

```
File New Log Find welcome to CoCalc.terminal 2020-09-22 12:44:14.terminal
File Search Pause Copy Paste Help ~
~$ whoami
user
~$ pwd
/home/user
~$ ls -l
ls: cannot access '-': No such file or directory
ls: cannot access 'l': No such file or directory
~$ ls -
ls: cannot access '-': No such file or directory
~$ ls -l
total 2
-rw-r--r-- 1 user user 7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user 0 Sep 22 09:44 2020-09-22-124414.terminal
-rw-r--r-- 1 user user 0 Sep 22 09:43 'welcome to CoCalc.terminal'
~$ ls -a
. 2020-09-22-124414.terminal-0.terminal .bash_history .bashrc .gitconfig .jupyter-blobs-v0.db .src .ssh 2020-09-22-124414.terminal
.. '.welcome to CoCalc.terminal-0.terminal' .bash_profile .config .gitexcludes .sage .snapshots 2020-09-22-124313 'welcome to CoCalc.terminal'
~$ ls -la
total 22
drwxr-xr-x 6 user user 18 Sep 22 09:44 .
drwxr-xr-x 1 root root 4096 Sep 21 13:38 ..
-rw-r--r-- 1 user user 1041 Sep 22 09:46 .2020-09-22-124414.terminal-0.terminal
-rw-r--r-- 1 user user 7491 Sep 22 09:43 '.welcome to CoCalc.terminal-0.terminal'
-rw-r--r-- 1 user user 171 Sep 22 09:45 .bash_history
lrwxrwxrwx 1 user user 18 Sep 15 09:44 .bash_profile -> /home/user/.bashrc
-rw-r--r-- 1 user user 2355 Sep 15 09:44 .bashrc
drwx-r--r-- 3 user user 3 Sep 15 09:44 .config
-rw-r--r-- 1 user user 47 Sep 15 09:44 .gitconfig
-rw-r--r-- 1 user user 918 Sep 15 09:44 .gitexcludes
-rw-r--r-- 1 user user 8192 Sep 15 09:44 .jupyter-blobs-v0.db
drwxr-xr-x 2 user user 2 Sep 15 09:44 .sage
lrwxrwxrwx 1 user user 12 Sep 22 09:42 .src -> /tmp/.cocalc
```

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```
dr-xr-xr-x 2 user user  2 Sep 22 09:42 .snapshots
drwxr-xr-x 2 user user  3 Sep 22 09:42 .ssh
-rw-r--r-- 1 user user  7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user  0 Sep 22 09:44 2020-09-22-124414.term
-rw-r--r-- 1 user user  0 Sep 22 09:43 'welcome to CoCalc.term'
~$ mkdir
mkdir: missing operand
Try 'mkdir --help' for more information.
~$ man mkdir
~$ mkdir ABC
~$ ls
2020-09-22-124313  2020-09-22-124414.term  ABC  'welcome to CoCalc.term'
~$ ls -l
total 3
-rw-r--r-- 1 user user 7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user 0 Sep 22 09:44 2020-09-22-124414.term
drwxr-xr-x 2 user user 2 Sep 22 09:47 ABC
-rw-r--r-- 1 user user 0 Sep 22 09:43 'welcome to CoCalc.term'
~$ tree
.
├── 2020-09-22-124313
├── 2020-09-22-124414.term
├── ABC
└── welcome to CoCalc.term

1 directory, 3 files
~$ cd ABC
~/ABC$ pwd
/home/user/ABC
~/ABC$ sh
$ pwd
/home/user/ABC
```


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```
-rw-r--r-- 1 user user 918 Sep 15 09:44 .gitexcludes
-rw-r--r-- 1 user user 8192 Sep 15 09:44 .jupyter-blobs-v0.db
drwxr-xr-x 2 user user  2 Sep 15 09:44 .sage
lrwxrwxrwx 1 user user 12 Sep 22 09:42 .smc -> /tmp/.cocalc
dr-xr-xr-x 2 user user  2 Sep 22 09:55 .snapshots
drwxr-xr-x 2 user user  3 Sep 22 09:42 .ssh
-rw-r--r-- 1 user user  7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user  0 Sep 22 09:44 2020-09-22-124414.term
drwxr-xr-x 2 user user  2 Sep 22 09:47 ABC
-rw-r--r-- 1 user user  0 Sep 22 09:43 'welcome to CoCalc.term'

~$ cd .
~$ pwd
/home/user
~$ cd ..
/home$ pwd
/home
/home$ ls -la
total 10
drwxr-xr-x 1 root root 4096 Sep 21 13:38 .
drwxr-xr-x 1 root root 4096 Sep 22 09:42 ..
drwxr-xr-x 7 user user  19 Sep 22 09:47 user
/home$ tree
.
├── user
│   ├── 2020-09-22-124313
│   ├── 2020-09-22-124414.term
│   ├── ABC
│   └── welcome to CoCalc.term
2 directories, 3 files
/home$ ls -la
total 10
```

