

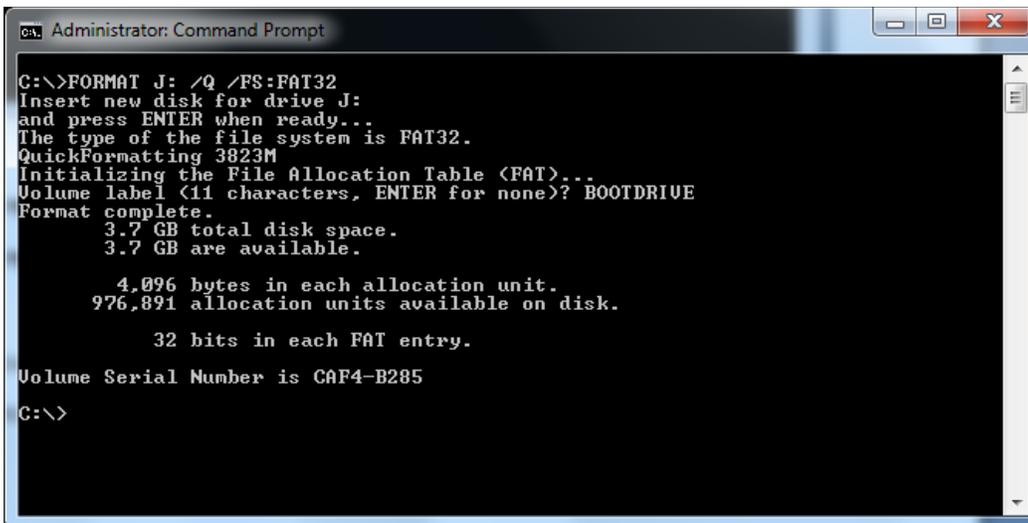
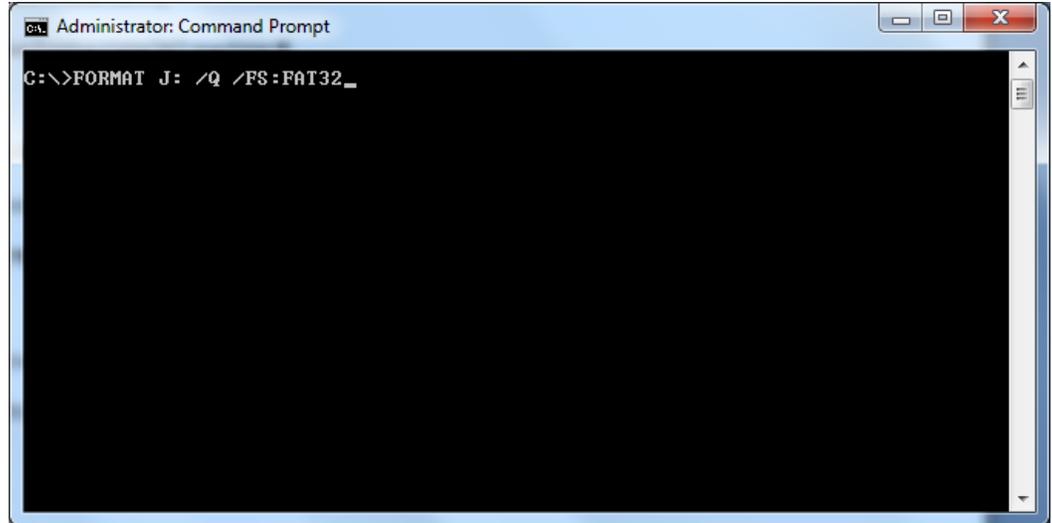
How to Create a Bootable USB Drive in Windows Vista or Windows 7

First, format the drive from a Windows Vista or Windows 7 PC. You can format via Windows Explorer or do it the old-fashioned way as shown here...

Start a Command Prompt as an Administrator... right-click Command prompt in the Start Menu – All Programs – Accessories, and issue the following commands...

```
FORMAT J: /Q /FS FAT32
```

(where J: is the drive letter of the USB drive)



In this example, I have “quick” formatted a 3.7GB USB drive (by using the /Q switch), with a file system (/FS☺ of FAT32, but you could equally have specified NTFS.

