sd Simple find and replace

CONCEPTS

Files are rewritten in place with no undo: run -p first, or work in a git repo.

Input files or stdin
↓ line by line
Regex find Rust syntax
↓ $1, $name
Replacement $$ = literal $
↓ in place / stdout
Output file or stdout

Unlike sed, the pattern is a regex by default and every match is replaced: no s///g, no delimiters to escape.

Default mode reads one line at a time, so a pattern cannot contain a newline until you add -A.

BASICS

`sd <find> <replace> <file>...`
Replace all matches, editing files in place

`<cmd> | sd <find> <replace>`
Read stdin, write the result to stdout

`sd <find> <replace> < <file>`
Print the result without touching the file

`sd -p <find> <replace> <file>`
Preview the changes in a reviewable form

`sd -F <text> <replace>`
Treat find and replace as plain strings

`sd -n <count> <find> <replace>`
Limit replacements per file (0 = no limit)

`sd -A <find> <replace>`
Process input as a whole, allow multi-line matches

`sd -- <find> <replace>`
End options so a leading - is not a flag

PATTERNS

`sd '\s+$' ''`
Trim trailing whitespace

`sd '^\s+' ''`
Trim leading whitespace

`sd '\d+' '<n>'`
Replace every run of digits

PATTERNS (cont.)

`sd '\.' ','`
Escape regex metacharacters with a backslash

REPLACEMENT

`sd '(\w+) (\w+)' '$2 $1'`
Swap two words with numbered groups

`sd '(?P<k>\w+)=(?P<v>\w+)' '$v=$k'`
Named groups, referenced as $name

`sd '(\w+)' '${1}_x'`
Braces end the group name: ${1}_x

`sd foo '$$bar'`
Write a literal $ as $$

REGEX FLAGS

`sd -f i <find> <replace>`
Case-insensitive

FILES AND PIPELINES

`sd <find> <replace> <f1> <f2>`
Several files in one call

`fd -t f -x sd <find> <replace>`
Replace across a project with fd

`rg -l <find> | xargs sd <find> <replace>`
Touch only files that match

`echo <text> | sd <find> <replace>`
Test a pattern on a sample line

FROM SED

sed to sd

sed	sd
`sed 's/a/b/g'`	`sd a b`
`sed -i 's/a/b/g' f`	`sd a b f`
`sed -E 's/(a)(b)/\2\1/'`	`sd '(a)(b)' '$2$1'`
`sed 's/a/b/'`	`sd -n 1 a b`
`sed 's/a/b/I'`	`sd -f i a b`
`sed 'N;s/\n/,/'`	`sd -A '\n' ','`
`sed -n '/x/p'`	not supported: use rg or grep

sd only does find and replace: no line addressing, deletion by line number, or scripts. Reach for sed or awk for those.