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## How-to: Edit/Replace text within a Variable

Use the syntax below to edit and replace the characters assigned to a string variable.

### Syntax

```
%variable:StrToFind=NewStr%
```

```
%~[param_ext]$variable:Param
```

### Key

*StrToFind* : The characters we are looking for (not case sensitive).  
*NewStr* : The chars to replace with (if any).  
*variable* : The environment variable.  
*param\_ext* : Any filename [Parameter Extension](#).  
*Param* : A command line parameter (e.g. 1).

This Edit/Replace syntax can be used anywhere that you would use the %variable% such as ECHOing the variable to screen or setting one variable = another.

*param\_ext* cannot be %\* which typically represents a whole set of parameters, but this is easily worked around by setting a variable=%\*

"*StrToFind*" can **begin** with an asterisk, in which case it will replace all characters to the left of "StrToFind".

*NewStr* can be left blank to delete characters, alternatively include [ECHO:](#) in *NewStr* if you need to generate a CR/newline in the output:

Using both an asterisk and setting *NewStr*=null will enable you to construct a left\$() or right\$() function using this syntax.

### Examples:

The variable \_test containing 12345abcabc is used for all the following examples:

```
::Replace '12345' with 'Hello '
SET _test=12345abcABC
SET _result=%_test:12345=Hello %
ECHO %_result%           =Hello abcABC

::Replace the character string 'ab' with 'xy'
SET _test=12345abcABC
SET _result=%_test:ab=xy%
ECHO %_result%           =12345xycxyC

::Delete the character string 'ab'
SET _test=12345abcABC
SET _result=%_test:ab=%
ECHO %_result%           =12345cc

::Delete the character string 'ab' and everything before it
SET _test=12345abcabc
SET _result=%_test:*ab=%
ECHO %_result%           =cabc

::Replace the character string 'ab' and everything before it with 'XY'
SET _test=12345abcabc
SET _result=%_test:*ab=XY%
ECHO %_result%           =XYcabc

:: To remove characters from the right hand side of a string is
:: a two step process and requires the use of a CALL statement
:: e.g.

SET _test=The quick brown fox jumps over the lazy dog

:: To delete everything after the string 'brown'
:: first delete 'brown' and everything before it
SET _endbit=%_test:*brown=%
ECHO we dont want: [%_endbit%]

::Now remove this from the original string
CALL SET _result=%_%_test:%_endbit=%_%
echo %_result%
```

The examples above assume the default Expansion of variables, if you are using [DelayedExpansion](#) then you can modify variables within a single loop/expression. Use the syntax: !\_variable! instead of %\_variable%

Rename a set of files (fred001.txt – fred999.txt) with a different prefix, this is similar to but more flexible than a [wildcard rename](#), via [Raymond Chen](#)

```
Setlocal EnableDelayedExpansion
for %%i in (fred*.txt) do set "_=%%i" & ren "%%i" "!_:fred=wilma!"
```

One other advantage of DelayedExpansion is that it will allow you to replace the % character, it will still have to be [escaped](#) as %% but the replace action will then treat it like any other character:

```
Replace the letter P with a percent symbol:
Setlocal EnableDelayedExpansion
_demo=somePdemoPtextP
_demo=!_demo:P=%%!
```

## Remove spaces from a text string

To delete space characters use the same syntax as above:

```
SET _no_spaces=%_some_var: =%
```

## Boolean Test "does string exist?"

To test for the existence of a value we can use a temporary variable, delete the string we are looking for (if it exists) and then compare the two variables with [EQU](#)

Example: test for the existence of the string "London" in a variable containing text (that could be in any order) "Aberdeen, London, Edinburgh"

```
Set _cities="Aberdeen, London, Edinburgh"
:: Remove London if found
Set _dummy=%_cities:London=%
IF NOT %_dummy% == %_cities% (ECHO London was found.) ELSE (ECHO London was not found.)
```

## Finding items within the PATH environment variable

The %PATH% variable contains a list of folder names.

If you have a parameter containing a valid 'folder' this can be compared with the PATH variable.

This is done using the syntax: \$variable:parameter

### Example

```
%PATH% = C:\windows\system32;C:\windows;C:\utils\jdk\bin
batch parameter %1 = C:\utils\jdk\bin
```

To get the drive and Path

```
ECHO %~dp$PATH:1
```

This will either return "C:\utils\jdk\bin" or a NULL if the item is not found in the %PATH%

If the batch parameter was supplied as %2 then this would be: ECHO %~dp\$PATH:2

This syntax can be applied where:

- The parameter is any valid parameter (%1 %2 %G) but it must contain a Full [Path](#) (not a pathname)
- The variable is %PATH% or any other variable that contains one or more Paths or pathnames separated by semicolons ;
- If nothing is found by the search, then this will return an empty string (NULL)

Be wary of using the syntax on this page to **modify** the PATH - the User path can be edited, but the System path remains read-only for most users.

## Advanced Usage of %*variable*%:

You can use the %*variable*% syntax and provide each of the parameters from other variables, for example if you have

```
%_FullString%=The ballad of John and Yoko
%_Search%=John
```

To remove the %\_search% string from the %\_FullString% you might try:

```
SET _result=%_FullString:~%_Search%=%
```

Unfortunately this will not work because the : syntax expects a value not a variable.

To work around this use the [CALL](#) command, in this case the CALL replaces the variable shown in bold with its value:

```
SET "_FullString=The ballad of John and Yoko"
SET "_Search=John"
CALL SET _result=%%_FullString:%%_Search%=%%
:: If nothing was removed then the search string was not found.
If /i "%_result%"=="%_FullString%" (Echo String not found) ELSE (Echo String found)
```

*"A phony smile will never replace honest integrity" ~ Bob Martinelli*

**Related commands:**

[PATH](#) - Display or set a search path for executable files.

How-to: [SUBSTRING](#) of a variable :~

How-to: [PARAMETERS](#) - Filename Parameter Extensions.

How-to: [strlen.cmd](#) - Get string length.

How-to: [ToLower.cmd](#) - Lower case a String.