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```
drwxr-xr-x 1 root root 4096 Sep 21 13:38 .
drwxr-xr-x 1 root root 4096 Sep 22 09:42 ..
drwxr-xr-x 7 user user  19 Sep 22 09:47 user
/home$ cd ..
/$ pwd
/
/$ ls
bin boot cocalc dev etc ext home lib lib32 lib64 libx32 media mnt opt proc root run sbin secrets srv sys tmp usr var
/$ ls -ll
total 32
drwxr-xr-x  1 root root 87236 Sep 20 08:30 bin
drwxr-xr-x  2 root root  4096 Apr 24  2018 boot
drwxr-xr-x  1 root root  4096 Sep 21 13:38 cocalc
drwxr-xr-x  5 root root   360 Sep 22 09:42 dev
drwxr-xr-x  1 root root  4896 Sep 21 08:35 etc
drwxr-xr-x  1 root root   232 Sep 21 08:52 ext
drwxr-xr-x  1 root root  4096 Sep 21 13:38 home
drwxr-xr-x  1 root root 17768 Sep 20 08:30 lib
drwxr-xr-x  1 root root  2422 May 27 12:25 lib32
drwxr-xr-x  1 root root    40 May 25 12:51 lib64
drwxr-xr-x  1 root root  2544 May 27 12:25 libx32
drwxr-xr-x  2 root root  4096 Sep  3 22:39 media
drwxr-xr-x  2 root root  4096 Sep  3 22:39 mnt
drwxr-xr-x  1 root root    64 Jul 30 12:41 opt
dr-xr-xr-x 1534 root root    0 Sep 22 09:42 proc
drwx----- 2 root root  4096 Sep  3 22:40 root
drwxr-xr-x  1 root root  4096 Sep 21 13:38 run
drwxr-xr-x  1 root root  8994 Sep 18 12:56 sbin
drwxr-xr-x  4 root root  4096 Sep 22 09:42 secrets
drwxr-xr-x  1 root root    0 Apr 23 11:06 srv
dr-xr-xr-x 13 root root    0 Sep 22 09:42 sys
drwxrwxrwt  5 root root   100 Sep 22 10:00 tmp
```

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```
/$ cd ..
/$ pwd
/
/$ cd /home/user/
~$ cd ~
~$ cd
~$ pwd
/home/user
~$ ls -l
total 3
-rw-r--r-- 1 user user 7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user 0 Sep 22 09:44 2020-09-22-124414.term
drwxr-xr-x 2 user user 2 Sep 22 09:47 ABC
-rw-r--r-- 1 user user 0 Sep 22 09:43 'welcome to CoCalc.term'
~$ rmdir ABC
~$ ls -l
total 2
-rw-r--r-- 1 user user 7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user 0 Sep 22 09:44 2020-09-22-124414.term
-rw-r--r-- 1 user user 0 Sep 22 09:43 'welcome to CoCalc.term'
~$ rmdir 2020-09-22-124313
rmdir: failed to remove '2020-09-22-124313': Not a directory
~$ ls -l
total 2
-rw-r--r-- 1 user user 7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user 0 Sep 22 09:44 2020-09-22-124414.term
-rw-r--r-- 1 user user 0 Sep 22 09:43 'welcome to CoCalc.term'
~$ h^C
~$ ls
2020-09-22-124313 2020-09-22-124414.term 'welcome to CoCalc.term'
~$ ls -l
total 2
```

