# fd Fast file finder

## CONCEPTS

fd searches names, not contents, and skips hidden files and anything in .gitignore by default. .gitignore is only honored inside a git repo. If a file you know exists is missing, try fd -u. Debian/Ubuntu install the binary as fdfind.

**Walk tree** current dir
↓ skip hidden + ignored
**Match name** regex, smart case
↓ -e -t -S filters
**Filter** type, size, age
↓ -x / -X
**Print or run** parallel

Smart case: an all-lowercase pattern ignores case, any capital makes it case-sensitive. Force it with -s or -i.

## SEARCHING

**fd**
List everything below the current directory

**fd** *<pattern>*
Names matching a regex

**fd** *<pattern>* *<dir>* **[***<dir>***]**
Search in given directories

**fd -g '***<glob>***'**
Match with a glob pattern

**fd -p '***<regex>***'**
Match against the full path

**fd -s** *<pattern>*
Force case-sensitive

**fd -i** *<pattern>*
Force case-insensitive

## FILTERS

**fd -e** *<ext>*
Only this extension

**fd -e** *<ext>* *<pattern>*
Extension plus name pattern

**fd -t f**
Regular files only

**fd -t d**
Directories only

## FILTERS (cont.)

**fd -d** *<n>* *<pattern>*
Limit search depth

**fd -S +***<size>*
Files larger than size, e.g. +10M

**fd --changed-within** *<dur>*
Modified recently, e.g. 2d or 1h

**fd -E '***<glob>***'**
Exclude matching paths

## HIDDEN AND IGNORED

**fd -H** *<pattern>*
Include hidden files

**fd -I** *<pattern>*
Do not respect ignore files

**fd -u** *<pattern>*
Unrestricted: same as -HI

## OUTPUT

**fd -a** *<pattern>*
Print absolute paths

**fd -0** *<pattern>*
NUL-separated output

## RUNNING COMMANDS

**fd -e** *<ext>* **-x** *<cmd>*
Run cmd once per result, in parallel

**fd -e** *<ext>* **-X** *<cmd>*
Run cmd once with all results

**fd -x** *<cmd>* **{}**
Placeholder: full path

**fd -x** *<cmd>* **{/}**
Placeholder: file name

**fd -x** *<cmd>* **{.}**
Placeholder: path without extension

## FD VS FIND

**Equivalents**

| find ... | fd ... |
|---|---|
| `-iname '*foo*'` | `fd foo` |
| `-name '*.md'` | `fd -e md` |
| `-type f` | `fd -t f` |
| `-mtime -2` | `--changed-within 2d` |
| `-exec c {} \;` | `fd -x c` |
| `-exec c {} +` | `fd -X c` |