

```

MD          Creates a directory.
MKDIR       Creates a directory.
MKLINK      Creates Symbolic Links and Hard Links
MODE        Configures a system device.
MORE        Displays output one screen at a time.
MOVE        Moves one or more files from one directory to another
            directory.
OPENFILES   Displays files opened by remote users for a file share.
PATH        Displays or sets a search path for executable files.
PAUSE       Suspends processing of a batch file and displays a message.
POPD        Restores the previous value of the current directory saved by
            PUSH.D.
PRINT       Prints a text file.
PROMPT      Changes the Windows command prompt.
PUSHD       Saves the current directory then changes it.
RD          Removes a directory.
RECOVER     Recovers readable information from a bad or defective disk.
REM         Records comments (remarks) in batch files or CONFIG.SYS.
REN         Renames a file or files.
RENAME      Renames a file or files.
REPLACE     Replaces files.
RMDIR       Removes a directory.
ROBOCOPY    Advanced utility to copy files and directory trees
SET         Displays, sets, or removes Windows environment variables.
SETLOCAL    Begins localization of environment changes in a batch file.
SC          Displays or configures services (background processes).
SCHTASKS    Schedules commands and programs to run on a computer.
SHIFT       Shifts the position of replaceable parameters in batch files.
SHUTDOWN    Allows proper local or remote shutdown of machine.
SORT        Sorts input.
START       Starts a separate window to run a specified program or command.
SUBST       Associates a path with a drive letter.

```

Command Prompt, also known as cmd.exe or cmd (after its executable file name), is the command-line interpreter on Windows NT, Windows CE, OS/2 and eComStation operating systems. It is the counterpart of [COMMAND.COM](#) in DOS and Windows 9x

systems (where it is also called “MS-DOS Prompt”), and analogous to the Unix shells used on Unix-like systems.

To open the Windows command prompt you may do one of the following:

```
Click Start -> Programs -> Accessories -> Command Prompt
Click Start (or hit the Windows key), type “cmd” in search, then
hit [ENTER]
Windows Key + R (#r, not the pound symbol) brings up Run. Then
type “cmd” then [ENTER]
SHIFT + right-click in any folder or desktop, then select “open
command window here”
```

BASIC COMMAND PROMPT COMMANDS

```
x /? = provides syntax info and complete list of all parameters
for x (a command, like “cd”)
```

```
cd = change directory
```

```
cd .. = move to the parent directory
```

```
cd\ = move to the root of current drive
```

`cd x` = move to the current\x directory

`cd z:` = change to the z root directory (as opposed to c:)

`copy x y` = copy file x to directory y (Ex: D:\games\galaga.exe
C:\programs[\awesome.exe]), [] = optional

`copy file con` = display file contents in console

`copy con file.txt` = create text file in the console window, end with ctrl+z (^z or F6)

`date` = change the date

`del` = delete/erase

`del x` = deletes all files/folders fitting x

`del .` = deletes all files within current directory

`del *.* = deletes all files within current directory`

`dir = display contents of current directory (Ex: dir [c:]
[\programs]), [] = optional`

`dir *.txt = list all .txt files in current directory`

`dir *.* = list all files with extensions one character in length
in current directory`

`dir /w /p *.* = display all contents one screen at a time`

`dir | more = display all contents one line at a time`

`dir /? = provides syntax info and complete list of all dir
parameters`

`echo = send command line input to display (by default)`

`echo sometext » somefile.txt` = append line(s) of text to any file

`echo sometext > somefile.txt` = overwrites file with sometext

`erase` = delete/erase

`exit` = exit the command prompt

`filename.txt` = opens filename.txt in current directory in Notepad (or default .txt program)

`format z:` = format z drive [Ex: use to format a disc or flash drive]

`mkdir x` = make directory x in current directory

`move x y` = move or rename x to y

`q` = escapes sequential display of contents (i.e. the more parameter)

`rd x` = remove/delete directory `x` if it's empty

`ren x y` = rename file `x` to `y`

`time` = change the time

`type file` = display the contents of the file 'file' (displays file contents in console)

`type file |more` = display the contents one line at a time

ADVANCED COMMAND PROMPT COMMANDS

`ipconfig [/all]` = display network adapter information (advanced)

`netstat -n` = display local address and addresses you are connected to (advanced)

```
netstat -nb = above with name of foreign addresses (advanced)  
(this shows your private IP, if you are behind a router or proxy,  
then your public IP address will be different)
```

```
ping google.com = how long it takes for your computer to talk to  
google.com
```

CONVERT OUTPUT OF ONE PROCESS INTO INPUT OF ANOTHER PROCESS

```
Send contents of script.js to the system debug.exe file:  
type script.js | c:\programs\debug.exe  
programs\debug.exe < script.js
```

SEND DIRECTORY LISTING TO A PRINTER OR FILE

```
dir > prn (theoretically to a printer)
```

```
dir > somefile.txt
```

```
dir *.mp3 > c:\Users\Dan\Desktop\musiclist.txt = print all .mp3  
files in current directory to musiclist.txt
```