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```
-rw-r--r-- 1 user user 7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user 0 Sep 22 09:43 'welcome to CoCalc.term'
~$ cat b.txt
68962
~$ echo abcd >> b.txt
~$ ls -lt
total 4
-rw-r--r-- 1 user user 11 Sep 22 10:16 b.txt
drwxr-xr-x 2 user user  2 Sep 22 10:06 a.txt
-rw-r--r-- 1 user user  0 Sep 22 09:44 2020-09-22-124414.term
-rw-r--r-- 1 user user  7 Sep 22 09:44 2020-09-22-124313
-rw-r--r-- 1 user user  0 Sep 22 09:43 'welcome to CoCalc.term'
~$ cat b.txt
68962
abcd
~$ hexdump -C b.txt
00000000 36 38 39 36 32 0a 61 62  63 64 0a                |68962.abcd.|
0000000b
~$ history
 1 wBeginner
 2 whoami
 3 uname
 4 uname -a
 5 una
 6 uname
 7 man uname
 8 s
 9 sh
10 ls-l
11 ls -ll
12 ls - ll
13 ls - l
```

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```
14 ls -l -a
15 ls -al
16 pwd
17 pwd
18 cd.
19 cd .
20 pwd
21 ls -la
22 history
23 whoami
24 pwd
25 ls - l
26 ls -
27 ls -l
28 ls -a
29 ls -la
30 mkdir
31 man mkdir
32 mkdir ABC
33 ls
34 ls -l
35 tree
36 cd ABC
37 pwd
38 sh
39 ls -la
40 pwd
41 cd .
42 pwd
43 cd ..
44 pwd
45 whoami
```


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```
44 pwd
45 whoami
46 ls -l
47 ls -la
48 cd .
49 pwd
50 cd ..
51 pwd
52 ls -la
53 tree
54 ls -la
55 cd ..
56 pwd
57 ls
58 ls -ll
59 cd .
60 pwd
61 cd ..
62 pwd
63 cd /home/user/
64 cd ~
65 cd
66 pwd
67 ls -l
68 mkdir ABC
69 ls -l
70 mkdir 2020-09-22-124313
71 ls -l
72 ls
73 ls -l
74 ls -lt
75 cat a.txt
```

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```
76 dir a.txt
77 mkdir a.txt
78 ls -lt
79 echo
80 echo hiiiiiii
81 man echo
82 echo 123466 >b.txt
83 ls -lt
84 cat b.txt
85 hexdump -c b.txt
86 hexdump -C b.txt
87 echo 68962 > b.txt
88 ls -lt
89 cat b.txt
90 echo abcd >> b.txt
91 ls -lt
92 cat b.txt
93 hexdump -C b.txt
94 history
~$ GNU nano
bash: GNU: command not found
~$ nano
~$ nano
~$
~$
~$ nano c.txt
~$
~$
~$ cat c.txt
```

FileFindPauseClipboardTerminalHelp>_~

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```
~$ rm *.txt
~$ ls -lt
total 5
-rw-r--r-- 1 user user  0 Sep 22 10:53 2020-09-22-124414.term
-rwxr--r-- 1 user user 37 Sep 22 10:46 my_script.sh
-rw-r--r-- 1 user user  0 Sep 22 10:39 'welcome to CoCalc.term'
-rw-r--r-- 1 user user 38 Sep 22 10:21 'rm x, m, Z,`'
drwxr-xr-x 2 user user  2 Sep 22 10:06 a.text
-rw-r--r-- 1 user user  7 Sep 22 09:44 2020-09-22-124313
~$ rm *.tx*
rm: cannot remove '*.tx*': No such file or directory
~$ ls -lt
total 5
-rw-r--r-- 1 user user  0 Sep 22 10:53 2020-09-22-124414.term
-rwxr--r-- 1 user user 37 Sep 22 10:46 my_script.sh
-rw-r--r-- 1 user user  0 Sep 22 10:39 'welcome to CoCalc.term'
-rw-r--r-- 1 user user 38 Sep 22 10:21 'rm x, m, Z,`'
drwxr-xr-x 2 user user  2 Sep 22 10:06 a.text
-rw-r--r-- 1 user user  7 Sep 22 09:44 2020-09-22-124313
~$ nano my_script.sh

Use "fg" to return to nano.

[1]+  Stopped                  nano my_script.sh
~$ nano my_script.sh

Use "fg" to return to nano.

[2]+  Stopped                  nano my_script.sh
~$ ~$ ~$ █
```