



Find cheatsheet

This is a quick reference list of cheatsheet for linux find command, contains common options and examples.

Getting Started

Usage		Option Examples
Option	Example	Description
\$ find [path...] [options] [expression]		
Wildcard		
\$ find . -name "*.txt" \$ find . -name "2020*.csv" \$ find . -name "json_*		
• Regex reference (quickref.me)	find . -type d	Find only directories
• Find cheatsheet (gist.github.com)	find . -type f -name "*.txt"	Find file by name
	find . -type f -iname "hello"	Find file by name (case-insensitive)
	find . -size +1G	Find files larger than 1G
	find . -user jack	Find jack's file
	find /var -regex '/tmp/[0-9]*.file'	Using Regex with find. See regex
	find . -maxdepth 1 -name "a.txt"	In the current directory and subdirectories
	find / -mindepth 3 -maxdepth 5 -name pass	Between sub-directory level 2 and 4

Type	Size	Size +/-
-type d	Directory	Find all bigger than 10MB files
-type f	File	\$ find / -size +10M
-type l	Symbolic link	Find all smaller than 10MB files
-type b	Buffered block	\$ find / -size -10M
-type c	Unbuffered character	Find all files that are exactly 10M
-type p	Named pipe	\$ find / -size 10M
-type s	Socket	Find Size between 100MB and 1GB
		\$ find / -size +100M -size -1G
		The + and - prefixes signify greater than and less than, as usual.

Names	Permissions	Owners and Groups
Find files using name in current directory	Find the files whose permissions are 777.	Find single file based on user
\$ find . -name tecmint.txt	\$ find . -type f -perm 0777 -print	\$ find / -user root -name tecmint.txt
Find files under home directory	Find the files without permission 777.	Find all files based on user
\$ find /home -name tecmint.txt	\$ find / -type f ! -perm 777	\$ find /home -user tecmint
Find files using name and ignoring case	Find SUID set files.	Find all files based on group
\$ find /home -iname tecmint.txt	\$ find / -perm /u=s	\$ find /home -group developer
Find directories using name	Find SGID set files.	Find particular files of user
\$ find / -type d -name tecmint	\$ find / -perm /g=s	\$ find /home -user tecmint -iname "*.txt"
Find php files using name	Find Read Only files.	
\$ find . -type f -name tecmint.php	\$ find / -perm /u=r	
Find all php files in directory	Find Executable files.	
\$ find . -type f -name "*.php"	\$ find / -perm /a=x	

```
$ find . -type f \(\ -name "*.sh" -o -name "*.txt" \)
```

Find files with .sh and .txt extensions

```
$ find /opt /usr /var -name foo.scala -type f
```

Find files with multiple dirs

Multiple dirs

```
$ find . -type d -empty
```

Delete all empty files in a directory

```
$ find . -type f -empty -delete
```

Empty

Find Date and Time

atime

access time (last time file opened)

mtime

modified time (last time file contents was modified)

ctime

changed time (last time file inode was changed)

Example

-mtime +0

Modified greater than 24 hours ago

-mtime 0

Modified between now and 1 day ago

-mtime -1

Modified less than 1 day ago (same as -mtime 0)

-mtime 1

Modified between 24 and 48 hours ago

-mtime +1

Modified more than 48 hours ago

-mtime +1w

Last modified more than 1 week ago

-atime 0

Last accessed between now and 24 hours ago

-atime +0

Accessed more than 24 hours ago

-atime 1

Accessed between 24 and 48 hours ago

-atime +1

Accessed more than 48 hours ago

-atime -1

Accessed less than 24 hours ago (same as -atime 0)

-ctime -6h30m

File status changed within the last 6 hours and 30 minutes

Means

Examples

Find last 50 days modified files

```
$ find / -mtime 50
```

find last 50 days accessed files

```
$ find / -atime 50
```

find last 50-100 days modified files

```
$ find / -mtime +50 -mtime -100
```

find changed files in last 1 hour

```
$ find / -cmin -60
```

find modified files in last 1 hour

```
$ find / -mmin -60
```

find accessed files in last 1 hour

```
$ find / -amin -60
```

Find and

Find and remove multiple files

Find and delete

```
$ find . -type f -name "*.mp3" -exec rm -f {} \;
```

Find and remove single file

```
$ find . -type f -name "tecmint.txt" -exec rm -f {} \;
```

Find and delete 100mb files

```
$ find / -type f -size +100m -exec rm -f {} \;
```

Find specific files and delete

```
$ find / -type f -name *.mp3 -size +10m -exec rm {} \;
```

Find and replace

Find all files and modify the content const to let

```
$ find ./ -type f -exec sed -i 's/const/let/g' {} \;
```

Find readable and writable files and modify the content old to new

```
$ find ./ -type f -readable -writable -exec sed -i "s/old/new/g" {} \;
```

See also: sed cheatsheet

Find and rename

Find and suffix (added .bak)

```
$ find . -type f -name 'file*' -exec mv {} {}.bak \;
```

Find and rename extension (.html => .gohtml)

```
$ find ./ -depth -name "*.html" -exec sh -c 'mv "$1" "${1%.html}.gohtml"' _ {} \;
```

Find and move

```
$ find . -name '*.mp3' -exec mv {} /tmp/music \;
```

Find and move it to a specific directory (/tmp/music)

Find and copy

```
$ find . -name '*2020*.xml' -exec cp -r "{}" /tmp/backup \;
```

Find matching files and copy to a specific directory (/tmp/backup)

Find and concatenate

Merge all csv files in the download directory into merged.csv

```
$ find download -type f -iname '*.csv' | xargs cat > merged.csv
```

Find and sort

Find and sort in ascending

```
$ find . -type f | sort
```

find and sort descending

Merge all sorted csv files in the download directory into merged.csv

Merge all sorted CSV files in the download directory into merged.csv

```
$ find download -type f -iname '*csv' | sort | xargs cat > merged.csv
```

Find and chmod

Find files and set permissions to 644.

```
$ find / -type f -perm 0777 -print -exec chmod 644 {} \;
```

Find directories and set permissions to 755.

```
$ find / -type d -perm 777 -print -exec chmod 755 {} \;
```

Find and sort descending

```
$ find . -type f | sort -r
```

Find and compress

Find all .java files and compress it into java.tar

```
$ find . -type f -name "*.java" | xargs tar cvf java.tar
```

Find all .csv files and compress it into quickref.zip

```
$ find . -type f -name "*.csv" | xargs zip quickref.zip
```



Related Cheatsheet

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中文版 #Notes



ADS VIA CARBON

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