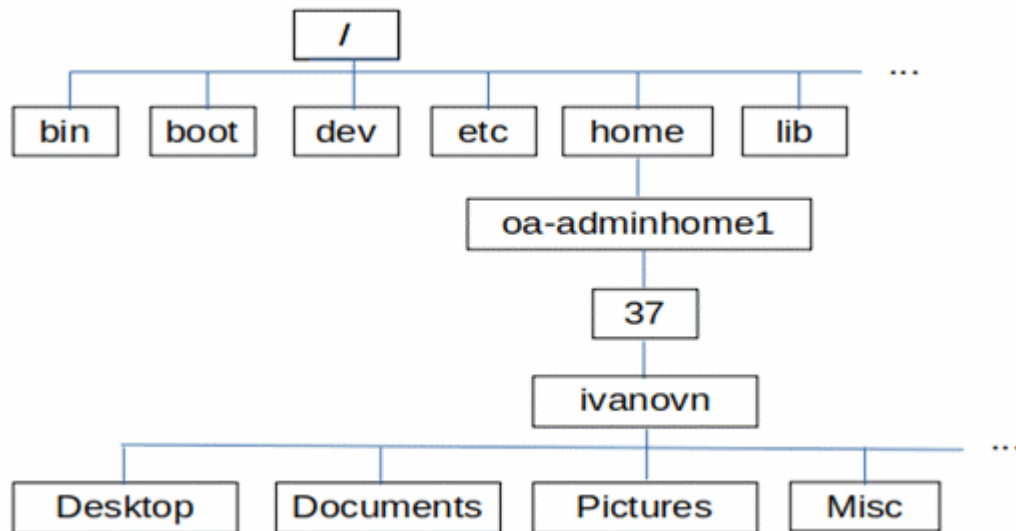# Directory structure

---

- root
- home - user has full control - ~ tilda
- ls, cd, pwd, ls -alh
- ls -d option shows the directory itself, otherwise contents
- ls -R option recursive listing
- -S sort by size; -t sorts on modification time; -r reverse sort
- -full-time option timestamp including minutes and seconds

[

```
ls / # to navigate to the FS root
whoami # explore the manual page
cd ~ # to navigate to user's home directory
pwd # explore the manual page
cd # takes you to your home directory
```

Absolute and relative paths

Single dot represents current directory
Double dot represents parent directory

☐ FIND details on soft and hard links!

`

Managing files and directories

Globbing Characters (wildcards)

- use globbing characters to work with multiple files/folders at the same time
- `man 7 glob`
- ...

Working with files and directories

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create - touch, redirect
`touch empty.file`
`cat > file.txt` (line input ends with CTRL+D to save)
`mkdir mydir`
`mkdir a b c`
`tree`
`mkdir -p o/p/q/r s/{sub1,sub2}`
remove
`touch file.text`
`rm file.text`
`rm aDir`
`rm aDir`
`rm -r aDir`
rm -i option is used to prompt before every removal
rm -f option is used to ignore nonexistent files and arguments, never prompt

copy
cp source destination
move
mv a b
mv a dir/aaa

rename
mv a b

mv a dir/a

Text editors

●Becoming familiar with text editors helps with:

lwriting shell scripts

lworking with configuration or other text files

●The GNU nano editor is a simple editor well suited for editing small text files.

●The Visual Editor (vi) or VI improved (vim, latest version), is a remarkably powerful editor.

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nano is a small and friendly editor. It is free software, and implements several features such as: opening multiple files, scrolling per line, undo/redo, syntax coloring, line numbering, and soft-wrapping overlong lines.

●The Beginner's Guide to nano:

https://www.howtogeek.com/42980/the-beginners-guide-to-nano-the-linux-command-line-text-editor/

●nano cheat sheet:

lhttps://www.nano-editor.org/dist/latest/cheatsheet.html

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vim is a text editor that is upwards compatible to Vi. It can be used to edit all kinds of plain text. It is especially useful for editing programs.

- Interactive vim tutorial:
  lhttps://www.openvim.com/
- vim cheat sheet:
  lhttps://vim.rtorr.com/