renaming).

And that's it! No worrying about regular expressions, new folders, auto-numbers, dates etc. You only need to use the boxes you are interested in. Don't want to move the files to a new folder? Leave the New Location fields blank. Don't want to change the file name case? Leave the *Case* fields as their default values.

It is simple, only use the boxes you are interested in.

➡ As of version 4, you can move the renaming criteria into a [separate Window](#), using Menu -> Display Options -> Detach Renaming Criteria (F12). And you can maximize the file list using Menu -> Display Options -> List -> Maximize File List (F9).

All Renaming Options

When you run the application for the first time you will be presented with the main window, located in the center of the screen. The main screen is laid out in a similar way to Windows Explorer. Below the menu bar are two panes, the left of which is a tree view providing access to your system drives and folders. The right-hand pane is a list view of the files and folders contained within the currently selected branch of the tree shown over on the left.

Below the navigation panes are a series of controls. The controls are grouped together according to function - for example, all the facilities to remove text from a filename. Only complete the boxes you are interested in. For example, don't assume you HAVE to put something in the Regular Expressions box, or the New Location box, etc.

The rules used by the Bulk Rename Utility to rename files processed in the order that the controls appear. i.e. from left to right. Names are not actually changed until the "Rename" button is clicked, but you can always see a preview of the proposed filename in the *New Name* column. Note that this column is only updated for the files which are selected.

RegEx (1)

Regular Expression. It allows you to enter a regular expression *Match* and *Replace*. More details can be found [here](#). If you are not using Regular Expressions then both of these fields must be left blank. Do not confuse these fields with the Replacements fields found elsewhere on the screen (Replace (3), see below).

Inc. Ext.: select this option to apply the regular expression to the entire name and extension.

Simple: enables [Simple Regular Expressions](#).

V2: enables [Regular Expressions Version 2](#).

Note: It is also possible to use *<clip>* in the *Replace* field. *<clip>* will be substituted with the current text content of the Windows Clipboard.

Note:

- Extended version 2 [EXIF Tags](#) are supported in *Replace*. They can be added as text, number or as a formatted date to a file name. [Read More](#).
- All [Windows File Properties](#) tags are also supported in *Replace*. They can be added as text, number or as a formatted date to a file name. [Read More](#).
To enable Windows File Properties tags support, activate the option 'Extract Windows File Properties' from the [Renaming menu](#).
- The following hash value tags are also supported: *<(hash:crc32)>*, *<(hash:md5)>*, *<(hash:sha1)>*, *<(hash:sha256)>*, *<(hash:sha3)>*, *<(hash:keccak)>* in *Replace*. These tags will be replaced by the corresponding hash value of the file and can be used to add a hash value to the name.

Click on  to open the multiple RegEx editor, where you can enter multiple Match and Replace pairs.

Name (2)

File Name. It allows you to manage the file name.

Name drop-down:

- Keep* - ensure that the original filename is not changed (default).
- Remove* - completely erase the filename from the selected items.
- Fixed* - specify a new filename in the box for all selected items. Only really useful if you're also using the Numbering section.


- *Reverse* - reverse the name, e.g. 12345.txt becomes 54321.txt.
- *Pad Numbers* - Pad the numbers found in the name. The first number that is found in the name is padded. Use [Name Segment](#) to pad a different number, e.g., not the first one. Specify the amount of padding in the text box, e.g., 3, 4, 5 etc. By default, 0 is used for the padding, but you can specify a different character to use after >. For instance, 5>A pads the first number found to 5 digits using A instead of 0. If just 5 is entered, and a padding character is not specified, then 0 is used to pad. The format to use is *pad_amount>pad_character*, with *pad_character* optional.
- *Reformat Date* - This option tries to automatically find a date in the name and reformat it to YYYY-MM-DD. A different date format can be specified, according to the [Custom Date Format](#) rules. For example, if you enter %a-%b-%m-%Y in the text box, the date will be reformatted accordingly to something like Sun-Apr-01-2024 instead of the default 2024-04-01. You can also help Bulk Rename Utility recognize an unusual date format by using the Custom Date Format rules. For example, if you have a date specified as 01+04+1999, Bulk Rename Utility will not recognize it automatically. In that case, you can use %d+%m+%Y>%d %m %Y in the text box, which means reformat date from %d+%m+%Y to %d %m %Y.

Replace (3)

Replacement. It allows you to replace occurrences of one text string with another.

This section consists of two controls. You must specify the text you wish to *Replace* and the text you wish to replace it *With*. It is possible to find a text string and replace it with an empty string, or with a shorter string, or with a longer string. You may also specify whether or not you want the "find" to be case-sensitive using *Match Case*. Note that the text is always replaced with the text you specify, including any specific text case.

Multiple replacements can be specified using the | separator. For example, *Replace:1|2 With:3|4* will replace 1 with 3 and 2 with 4. *Replace:1|2 With:3* will replace 1 with 3 and 2 also with 3. If you need to use | as a character itself for renaming, then escape it with a \. For example, *Replace:1\\|2 With:3* will replace 1|2 with 3, the character | will not be used as separator.

NOTE: Click on  to open the multiple Replacements editor, where you can enter multiple Replace and With pairs.

- *Match Case* - Perform case-sensitive replacement.
- *First* - Replace only first match.

To replace only the *First, Last, Start, End, Second, Third, Fourth, Fifth, Sixth, Seventh, Eighth, Ninth* match, use the *position \modifier*, for example:

Replace: *\first*a - With: b - This will replace only the first a in the name with b.

The position modifier has to be specified between two \ at the start of the replace string. The following positions are supported:

\first, *\last*, *\start*, *\end* : replaces only first match, last match, at start of name, at end of name.

\second, *\third*, *\fourth*, *\fifth*, *\sixth*, *\seventh*, *\eighth*, *\ninth* : replaces only nth match.

Example: Replace: *\last*text - With: - This will replace only the last 'text' with an empty string, i.e. it will be removed.

Example: Replace: *\start*text - With: txt - This will replace 'text' with 'txt' only at start of name.

Example: Replace: *\second*text - With: txt - This will replace only the second match of 'text' with 'txt'.

Wildcard Support: wildcard characters * and ? are supported. * matches any number of characters, while ? matches one single character. Use double-quotes " for an exact match start to end.

Example: Replace: Copy (*) - With: C [*] - This will replace the text Copy (*any_number_of_characters*) with C [*any_number_of_characters*]

Example: Replace: Copy (?) - With: Cp [?] - This will replace the text Copy (*one_character*) with Cp [*one_character*]

Example: Replace: Copy (*) - * - This will replace the text Copy (*any_number_of_characters*) with just *any_number_of_characters*

Example with quotes: Replace: "Copy (*)" - * - This will replace the text Copy (*any_number_of_characters*) with just *any_number_of_characters*. Surrounding double-quotes " are used to match the text Copy (*) vs. the entire name, so it will only match if the name starts and ends with Copy (*). If Copy (*) is in the middle of the file name, it will not be matched.

Regex Support: You can also use Regular Expressions (regex) syntax directly in Replace (3) by using the prefix modifier \regex\ in the replace field.

Example: Replace: \regex\(\d{5}\) - With: A - This will replace the first 5 digits with an A. The Replace and With boxes are treated as regular expressions.

Example: Replace: \regex\(\d{5}\) - With: A\$1 - This will replace the first 5 digits with an A plus the matched 5 digits. The Replace and With boxes are treated as regular expressions.

See Regular Expression syntax for more information: [Regular Expressions](#)

Note: It is also possible to use the tag <clip> in both the *Replace* and *With* fields. <clip> will be substituted with the current text content of the Windows Clipboard.

Note:

- Extended version 2 [EXIF Tags](#) are supported in the *With* field. They can be added as text, number or as a formatted date to a file name. [Read More](#).
- All [Windows File Properties](#) tags are also supported in the *With* field. They can be added as text, number or as a formatted date to a file name. [Read More](#).
To enable Windows File Properties tags support, activate the option 'Extract Windows File Properties' from the [Renaming menu](#).
- The following hash value tags are also supported: <(hash:crc32)>, <(hash:md5)>, <(hash:sha1)>, <(hash:sha256)>, <(hash:sha3)>, <(hash:keccak)> in the *With* field. These tags will be replaced by the corresponding hash value of the file and can be used to add a hash value to the name.

Case (4)

Changing of case. Allows the capitalization of file and/or folder names to be changed.

Case drop-down:

- Same* - leave the original capitalization intact. Then use the *Exceptions* (see below) to upper case or lower case just certain characters or words.
- Lower* - convert all letters in the name(s) to lower-case.
- Upper* - converts all letters in the name(s) into capitals.
- Title* - converts all the words in the selected items to initial caps. A word is generally defined as a string of letters proceeded by a space or a bracket or a dash. So "joe public.txt" would become "Joe Public.txt".
- Sentence* - converts all the words in the sentence to sentence format. This means capitalizing the first letter of the first word after every full stop (.). So "hello EVERYONE. MY name IS FreD.txt" would become "Hello everyone. My name is fred.txt"
- Title Enhanced* - converts all the words to initial caps. A word is generally defined as a string of letters proceeded by a space or a bracket or a dash. So "joe public.txt" would become "Joe Public.txt". For *Title Enhanced*, the words *a, an, and, as, at, but, by, en, for, if, in, nor, of, on, or, per, the, to, v, vs, via* are not capitalized unless they are at the start or at the end of a sentence. More exceptions can be specified using 'Exceptions', see below for more details.

Exceptions:

You can enter a list of "exceptions", separated by colons. So for example if you entered *PHP:ASP:doc* then any occurrence of *php* or *ASP* (or *PHP* or *aSp*) would be converted to upper-case, and every occurrence of *DOC* (or *DoC*) would become *doc*. You can also use spaces to identify words: for example, : book : would always lower-case the text 'book' when preceded and followed by a space.

NOTE: Click on  to open the multiple exceptions editor, where you can enter multiple exceptions easily.

Exceptions for Title Enhanced:

Title Case Enhanced supports additional exception types. You can specify an exception that is a word using the character \$. For example using \$between will result in the word 'between' not being capitalized unless they are at the start or at the end of a sentence. You can also specify multiple words: \$between:\$under. You can mix them with non-words exceptions (see above): \$between:\$under:PHP:ASP:doc .

For Title Case Enhanced you can also specify words that you always want to have in upper case, for example, \$BOOK:\$DISK. They can all be combined: \$between:\$under:PHP:ASP:doc:\$BOOK:\$DISK .

Other Special Tags in Exceptions:

Exceptions can also contain additional tags that have a special meaning:

- **<clear>** : can only be used with *Title Enhanced*. It clears all the default words that are not to be capitalized unless they are at the start or at the end.
The default words are: *a, an, and, as, at, but, by, en, for, if, in, nor, of, on, or, per, the, to, v, vs, via*.
- **<ic>** : can only be used with *Title Enhanced*. Ignore all words that are all caps, do not change capitalization for them.
- **<rnlo>** : lower case all Roman Numerals regardless. Applicable to all Case types.
- **<rnup>** : upper case all Roman Numerals regardless. Applicable to all Case types. For example, if you had a file called "Beethoven's nINTH syMPHONY part iii", you might want to use Title Case to format the filename, but this would impact the "iii". Specify **<rnup>** in the Exceptions to upper case all Roman Numerals.

Exception Examples:

```
<clear>:<rnup>:$between:$under:PHP:ASP:doc:$BOOK:$DISK
PHP:ASP:doc
<ic>
PHP:ASP:doc: book : DISK : iPhone
```

Remove (5)

Removing parts of a filename.

This section consists of several options for removing parts of a filename. Note that these do not apply to the file extension, just the name.

- **First *n*** - Remove the first *n* characters from the name. E.g. removing the first 2 characters from "Joe Public.txt" will result in "e Public.txt".
- **Last *n*** - Remove the last *n* characters from the name. E.g. removing the last 2 characters from "Joe Public.txt" will result in "Joe Publ.txt".
- **From/to** - Remove a string of text, e.g., from the 6th to the 9th characters. Negative values are also supported, where the position is evaluated from the end of the name. E.g., From -3 To -2 will remove characters from third to last to second to last. -1 identifies the last character in the name.
- **Chars** - Remove occurrences of characters from the name. E.g. typing "QW: #" will result in all occurrences of Q, W, colon and hash being removed.
A condition can be used for example: **>c** -- remove characters greater than c. **<Z** -- remove characters less than Z. **>c<Z** -- remove characters greater than c and less than Z.
Use **>ÿ** to remove all characters greater than ÿ, that is all characters past Latin-1 Supplement, such as Emoji.
- **Words** - Remove occurrences of words (separated by spaces).
- **Crop** - Remove any text which occurs before (or after) a specific character or word. See note below.
- **Digits** - Remove all occurrences of the digits 0-9 from the filename.
- **High** - Remove high-ASCII characters (chars from 128 to 255).
- **Trim** - Remove leading and trailing spaces.
- **D/S** - Remove occurrences of double spaces, and replace them with single spaces.
- **Accent** - Remove accented characters and replace them with non-accented versions. File names may contain

accented characters, e.g. File names might contain à and á. Bulk Rename Utility provides a facility to replace accented characters with non-accented if needed.

- *Chars* - Remove all characters.
- *Sym* - Remove all symbols !£\$%^&*()-_+=[]{};:'"@#~,.,<>/?\\|`~¡ from name and it will also remove General Punctuation, Arrows, Miscellaneous Symbols, Dingbats, Miscellaneous Symbols and Pictographs, Emoticons, Transport and Map Symbols Alchemical Symbols, Geometric Shapes Extended, Supplemental Symbols and Pictographs, and Latin-1 Supplement symbols.
- *Lead Dots* - Remove the . and/or .. from the front of filenames (useful if you've copied from a Linux/Unix system).

Note: When you use the "crop" option, you have the ability of specifying a "special" value using the wildcard (*). This will remove the specified string, and any characters occupied by the wildcard. So for example, specifying [*] would convert "Hello[ABC] Joe" to just "Hello Joe", as it has removed the two square brackets and everything between.

Move/Copy (6)

Move a section of text to a different place.