This screen shows that the command has completed successfully.

```

Administrator: Command Prompt - DISKPART
C:\>FORMAT J: /Q /FS:FAT32
Insert new disk for drive J:
and press ENTER when ready...
The type of the file system is FAT32.
QuickFormatting 3823M
Initializing the File Allocation Table (FAT)...
Volume label (11 characters, ENTER for none)? BOOTDRIVE
Format complete.
3.7 GB total disk space.
3.7 GB are available.

4,096 bytes in each allocation unit.
976,891 allocation units available on disk.

32 bits in each FAT entry.

Volume Serial Number is CAF4-B285
C:\>DISKPART
Microsoft DiskPart version 6.1.7600
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: HPPAU-DU7-2050E
DISKPART>

```

Next we use a tool that should be “handled with much care”. The disk partitioning tool or DISKPART.

To activate the first partition on the drive that has just been formatted, start DISKPART.

List the available disks attached to the system, using the following command...

LIST DISK

Note the 3.7GB drive is listed as drive 4, and is 3824MB in size.

This is obviously the disk that was previously formatted, as disks 1 and 2 are hundreds of gigabytes in size, and disk 3 is about twice the size of the drive seen above.

```

Administrator: Command Prompt - DISKPART
4,096 bytes in each allocation unit.
976,891 allocation units available on disk.

32 bits in each FAT entry.

Volume Serial Number is CAF4-B285
C:\>DISKPART
Microsoft DiskPart version 6.1.7600
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: HPPAU-DU7-2050E
DISKPART> LIST DISK

```

Disk ###	Status	Size	Free	Dyn	Gpt
Disk 0	Online	298 GB	0 B		
Disk 1	Online	111 GB	0 B		
Disk 2	Online	279 GB	6144 KB		
Disk 3	Online	7872 MB	0 B		
Disk 4	Online	3824 MB	0 B		

```

DISKPART>

```

```

Administrator: Command Prompt - DISKPART
32 bits in each FAT entry.

Volume Serial Number is CAF4-B285
C:\>DISKPART
Microsoft DiskPart version 6.1.7600
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: HPPAU-DU7-2050E
DISKPART> LIST DISK

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Disk 4	Online	3824 MB	0 B		

```

DISKPART> SELECT DISK 4
Disk 4 is now the selected disk.
DISKPART>

```

Next, select the disk that has just been formatted, using the SELECT DISK command.

SELECT DISK x

(where x is the drive number shown from the previous command, in this case “4”)

BE CAREFUL TO SELECT THE RIGHT DISK NUMBER.

Now select the first partition on the chosen disk...

SELECT PARTITION 1

```
C:\>DISKPART

Microsoft DiskPart version 6.1.7600
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: HPPAU-DU7-2050E

DISKPART> LIST DISK

   Disk ###  Status         Size         Free         Dyn  Gpt
   -----  -
   Disk 0    Online         298 GB         0 B
   Disk 1    Online         111 GB         0 B
   Disk 2    Online         279 GB    6144 KB
   Disk 3    Online         7872 MB         0 B
   Disk 4    Online         3824 MB         0 B

DISKPART> SELECT DISK 4

Disk 4 is now the selected disk.

DISKPART> SELECT PARTITION 1

Partition 1 is now the selected partition.

DISKPART>
```

... and make that partition "active"...

ACTIVE

```
C:\>DISKPART

On computer: HPPAU-DU7-2050E

DISKPART> LIST DISK

   Disk ###  Status         Size         Free         Dyn  Gpt
   -----  -
   Disk 0    Online         298 GB         0 B
   Disk 1    Online         111 GB         0 B
   Disk 2    Online         279 GB    6144 KB
   Disk 3    Online         7872 MB         0 B
   Disk 4    Online         3824 MB         0 B

DISKPART> SELECT DISK 4

Disk 4 is now the selected disk.

DISKPART> SELECT PARTITION 1

Partition 1 is now the selected partition.

DISKPART> ACTIVE

DiskPart marked the current partition as active.

