

TREE COMMAND

WHAT IS TREE COMMAND?

The tree is a tiny, cross-platform command-line program used to recursively list or display the content of a directory in a tree-like format. It outputs the directory paths and files in each sub-directory and a summary of a total number of sub-directories and files.

To list directory content in a tree

```
[root@vivek ~]# tree
.
├── 1
├── 1.txt
├── anaconda-ks.cfg
├── employee.txt
├── initial-setup-ks.cfg
└── test.txt

0 directories, 6 files
[root@vivek ~]#
```

To list the directory contents with the full path

```
[root@vivek home]# tree -f
.
├── ./anaconda-ks.cfg
├── ./orking
├── ./test.txt
├── ./vgandhi
│   ├── ./vgandhi/Desktop
│   ├── ./vgandhi/Documents
│   ├── ./vgandhi/Downloads
│   ├── ./vgandhi/Music
│   ├── ./vgandhi/Pictures
│   │   └── ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
│   ├── ./vgandhi/Public
│   ├── ./vgandhi/Templates
│   └── ./vgandhi/Videos
└── ./vivek.txt
```

instruct tree to only print the subdirectories minus the files

```
[root@vivek home]# tree -df
.
├── ./vgandhi
│   ├── ./vgandhi/Desktop
│   ├── ./vgandhi/Documents
│   ├── ./vgandhi/Downloads
│   ├── ./vgandhi/Music
│   ├── ./vgandhi/Pictures
│   ├── ./vgandhi/Public
│   ├── ./vgandhi/Templates
│   └── ./vgandhi/Videos
└── 9 directories
```

specify the maximum display depth of the directory

```
[root@vivek home]# tree -f -L 2
.
├── ./anaconda-ks.cfg
├── ./orking
├── ./test.txt
├── ./vgandhi
│   ├── ./vgandhi/Desktop
│   ├── ./vgandhi/Documents
│   ├── ./vgandhi/Downloads
│   ├── ./vgandhi/Music
│   ├── ./vgandhi/Pictures
│   ├── ./vgandhi/Public
│   ├── ./vgandhi/Templates
│   └── ./vgandhi/Videos
└── ./vivek.txt

9 directories, 4 files
```

TREE COMMAND

To display only those files that match the wild-card pattern

```
[root@vivek etc]# tree -f -P cata*
```

```
.
├── ./alsa
│   └── ./alsa/conf.d
├── ./alternatives
├── ./audit
│   ├── ./audit/plugins.d
│   └── ./audit/rules.d
├── ./authselect
│   └── ./authselect/custom
├── ./avahi
│   ├── ./avahi/etc
│   └── ./avahi/services
├── ./bash_completion.d
└── ./binfmt.d
```

tree to prune empty directories from the output

```
[root@vivek home]# tree -f --prune
```

```
.
├── ./anaconda-ks.cfg
├── ./orking
├── ./test.txt
├── ./vgandhi
│   └── ./vgandhi/Pictures
│       └── ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
└── ./vivek.txt
```

2 directories, 5 files

useful file options supported by tree

```
[root@vivek home]# tree -f -p
```

```
.
├── [-rw-----] ./anaconda-ks.cfg
├── [-rw-r--r--] ./orking
├── [-rw-r--r--] ./test.txt
├── [drwx-----] ./vgandhi
│   ├── [drwxr-xr-x] ./vgandhi/Desktop
│   ├── [drwxr-xr-x] ./vgandhi/Documents
│   ├── [drwxr-xr-x] ./vgandhi/Downloads
│   ├── [drwxr-xr-x] ./vgandhi/Music
│   ├── [drwxr-xr-x] ./vgandhi/Pictures
│   │   └── [-rw-rw-r--] ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
│   ├── [drwxr-xr-x] ./vgandhi/Public
│   ├── [drwxr-xr-x] ./vgandhi/Templates
│   └── [drwxr-xr-x] ./vgandhi/Videos
└── [-rw-r--r--] ./vivek.txt
```

Besides, to print the username

```
[root@vivek home]# tree -f -pug
```

```
.
├── [-rw----- root root ] ./anaconda-ks.cfg
├── [-rw-r--r-- root root ] ./orking
├── [-rw-r--r-- root root ] ./test.txt
├── [drwx----- vgandhi vgandhi ] ./vgandhi
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Desktop
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Documents
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Downloads
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Music
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Pictures
│   │   └── [-rw-rw-r-- vgandhi vgandhi ] ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Public
│   ├── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Templates
│   └── [drwxr-xr-x vgandhi vgandhi ] ./vgandhi/Videos
└── [-rw-r--r-- root root ] ./vivek.txt
```

TREE COMMAND

print the size of each file in bytes along with the name

```
[root@vivek home]# tree -f -s
.
├── [ 1387] ./anaconda-ks.cfg
├── [ 22] ./orking
├── [ 190] ./test.txt
├── [ 4096] ./vgandhi
│   ├── [ 6] ./vgandhi/Desktop
│   ├── [ 6] ./vgandhi/Documents
│   ├── [ 6] ./vgandhi/Downloads
│   ├── [ 6] ./vgandhi/Music
│   ├── [ 53] ./vgandhi/Pictures
│   └── [ 766306] ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
├── [ 6] ./vgandhi/Public
├── [ 6] ./vgandhi/Templates
├── [ 6] ./vgandhi/Videos
└── [ 96] ./vivek.txt

9 directories, 5 files
[root@vivek home]# tree -f -h
.
├── [ 1.4K] ./anaconda-ks.cfg
├── [ 22] ./orking
├── [ 190] ./test.txt
├── [ 4.0K] ./vgandhi
│   ├── [ 6] ./vgandhi/Desktop
│   ├── [ 6] ./vgandhi/Documents
│   ├── [ 6] ./vgandhi/Downloads
│   ├── [ 6] ./vgandhi/Music
│   ├── [ 53] ./vgandhi/Pictures
│   └── [ 748K] ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
├── [ 6] ./vgandhi/Public
├── [ 6] ./vgandhi/Templates
├── [ 6] ./vgandhi/Videos
└── [ 96] ./vivek.txt

9 directories, 5 files
```

display the date of the last modification time for each sub-directory or file

```
[root@vivek home]# tree -f -pug -h -D
.
├── [-rw----- root root 1.4K Feb 20 3:26] ./anaconda-ks.cfg
├── [-rw-r--r-- root root 22 Feb 20 3:38] ./orking
├── [-rw-r--r-- root root 190 Feb 20 4:07] ./test.txt
├── [drwx----- vgandhi vgandhi 4.0K Feb 20 3:23] ./vgandhi
│   ├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Desktop
│   ├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Documents
│   ├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Downloads
│   ├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Music
│   ├── [drwxr-xr-x vgandhi vgandhi 53 Jan 20 6:52] ./vgandhi/Pictures
│   └── [-rw-rw-r-- vgandhi vgandhi 748K Jan 20 6:52] ./vgandhi/Pictures/Screenshot from 2022-01-20 06-52-35.png
├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Public
├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Templates
├── [drwxr-xr-x vgandhi vgandhi 6 Jan 20 6:49] ./vgandhi/Videos
└── [-rw-r--r-- root root 96 Feb 20 3:55] ./vivek.txt
```

reports the size of each sub-directory

```
[root@vivek ~]# tree -f --du
.
├── [ 104857600] ./1
├── [ 0] ./1.txt
├── [ 1387] ./anaconda-ks.cfg
├── [ 209] ./employee.txt
├── [ 1542] ./initial-setup-ks.cfg
├── [ 65] ./test.txt
└──

104864899 bytes used in 0 directories, 6 files
[root@vivek ~]#
```