MODIFY ANY FILE EXTENSION ASSOCIATIONS

```
[assoc .extension=fileType]
```

```
assoc /? = prints this information
```

```
assoc = display list of current file extensions recognized by  
your computer (any fileType value may be used)
```

```
assoc > fileextensions.txt = print list to somefile.txt in  
current directory
```

```
assoc .txt = displays current file association of .txt (.docx,  
.html, .zip, .htaccess, assoc textfile, et cetera)
```

```
assoc .txt= = will delete the association for the given file  
extension
```


File Extension Tips/Ideas:

– Windows by default doesn't know the following extensions, but check anyways with “assoc .;” “assoc .htaccess” and “assoc .xml” anyways just to be sure. If the extension is defined already, then you may not need to change it.

```
assoc .=txtfile = associate extensionless files with Notepad
```

```
assoc .htaccess=txtfile = associate nameless .htaccess files with Notepad
```

```
assoc .xml=txtfile = associate XML files with Notepad
```

ENVIRONMENTAL VARIABLES VIA THE DOS COMMAND PROMPT

System-generated upon Windows startup:

```
%DATE% = Tue 08/02/2011  
%TIME% = 14:23:33.37  
%SYSTEMROOT% = C:\Windows  
%COMPUTERNAME% = DAN-PC
```

System-generated upon user login:

```
%USERNAME% = Dan  
%USERDOMAIN% = Dan-PC
```

Local machine variables for all users:

```
%PATH% = C:\Windows\system32  
%HOMEPATH% = \Users\Dan  
%HOMEDRIVE% = C:
```

(Hint: Use echo)

FUNCTION KEYS

F1 = Sequential, individual repeat of previously entered characters

F2 = Copies any number of characters from the previous command line

F3 = Repeats the contents of the previous command line

F4 = Deletes any number of characters from the previous command line

F5 = Return to the previous command line

F6 = Enters the characters ^z (CTRL+z), indicating "end of file"

F7 = Displays a history of command-line entries for the current session (50-line cache)

F8 = Sequentially displays previous command-line entries

F9 = Enables user to recall previous command lines by number (0 = first line)

crunches

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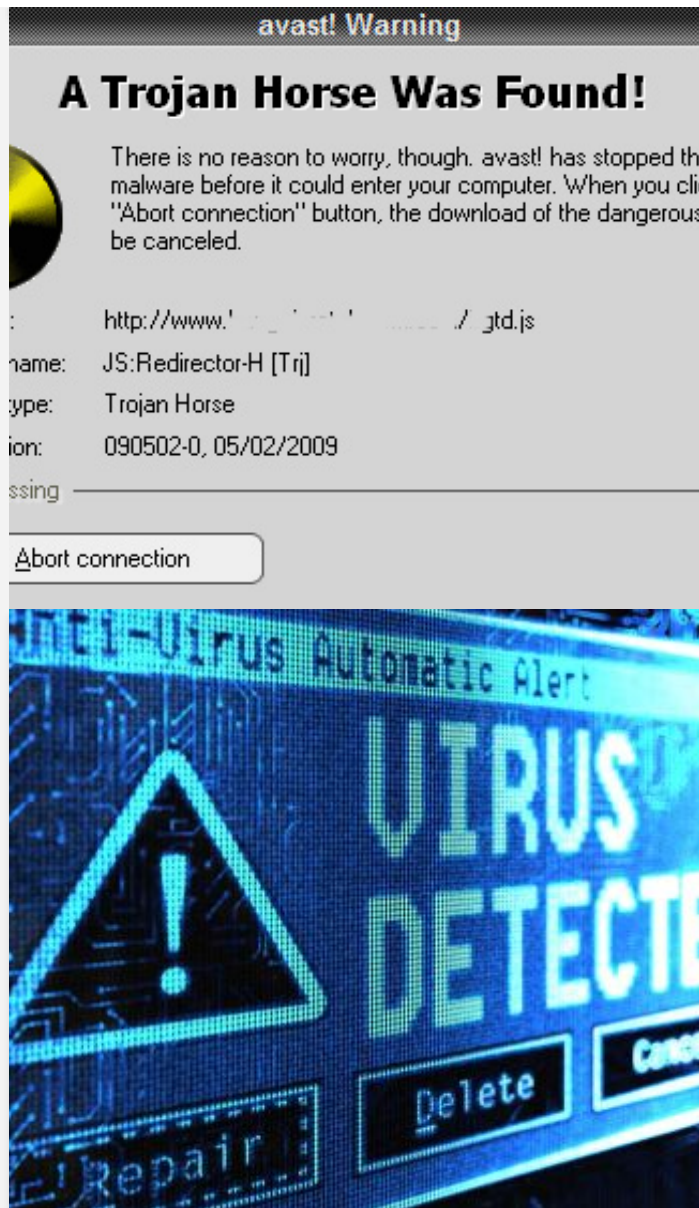
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