DISKPART> _
```

You can now exit the DISKPART utility...

EXIT

```
C:\>DISKPART

   Disk ###  Status         Size         Free         Dyn  Gpt
   -----  -
   Disk 0    Online         298 GB         0 B
   Disk 1    Online         111 GB         0 B
   Disk 2    Online         279 GB    6144 KB
   Disk 3    Online         7872 MB         0 B
   Disk 4    Online         3824 MB         0 B

DISKPART> SELECT DISK 4

Disk 4 is now the selected disk.

DISKPART> SELECT PARTITION 1

Partition 1 is now the selected partition.

DISKPART> ACTIVE

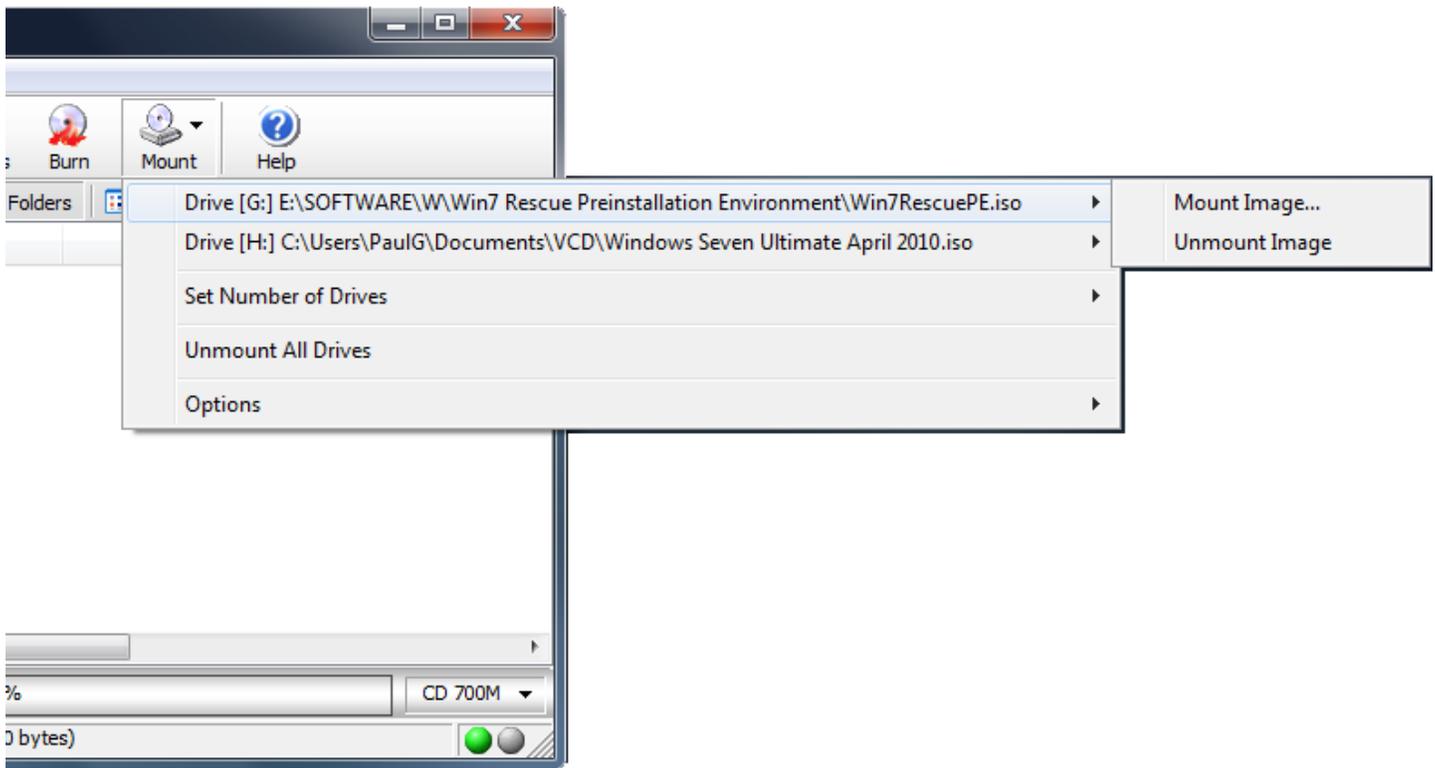
DiskPart marked the current partition as active.

