

TS := "Tracked Set"

- Set of files being tracked by dvcs

CD := "Current Directory"

- The set of files in the directory which contains the .dvcs directory

PC := "Previous Commit"

- The set of files in the previous commit

Committable Changes := files which are Altered or New

NonCommittable Changes := files which are Unaltered or Deleted

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Before classifying file states:

Remove files from TS which are not in CD but in TS

- If (file not in CD) && (file in TS)
  - TS = TS \ file

Data fileState = New | Deleted | Altered | Unaltered

- New
  - (file in TS) && (file not in PC)
- Deleted
  - (file not in TS) && (file in PC)
- Unaltered
  - (file in TS) && (file in PC) && ([no difference](#) between version in CD and version in PC)
- Altered
  - (file in TS) && (file in PC) && ([difference](#) between version in CD and version in PC)

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Note:

"file" is the path of the file relative to the directory which contains .dvcs.

- ex)
  - if a file is in the directory which contains .dvcs its representation is only the file name
  - If a file is in a subdirectory of the directory which contains .dvcs its representation is 'subdir name'/filename
- If a file is moved within this directory structure we treat it as if the file has been deleted, and a new file appears