

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

SI	hor	tcı	ıts

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

Directory Make & Remove

oo.o.ya.	
mkdir subdir- ectory	creates new subdirectory
mkdir subdir/su- bsubdir	creates subdir & subdir/su- bsubdir Hint: creates it, if they aren't existing
rmdir	removes an empty dir
rmdir /s directory	removes directory with content
rmdir /s /q directory	removes directory with content & skips y/n question

Directory copy

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

Directory copy (cont)

xcopy /YS src dest	as above without ask to 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

%%x

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

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 guit 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	
%array[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:	



By **ChaosJD** (ChaosJD) cheatography.com/chaosjd/

Published 22nd October, 2020. Last updated 22nd October, 2020.

Page 1 of 3.

Sponsored by **Readable.com**Measure your website readability!
https://readable.com



Batch Cheat Sheet

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

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 s	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 <command/> [<commandlineoptions>]</commandlineoptions></set></variable>	
cmd.exe use ->%	
batch script use ->%%	

call :print_name Florian
echo print_name exitst with %errorlevel%
goto :eof
:printname echo Hit %1 exit /B 0 <- REM sets exit status of :print- _name

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

Directory 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 with 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.	

Names



By **ChaosJD** (ChaosJD) cheatography.com/chaosjd/

Published 22nd October, 2020. Last updated 22nd October, 2020. Page 2 of 3. Sponsored by **Readable.com**Measure your website readability!
https://readable.com



Batch Cheat Sheet

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

File Redirects	
type file.txt sort	give output of 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>	redirects errors(stderr) ro
errors.txt	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

$\overline{}$				
	nη	nn	ner	1
_	U I.		101	ш

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

Editors

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)

By **ChaosJD** (ChaosJD) cheatography.com/chaosjd/

array

Published 22nd October, 2020. Last updated 22nd October, 2020. Page 3 of 3. Sponsored by **Readable.com**Measure your website readability!
https://readable.com