This section allows you to move or copy a fixed number of characters from one part of the string (start or end or range) to another (start, end or position). You could do this with Regular Expressions, but this gives you an alternative. So for example, if all your filenames end with a unique 6-digit sequence code, and you'd rather have this at the start of the filename, then this is the simplest way to achieve it. You can also specify a *separator* in the field *Sep*.

Negative positions are also supported, where the position is evaluated from the end of the name.

The functions available are: Copy first n, Copy last n, Move first n, Move last n, Copy range, Move range.

Add (7)

Add a fixed prefix or suffix to the filename, and certain Exif and ID3 tags.

This section allows you to add a fixed text string to the start of the filename (*Prefix*) and/or a fixed text string to the end of a filename (*Suffix*). Useful for renaming MP3 files, where you can prefix all the filenames with the artist or album name. You can also insert a text string at any point in the filename. Expand the width of this section using the expand button .

You may also choose to add a "Word Space". This will insert a space before any capital letter (except the first character), unless there's a space already there. So, the name "MyHoliday Photographs" would become "My Holiday Photographs".

EXIF Tags: If you are processing JPEG files or other image files that support EXIF, you can also extract and add certain EXIF tags.

These are specified using substitution tags, which you key into the *Prefix*, *Insert* or *Suffix* boxes. The tags supported are:

- %a - Aperture
- %c - Comments
- %e - Exposure
- %f - Focal Length
- %xb - Exposure Bias
- %ma - Camera Make
- %mo - Camera Model

Extended EXIF Tags (version 2): Additional extended version 2 [EXIF Tags](#) are also supported in *Add (7)*. They can be added as text, number or as a formatted date to a file name. [Read More](#).

ID3 Tags: If you are processing MP3 files, you can also extract certain ID3 tags (n.b. only V1 and V1.1 ID3 tags are supported). These are specified using substitution tags, which you key into the *Prefix*, *Insert* or *Suffix* boxes. The tags supported are:

- %r - Artist
- %l - Album
- %t - Title
- %k - Track Number

Other Tags Supported:

- %z : You can also specify %z to include the file size (using the format currently specified on the [Options](#) menu)
- <clip> : It is also possible to use the tag <clip>. <clip> will be substituted with the current text content of the *Windows Clipboard*.
- <removed> : Use the <removed> tag to add back what was removed in section Remove(5). For example, if in Remove(5) text was removed from position 3 to 6 or First n or Last n or by the crop function, then you can re-add that removed text in a different position, as a suffix, prefix or insertion, using the <removed> tag in Add(7). You can use the <removed> tag multiple times in Add(7).

HASH Value Tags

The following hash value tags are also supported: <(hash:crc32)>, <(hash:md5)>, <(hash:sha1)>, <(hash:sha256)>, <(hash:sha3)>, <(hash:keccak)>. These tags will be replaced by the corresponding hash value of the file and can be used to add a hash value to the file name.

Windows File Properties:

All [Windows File Properties](#) tags are also supported in *Add (7)*. They can be added as text, number or as a formatted date to a file name. [Read More](#)

To enable Windows File Properties tags support, activate the option 'Extract Windows File Properties' from the [Renaming menu](#).

Auto Date (8)

Add various dates to the filename, in various formats.

This section allows you to prefix or suffix the filename with a variety of dates - the date that the file was created, modified, or accessed, and also with the current date. The date can be added in 9 different formats, some of which also include the modification time. You can also specify the characters you would like placed between the date/time and the existing filename (the *Sep.* field) and the character to place between the different date/time segments (the *Seg.* field). e.g. a format of DMY, with a *Seg* field of "-" would give a date of (for example) "25-01-03". The "*Cent.*" flag is used to indicate whether or not you would the year to be represented with two digits or 4 digits.

You also have the option to specify your own custom date formats, and these are detailed [here](#).

If you are also updating the file's [Creation-date or Modified-date](#), then you can also choose the "Create (New)" and "Modified (New)" values, and these will equate to your new timestamps.

Several of the dates you can use relate to "date taken". These are EXIF flags which are often embedded in digital camera images (images created using a digital camera). Bulk Rename Utility will only get the flags from JPEG images (.JPG or .JPEG extension), TIFFs (.TIF, .TIFF), Nikon (.NEF) and Canon (.CR2) files. If no date is available then no date will be used. So for example, choosing to append a Date Taken field for a .EXE file will simply append nothing. The dates are:

- *Taken (Original)* - The original timestamp, which should never change.
- *Taken (Digitized)* - The original timestamp, but if the file has been edited (Canon Digital Photo Professional etc.) then this date is updated.
- *Taken (Modified)* - The standard "DateTime" EXIF field, which is usually updated if you edit the picture.
- *Taken (Recent)* - The most "recent" of all three. By recent, this means the last timestamp in the file, not necessarily the most recent in time. This is purely to retain the same behaviour as previous versions of Bulk Rename Utility.
- *Item Date* - This date comes from Windows Explorer itself (System.ItemDate) and it is the primary date of interest for an item. In the case of photos, for example, this date maps to the date the photo was taken. The Item Date will contain the created date for media, pictures, videos, HEIC files, RAW camera files, etc., taken from the file meta data. Seconds are not supported, i.e. accuracy is down to the minute. This date also supports dates earlier than 1970 unlike other dates in Bulk Rename Utility. This date can be shown as a column in the main file list. To use this date, enable the option "*Extract Windows File Properties*" from the *Renaming Options* menu.

Append Folder Name (9)

Add the name of the containing folder(s).

This section allows you to append (or prepend) the name of the containing folder to the filename. So for example, if you had a file called "Dancers.jpg" in a folder called "Highland Show August 2003" then you could automatically rename the file to "Highland Show August 2003 - Dancers.jpg". Useful if you have lots of folders, each containing the same group of files, and you want to merge all the files into a single folder.

You can specify a separator character(s) to use between the folder name and the file name.

You can also specify how many folders to append. So for example, if you had a picture called "Cat.jpg" in "C:\Documents and Settings\Administrator\Pictures", and you chose 4 levels, the result will be "C-Documents and Settings-Administrator-Pictures-Cat.jpg" The software will automatically remove the ":\\" from the root (e.g C:\) as these two characters are illegal in file names.

If you choose a negative level, then only the folder at that level is appended. If you had a picture called "Cat.jpg" in "C:\Documents and Settings\Administrator\Pictures", and you chose -2 level, the result will be 'Administrator-Cat.jpg' and 'Pictures' is not appended. Level -1 has the same effect as level 1.

Numbering (10)

Add sequential numbers.

This section allows you to sequentially number a group of files. Several criteria exist:

- *Mode* - Specify whether you want the number to be appended to the start of the filename, or at the end of the filename, both or insert at a certain position.
- *Start* - Specify a starting number for the numbering.
- *Incr.* - The number by which you want each file name number to be incremented.
- *Pad* - The minimum number of digits occupied by the numeric element. Bases 1-36 will be padded with leading zeros; the a-z and A-Z options will be padded with "a" or "A" as appropriate.
- *Sep.* - A character or characters that you wish to be inserted between the filename and the number. If you enter the special character ":" (colon) in the Sep. box then this will be replaced with the auto-number. So a separator value of ABC:DEF: would result in ABC1DEF1, ABC2ABC2 etc.

A common scenario would be:

- Mode = Suffix
- Start = 1
- Increment = 1
- Pad = 4
- Separator = -

This would result in filenames with suffixes of -0001, -0002, -0003, -0004 etc.

- *Break* - Reset the auto-number when the *nnn* character changes. e.g. enter 4 to cause the number to reset when the 4th character of the NEW name changes.
- *Folder* - Reset the auto-number upon a change of subfolder.
- *Type* - You can choose to append the auto-number in any numeric base, from base 2 to base 36. e.g. a value of 26 in base 16 would be appended as 1A. Or even use letters, e.g. A-Z or a-z. Roman Numerals are also supported.
- *Case* - Specify upper case or lower case numbering. Leave empty to use the default casing.

Extension (11)

Change case of the file name extension.


- *Same* - Leave the original capitalization intact.
- *Lower* - Convert all letters in the extension to lower-case.
- *Upper* - Convert all letters in the extension into capitals.
- *Title* - Convert all the words in the selected items to initial caps, e.g. Jpeg.
- *Fixed* - Replace the extension with a fixed extension. For example, use this option to set all your files to ".doc" types.
- *Extra* - Add a secondary extension. For example, change my.holiday to my.holiday.gif
- *Remove* - Remove any file extension. e.g. *My.Holiday* becomes *My*

Filters (12) (a.k.a Selections)

Select which files and/or folders are shown in the file list. By default this will be all the files and folders in the current folder. Note that this section is only used to govern which files/folders are *displayed*. You still need to *select* a file or folder in order to rename it.

- *Filter* - Specify a file mask to use. Normally this would be *.* , or *.mp3, or *.doc etc. Note that this section is only used to govern which files/folders are *displayed*. You still need to *select* a file or folder in order to rename it. So for example, entering a filter of "*.mp3" means that only your MP3 music files will be shown. You can enter multiple file masks by separating them with a space, e.g. "*.mp3 *.doc *.xls". Note: changes to this field only take effect when you move the cursor to a different field or click a different control. This is

to prevent the list from rebuilding with each keystroke as you type. You can also prefix a criteria with the exclamation mark (!) to perform a "not" expression. So `"* !*.doc !*.mp3"` will select everything except Word documents and MP3 files. Double quotation marks (") can be used around text containing white spaces, e.g. `"file with spaces.*"`. To use the quotation mark character itself, use `\`.

NOTE: Click on  to open the multiple masks editor, where you can enter multiple masks easily.

- *Match Case* - Match case when applying the filter.
- *RegEx* - The *Filter* is a regular expression.
- *Folders* - Include folders in the listing.
- *Files* - Include files in the listing.
- *Subfolders* - If the subfolders option is checked, Bulk Rename Utility will process the contents of all subfolders in the selected branch of the file hierarchy. Care should be taken when using this feature as the utility can potentially list every file on your system.
- *Lvl* - Recursively scan up to this subfolder level.
- *Hidden* - Checking this option will mean that hidden files will be displayed and selectable. Important: you should be careful using this option as many Windows system files are hidden and renaming them could have a detrimental effect on the functionality of your system.
- *Name / Path Min* - Only files/folders and/or paths whose names are greater than (or equal to) this length will be displayed and selectable. Useful if you want to rename files greater than 64 characters for putting onto a CD, for example. N.B. This will exclude files and folders, if the file/folder name is shorter than the nominated length. However, in a recursive scan, sub-folders will still be scanned regardless of the length of the subfolder's name.
- *Name / Path Max* - Only files/folders whose names are lesser than (or equal to) this length will be processed. However, in a recursive scan, sub-folders will still be scanned regardless of the length of the subfolder's name.
- *Condition* - Here you can enter a [Javascript condition](#) to filter files/folders. If the condition evaluates to 'true' for an object, then that object is included in the file list, otherwise it is not. Using a condition you can include/filter files based on name, date, exif, size, attributes, length, etc.

New Location (13)

This section allows you to leave the original files intact, but create copies of the files (with the new names) in a separate folder. This option will honor the *"Overwrite Target Files"* menu option.

- *Copy Not Move* - Copy the files to the new location instead of moving them. Enabled by default.
- *Keep Str.* - Keep Folder Structure. This option allows you to perform copying or moving operations while preserving the original folder hierarchy of your files. Instead of flattening all files into a single (root) folder during the process, Bulk Rename Utility will recreate the subdirectory structure in the destination. For example, if you have files in nested directories like `FolderA\Subfolder1\` and `FolderB\Subfolder2\`, enabling this option will ensure that after processing, the moved or copied files remain in their respective `FolderA\Subfolder1` and `FolderB\Subfolder2` paths within the target directory. Benefits include maintaining your original organizational structure and reducing the risk of filename conflicts.

Special (14)

On top of the above renaming options, there are 5 additional special actions that can be performed on files. These actions are also accessible via the "**Special**" menu and they are:

- [Order](#)
- [Change File Attributes](#)
- [Change File Timestamps](#)
- [Character Translations](#)
- [Javascript Renaming](#) (Javascript renaming gives you total flexibility and control on file renaming by using Javascript code)

Name Segment

This section allows you to enter a specific segment of the filename that you want all the renaming criteria to apply to.

For example, specifying the Name Segment from 1 to 5 will restrict all the renaming criteria to just the first 5 characters of the filename.

In this way, you can apply the renaming criteria to only a part of the file name, like capitalize only the first 5 characters or replace only the first 5 characters, etc.

Negative positions are also supported, where the position is evaluated from the end of the name, e.g., from -5 to -2.

You can change the order of the name segmentation in the renaming criteria using [Special \(14\) Order](#)

You can also use text and position in the Name Segment.

For example, you can set Name Segment -> From to '-': this will look for a '-' character in the file name and apply the name segment from there.

If you specify Name Segment->From: - and Name Segment->To: -, this will segment the file name from the first '-' to the second '-'.

You can also specify a position for the text, for example Name Segment->From: -,2 (comma separated) means from the second - in the file name.

Using Name Segment->From: (and Name Segment->To:) will segment the file name from the first open parenthesis to the first closed.

Using Name Segment->From: _ and Name Segment->To: _,3 will segment the file name from the first underscore to the third.

Using just Name Segment->To: _,2 will segment the file name from the beginning of the file name to the second underscore.

Renaming From a Text File

Accessible from the '**Actions**' menu, '*Import Rename-Pairs*' allows [renaming files from a text file](#).

Using the Application

Launching the Application

When you run the application for the very first time you will be presented with the main window, located in the center of the screen. The main screen is laid out in a similar way to Windows Explorer. Below the menu bar are two panes, the left of which is a tree view providing easy access to your system drives and folders. The right-hand pane is a list view of the files and folders contained within the currently selected branch of the tree shown over on the left.

Below the navigation panes are a series of controls. The controls are grouped together according to function - for example, all the facilities to remove text from a filename.

