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## HOW IS THE DATA STORED

Before explaining what is Deep Search let me tell you how works the common data recovery algorithm and how the data is stored. Any data on your computer is stored at files. Files are organized for access on the disk with a help of filesystem. For contemporary Windows OS it is used in most cases NTFS filesystem. Sometimes people use ancient FAT filesystem, which is insignificantly faster than NTFS but seriously lacks durability, security and data loss protection. We are strongly recommend you to use NTFS everywhere it is possible, except for cases such as memory cards for cell phones, digital photo cameras, pocket PC etc, as they cannot read NTFS filesystem.

Most filesystems are organized as a book. They have "content" and "table of contents". When you save a file on the disk a new record will be added to the "table of contents" and a new "page" will be written on the disk. When you delete a file corresponding record in the "table of contents" will be marked as "deleted", so the filesystem will be able to write new data on the "page" that contained deleted data.

Such a "table of contents" is called MFT (Master File Table) in NTFS filesystem and FAT (File Allocation Table) in Fat filesystem. When you browse the disk filesystem ignores "deleted" records and does not display them in the file manager. This allows us to make two conclusions:

- If you have enough patient you can look the "book" through and find a "page" you require and which is absent at the "table of contents".
- If you need to delete a file irrevocably, you need a tool to overwrite the "page" you want to get rid of.

As I trying to explain how to recover deleted data let me focus on [data recovery](#).

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