DISKPART> EXIT

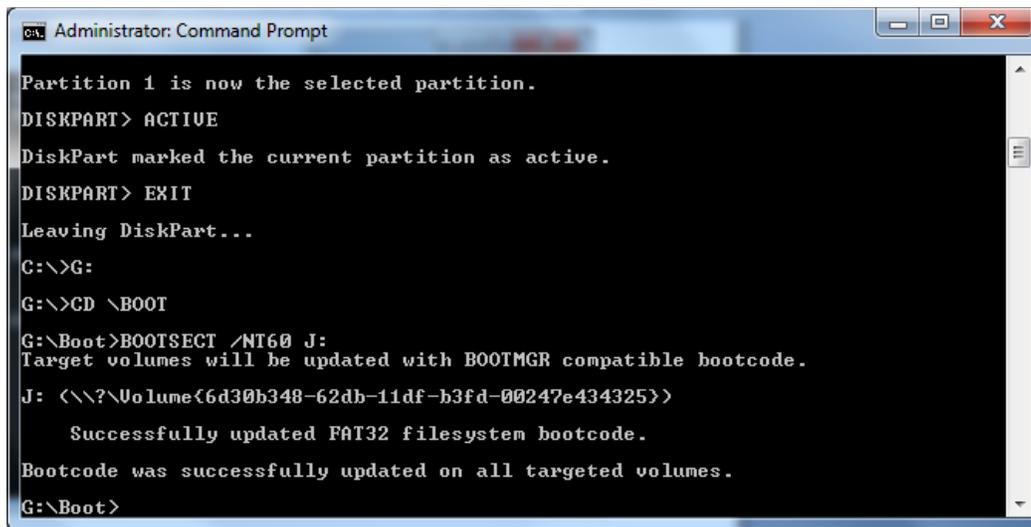
Leaving DiskPart...

C:\>_
```

The next step requires the image of the bootable disk, for example a Windows 7 rescue disk. This is usually a CD/DVD image such as an *.ISO file. Files such as these can be "mounted" (viewed as a drive, with a drive letter assigned to them), using a tool such as PowerISO (<http://www.poweriso.com>)...



Next, place a Windows Vista or Windows 7 “boot sector” on the USB drive. This is done by copying from the mounted *.ISO image...



G:

(where G: is the disk drive letter of the mounted ISO image)

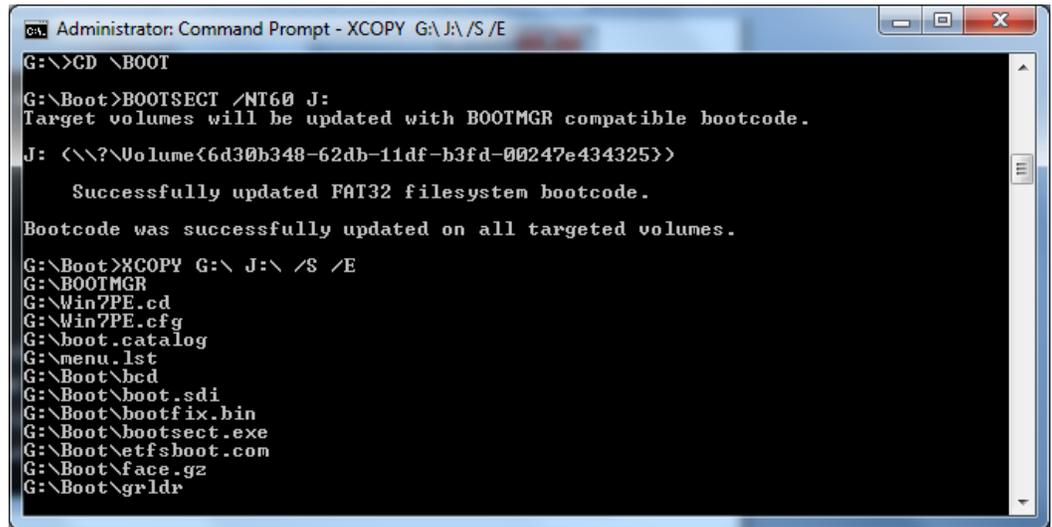
CD \BOOT

Copy the boot sector data from the mounted ISO image to the USB drive, using the following command...

BOOTSECT /NT60 J:

Now copy all of the files of the mounted ISO image to the USB drive, using the XCOPY command...

XCOPY G:\J:\ /S/E

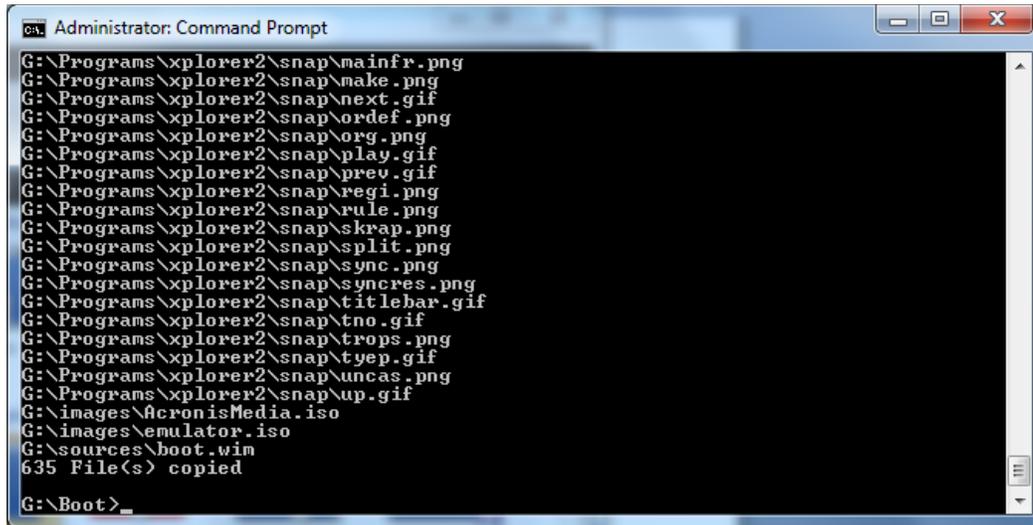