➞ As of version 4, you can move the renaming criteria into a [separate Window](#), using Menu -> Display Options -> Detach Renaming Criteria (F12). And you can maximize the file list using Menu -> Display Options -> List -> Maximize File List (F9).

Whenever you re-launch the application most of the settings from your previous session will be retained, such as the directory and file-filter you were using. For this to work you must save your renaming criteria to a [Favourites](#) file, using "Save as..."

Only one instance of the application may be launched. If you try to run the application, and there is already a version running, then the original instance will be displayed. It is possible to allow multiple instances in the [Program Preferences](#).

If you chose the *Complete* installation option then the easiest way to access the Bulk Rename Utility dialog is from Windows Explorer itself. Simply highlight the folder or files which you wish to rename, and then either right-click or press shift Function Key 10 and select "Bulk Rename Here" from the context menu. Also, if you've previously saved the renaming criteria to a [Favourite](#) file then you can double-click that Favourite file to launch the application.

Renaming Files and Folders

It is easy to rename files and folders:

1. Select the folder which contains the objects you wish to rename. If required, you may also specify a file filter to restrict your list.
2. Enter the renaming criteria. The column beside the file name ('New Name') will show you what the new file name will become.
3. Select the files you wish to process (use CTRL or SHIFT to select multiple files).
4. Hit the *Rename* button. (IMPORTANT: This button is not enabled unless you have selected one or more files/folders to rename)

Note: You can sort the file list using the column headers, as you would do in Windows Explorer. The files will always be processed in the displayed sequence - useful when you're using the Numbering facility.

The renaming criteria are processed from left to right, according to the number listed against each section

So for example, a text replace will be performed before a change of case. The specific operations are as follows:

- 1) Apply any fixed name changes from an [imported text file](#)
- 2) Apply any Regular Expression reformatting [RegEx (1)]
- 3) Remove any file name, or use a fixed name [File (2)]
- 4) Perform any text substitutions [Repl. (3)]
- 5) Perform [Character Translations](#) [Special (14)]
- 6) Perform any changes of case [Case (4)]
- 7) Remove *n* digits from the start, middle or end of the filename, and optionally remove certain characters, and/or all characters, and/or all digits and/or all symbols and/or all high-ascii characters [Remove (5)]
- 8) Move any text from the start, middle or end of the filename to the start, middle or end of the filename [Move/Copy (6)]
- 9) Add any prefixes or suffixes, or apply text to the middle of the filename. Suffixes are added at the end of the filename, i.e. before any file extension [Add (7)]
- 10) Apply any "auto-date" text as a prefix or suffix. "Sep" is the text to insert between the filename and the date; "Seg" is the separator between the day, month, year, hour, minute and second segments. Or you can use a [custom date](#) format. [Auto Date (8)]
- 11) Add the containing folder name as a prefix or a suffix, with a user-defined separator [Append Folder Name (9)]
- 12) Perform any auto-numbering [Numbering (10)]
- 13) Make any changes to the case of the file extension, or change the extension [Extension (11)]
- 14) Process [Javascript code](#) [Special (14)]. This is the last step.

The *selected* files will be renamed according to your selection criteria. You can select multiple files by holding down the SHIFT or CTRL keys. If there are any problems with the rename operation then you will be given the option to roll back (undo) the operation.

Remember - you can always preview the new name in the file list. This allows you to refine your criteria before actually renaming the files.

To preserve your renaming criteria for the next time you use the utility, save the renaming criteria to a

[Favourite](#) file.

You can use the Reset button to reset all your renaming criteria back to the default values (or the smaller *R* buttons to just reset one group).

If needed, you can [change the order of the renaming criteria](#) in Special (14).

Changes to [File Timestamps](#) and/or to [File Attributes](#) are also applied if specified in Special (14).

Actions Menu

The actions menu provides you with a variety of shortcuts to speed up common tasks, and these are described below.

Select All (Ctrl+A)

This will select all the files and folders in the file-list window.

Deselect All (Ctrl+D)

This will de-select all the files and folders in the file-list window.

Invert Selection (Ctrl+I)

Any entry which is currently selected will be de-selected, and vice-versa. Handy for two-pass renames, where you want to rename a whole batch of files in one go, then rename "everything else" in another go.

Select from Clipboard

If you have a list of file names on the clipboard (such as the output from *DIR /B*) then the software will try to select files which match the names from the clipboard.

It will also try to select files that you copied in Windows File Explorer with Ctrl+C.

Jump to Path (Ctrl+J)

This option will display a window, allowing you to type or select a full pathname to navigate to. The path must exist (it will be validated). Network / UNC paths are supported (e.g. \\computer\share\).

Rename Object Manually (F2)

Enable manual name editing of the selected object in the file list.

Refresh Files (F5)

This will refresh the contents of the right-hand file-list window.

Refresh Tree (Ctrl+F5)

This will refresh the contents of the left-hand tree window. Note that you can refresh the contents of the selected branch by collapsing and re-expanding the branch.

Show/Hide Tree (F11)

This will hide or show the folder "tree". This is useful if you have located your folder and you are now doing lots of work in the one folder. The "tree" can be removed to give you more space. Note: The tree will always be visible at program startup, even if it was hidden when you closed the program.

Zoom (F8)

This allows you to launch a new window to edit the current text field. Space on the screen is limited, and some fields are small, so this option allows you to enter long text with ease. You can type text into the new window, in a larger font, and the text will then appear in the field on the main screen. The zoom window will also show the *recent entries* for the current text field. It can be opened also by clicking on :: in a control or with F8.

List

List > Reposition > Move Up, Down, Top, Bottom, Swap, Remove from List

Allows you to reposition/reorganize items in the file list, useful for renumbering.

List -> Apply Random Sort to Current List

This allows you to sort the file list in a random sequence. Useful if you want to create a slideshow in a random display-sequence. Once you've sorted in random order, apply a numeric auto-number prefix to keep the list in that order.

List -> Show Only Items Affected by Renaming Criteria

This feature in Bulk Rename Utility helps users focus specifically on files or folders that will undergo changes based on the current renaming criteria.

When you apply renaming criteria, this feature filters the file list to display only those items whose names will be modified by the current criteria if they are applied. Unaffected items will be hidden, simplifying the view.

Click the "Show Only Items Affected by Renaming Criteria" button on the toolbar or use the corresponding menu command.

If only one item or no items are selected in the file list, the feature will automatically select all items. It will then update the list to display only the items affected by the renaming criteria, hiding unaffected files and folders from view.

If multiple items are already selected, the feature will filter the selection to show only the items affected by the renaming criteria among the currently selected items.

To restore the full file list, use the Refresh button or press F5.

List -> Clear All Items from Current List

This allows you to clear all items from list (items are not deleted from disk, only cleared from Bulk Rename Utility file list)

List -> Clear All Non-Selected Items from Current List

This allows you to clear all items that are not currently selected from the list (items are not deleted from disk, only cleared from Bulk Rename Utility file list)

List -> Auto-Select All Items After Listing a Folder

Let all files and folders be selected automatically when the list of files/folders is built.

List -> Auto-Select All Items After Drag and Drop

Let all files and folders be selected automatically after they are dragged and dropped into the program.

Import Rename-Pairs (CSV)**Import Rename-Pairs from File (CSV)**

Import [rename pairs](#) from a file to be used for renaming (renaming from a text file, comma-separated values CSV).

Import Rename-Pairs from Clipboard

Import new name-old name [rename pairs from the clipboard](#) to be used for renaming.

View Imported Rename-Pairs

If you have imported [rename pairs](#) then this option will show the list of pairs imported.

Select Imported Rename-Pairs

If you have imported [rename pairs](#) then this option will select the imported rename pairs in the file list if they are matching.

Clear Imported Rename-Pairs

If you have imported [rename pairs](#) then this option will clear the list of pairs.
Normally the list would only be removed by loading a different list or by exiting the application.

Debug New Name

If you have a one (and only one) file or folder selected in the right-hand pane then this menu item becomes available. What this will do is display a simple dialog box which shows how the file's "new name" has been derived. This can help when you are using lots of the controls and boxes, and you aren't getting the end result that you are expecting.

Reset All Renaming Criteria (Ctrl+T)

This allows you to quickly reset all the renaming-criteria which are currently selected. Handy if you want to start from scratch. (This won't reset your file-selection and new-location items, groups 12 and 13).

Reset All Criteria to Last Saved (Ctrl+E)

Reverts all renaming criteria to the last saved status.

Preview (Ctrl+P)

Preview all the renaming actions, before actually renaming (name change, timestamp change, attribute change, etc). This is an alternative to pressing the PREVIEW button on the screen.

Rename (Ctrl+R)

Actually perform the rename. This is an alternative to pressing the RENAME button on the screen.

Undo Rename (Ctrl+Z)

If you have just performed a rename activity, and then said "oops..." then this is the option you need. This function will try to "undo" your last rename activity (including any timestamp and attribute changes you made). The files are processed in reverse order, so even if you renamed folders, and files within the folders, the full operation should be reversed successfully.

Create Undo Batch File (Ctrl+B)

Similar to *Undo Rename* above, this will allow you to create a DOS batch file which can be run from the command line, and which will reverse out your last renaming operation.

Display Options Menu

This menu contains a variety of options to customize the application appearance.

Always On Top

This will keep the Bulk Rename Utility window on top of all other windows.

List > ...

Highlight Name Changes: Highlight the detailed changes between new name and old name, e.g. additions, removals, etc.

Several options to customize the appearance of the file list: *Show Gridlines*, *Show Icons*, *Show File Sizes as*, *Show [Picture Viewer](#)*.

Select Columns: Select which columns to display in the file list.

Autofit All Columns: Automatically set the best width for all columns based on content.

Size All Columns to Width: Automatically set the best width for all columns based on their content and the available width of the file list.

Set Content of Custom Column: Set the content of the custom column, using an expression which can contain Windows File Properties tags, version 2 EXIF tags and Hash tags. For example, you can set the custom column to <(Title)> which would show the Windows File Property 'Title' for each file. For more info on the tags that can be used for the custom column, see [Using the Custom Column](#).

Expand File List (Ctrl+F9): Make the file list bigger by collapsing some renaming controls.

Maximize File List (F9): Make the file list as big as possible by collapsing most renaming controls.

Colours > ...

Several options to customize application highlight colours.

Font > ...

The font size used by Bulk Rename Utility can be selected to be bigger (zoom in) or smaller (zoom out). Select 'Reset' to reset the font size to its original size. The default system font is used unless the option is de-selected.

Enable the option 'Use Monospaced Font for List and Tree' to make sure that each character occupies the same amount of horizontal space in the file list and tree. This uniformity makes it easier to align text vertically.

Other > Hide Logo

Hide the Bulk Rename Utility logo on the main window.

Other > Move Logo to the Right

Move the Bulk Rename Utility logo on the main window to the right side.

Sorting > Logical Sorting

This option allows you to sort file names according to the default Windows sort-sequence. This allows files containing numbers to be sorted logically, e.g. 1.txt, 2.txt, 10.txt, 11.txt, 21.txt. The default sort-sequence for

all operating systems earlier than XP is to use absolute sorting, e.g. 1.txt, 10.txt, 11.txt, 2.txt, 21.txt.

Sorting > Group Affected Files

This option allows you to sort your file listing in the normal way, but with all "affected" files together (files with new name). Therefore, all files with "new names" will be sorted together, and all files which are not affected by your renaming criteria will be sorted together. When you click a column-heading to sort the files, all the files which are affected (normally shown in green) will be grouped together. Note that this does not apply to the Size, Date or Attributes columns. If this option is activated, after having selected some files/folders click on a column-heading to group the files with "new name" together.

Sorting > Sort Files and Folders Together

With this option selected, files and folders will be sorted together, intermingled according to their name. This differs from the normal Windows Explorer view, where folders are sorted together and then files are sorted together.

Detach Renaming Criteria

This option will show the renaming criteria in a [separate detached window](#) using multiple tabs that can be rearranged.

Renaming Options Menu

This menu contains a variety of options to customize the renaming behavior.

Retain Autonumber

If you are using an Autonumber in your renaming then this option will allow the last-used number to be retained. So for example if you start at 1 and rename 5 files, after the rename is complete the "start at" value will show 6. This is useful for renaming in lots of batches but keeping the numbers contiguous.

Rename in Reverse Order (Advanced Option)

Normally files are renamed from top to bottom, e.g. the first item in the list followed the second item etc. But this can cause you problems if files already exist. Let's say you want to rename 1.txt to 2.txt, 2.txt to 3.txt, and 3.txt to 4.txt. Normally the first rename (1.txt to 2.txt) would fail because 2.txt already exists. This option will overcome this, as the files will be processed in reverse order. This option is only required on rare occasions.

Prevent Duplicates

This option allows you to overcome the situation whereby a rename would fail because a file with the same name already exists. If you try to rename a file, and there's already a file with the same name, the software will make a subsequent attempt to rename the file but with a "_1" suffix. If this fails, it will try with "_2" as the suffix, and will continue up to "_99". The limit of 99, and the separator character (underscore, _) are used by default.

You can change the default format that is used to prevent duplicates. To change the format, enable the option *Prevent Duplicates*. A message will be shown that the option is now enabled, and clicking on "Change Format" will open a further dialog where you can [specify the format string](#). You can also set the duplicate counter to *Start From 1*, and you can prevent duplicates across folders.

Link Files By Extension

This option allows you to link files by extension, where you specify a Master file extension and one or more Linked file extensions. Once linked, the file names with the master file extensions will dictate how files with the linked file extensions are renamed. See [Link Files by Extension](#).

Advanced Options > Allow Using '\' in Renaming Criteria for Creation of New Folders (Advanced Option)

Use this option with caution. This option can create new folders during renaming and can not be undone. With this option selected, if the new resulting file name contains a \, then a new folder is created, instead of just considering the file name invalid. So for example, if you had a file called a.txt and your renaming-criteria caused the file name a.txt to become 20190801\a.txt, then a new folder 20190801\ is created and the file a.txt is moved in there. This is called 'folderize'. Using this option, you can reorganize files into folders based on their timestamps, for instance.

