

# Files

## Special

- find files not readable by others:

```
sudo find -H / ! -perm -o=r -exec ls -ld '{}' \; 2>/dev/null
```

- remove all .DS\_Store files below users home directory:

```
cd && find . -iname '.DS_Store' -a -not -ipath './Library/*' -delete 2>/dev/null
```

## Flags

- show file flags: `ls -lO`
- add a flag: `sudo chflags <flag> <file>`, with flag:
  - hidden: hidden (for example `~/Library`);
  - arch, archived: archived;
  - nodump: ;
  - opaque: ;
  - sappnd, sappend: system append-only;
  - schg, schange, simmutable: system immutable;
  - uappnd, uappend: user append-only;
  - uchg, uchange, uimmutable: user immutable;
- remove a flag: `sudo chflags no<flag> <file>`

## Attributes

- find all files having quarantine attribute

```
sudo find / -user <user> -a -xattrname com.apple.quarantine 2>/dev/null
```

- remove quarantine file attribute, recursively

```
sudo xattr -r -d com.apple.quarantine /path/to/dir
```

- show file attributes: `ls -l@`

## Tags

(Finder) file tags are coded as file attributes in Apple File System (APFS).

- find files having assigned a(ny) tag

```
mdfind 'kMDItemUserTags == "*"'  
mdls -name kMDItemUserTags <files>  
find . -xattrname com.apple.metadata:_kMDItemUserTags -print -exec mdls  
-name kMDItemUserTags '{} ' ";" 2>/dev/null
```

- force deletion of tags from file (x)attributes

```
xattr -d com.apple.metadata:_kMDItemUserTags <files>
```

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