FOR

Conditionally perform a command several times.

```
 syntax-FOR-Files
       FOR %%parameter IN (set) DO command

 syntax-FOR-Files-Rooted at Path
       FOR /R [[drive:]path] %%parameter IN (set) DO command

 syntax-FOR-Folders
       FOR /D %%parameter IN (folder_set) DO command

 syntax-FOR-List of numbers
       FOR /L %%parameter IN (start,step,end) DO command

 syntax-FOR-File contents
       FOR /F ["options"] %%parameter IN (filenameset) DO command

       FOR /F ["options"] %%parameter IN ("Text string to process") DO command

 syntax-FOR-Command Results
       FOR /F ["options"] %%p
```

The operation of the FOR command c

- Take a set of data
- Make a FOR Parameter %%G ec
- Perform a command (optionally
- Repeat for each item of data

If you are using the FOR command at : %G instead of %%G.

FOR Parameters

The first parameter has to be de

```
FOR %%G IN ...
```

In each iteration of a FOR loop,

If this clause results in a single v

If the clause results in a multiple automatically assigned in alphabetical order %%H %%I %%

If the parameter refers to a file, t date/size.

You can of course pick any lette

%%G is a good choice because it does not conflict with any of the pathname format letters (a, d, f, n, p, s, t, x) and provides the longest run of non-conflicting letters for use as implicit parameters.
G > H > I > J > K > L > M
Format letters are case sensitive, so using a capital letter is also a good way to avoid conflicts %%A rather than %%a.

If you need a lot of parameter letters, the full list from low to high is:
> ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\ ] ^ _ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { | }

Starting at %A, you can use 29 characters before having to escape any punctuation letters. [source]

Using variables within a FOR loop

Variables are expanded at the start of a FOR loop and don't update until the entire DO section has completed.
The following example counts the files in the current folder, but %count% always returns 1:

```
@echo off
SET count=1
 FOR /f "tokens=*" %%G IN ('dir /b') DO (
 echo %count%:%%G
 set /a count+=1 )
```

To update variables within each iteration of the loop we must either use EnableDelayedExpansion or else use the CALL :subroutine mechanism as shown below:

```
@echo off
SET count=1
FOR /f "tokens=*" %%G IN ('dir /b') DO (call :subroutine "%%G")
GOTO :eof

:subroutine
 echo %count%:%1
 set /a count+=1
 GOTO :eof
```

Nested FOR commands

FOR commands can be nested `FOR %%G... DO (for %%U... do ...)`
when nesting commands choose a different letter for each part. you can then refer to both parameters in the final DO command.

For an example of exiting the inner loop of two nested FOR loops, see the EXIT page.

Errorlevels

FOR does not, by itself, set or clear an Errorlevel, leaving that to the command being called.
One exception is using a wildca EVEL% = 5

FOR is an internal command.
If Command Extensions are disabled iables: FOR %%parameter IN (set) DO command [command-param

Examples

Extrach words from a sentence and E

```
FOR /F "tokens=1-5" %%A
```

will result in the output: `This is sho`

Create a set of 26 folders, one for ea

```
FOR %%G IN (a,b,c,d,e,f, %G)
```

“Those who cannot remember the p

Related commands

FOR - Loop through a set of files in or
FOR /R - Loop through files (recurse s
FOR /D - Loop through several folders
FOR /L - Loop through a range of num
FOR /F - Loop through items in a text
FOR /F - Loop through the output of a
Parameters/arguments %~ options.
FORFILES - Batch process multiple files.
GOTO - Direct a batch program to jump to a labelled line.
IF - Conditionally perform a command .
Equivalent PowerShell: ForEach-Object - Loop for each object in the pipeline.
Equivalent bash command (Linux): awk or read (in a loop) - Read a line from standard input.

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