Before using this option it is recommended to backup your files

Advanced Options > Overwrite / Delete Existing Files (Advanced Option)

Use this option with caution. This option can delete files and can not be undone. With this option selected, if the destination file name for a rename operation already exists, that file will be overwritten / deleted. So for example, if you had files called a.txt, b.txt and c.txt, and your renaming-criteria caused file a.txt to become c.txt, file c.txt will be overwritten. As such, you need to use this option with extreme caution - if you enter incorrect renaming criteria then you could overwrite valuable existing files. This option is also applicable if you choose to copy files to a New Location (box 13 on the screen).

Before using this option it is recommended to backup your files or copy the files to a new empty location (box 13 on the screen).

Advanced Options > Skip Renaming of File If File Name Already Exists

When this option is enabled, Bulk Rename Utility will automatically skip the renaming of a file if the file name already exists in the same folder.

ID3 / Exif Data / File Properties > Extract Exif Data

Use this option to control whether or not EXIF tags will be extracted from photographs. At present only *Date Taken*, *Aperture*, *Exposure*, *Focal Length*, *Exposure Compensation*, *Comments*, *Camera Model* and *Camera Make* are extracted, but even this can slow down the processing. If you don't need these fields then leave this option unchecked to speed up the processing. Only files with the following extensions are processed: .JPG, .JPEG, .TIF, .TIFF, .CRW, .CR2, .NEF.

ID3 / Exif Data / File Properties > Extract ID3 Data

Use this option to control whether or not ID3 (Version 1) tags will be extracted from MP3 files. At present only *Artist*, *Album* and *Title* are extracted, but even this can slow down the processing. If you don't need these fields then leave this option unchecked to speed up the processing.

ID3 / Exif Data / File Properties > Extract Windows File Properties

Use this option to enable the use of [Windows File Properties](#) tags during renaming.

File/Folder Extensions > Rename File Extensions as Being Part of the File Name

With this option selected, the file name extensions will be ignored and your renaming operations will always affect the entire file name. Use this option with great care, as Windows relies on the file name extension to decide what to do with a file.

File/Folder Extensions > Rename Folder Extensions as Being Part of the Folder Name

With this option selected, any "extensions" within folder names will be ignored - this is because folder extensions have no real meaning, unlike file name extensions which identify the file type. So for example, if you have a folder called "Holidays.2004" and you choose to remove the last 2 characters, the resulting folder name will be "Holidays.20" or "Holid.2004", depending upon the status of this option.

Log Renaming Activity to a File (Ctrl+L)

Use this option to record a log of all your renaming activity (including undo requests). By default, the log file will be created in the *Documents* folder with a .log file extension. Please note that only renaming activity is logged, not changes to attributes or timestamps.

After enabling this option, using the menu "*Enable Logging to File*", the log file location will be shown, which you can change. You can also select "*View Log File*" from the menu to open and view the log file contents. To change log file location after it has been set, disable the option "*Enable Logging to File*" and then re-enable.

Show Warning Message Before Renaming

This option allows you to control whether or not you are warned prior to renaming files.

Show Confirmation Message After Renaming

This option allows you to control whether or not a confirmation message is shown after renaming is complete.

Confirm Each Renaming Operation Individually

This option allows you to control whether or not each renaming operation is to be confirmed individually with "Yes", "Yes to All", "No", "Cancel".

Special Menu

Change Renaming Criteria Order

Open the [Change Renaming Order](#) settings.

Change File Attributes

Open the [Change File Attributes](#) settings.

Change File Attributes

Open the [Change File Attributes](#) settings.

Change File Timestamps

Open the [Change File Timestamps](#) settings.

Change Character Translations

Open the [Character Translations](#) settings.

Change Javascript Renaming

Open the [Javascript Renaming](#) settings.

Javascript Libraries ...

Include sugar.js : make the library [sugar.js](#) available to Bulk Rename Utility Javascript code.

Include date.js : make the library [date.js](#) available to Bulk Rename Utility Javascript code.

Context Menu

If you **right-click** an item in the right-hand window (e.g. a file or a folder) you will be presented with a Context menu (or "Shell" menu). You will see the standard Windows context menu (with options to Edit, Delete, Copy etc.), with many additional menu options in a new "*Clipboard Copy*" menu. The "Clipboard Copy" menu items allow you to copy / export various pieces of information, such as the file name or folder path, to the Windows clipboard. You can also use Ctrl+C to copy ALL the columns for all the selected files to the clipboard, including the 'New Name' column.

Additional menu items:

- *Open Containing Folder* (for the selected file) (Alt+Q).
- *Show List of File Properties* (for the selected file) (Alt+P).
- *Show EXIF info (.JPG files)* (for the selected file) (Alt+X).
- *Set New Names from Clipboard* (for the selected files) (Alt+N). [See Details](#)
- *Reposition* (move item up, down, top, bottom, swap, delete from list)

Note:

- 1.If you perform an operation on a file/folder using the Shell menu which changes the name of that file, or deletes the file, then this is not automatically reflected in Bulk Rename Utility. This avoids unnecessary rebuilding of the file listing.
- 2.If you are using the "sub-folders" option, and you select multiple files which span two or more folders, then the right-click context menu might give unpredictable results.

Saving Your Settings

When you quit the application, your current settings (menu choices etc.) will be stored in a .INI file in the same folder as the executable program. As Bulk Rename Utility doesn't require an Installer this makes it quite useful as a utility on a "memory stick" or a "Tools CD".

If you need two sets of preferences with different values then create two copies of the executable with different names, and you'll get two INI files.

Using Favourites

A Favourite is a collection of configuration values which can be used to provide quick access to commonly-used criteria. For example, if you frequently want to rename a bunch of pictures in one folder, and you frequently want to rename a bunch of sound files in another folder, then you could create two Favourites called Pictures and Sound Files. Each Favourite holds with it the selection criteria, rename criteria, and current folder.

When you launch the application for the first time you will not have any Favourites defined, but you can create favourites in the same way as you would create text files or pictures. Store them anywhere on your hard drive and use them as you wish.

Each individual Favourites file contains all the criteria you used to rename files. So for example, you could create a Favourite for renaming your pictures; a Favourite for stripping dodgy characters out of filenames etc. You can then recall these Favourites whenever you need them.

To use favourites, just use the **Open** and **Save/Save As** menu options in the same way as you would do in Word or Excel and other programs. When you choose to save a favourite, all the settings currently in place will be saved into that favourite. You can then recall these quickly, either from the *Open* command or by double-clicking a Favourite file in Windows Explorer. Favourites files have the file extension `.bru`.

If you have loaded a Favourite and made changes to it, but wish to revert back to the original version, then choose *Revert all criteria to last saved* in the *Actions* menu.



In the *File Menu* -> *Favourites*, there are two options related to saving favourites (`.bru` file):

- **Auto Save On Exit:** This option instructs Bulk Rename Utility to automatically save all latest settings to the currently open favourite file when closing the application.
- **Store Pathname and Refresh File List on Open:** This option instructs Bulk Rename Utility to save and then restore the current path in the favourite file when opening it.



_autoload.bru file: This is a special file that is auto-loaded on '[Drag and Drop](#)' or [Bulk Rename Here](#) if this file is present in the same folder as the files. This allows you to have different `.bru` files automatically when selecting files from File Explorer in different folders.

Picture Viewer

Bulk Rename Utility allows you to display a preview window, which will show the picture for the currently selected file. Only certain file-types are supported, these being jpeg (JPG), bitmap (BMP), Icons (ICO), WIndows Metafiles (WMF), Portable Network Graphics (PNG), Scalable Vector Graphics (SVG), Tag Image File Format (TIF) and Compuserve Graphical Interchange Format (GIF).

In addition, you can only display the picture for a single file; if you select multiple files, then no preview will be displayed.

→ Click on the picture in the Picture Viewer to resize it.

Bulk Rename Here

When you install Bulk Rename Utility, you have the option to enable the "Context" menu integration.. If you choose this option (recommended), a new **Bulk Rename Here** option will appear when you right-click on a file or folder in Windows File Explorer. Selecting this option will launch Bulk Rename Utility and automatically select the folder or files you right-clicked on (or the parent folder if you right-clicked on a file). This provides quick and convenient access to the utility.

Bulk Rename Utility adds the following commands to the Windows File Explorer context menu::

Bulk Rename Here:

this command can be used on multiple files or a folder. It will open Bulk Rename Utility with the selected files and the parent folder fully scanned. Files might be resorted according to the sorting options within Bulk Rename Utility. If a favourite file (.bru) was recently used, it will be automatically loaded.

Bulk Rename Selected Items:

This command can also be used on multiple files or a folder. It will open Bulk Rename Utility with only the selected files, preserving the same order as in Windows File Explorer. If a favourite file (.bru) was recently used, it will be automatically loaded.

Note: You can select up to a maximum of fifty thousand items at one time.

If you are using the Favourites feature and have enabled the option to automatically save Favourites upon exit (Auto Save on Exit), please note that the folder name stored in the favourite will be updated to match the folder you right-clicked on.

For performance reasons, when using the *Bulk Rename Here* right-click function, the *Sub-folders* option will be disabled, regardless of its saved setting. This prevents unintentional recursive directory searches, such as when selecting a high-level folder (e.g., C:\). The note regarding [Favourites](#) above also applies here.

➞ **Maintaining Item Order:** When selecting multiple items, if you want to preserve their order in Bulk Rename Utility, make sure you right-click on the first item after selecting all desired files, then choose the relevant menu option.

➞ **_autoload.bru file:** This is a special file that is automatically loaded when using '[Drag and Drop](#)' or [Bulk Rename Here](#), provided the file exists in the same folder as the selected files. This allows you to have different .bru files automatically loaded in different folders.

Drag and Drop from Explorer

You can drag files and folders directly from within Windows Explorer. This means you can select files from anywhere on your computer and aggregate them all together, allowing you to rename them in a single operation.

To perform this task, launch Bulk Rename Utility in the normal way. Then launch Windows Explorer (or My Computer), and find the files or folders that you wish to process. Select all the files/folders and drag them over the Bulk Rename Utility "file list" window (you should see the icon change). Then let go of the mouse, and the files will be listed.

As this function is available for ANY Explorer window, you can even use the inbuilt Windows "Find" facility to find files on your computer (for example, all your Word documents) and then drag the files directly from the Search Results window.

It's important to note that when you drag the files/folders across, you are NOT performing any operations on those files. You have not moved those files! You are simply displaying them in the Bulk Rename Utility window for subsequent processing.

➞ Note that any files/folders you drag on the window will be added at the bottom of the list of files/folders already there.

If you instead wish to show ONLY the items you are dragging, then simply hold down the **CTRL key** while dragging.

➞ If you want all dragged items to be automatically selected for renaming, enable the option **List -> Auto-Select All Items After Drag and Drop** in the [Actions Menu](#).

➞ **Maintaining Item Order:** When selecting multiple items, if you want to preserve their order in Bulk Rename Utility, make sure you start dragging from the first item after selecting all the desired files.

➞ **_autoload.bru file:** This is a special file that is automatically loaded when using '[Drag and Drop](#)' or [Bulk Rename Here](#), provided the file exists in the same folder as the selected files. This allows you to have different .bru files automatically loaded in different folders.

Single File Quick Rename

If you want to quickly rename a file or folder manually, without applying any criteria, you can press **F2** or double-click while the filename is selected to edit it.

Simply press the ENTER key without making any changes, to cancel the operation, or press ESC. If you rename a folder and are in [recursive](#) mode, then the file list will be rebuilt.

During a manual rename, **Tab** and **Shift+Tab** function as they do in Windows File Explorer for consistency:

- **Tab** completes the manual rename and initiates a manual rename operation on the next item in the list.
- **Shift+Tab** completes the manual rename and initiates a manual rename operation on the previous item in the list.

Press **ENTER** to complete and apply the manual rename.

General Program Preferences

The general program preferences are accessible from the Main Menu -> Tools or by pressing Ctrl+F12.

The following preferences are available:

General

Allow multiple instances of Bulk Rename Utility to run at the same time: Yes / No.

By default, only one instance of Bulk Rename Utility can be running.

Auto load the '_autoload.bru' file if present in a directory on drag and drop or on "Bulk Rename Here": Yes / No.

If enabled (Yes), the _autoload.bru file will automatically load when performing a 'Drag and Drop' or using the Bulk Rename Here option, provided the file exists in the same folder as the selected files.

This feature allows you to have different .bru files automatically loaded for different folders, streamlining the renaming process.

Clear all items already in the list on "Bulk Rename Selected Items" from Windows File Explorer: Yes / No.

If enabled (Yes), all existing items in the Bulk Rename Utility list will be cleared when Bulk Rename Selected Items is selected from Windows File Explorer.

By default, this option is set to Yes, ensuring a clean list whenever you use the Bulk Rename Selected Items command. Set to No to add files to the existing list.

Ask to refresh the folder tree if a new drive is detected: Yes / No.

If enabled (Yes), Bulk Rename Utility will prompt you to refresh and update the folder tree whenever a new drive is detected.

This feature ensures that the folder tree stays up-to-date with any newly added drives.

When the Enter key is pressed while on items in the file list: Enter the rename edit mode / Open the file(s) with default app.

Up to 9 files can be opened in their default app at the same time.

At startup, recall the last used criteria if no favorite file (.bru) is active, instead of starting with blank criteria: Yes / No.

This feature in Bulk Rename Utility provides a convenient way to streamline workflows by determining how renaming criteria are handled when the application starts.

When enabled (Yes), the utility will automatically recall and load the last renaming criteria you used during the previous session. This happens only if no favorite file (a .bru file, which stores predefined criteria) is active.

It allows users to continue where they left off without reconfiguring the criteria from scratch.

When disabled (No), the utility will start with blank renaming criteria, requiring users to manually define new criteria or load a favorite file to proceed.

Automatically save the used renaming criteria to the recent entries when renaming is performed: Yes /

No.

This option in Bulk Rename Utility determines whether the renaming criteria you use during a renaming operation are automatically added to the Recent Entries list for easy access later. Here's a detailed explanation:

When set to Yes, after performing a renaming operation, the criteria you used (e.g., Replace, Add, Numbering options, etc.) are automatically saved to the Recent Entries list.

