

# **Batch Cheat Sheet**

by ChaosJD (ChaosJD) via cheatography.com/99440/cs/21487/

Help	
help commandName	
commandName /?	

help --> show all system commands

### **All System Commands**

help

#### **Clear Screen**

Clear Screen cls

_			٠.			
S	h	o	rı	C	П	ß

Tab	Autocomplete
arrow keys up/down	back/forward history commands
Control + C	stops current command
ALT + F7	clears the history
F7	shows the history

### **Directory Make & Remove**

mkdir subdir- ectory	creates new subdirectory
mkdir subdir/su- bsubdir	creates subdir & subdir/su- bsubdir <b>Hint:</b> creates it, if they aren't
	existing
rmdir	existing removes an <b>empty</b> dir
rmdir rmdir /s directory	

# **Directory copy**

copy src dst	copy files
copy /Y src dest	copy files overwrites <b>without</b> quesiton
xcopy /s src dest	copies dirs <b>and</b> subdirs <b>except</b> empty ones

### **Directory copy (cont)**

xcopy /YS src	as above <b>without</b> ask to
dest	overwrite
xcopy /YS src \\server\share	copy to network share
robocopy /S src dest	copies dirs and subdirs except empty ones
robocopy /YS src dest	as above without ask to overwrite

### **Parameters**

%0	Name of Script
%1 %9	Parameter 1 Parameter 9
%*	prints all parameters as a string
(one line) for %%x in (%*) do echo	access it through a for loop works with > 10 parameters
%%X	

#### Pass Parameters to sub script

parameters_scri-	@echo off
pt.bat	call parameters_subs-
	cript.bat %*
	EXIT /B %errorlevel%
parameters_s-	@ECHO off
ubscript.bat	echo subscript called
	with %*
	EXIT /B 0

EXIT /B specifies to exit the current batch scropt instead of cmd.exe. If executed from outside a batch script, it will quit cmd.exe

### **Arrays Way2**

set	set value to a specific array
array[0]=0	element
set	
array[1]=1	
echo	access to array elements
%array[0]%	
echo	
%arrav[1]%	

## Arrays Way2 (cont)

missing loop over elements: indexed

#### Functions: label and goto

echo "Hi:" goto :good

:bad

echo "I don't like scripting" goto :eof

:good

echo "I like scripting" goto :eof

### **DoubleClickExecution**

@ECHO off setlocal

REM check for interactive sesseion

SET interactive=0

ECHO %CMDCMDLINE% | FINDSTR /L

%COMSPEC% >NUL 2>&1

IF %ERRORLEVEL% EQ SET intera-

ctive=1

ECHO do work

REM pause if interactive (double-clicked

execution)

IF "%ineractive%" == "0" PAUSE

EXIT/B 0

FINDSTR /L is use search string literally

## **Navigation**

realative	parent directory	cd, cd
	subdirectory	cd subdir- ectoy
absolute	cd C:\Windows	
	cd \Windows	
change drive	Z:	



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Page 1 of 3.

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Wildcards	
? (file?.txt)	one arbitary character
* ( *.bat)	arbitary characters (0,1 or more)

File Show	,
type file	show file content
more	show file content pagewise
sort file	show file content sorted

Directory	Show Content
current folder	dir
absolute path	dir C:\Windows
dir Y:	different drive
dir /B	only show file names and directory names

Batch Files User Input		
@ echo off	Syntax: set /P	
set /P name="Input	var=prompt:	
yor name: "		
echo Hi %name%	variable call	

Batch Files File Input	
@echo off echo Bill > file echo Gate >> file	
set /P filecontent =< file echo First Line: %filecontent%	set /P var=< file
FOR /f %%f in (file) Do ( echo %%f )	REM print each line in file

Variables	
setlocal set MY_ENV=abc endlocal	Only active in the current batch file (local)
set MY_ENV=abc	creates or changes an environment variable that is active in the cmd. (global)
set	shows the active enviro- nment variables
echo %USERNAME%	print variable out
defined MY_VAR	returns 0 => Execution was successful >0 => Execution failed

IF Control Structures	
IF test (command) ELSE (command)	Syntax
Control structures For	

for ${\%} \%$ < Variable> in ( <set>) do <co-< td=""><td></td></co-<></set>	
mmand> [ <commandlineoptions>]</commandlineoptions>	
cmd.exe use ->%	
batch script use ->%%	

Function	is
call :print	_name Florian
echo prin	nt_name exitst with %errorlevel%
goto :eof	
:printnam	ie
echo Hit	%1
exit /B 0	<- REM sets exit status of :print-
_name	
File Pon	ama & Maya

File Rename & Move	
rename file1 file2	renamef filte1 to file2
move file1 dir	move file 1 to dir (path dir/file1)

File Rename & Move (cont)		
move file1 dir/file2	moves and renames file1 to file2 (path: dir/file2) file2 is overwritten from file1	
move /Y file1 file2	moves and overwrites file1 to file2 without asking	
File Names		
Case-Insensitive		
Max. 260 characters incl. invisible terminating null character		
spaces and character set 128 - 255 allowed		
Never <, >, :, ", /,   , ?, *		
Hint: A-Z, a-z, 0-9, _, spaces, ( underscore		

*.bat & *.cmd
dir /B> only show file names and directory

as space)

Directory	y Rename & Move
rename dir1 dir2	renames dir1 in dir2
move dir1 dir2	if dir2 exist: dir1 into dir2 (path: dir2/dir1), else rename dir1 to dir2
move file1 dir/file2	file 2 is deleted. file1 get the name of file2 ans is set at the position of file2 <b>with</b> asking (Yes/No/All)
move /Y file1 file2	file 2 is deleted. file1 get the name of file2 ans is set at the position of file2 without asking.



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File Redirects	
type file.txt   sort	give <b>output of</b> type to sort
sort < file.txt	give content ( stdin) of file.txt
echo "hi" > file.txt	write "hi" (stout) to file.txt
type NUL > file.txt	create empty file▲
rm file 2> errors.txt	redirects errors(stderr) ro errors.txt
rm file 2> NUL	discard errors
rm file 2>&1	redirect stderr to stdout
echo "you" >> file.txt	append "you" to file.txt

### Comment

REM Präfix after them the text

## Calculation

set /a i=0 echo i=%i%

set /a **i=1+1** Operatoren +, -, \*, /

set /a i+=1 Operatoren +, -, \*, /

## Arrays Way1

# set array=1 2 3 4

%array% (echo) all Array elements

for %%a in loop over elements

(%array%) do (
echo%%a
)

set array=(and unset variable or

Control Structures: Comparison Operators		
Operator	Info	Equal
EQU	==	Equal
NEQ	!=	Not equal
LSS	<	Less
LEQ	<=	Less than or equal to
GTR	>	Greater than
GEQ	>=	Greater than or equal
NOT	!	Not

#### **Editors**

Notepad

Notepad++

VisualStudioCode

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Notepad

Notepad++

VisualStudioCode

Atom

## **Terminals**

cmd.exe

Windows Terminal

ConEmu

cmder

### **Batch Filex Exit / Return**

Specify exit echo "abc" code: exit 0

Query error echo %ERRORLEVEL%

level

Exit/Return 0 => Execution was codes successful

>0 => Execution fiales with

code X

C

nothing else)

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array

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