```
Administrator: Command Prompt - XCOPY G:\J:\ /S /E
G:\>CD \BOOT
G:\Boot>BOOTSECT /NT60 J:
Target volumes will be updated with BOOTMGR compatible bootcode.
J: (\?\Volume{6d30b348-62db-11df-b3fd-00247e434325})

    Successfully updated FAT32 filesystem bootcode.

Bootcode was successfully updated on all targeted volumes.

G:\Boot>XCOPY G:\ J:\ /S /E
G:\BOOTMGR
G:\Win7PE.cd
G:\Win7PE.cfg
G:\boot.catalog
G:\menu.lst
G:\Boot\bcd
G:\Boot\boot.sdi
G:\Boot\bootfix.bin
G:\Boot\bootsect.exe
G:\Boot\etfsboot.com
G:\Boot\face.gz
G:\Boot\grldr
```



```
Administrator: Command Prompt
G:\Programs\explorer2\snap\mainfr.png
G:\Programs\explorer2\snap\make.png
G:\Programs\explorer2\snap\next.gif
G:\Programs\explorer2\snap\ordef.png
G:\Programs\explorer2\snap\org.png
G:\Programs\explorer2\snap\play.gif
G:\Programs\explorer2\snap\prev.gif
G:\Programs\explorer2\snap\regi.png
G:\Programs\explorer2\snap\rule.png
G:\Programs\explorer2\snap\skrap.png
G:\Programs\explorer2\snap\split.png
G:\Programs\explorer2\snap\sync.png
G:\Programs\explorer2\snap\syncres.png
G:\Programs\explorer2\snap\titlebar.gif
G:\Programs\explorer2\snap\tno.gif
G:\Programs\explorer2\snap\trops.png
G:\Programs\explorer2\snap\tyep.gif
G:\Programs\explorer2\snap\uncas.png
G:\Programs\explorer2\snap\up.gif
G:\images\AcronisMedia.iso
G:\images\emulator.iso
G:\sources\boot.wim
635 File(s) copied
G:\Boot>
```

This may take a while, but when it's finished, the bootable USB drive will be ready for use.