These saved entries can be quickly accessed and reused for future renaming tasks, reducing the need to recreate the same criteria manually.

When set to No, the renaming criteria are not automatically saved to the Recent Entries list.

Display

Dark Mode: Same as Windows / Yes / No.

Dark mode support on versions of Windows before Windows 10 is limited.

Apply Windows Themes: Yes / No.

Apply default Windows themes. Yes by default. Can be set to No to disable all Windows themes, like in Bulk Rename Utility version 3.4 or earlier.

Bulk Rename Utility logo on the main window: Show / Hide.

Bulk Rename Utility logo type: Default or Custom (bru.bmp, bru.png or bru.svg)

When a custom image is selected, Bulk Rename Utility will load the logo shown on the main window from the file bru.bmp. If that fails, it will then try bru.png or bru.svg. If that also fails, it will revert to the default image. The best size for the image is 579x100 pixels. The image file has to be in the same folder as the file 'Bulk Rename Utility.exe'

Updates

Ask to check for program updates every 30 days: Yes / No.

Additional Features

Custom Date Formats

You can append a variety of dates to the file names, either at the beginning or the end. For example, you could prefix the file names with their *Modified* date, or you could suffix them with the *Creation Date*. [See section 'Auto Date \(8\)'](#).

A new feature, introduced in version 2, is the ability to add date and time information in a very flexible manner, using standard formatting codes. The full list of codes is defined below. So for example, if you wanted to suffix the file name with the day name and the month name you could enter a custom code of "%a %b".

The full list of codes is:

Code	Meaning
%a	Abbreviated weekday name
%A	Full Weekday name
%b	Abbreviated month name
%B	Full month name
%d	Day of Month (01-31)
%H	Hour in 24-hour format (00-23)
%I	Hour in 12-hour format (01-12)
%j	Day of Year (01-366)
%m	Month number (01-12)
%M	Minute (00-59)
%p	AM/PM Indicator
%S	Seconds (00-59)
%U	Week number of year (00-53), with Sunday as the first day of the week.
%w	Weekday (0-6), with Sunday=0.
%W	Week number of year (00-53), with Monday as the first day of the week.
%y	Year, with no century indicator (00-99)
%Y	Year, with century indicator (e.g. 2004)
%z	Time zone name
%%	Percentage sign

Capitalization

Use |U at the start of the custom date format to upper case the Auto Date (8). Use |L to lower case it. For example, |U%d-%b-%Y would result in 14-JUN-2024 instead of 14-Jun-2024, while |L%d-%b-%Y would result in 14-jun-2024 instead of 14-Jun-2024.

Other Text

You can enter other text in the file name, and the symbols above will be substituted with the values. So, you could enter a custom value of "Created on %a, %d %B, %Y" to get "Created on Tuesday, 25th March, 2004".

Recursive Scans

It is possible to perform a recursive scan and rename from the current folder. This allows you to rename folders and files contained within any subdirectories from the current folder. Subdirectories of subdirectories are also scanned, right down to the lowest level. To do this, enable the [Subfolders option of Selection \(12\)](#).

This option needs to be treated with great care - if you scan a high-level folder such as C:\ or C:\Program Files then the program could have tens of thousands of files to scan. Whilst the system should cope with in excess of 250,000 files, it will take a long time for the file list to be displayed.

As such, it is recommended that you only use the [Subfolders Option of Selection \(12\)](#) only if you really need it.

Please note that, if you rename a folder whilst using the recursive option, after the rename is complete the file list will be refreshed automatically. This is to prevent problems whereby the file-list becomes out of synchronization with the files on your hard drive. If you don't rename a folder (just files), or if you rename anything whilst not using the recursive option, then no refresh is necessary.

Renaming From A Text File (CSV)

With Bulk Rename Utility it is possible to rename files according to a text file. The text file should contain a list of "old name" and "new name" pairs, separated by a pipe symbol (|) or a comma (,). Bulk Rename Utility will read ANSI and Unicode (UTF-16) text files. Starting from version 3.5, Bulk Rename Utility can also read UTF-8 encoded files, e.g. CSV files from Excel.

To use this facility, create a text file in for the correct format, for example:

```
Track001.mp3|Headlong.mp3
Track002.mp3|Rushes.mp3
TRACK003.mp3|AnywhereIs.mp3
```

or use comma separated (CSV)

```
Track001.mp3,Headlong.mp3
Track002.mp3,Rushes.mp3
TRACK003.mp3,AnywhereIs.mp3
```

One entry per line.

Next, click the *Import Rename-Pairs* on the *Actions* menu and select your file. If the file is valid, then select all the files to rename and you will see the "new name" column reflecting the contents of the text file.

When comparing the current filename with the text file, the application ignores the *case* of the filename, e.g. it will match Track001.mp3 and TRACK001.mp3. This makes it easy to rename the files.

Click on "Rename Pairs Imported" to show the list of imported renaming pairs.

Specifying Full Paths

You can also specify *full paths*, such as c:\folder\track1.mp3, in the first column for the old file names. Then Bulk Rename Utility will match these names against the full path and not just the file name. Partial / relative paths are not supported.

Text File Requirements

Bulk Rename Utility will read ANSI and Unicode (UTF-16) text files. Starting from version 3.5, Bulk Rename Utility can also read UTF-8 encoded files, e.g. CSV files from Excel. Only files with CR LF (Windows) or LF (Unix) line endings are supported.

Names with Comma

If a name contains a comma, it must be enclosed in double quotes. This quoting prevents the comma from being interpreted as a field separator, for example:
"Track,001.mp3","Bob,1.mp3"

Extensions

The full file name + extension is matched, not just the file name.

Note: You can **view** all the imported rename-pairs by selecting '[View Imported Rename-Pairs](#)' from the Bulk Rename Utility menu or by clicking on "*Rename Pairs Imported*" on the main window.

If you hover the mouse pointer on "*Rename Pairs Imported*", Bulk Rename Utility will show the current imported file path as a tool tip.

Renaming Using The Clipboard

With Bulk Rename Utility, it is possible to rename multiple files according to the content of the Windows Clipboard.

There are two separate ways to do this:

Method 1

Right-click on objects in the *file list* and select "**Set New Names from Clipboard**" from the menu (shortcut **Alt+N**).

Bulk Rename Utility expects the clipboard to contain a list of file names, such as:

```
FileName1  
FileName2  
FileName3  
FileName4
```

with each name is on a separate line.

Bulk Rename Utility will use this list to apply the new file name to the current selection.

FileName1 will be applied to the first selected element, and so on.

If more elements are selected than there are items in the clipboard, the names are repeated.

The clipboard content can be copied from a spreadsheet, a Word document, generic text, or from Windows File Explorer using Ctrl+C.

Method 2

From the main menu, select the [Action menu](#), then choose *Import Rename-Pairs (CSV)*, and finally **Import Rename-Pairs from Clipboard** (shortcut **Ctrl+Alt+C**).

Bulk Rename Utility expects the clipboard to contain a list of old name and new name pairs:

```
FileNameOld1,FileNameNew 1  
FileNameOld2,FileNameNew 2  
FileNameOld3,FileNameNew 3  
FileNameOld4,FileNameNew 4
```

where each old name-new name pair is on a separate line.

The format is the same as for [Renaming From A Text File \(CSV\)](#); both commas and pipes (|) are supported as separators between the old name and new name.

Also, a tab is supported as a separator, so you can select two columns in an Excel spreadsheet with old name and new name, for example, and copy them into the clipboard with Ctrl+C, and then import that information into Bulk Rename Utility using Import Rename-Pairs from Clipboard.

The content of the clipboard will be imported, and you can then select the files in Bulk Rename Utility to rename them according to the imported list, in the same manner as [Renaming From A Text File \(CSV\)](#).

Regular Expressions

Bulk Rename Utility supports powerful Regular Expression processing. This allows you to enter a flexible Match expression, and a flexible Replacement expression, and the program will generate the appropriate name using these expressions. For example, you can use match and replace strings to swap two words in a filename, or remove numbers, or apply fixed formatting.

A full description of Regular Expressions is beyond the scope of this help file, but a wide range of resources is available on the internet.

However, the syntax supported by Bulk Rename Utility is the same as that offered by PERL 5. The precise implementation is via the [PCRE Library](#), and full notes on the Perl Regular Expression syntax can be found [here](#).

We also have a section on our forum dedicated to [Renaming Files using Regular Expressions](#).

Note: The default Regular Expressions supported by Bulk Rename Utility are based on PCRE not on the newer PCRE2 library. To support version 2 of the Regular Expressions, enable the option '**v2**'. This will enable support for [Regular Expressions Version 2](#), which is based on the Boost RegEx and fully supports Perl Regular Expression to the latest version, ECMAScript and JavaScript. There is also the option 'Simple' available to support a [simple basic format](#) for file name replacements, please see below for more info.

A quick summary of the syntax is:

Character	Usage
*	Matches the previous character zero or more times
+	Matches the previous character one or more times
?	Matches the previous character zero or one times
.	Matches any single character except the newline
^	Matches the start of the input
\$	Matches the end of the input
x y	Matches either first or second character listed
(pattern)	Matches pattern
{number}	Matches exactly number times
{number,}	Matches number, or more, times (note comma)
{num1, num2}	Matches at least num1 and at most num2 times
[abc]	Matches any character listed between the []
[^abc]	Matches all characters except those listed between the []
[a-e]	Matches any characters in the specified range (a,b,c,d,e)
[^K-Q]	Matches all characters except in the specified range
\	Signifies that the next character is special or a literal.
\b	Matches only on a word boundary
\B	Matches only inside a word
\f	Matches only on a form feed character
\n	Matches only on a new line
\r	Matches only on a carriage return

\s	Matches only on a blank space
\S	Matches only on nonblank spaces
\t	Matches only on a tab
\d	Matches any digit

Replacements are usually performed on the basis of "components, and these are defined using \ notation, e.g. \1 matches the first element, \2 matches the second

Example Regular Expression:

Match: (Louis Armstrong)(.[0-9].)([A-Za-z]*)
 Replace: \1 \3

EXAMPLE:

Assume you have a file called [Program Files](#), and you wish to swap the names around (e.g. [Files Program](#)). A Regular Expression which performs this task is :

^([A-Z][a-z]*) ([A-Z][a-z]*)

Let us break this down into components:

^ This means start at the beginning of the string

([A-Z][a-z]*) This is a single "group", which we will use later. What this says is that we want any capital letter, followed by any number of lower-case letters. The single capital letter is denoted by the **[A-Z]**, i.e. allow a letter in the range A to Z. The lower-case letters are denoted by **[a-z]** in the same way, followed by an asterisk. This means we can allow any number of letters.

We then allow a single space. If I had wanted multiple spaces I would probably have typed "space asterisk", or possible (*) to group.

We then have exactly the same again, i.e. we are denoting two words.

Notice we had two sets of brackets. Everything within each set of brackets is treated as a "grouping", and we refer to these groupings as **\1**, **\2**, **\3** etc.

So, lets say we wanted to swap around the two words in the filename. We would put:

^([A-Z][a-z]*) ([A-Z][a-z]*)

For the match string, and

\2 \1

As the replacement string. Of course, we're free to manipulate the replacements string as we like. For example, it would be quite valid to have:

The \2 which are used to run the \1

For the replacement string. This would result in:

The *Files* which are used to run the *Program*.

The above example is very precise. If we wanted to swap the first two words of a name, but keep the remaining text the same, we could put

```
^([A-Z][a-z]*) ([A-Z][a-z]*)(.*)
```

```
\2\1\3
```

This says to create three groups: the first group is the first word, the second group is the second word, and the third group is everything that's left.

REGULAR EXPRESSIONS (VERSION 2)

Bulk Rename Utility 3.4 introduces Regular Expressions version 2, which can be enabled by switching on the option **v2** in group RegEx (1).

Version 2 Regular Expressions support additional syntax and are fully compliant with the latest [Perl Regular Expressions](#).

v2 Regular Expressions are based on the [Boost library syntax](#) and they support Modifiers, Branch Reset, Lookahead, Lookbehind, Conditional Expressions and more.

v2 replace syntax is documented here [Replace Format String Syntax](#).

Two Regular Expression modifiers are also supported under version 2:

- **/i** makes the regular expression case-insensitive
- **/g** globally matches the pattern repeatedly in the string and does not stop at the first match.

For instance:

Match : (\w)/g

Replace: \L\$1

will replace ALL upper-case to lower-case with v2 Regular Expressions.

Note that in v2 the unmatched text is copied to the output, unlike in the default regular expressions.

SIMPLE REGULAR EXPRESSIONS

Bulk Rename Utility 3.4 introduces Simple Regular Expressions, which can be enabled by switching on the option **Simple** in group RegEx (1).

Simple regular expressions work by matching text and then removing or rearranging the matched text.

The syntax is very simple, up to 9 matching tags can be used %1, %2, %3 until %9, which match a string of text. Examples:

Match: %1-%2

Replace: %2-%1

It will match first a string of text with %1 then the character '-' and then another string of text. It will then replace it with the second string of matched text, the character '-' and the first string of text matched. Effectively it will switch text around the character '-'.

Match: %1(%2)

Replace: %2

It will match first a string of text with %1 then a '(' and then another string of text followed by ')'. It will then replace it with the second string of matched text and the rest is dropped.

Match: %1-%2-%3 %4

Replace: %3-%2-%1 %4

It will match and reorder text such as '2020-03-12 Boston' into '12-03-2020 Boston'.

Match: %1%2%3%4

Replace: ABC%4

Replaces the first 3 characters with 'ABC'.

Up to 9 matching tags can be used : %1, %2, %3 until %9.

There are also 5 additional modifiers that can be used in the Replace string when **Simple** is used. These 5 modifiers are the same modifiers as when **Simple** is not used:

\U : Causes all subsequent characters to be output in upper case, until a \E is found.

\L : Causes all subsequent characters to be output in lower case, until a \E is found.

\E : Terminates a \L or \U sequence.

