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How to Format a Hard Drive Using the **Command Prompt**

By Joshua Simenhoff last updated July 12, 2023













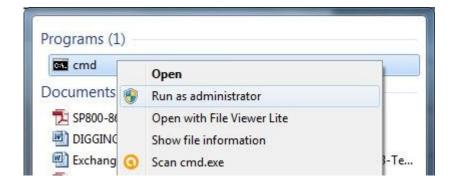


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Formatting one of the best hard drives or SSDs is the same as buying a new hard drive since the process erases all the data in one fell swoop. When you format your hard drive, you can clean internal as well as external storage media.

In this tutorial, we explain how you can format a hard drive using the command prompt. Before proceeding further, make sure you backup all available data to prevent data loss. Follow the steps below to format a drive:

STEP 1: Open Command Prompt As Administrator



Opening the command prompt.

Search for command prompt, right click and run as Administrator.

STEP 2: Use Diskpart

```
Administrator: C:\Windows\System32\cmd.exe

Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32\diskpart
```

Using diskpart

Once command line is open, type 'diskpart' and press Enter.

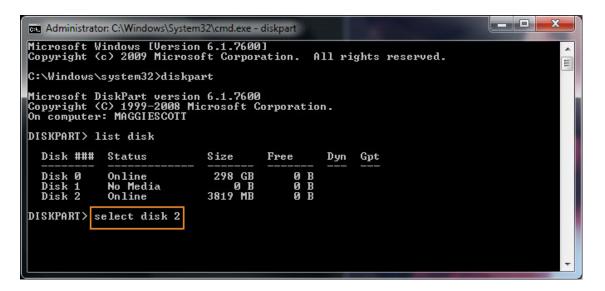
STEP 3: Type List Disk



Using list disk

The above command will open a Diskpart window. In this window, type '**list disk**' and press Enter. It will list all the available drives.

STEP 4: Select the Drive to Format



Formatting a drive.

Now type 'select disk (disk number)' as shown above. Specify the drive number which needs to be formatted.

STEP 5: Clean the Disk



Using the clean function.

In this step, type 'clean'. This command will permanent delete all files and folders, and successfully clean up the disk.

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STEP 6: Create Partition Primary



Creating primary partition.

To make the drive again accessible, type 'create partition primary'.

STEP 7: Format the Drive

```
Administrator. C:\Windows\System32\cmd.exe - diskpart

Disk 0 Online 298 GB 0 B
Disk 1 No Media 0 B 0 B
Disk 2 Online 3819 MB 0 B

DISKPART> select disk 2

Disk 2 is now the selected disk.

DISKPART> clean

DiskPart succeeded in cleaning the disk.

DISKPART> create partition primary

DiskPart succeeded in creating the specified partition.

DISKPART> format fs=ntfs

2 percent completed
```

Formatting a drive.

Now format the drive with FAT or NTFS file system. Type '**format fs=ntfs**' and press Enter.

STEP 8: Assign a Drive Letter

```
DISKPART > clean
DiskPart succeeded in cleaning the disk.
DISKPART > create partition primary
DiskPart succeeded in creating the specified partition.
DISKPART > format fs=ntfs
100 percent completed
DiskPart successfully formatted the volume.
DISKPART > assign
DiskPart successfully assigned the drive letter or mount point.
DISKPART >
```

Assigning a drive letter.

To assign a drive letter, you can type 'assign' as shown below.

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Joshua Simenhoff

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ehmkec

Am I missing something? Couldn't you just bring up a command prompt and type "format e:" - or some other drive letter?

REPLY ▶

tcaster6263

would be kind of short for a tutorial don't you think?



polomint

Or use Computer Management -> Disk Management if you want to remove all partitions on a drive then format it...

REPLY ▶

shrapnel_indie

21240634 said:

Am I missing something? Couldn't you just bring up a command prompt and type "format e:" - or some other drive letter?

While I cannot guarantee this article does exactly what it claims it does (I haven't tried it, let alone heard about this way before) I can speak for the way format works now days.

Drives come pretty much preformatted now days as to its sectors and such. Format just basically wipes the file data/directory/folder content, not the data elsewhere on the drive. It's possible to recover the data with a little work, primarily on the "folders."

I would hope that this utility, DiskPart, issuing its "clean" command actually does more than clear the data partition info.

REPLY ▶

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