# tree Directory tree listing

## CONCEPTS

tree skips dotfiles unless you pass -a, and prints a count of directories and files at the end.

**Walk** -L, -a, -x, -I
↓ filter
**Filter** -P, -I, --prune
↓ sort
**Sort** -t, -r, --dirsfirst
↓ decorate
**Print** -h, -p, -D, -J, -H

-P and -I take shell-style globs, not regexes; separate alternatives with | and quote the pattern.

-P only filters files; add --matchdirs to match directory names, and --prune to drop dirs left empty.

## LISTING

**tree**
Print the current directory as a tree

**tree** *<dir>* **...**
Several directories at once

**tree -L** *<n>*
Descend at most n levels

**tree -a**
Show hidden files too

**tree -d**
List directories only

## LISTING (cont.)

**tree -f**
Print the full path of each entry

**tree -l**
Follow symlinks to directories

**tree -x**
Stay on one filesystem

**tree --noreport**
Omit the final count line

**tree --filelimit** *<n>*
Skip dirs holding more than n entries

**tree --condense**
Merge single-child dir chains

**tree -i**
No indentation lines (flat list)

**tree -F**
Append type markers (/ * @ |)

**tree -Q**
Quote filenames

## FILTERING

**tree -I '***<glob>***'**
Hide matching files and dirs

**tree -I 'node_modules|dist'**
Hide several names

**tree -P '***<glob>***'**
Show only matching files

## FILTERING (cont.)

**tree -P '*.py' --prune**
Matching files, no empty dirs

**tree --gitignore**
Apply .gitignore rules

**tree --gitfile** *<file>*
Use another ignore file

**tree --matchdirs**
Apply -P to directory names

**tree --ignore-case**
Case-insensitive -P and -I

**tree --prune**
Drop empty directories

## DETAILS

**tree -h**
Human-readable sizes

**tree -s**
Sizes in bytes

**tree --du**
Directory totals (implies -s)

**tree --si**
Sizes in powers of 1000

**tree -p**
Show permissions

**tree -u / -g**
Show owner / group

**tree -D**
Show modification date

**tree --timefmt '***<fmt>***'**
Date format (strftime), implies -D

## DETAILS (cont.)

**tree -pugh**
Mode, owner, group and size

**tree --inodes**
Show inode numbers

## SORTING

**tree --dirsfirst**
Directories before files

**tree --filesfirst**
Files before directories

**tree -t**
Sort by modification time

**tree -r**
Reverse the order

**tree -v**
Natural version sort (v2 before v10)

**tree --sort** *<key>*
name, size, mtime, ctime, version, none

## OUTPUT

**tree -J**
JSON output

**tree -X**
XML output

**tree -H** *<baseHREF>*
HTML page with links

**tree -H . -T '***<title>***' -o** *<file>*
HTML with title to a file

## OUTPUT (cont.)

**tree -o** *<file>*
Write output to a file

**tree -n**
Never colourise

**tree -C**
Force colour, even in a pipe

**tree --charset** *<name>*
Output charset (e.g. ASCII)

**tree --hyperlink**
Clickable OSC 8 file links

**tree --fromfile .**
Build a tree from paths on stdin

## RECIPES

### Project overview

```
tree -a -L 3 --gitignore -I
'.git' --dirsfirst
# -I '.git': --gitignore
does not hide the .git dir
itself
```

### Biggest directories

```
tree --du -h -L 2 --sort
size -r
# totals per directory,
largest first
```

### Tree of a file list

```
git ls-files | tree --
fromfile .
find . -name '*.md' | tree
--fromfile .
```

### Share it as JSON or HTML

```
tree -J -L 2 src > tree.json
tree -H . -T 'Docs' -o
index.html docs/
```