\l : Causes the next character to be outputted, to be output in lower case.

\u : Causes the next character to be outputted, to be output in upper case.

Examples:

Match: %1

Replace: \U%1

Capitalizes the name because %1 matches the whole name and \U%1 capitalizes it.

Match: %1_%2

Replace: \U%1\E_%2

Capitalizes the part of the name before _.

Match: %1_%2

Replace: \U%1\E_\L%2

Capitalizes the part of the name before _ and lowercases the part of the name after _.

Match: %1%2%3%4

Replace: \L%1%2%3\E%4


Lowercases the first 3 characters of a name.

SPECIFYING MULTIPLE REGULAR EXPRESSIONS USING THE (?X) SEPARATOR

Bulk Rename Utility 3.4 introduces the ability to specify multiple Regular Expressions in group RegEx (1).

Only v2 Regular Expressions and Simple Regular Expressions do support multiple regular expressions.

Multiple Regular Expressions can be specified by separating them with the separator (?X).

NOTE: Click on  to open the multiple RegEx editor, where you can enter multiple Match and Replace pairs.

For example:

Match: (S)(?X)(P)

Replace: A(?X)R

will run two Regular Expression match and replace, first:

Match: (S)

Replace: A

and then:

Match: (P)

Replace: R

If only one expression is used in the Replace field, then it is used for both matches:

Match: (S)(?X)(P)

Replace: A

will run two matches, first:

Match: (S)

Replace: A

and then:

Match: (P)

Replace: A

If you need to use (?X) in the regular expression itself and not as a separator, you can escape it with \

Match: (S)\\(?X)(P)

Replace: A

will run only one match:

Match: (S)\\(?X)(P)

Replace: A

Change Renaming Order

You can change the order in which the renaming criteria are processed instead of the default from 1 to 14. This will allow you to add a counter before processing a regular expression, for example, or add text before replacing.

Click on **Order** in *Special (14)* to change the default order.

The new settings will also be stored in the .bru file if you are saving your renaming criteria to a file.

The position of the [Name Segment](#) action can also be changed in the order.

Changing File Attributes

Bulk Rename Utility allows you to change the attributes of files and folders once they have been renamed. This can be useful if you wish to flag all renamed files/folders as requiring archiving, or if you want to hide all the renamed files/folders. As well as making a file read-only, hidden etc., you can also clear the same flags.

For each of the file attributes you can choose to **set** the attribute, **clear** the attribute, or **leave** it unchanged.

If you are updating the file's attributes information, this will be reflected in the application main window, as the attribute field will be colored in the file list.

Note

If you set the *Hidden* or *System* attribute for a file, it will disappear from the main window upon renaming if you do not have *Hidden* or *System* options ticked in the [Filters group \(group 12\)](#).

Changing File Timestamps

Bulk Rename Utility allows you to change the timestamp information for files and folders once you have renamed them. This is useful if you have certain applications which use a file's timestamp in order to identify if a file has been modified, or if you want to sort photographs in a particular sequence. Some older applications even use the timestamp to identify a product version.

You can choose a new date and timestamp for the *Created Date*, *Modified Date* and *Accessed Date*, and they are independent of each other. You can also choose a value of "Current" which will use the current date and time at the time of renaming.

You can also apply a delta. This is a value in days, followed by HH:MM:SS, and this value will be added (or subtracted) from the timestamp. So for example, if you rely upon timestamps and you realize your computer's clock is wrong, you can use this facility to batch-correct the timestamps. n.b. This will NOT update the "date taken" information held within a picture file.

If you are updating the file's timestamp information, this will be reflected in the application main window, as the appropriate date field will be colored in the file list.

If you would like to set the Modified and Accessed timestamps to be the same as the Created timestamp then choose the *Created* option.

Note that the Date Taken (Original) is the *Date Time Original* EXIF flag. If that information is not available, for example for video files or some image formats, then the file 'Item Date' is used instead from the Windows File Properties.

You can also use the option *Exif Date Taken (Original) / Item Date set* to change the value of the Exif Date Taken to the file Created Timestamp or Modified Timestamp.

Character Translations

Character Translations allows you to enter a specific character or sequence of characters, and have that translated into a different character or sequence of characters. So for example, you could specify that you always want a \$ sign to be converted into the word DOLLAR.

There are three ways to enter the replacement data:

- 1.As a character, e.g. A
- 2.As a hex value, e.g. 0F
- 3.As a decimal value, e.g. 065

Separate the FROM and the TO conversions with an equals sign (=). If you wish to actually convert an equals sign to/from something else then you can specify the hex or decimal value for the equals sign in your rules.

Bulk Rename Utility identifies the type of value entered by its length. So if your value is one character long then it's a direct character; two characters long and its a hex value; three characters long and its a decimal value.

In the following examples, every example is converting a capital "A" to a capital "B"

- A=B (direct expression of the characters to convert)
- 41=42 (two character long, therefore hex values)
- 065=066 (three characters long, therefore decimal values)
- A=066 (using a mixture of the above)
- 41=066 (using a mixture of the above)

If you wish to to convert several characters then you can separate the values by commas. So the following example will convert ABC to DEF:

- 41,066,C=D,E,070

If you wish to actually convert a comma sign to/from something else then you can specify the hex or decimal value for the comma sign in your rules.

Learn more on our website : [Character Translations HowTo](#)

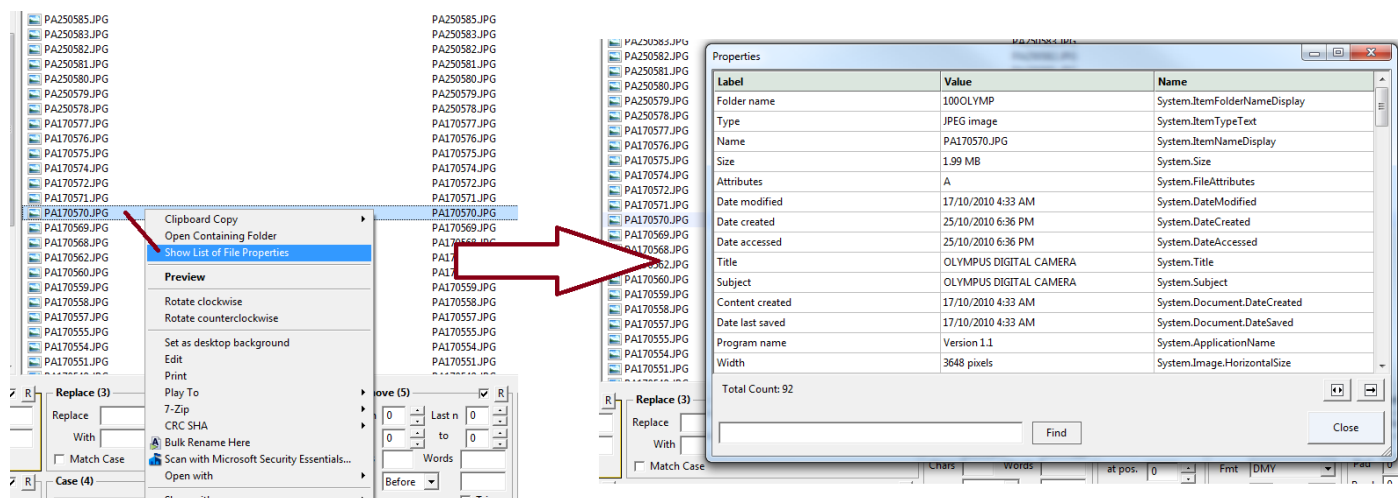
Using Windows File Properties to Rename Files

With Bulk Rename Utility you can read and use the Windows File Properties to rename your files. More information on the Windows Property System that can be set on Windows files can be found here: <https://docs.microsoft.com/en-us/windows/win32/properties/props>

Windows File Properties are only available on *Windows Vista or newer*.

*** To enable Windows File Properties tags support in Bulk Rename Utility, activate the option 'Extract Windows File Properties' from the [Renaming menu](#).

To show a list of all available file properties, for a file or a file type, in Bulk Rename Utility, right-click on a file in the main file list and select 'Show List of File Properties' from the popup context menu. See image below.



Alternatively, you can also see the file properties of a file in Windows Explorer: right-click on a file and select "Properties" and then "Details".

Each file property has three entries: a LABEL, a VALUE and a NAME. You can select a file property by LABEL or by NAME and then use its VALUE to rename a file.

Using File Properties in Add (7), RegEx (1) and Replace (3)

You can use the file properties in **Add(7)**, **RegEx (1)** and **Replace (3)** as tags. To enable Windows File Properties tags support in Bulk Rename Utility, activate the option 'Extract Windows File Properties' from the [Renaming menu](#).

To use a file property, specify the file property like this: <(propertylabel)> or <(propertyname)>. The tag will be replaced by the property value for that property.

For instance :

Prefix : <(System.Photo.CameraManufacturer)> might add "OLYMPUS" as a prefix.

Suffix : <(System.Image.HorizontalSize)> might add "3648 pixels" as a suffix.

Prefix : <(Title)> might add the file title as a prefix.

The file properties can be referred to by Label or Name. They can be used in Add(7) -> Prefix, Suffix, Insert.

The file properties can also be used in RegEx(1) -> Replace and Replace(3) -> With.

IMPORTANT: You can also specify some extra characters in the property < > tag. For instance, "<(Subject) - >" will add the *Subject* and the - , but only if the *subject* is not empty. If (*Subject*) is empty, the whole tag < > will be empty. This is different from using "<(subject)> -". In this case - will always be added even if the file does not have a subject.

File Properties as Dates and Numbers

If you want to add a file property to a file name as a date or as a number, use the property formatting markers.

will format a property as a number. If a file property value has numbers and letters, the letters will be ignored.

\$ will format a property as a date, according to the date and time formatting options as specified in Auto-Date (8).

For instance :

Prefix : <(\$System.Photo.DateTaken) - > will add the date taken as prefix followed by - , formatted according to values in Auto-Date (8).

Suffix : < - (#ISO speed)> might add " - 100" as suffix. The file property is added as number only.

Suffix : < - (ISO speed)> might add " - ISO100" as suffix. The file property is added as a text string.

Clipboard

A special tag is <clip> which is replaced by the current text content of the Windows Clipboard.

Using File Properties in Javascript

For more complex uses, besides just adding certain file properties to file names with Add (7), also [Javascript](#) and [Javascript Conditions](#) support Windows file properties, via the functions **fileProperty**, **filePropertyDate**, **filePropertyNum**. See [Javascript Renaming](#) for more information.

Using EXIF Properties to Rename Files

With Bulk Rename Utility you can read and use the EXIF file properties to rename your image files.

Exchangeable image file format (officially EXIF, according to JEIDA/JEITA/CIPA specifications) is a standard that specifies the formats for images, sound, and ancillary tags used by digital cameras (including smartphones), scanners and other systems handling images.

Bulk Rename Utility supports the latest EXIF metadata and attributes **version 2.2**.

*** To enable EXIF Properties tags support in Bulk Rename Utility, activate the option '*Extract EXIF data*' from the [Renaming menu](#).

You can show a **list of all available EXIF attributes** for a file by **right-clicking on the file** in the main file list and select '*Show EXIF info (.JPG files)*' from the context menu.

Using EXIF Properties in Add (7), RegEx (1) and Replace (3)

You can use the EXIF properties in **Add(7), RegEx (1) and Replace (3)** as tags to add to file names. To enable EXIF tags support in Bulk Rename Utility, activate the option '*Extract EXIF data*' from the [Renaming menu](#).

To use a property, specify the property like this: `<(exifproperty)>`. The tag will be replaced by the property value for that file.

For instance :

Prefix : `<(exif:ImageWidth)>` might add "800" as a prefix.

Suffix : `<(exif:ImageResolution)>` might add "640x480 pixels" as a suffix.

Prefix : `<(exif:Software)>` might add the software used to create the image as a prefix.

The EXIF properties can be used in Add(7) -> Prefix, Suffix, Insert.

The EXIF properties can also be used in RegEx(1) -> Replace and Replace(3) -> With.

IMPORTANT: You can also specify some extra characters in the property `<>` tag. For instance, `"<(exif:Make) - >"` will add the *exif:Make* and the `-`, but only if the *exif:Make* is not empty. If (*exif:Make*) is empty, the whole tag `<>` will be empty. This is different from using `"<(exif:Make)> -"`. In this case `-` will always be added even if the file does not have a camera make attribute. You can also specify multiple properties: `<(exif:Make) - (exif:ImageResolution)>`

EXIF Properties as Dates and Numbers

If you want to add a property to a file name as a date or as a number, use the property formatting markers.

will format a property as a number. If a file property value has numbers and letters, the letters will be ignored.

\$ will format a property as a date, according to the date and time formatting options as specified in Auto-Date (8).

For instance :

Prefix : `<($exif:DateTimeOriginal) - >` will add the date taken as prefix followed by `-`, formatted according to values in Auto-Date (8).

Suffix : `< - (#exif:Flash)>` might add `" - 16"` as suffix. The file property is added as number only.

Using EXIF Properties in Javascript

For more complex uses, besides just adding certain file properties to file names with Add (7), also [Javascript](#) and [Javascript Conditions](#) support Windows file properties, via the functions **fileProperty**, **filePropertyDate**, **filePropertyNum**. See [Javascript Renaming](#) for more information.

Example of EXIF Properties for an Image File JPG

exif:ImageResolution	640x480
exif:ImageWidth	640
exif:ImageHeight	480
exif:Make	NIKON
exif:Model	COOLPIX P6000
exif:Orientation	1
exif:XResolution	300
exif:YResolution	300
exif:ResolutionUnit	2
exif:Software	Nikon Transfer 1.1 W
exif:DateTime	2008:11:01 21:15:09
exif:DateTimeOriginal	2008:10:22 16:46:53
exif:DateTimeDigitized	2008:10:22 16:46:53
exif:ExposureTime	0.015432
exif:FNumber	5.6
exif:ExposureProgram	2
exif:ISOSpeedRatings	64
exif:FocalLength	22.1
exif:Flash	16
exif:MeteringMode	5
exif:LensInfo.FocalLengthIn35mm	103
exif:GeoLocation.Latitude	43.468243
exif:GeoLocation.Longitude	11.880172
exif:GeoLocation.GPSMapDatum	WGS-84
exif:GeoLocation.GPSTimeStamp	14 45 20.91
exif:GeoLocation.GPSDateStamp	2008:10:23

Using the Custom Column

The custom column of the file list in Bulk Rename Utility is a column whose content can be defined by the user using tags.

You can set the content of this column from the [Display Options -> List](#) menu.

The following tags can be used:

- [Windows File Properties tags](#). For example: <(System.Photo.CameraManufacturer)>, <(System.Image.HorizontalSize)>, <(Title)>, etc.
- [Version 2 EXIF tags](#). For example: <(exif:ImageWidth)>, <(exif:ImageResolution)>, <(exif:Software)>, etc.
- [Hash tags](#). For example: <(hash:crc32)>, <(hash:md5)>, <(hash:sha1)>, etc.

Multiple tags can also be used, for example: <(Title)> - <(exif:ImageResolution)>.

The items in the file list can be sorted under this column by clicking on the column header.

Prevent Duplicates Format

When enabled, the [Prevent Duplicates](#) option allows to you to overcome the situation whereby a rename would fail because a file with the same name already exists: if you try to rename a file, and there's already a file with the same name, the software will make a subsequent attempt to rename the file but with a "_1" suffix. If this fails, it will try with "_2" as the suffix, and will continue up to "_99". The limit of 99, and the separator character underscore (_) are used by default.

You can change the default format that is used to prevent duplicates.

You can also set the duplicate counter to *Start From 1*, and you can prevent duplicates across folders.

To change the format, enable the option [Prevent Duplicates](#) in the Renaming Menu. A message will be shown that the option is now enabled, and clicking on "Change Format" will open a further dialog where you can specify the format string.

Supported tags:

TAG	Explanation
%name%	This tag identifies the file name that is duplicate (without extension)
%count%	This tag identifies a simple numeric counter with no padding: 1, 2, 3, ...
%count00%	This tag identifies a numeric counter padded with zeroes to 2 digits: 01, 02, 03, ...
%count000%	This tag identifies a numeric counter padded with zeroes to 3 digits: 001, 002, 003, ...
%count0000%	This tag identifies a numeric counter padded with zeroes to 4 digits: 0001, 0002, 0003, ...
%counta%	This tag identifies an alphabetic counter: a, b, c, d, ...
%countA%	This tag identifies a capitalized alphabetic counter: A, B, C, D, ...

Examples:

- The default format in Bulk Rename Utility is: `%name%_%count%` - Suffix is added to prevent duplicates: `_1`, `_2`, `_3`,
- To change the separator to be a # use: `%name%#%count%` - Suffix is added to prevent duplicates, `#1`, `#2`, `#3`,
- The Windows File Explorer uses the following format: *Copy (%count%) of %name%* - e.g. a prefix is added: *Copy (1) of*, *Copy (2) of*, ...
- You can use padded numbers: `%name%_%count00%` - Suffix is added to prevent duplicates: `_01`, `_02`, `_03`, `_10`, ... `_99`
- You can use a prefix instead: `%count00%%name%` - Prefix is added to prevent duplicates: `01`, `02`, `03`, `_10`, ... `99`
- You can use an alphabetic counter: `%name%%counta%` - Suffix is added to prevent duplicates: `a`, `b`, `c`, `d`, ... `z`
- You can use a capitalized alphabetic counter: `%name%%countA%` - Suffix is added to prevent duplicates: `A`, `B`, `C`, `D`, ... `Z`

Auto Refresh On / Off

In the main Bulk Rename Utility window, you have the option to turn Auto Refresh On or Off. When Auto Refresh is Off, then the new names are not automatically recalculated each time a renaming criteria changes, but only when clicking on Preview, Rename, or switching Auto Refresh back to On. This is helpful when a large number of names are currently selected and recalculating each file name while the renaming criteria are changing takes time. In this case, Auto Refresh can be switched off while renaming criteria are changed and then switched back on.

Quick Access to .bru Files

In the main Bulk Rename Utility window, positioned just above the Preview button, the button "open" is present to quickly open certain .bru files for quick access.

You can add specific .bru files to this menu and organize them into the right order as needed.

A [.bru file or favourite file](#) is a collection of configuration values that can be used to provide quick access to commonly-used criteria. For example, if you frequently want to rename a bunch of pictures in one folder, and you frequently want to rename a bunch of sound files in another folder, then you could create two Favourites called Pictures and Sound Files. Each Favourite holds with it the selection criteria, rename criteria, and optionally the current folder.

Detached Renaming Criteria

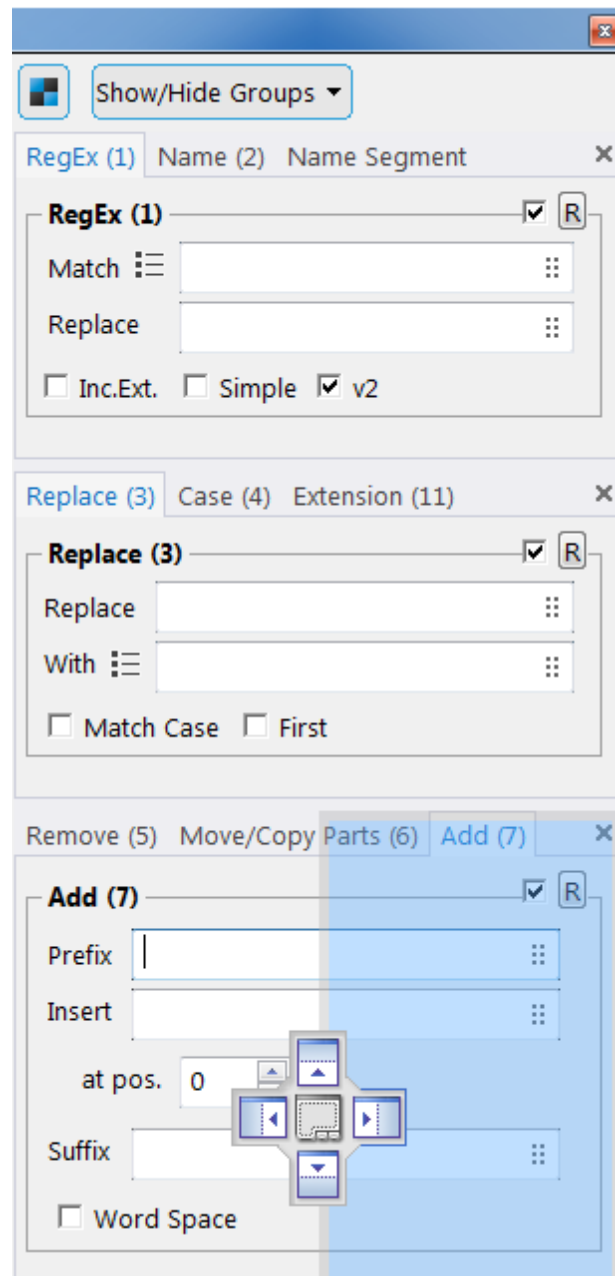
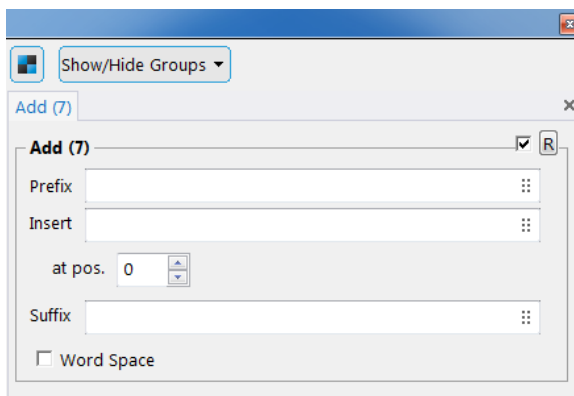
The renaming criteria, or renaming options, can be displayed in a separate window to help manage the Bulk Renaming Utility space and user interface.

Any modifications made to the renaming criteria in the detached window are likewise mirrored in the main window, as this separate window is synchronized with it.

To maximize and enlarge the file list on the main window to display more items while the detached window is open, see the Display Menu->List settings.

All the renaming criteria in the detached window are organized in separate tabs and can be moved around, opened, or closed if not in use, as shown in the pictures.

To open the detached renaming criteria window, select Display Options -> Detach Renaming Criteria, or press F12, or click on the icon next to the Preview button.



JavaScript Renaming

Javascript renaming gives you total flexibility and full control of your file renaming needs by using Javascript code.

Bulk Rename Utility uses the V8 Javascript, Google's high performance Javascript engine also used in Google Chrome. V8 implements ECMAScript as specified in ECMA-262, 5th edition.

All standard Javascript syntax and functions are supported. Additional javascript libraries can be included, [see below](#).

Javascript code is processed as the last step after all other [renaming options](#) have been applied. The javascript code is applied to each object as the last step, before it is renamed.

A [commercial license for Bulk Rename Utility](#) is required to use Javascript Renaming.

Here is an example of a Javascript script which changes a file name in Bulk Rename Utility. The script is applied to each selected file. This script adds a counter, padded with up to 5 zeros, after each file name:

Javascript Renaming

Javascript Code:

```

1 function padLeft(nr, n, str){
2     return Array(n-string(nr).length+1).join(str||'0')+nr;
3 }
4
5 newName = name + '_' + padLeft(counter, '5', '0') ;|

```

Explanation:

- The function padLeft is defined.
- **newName** represents the new name of the file.
- **name** represents the current name of the file.
- **counter** is a counter that starts from 1 and it's incremented for each file.

More examples can be found on our website: [Javascript Renaming Examples](#)

Javascript Bulk Rename Utility Constants and Variables

The following special constants and variables are available in Bulk Rename Utility javascript.

Variables can be modified, while constants have a fixed value and can not be changed.

Constant / Variable	Type	Explanation
name	Constant	This constant contains the name of the object (i.e. file or folder name) being processed, after all Bulk Rename Utility renaming options 1 to 13 and all specials have been applied. If the Bulk Rename Utility renaming options 1 to 13 and specials did not modify the name, then <i>name</i> will be the same as <i>origName</i> (see below).

Constant / Variable	Type	Explanation
newName	Variable	This variable contains the new name to be applied to the object. Modify this variable to modify the object name. If you do not modify the variable <i>newName</i> , then the javascript code has no effect on the name of an object.
origName	Constant	This constant contains the original name of the object before all Bulk Rename Utility renaming options 1 to 13 and all specials.
ext	Constant	This constant contains the extension of the object (i.e. file or folder name) being processed, after all Bulk Rename Utility renaming options 1 to 13 and all specials have been applied. If the Bulk Rename Utility renaming options 1 to 13 and specials did not modify the extension, then <i>ext</i> will be the same as <i>origExt</i> (see below).
newExt	Variable	This variable contains the new extension to be applied to the object. Modify this variable to modify the object extension. If you do not modify the variable <i>newExt</i> , then the javascript code has no effect on the extension of an object.
origExt	Constant	This constant contains the original extension of the object before all Bulk Rename Utility renaming options 1 to 13 and all specials.
location	Constant	This constant contains the location of the object as specified in <i>Location (13)</i>
newLocation	Variable	This variable contains a modified <i>location (13)</i> for the object. If you do not modify the variable <i>newLocation</i> , then the javascript code has no effect on the location (13) of an object.
subDir	Constant	This constant contains the object sub directory (it matches the subdir column in the file list). It is only applicable if subfolders have been included in Selection (12).
counter	Constant	A counter that is incremented during the renaming operation, starting from 1. To retrieve the Bulk Rename Utility 'auto number' as used in section Numbering (10), use the <i>object</i> function below.

Javascript Bulk Rename Utility Functions

The following special functions are available in Bulk Rename Utility javascript.

Function	Explanation	Details / Examples
object("value")	This function returns specific values for the object being processed.	<p>The following <i>values</i> are supported.</p> <p>object("folder") : returns the folder for the current object being processed.</p> <p>object("container") : returns the name of the containing folder for the current object being processed.</p> <p>object("container[num]") : <i>num</i> index can be a number from 1 to 9. Returns the name of the containing folder at <i>num</i> level for the current object being processed, where 1 is the first containing folder (same as just using <i>container</i> without index), 2 is the second folder, etc, up to a maximum of 9. If the containing folder at that level does not exist, then an empty string is returned.</p> <p>object("containers") : returns the total number of the containing folders for the current object being processed. This includes also the drive, e.g., c:</p> <p>object("autonumber") : returns the autonumber for the current object being processed, taken from Numbering (10).</p>

Function	Explanation	Details / Examples
		<p>object("autodate") : returns the autodate for the current object being processed, taken from Auto Date (8)</p> <p>object("isdir") : returns true if the current object being processed is a directory.</p> <p>object("size") : returns the file size for the current object being processed in bytes.</p> <p>object("modified") : returns the modified timestamp for the current object being processed. (Javascript Date)</p> <p>object("created") : returns the created timestamp for the current object being processed. (Javascript Date)</p> <p>object("accessed") : returns the accessed timestamp for the current object being processed. (Javascript Date)</p>
exif("value")	This function returns EXIF values for the object being processed. See details.	<p>The following values are supported.</p> <p>exif("%d") : Date/Time Taken (Javascript date)</p> <p>exif("taken") : Date/Time Taken, same as %d (Javascript date)</p> <p>exif("%a") : Aperture</p> <p>exif("%c") : Comments</p> <p>exif("%e") : Exposure</p> <p>exif("%f") : Focal Length</p> <p>exif("%xb") : Exposure Bias</p> <p>exif("%ma") : Camera Make</p> <p>exif("%mo") : Camera Model</p>
fileProperty("name") fileProperty("label")	<p>This function returns the Windows File Property value for the object being processed, as a <i>text string</i>, by name or by label. See details.</p> <p>This function also returns the EXIF Properties of an image.</p> <p>If the property is not found, the function will return <i>null</i>.</p>	<p>fileProperty("Height")</p> <p>fileProperty("Dimensions")</p> <p>fileProperty("Total bitrate")</p> <p>fileProperty("System.Media.Duration")</p> <p>fileProperty("Channels")</p> <p>fileProperty("exif:XResolution")</p> <p>fileProperty("exif:ISOSpeedRatings")</p> <p>fileProperty("hash:sha256")</p> <p>fileProperty("hash:md5")</p> <p>etc.</p> <p>You can list all file property labels or names that can be used in Bulk Rename Utility from the context menu of a file in the main file list (right-click) or in Windows Explorer, right-click on a file and select "Properties". Each file type might have different properties available.</p>
filePropertyDate("name") filePropertyDate("label")	<p>This function returns the Windows File Property value for the object being processed, as a <i>date object</i>, by name or by label. See details.</p> <p>This function also returns the EXIF Properties of an image.</p> <p>If the property is not found, the function will return <i>null</i>.</p>	<p>filePropertyDate("System.Document.DateCreated")</p> <p>filePropertyDate("exif:DateTimeOriginal")</p> <p>You can list all file property labels or names that can be used in Bulk Rename Utility from the context menu of a file in the main file list (right-click) or in Windows Explorer, right-click on a file and select "Properties". Each file type might have different properties available.</p>

Function	Explanation	Details / Examples
filePropertyNum("name") filePropertyNum("label")	This function returns the Windows File Property value for the object being processed, as a <i>number</i> , by name or by label. See details. This function also returns the EXIF Properties of an image. If the property is not found, the function will return <i>null</i> .	newName = filePropertyNum("Width") + name; newName = filePropertyNum("exif:Orientation") + "-" + name; You can list all file property labels or names that can be used in Bulk Rename Utility from the context menu of a file in the main file list (right-click) or in Windows Explorer, right-click on a file and select "Properties". Each file type might have different properties available.
clipboard()	This function returns the text that is currently in the Windows Clipboard.	newName = clipboard() + " - video";
alert("text")	This function shows a popup message.	alert("object new name is: " + newName);
regEx("text", "match", "replace")	This function processes a regular expression in the same way as it is done in section RegEx (1). Using this function is possible to process multiple regular expressions.	This code will switch a file name around "-". Please note that the character \ must be doubled \\ in Javascript strings. newName = regEx(name, "(.*)-(.*)", "\\2\\1");
removeExt("text")	This function removes the file extension from the given text, if an extension is present.	MyStr = removeExt("file.txt");
countFilesInFolder("pattern", includeHidden, includeSystem)	This function counts the files in a folder. You can specify a search pattern (such as "*.jpg" or "*.pdf"). If no pattern is specified, then all files are counted. <i>includeHidden</i> : Choose whether to include hidden files in the count. Use true to count hidden files or false to exclude them (the default is false). <i>includeSystem</i> : Choose whether to include system files in the count. Use true to count system files or false to exclude them (the default is false).	newName = name + "-" + countFilesInFolder(); newName = name + "-" + countFilesInFolder("*.pdf"); // counts PDF files only newName = name + "-" + countFilesInFolder("", true); // include hidden files (but not system files) newName = name + "-" + countFilesInFolder("*.*", true, true); // counts all files, including hidden and system files newName = name + "-" + countFilesInFolder("*.jpg", true, false); // counts JPG files only including hidden files (but not system files) Appends the number of files in a folder to the name. If this function is applied to a folder name, it counts the files in that folder; for a file name, it counts the files in the folder containing that file.
listFilesInFolder("pattern", includeHidden, includeSystem)	This function returns an array of file names present in a folder. The array indices are zero	newName = removeExt(listFilesInFolder()); // the new name is set to the first file name in a folder, without its extension newName = removeExt(listFilesInFolder("*.pdf")); // the new name is set to the first PDF file name in a folder, without its

Function	Explanation	Details / Examples
	<p>based.</p> <p>You can specify a search pattern (such as "*.txt" or "*.pdf"). If no pattern is specified, then all files are counted.</p> <p><i>includeHidden</i>: Choose whether to include hidden files in the count. Use true to count hidden files or false to exclude them (the default is false).</p> <p><i>includeSystem</i>: Choose whether to include system files in the count. Use true to count system files or false to exclude them (the default is false).</p>	<pre>extension newName = removeExt(listFilesInFolder())[0]); // the new name is set to the first file name in a folder, without its extension newName = removeExt(listFilesInFolder("*.*", true, true)[9]); // the new name is set to the 10th file name in a folder, without its extension. The file list includes system and hidden files.</pre>
setEnv ("varname", "value")	Sets the value of an environment variable	<code>setenv('BRUNAME', name);</code>
getEnv ("varname")	Gets the value of an environment variable	<code>var value = getenv('USERNAME');</code>
include ("filename")	Includes and runs an extra javascript file. The file location is relative to the current working directory, usually the Bulk Rename Utility installation folder, unless Bulk Rename Utility is running from a different directory.	<pre>include('js/sugar.js'); include('file.js'); include('../afile.js');</pre>
require ("filename")	Same as include but if the file is not found, javascript execution is stopped and an error is reported.	<pre>require('js/date.js'); require('myfile.js');</pre>

About Conditional Renaming

Setting the variable **newName** back to the **origName** is like canceling the renaming of an object, as the new name is set back to the object's original name. This feature allows you to perform conditional renaming: for example, you could set **newName** back to **origName** only for objects with a certain modified timestamp. The modified timestamp is accessed via **object("modified")**.

The same is valid for **newExt** and **newLocation**.

Javascript renaming examples can be found on our website: [Javascript Renaming Examples](#)

Javascript Extension Libraries

Extension javascript libraries and files can be included with the functions **include** and **require**, see above.

There are two Javascript libraries that are already included in Bulk Rename Utility. They are saved in the *js* folder in the installation directory. File names are *sugar.js* and *date.js*.

These two libraries can be made easily available to javascript code in Bulk Rename Utility using the options '*Javascript Libraries...*' in the '*Special*' menu: activating the option 'Include *sugar.js*' is equivalent to adding **`require('js/sugar.js')`** at the start of your javascript code and activating the option 'Include *date.js*' is equivalent to adding **`require('js/date.js')`** at the start of your javascript code. Using the menu options is much easier.

About **Sugar.js** library

Information on the **sugar.js** javascript library and its supported functions/API can be found on the Sugar library website: <http://sugarjs.com/>

Sugar is a very powerful library. It adds many useful functions to work with dates, text and more in Javascript, see: <http://sugarjs.com/api>

The Sugar library is Copyright (c) 2014 Andrew Plummer. It is licensed under the MIT license.

Include Sugar.js library support in Bulk Rename Utility using the menu option '*Include sugar.js*' in the '*Special->Javascript Libraries...*'

About **Date.js** library

More information on the **date.js** javascript library and its supported functions/API can be found on the Date library website: <http://datejs.com/>

Date.js is a very powerful library. It adds many useful functions to work with dates in Javascript.

The Date.js library is copyright (c) 2006-2007, Coolite Inc. all rights reserved, licensed under the MIT license.

Include Date.js library support in Bulk Rename Utility by using the menu option '*Include date.js*' in the '*Special->Javascript Libraries...*'

JavaScript Filter Condition

The Javascript filter condition is part of the [Filter \(12\) box](#).

In the Javascript filter condition you can use Javascript syntax. If the condition evaluates to true for an object in the file list, then that object is included, otherwise it is not. The Javascript condition supports all the functions, variables and constants that are available for [Javascript Renaming](#).

The Javascript condition allows selection/inclusion of files/folders based on objects's name and also date, size, time, exif, attributes, etc.

Here is are some examples of Javascript conditions that can be used:

Javascript Filter Condition Examples

Javascript Filter Condition	Requires sugar.js (*)	Requires date.js (**)	Result
name .endsWith(/[q-z]/)	Y	N	Include all objects that end with 'q' to 'z'.
name .startsWith(/[a-d]/, null, false)	Y	N	Include all objects that start with 'a' to 'd', case insensitive.
ext .isBlank()	Y	N	Include all objects that have no extension.
object ('modified').getTime() == exif ('%d').getTime()	N	N	Include all files that have the Windows modified timestamp matching the EXIF date taken.
object ('modified').getTime() != exif ('%d').getTime() && exif ('%d').getTime() != 0	N	N	Include all files that have the Windows modified timestamp not matching the EXIF date taken and the EXIF date taken is not empty.
object ('size') == 0	N	N	Include all objects with zero size. Disable option to include folders in Filters (12) to include only files.
object ('size') > 10000	N	N	Include all files larger than 10000 bytes.
object ('modified').daysAgo() < 31	Y	N	Include all objects with the Windows modified timestamp more recent than 31 days ago. daysAgo() requires sugar.js, see note below.
object ('modified').weeksAgo() < 4	Y	N	Include all objects with the Windows modified timestamp more recent than 4 weeks ago. weeksAgo() requires sugar.js, see note below.
object ('modified').isBetween('yesterday', 'tomorrow');	Y	N	Include all objects with the Windows modified timestamp between yesterday and tomorrow. isBetween() requires sugar.js, see note below.
object ('modified').isBetween('the beginning of last month', 'today');	Y	N	Include all objects with the Windows modified timestamp between the beginning of last month and today. isBetween() requires sugar.js, see note below.
exif ('taken').isBetween('the beginning of last month', 'today');	Y	N	Include all objects with the EXIF taken date between the beginning of last month and today. isBetween() requires sugar.js, see note below.

Javascript Filter Condition	Requires sugar.js (*)	Requires date.js (**)	Result
			note below.
<code>var objsize = object('size'); objsize !=0;</code>	N	N	Include all non-empty objects. This examples shows that multiple statements separated by ';' can be included in the condition.
<code>include("myfile.js"); myFunction(name) == true;</code>	N	N	Includes myfile.js which defines myFunction then include object if myFunction is true.
<code>if (filePropertyDate('System.Document.DateCreated')) { filePropertyDate('System.Document.DateCreated').yearsAgo() < 2 }</code>	Y	N	Include all objects with the Windows File Property date 'System.Document.DateCreated' more recent than 2 years ago. yearsAgo() requires sugar.js, see note below.
<code>filePropertyNum('Width') == 3840;</code>	N	N	Include all images with Width (pixels) equal to 3840.
<code>name.startsWith(clipboard());</code>	Y	N	Include all files (or folders) with name starting with the text content of the Windows Clipboard.

More examples can be found on our website: [Javascript Examples](#)

(*) *sugar.js* support can be activated in Bulk Rename Utility, menu 'Special' -> 'Javascript Libraries'. See [sugar.js](#)

(**) *date.js* support can be activated in Bulk Rename Utility, menu 'Special' -> 'Javascript Libraries'. See [date.js](#)

Link Files By Extension

You can link files by their extension in the [Renaming Options Menu](#).

This feature allows you to link files by their extension, where you specify a **Master File Extension** and one or more **Linked File Extensions**.

Once linked, the file names with the master file extension will determine how files with the linked extensions are renamed.

If you want to link files across folders (not just within the same folder), enable the **Allow Link Across Folders** option.

Note: Linked extensions can include multiple values, separated by commas.

Examples:

Master File Extension: jpg

Linked File Extensions: raw

Result:

If filename.jpg and filename.raw are selected, any renaming applied to filename.jpg will also be applied to filename.raw.

Master File Extension: jpg

Linked File Extensions: raw,png

Result:

If filename.jpg, filename.raw, and filename.png are selected, any renaming applied to filename.jpg will also be applied to both filename.raw and filename.png.

Important Notes:

- All linked files must appear in the file list of Bulk Rename Utility and must be selected for the renaming to be applied correctly.
- For example, if filename.jpg and filename.raw are linked and need to be renamed with the same name, both files must be in the file list and be selected.
- You can verify if the files are correctly linked by checking the New Name column or using the Preview feature.

Exporting the File List

You can export the current list of files and folders from Bulk Rename Utility to use it in another program, such as a spreadsheet or text editor.

To export the list of files and folders, select them in the Bulk Rename list (Ctrl+A to select all present) and then right-click to open the [context menu](#).

From the context menu, select "*Clipboard Copy*" and then select what information you would like to export, such as pathname, filename, extension, new filename, or all.

Once copied into the Windows Clipboard, you will be able to paste the list into a spreadsheet, text editor, or other software.

For example, you can apply renaming changes as required to this exported list and then re-import it in Bulk Rename Utility using the "[Import Rename Pairs](#)" functionality.

Command Line Parameters

On the command line you can specify the name of a [favourite file](#) to open at start-up or a directory path to scan, i.e.:

```
"Bulk Rename Utility.exe" filename.bru
```

or

```
"Bulk Rename Utility.exe" directorypath
```

Other command line options

Command Line Parameters for automatic license code registration:

```
"Bulk Rename Utility.exe" /writeregkey:"AAAA|BBBB" [/elevated]
```

/writeregkey:"AAAA|BBBB" : Enter a license code via the command line, where AAAA is the registration text and BBBB the registration key, separated only by the character |. The whole text must be surrounded by quotes ".

Program will return 0 if the operation was successful.

[/elevated] : Optionally instructs to prompt for elevation to administrator if needed (to register for all users on computer).

Examples:

```
"C:\Program Files\Bulk Rename Utility\Bulk Rename Utility.exe" /writeregkey:"Paul|1234"
```

```
"C:\Program Files\Bulk Rename Utility\Bulk Rename Utility.exe" /writeregkey:"Paul|1234" /elevated
```

Support

If you have any comments or suggestions, please get in touch. The latest version of the application can always be downloaded from the website.

Remember, the easiest way to find your way around the application is to experiment. You won't do any harm unless you hit the Rename button, so you can play around with as many settings as you like!

The application's homepage is at www.bulkrenameutility.co.uk

Contact information is at www.bulkrenameutility.co.uk/Contact.php

The [Support Forums](#) are available at the same website.

If you get in touch with a problem then please email the following details:

- Your version of Windows (e.g. Windows 7, Windows 10, Windows 11, Windows Server, etc.)
- The version of the utility (found at Help -> About)
- How to recreate the problem

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Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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