







Sed

Sed is a stream editor, this sed cheat sheet contains sed commands and some common sed tricks.

Getting started

Sed Usage

Syntax

\$ sed [options] command [input-file]

With pipeline

\$ cat report.txt | sed 's/Nick/John/g'

\$ echo '123abc' | sed 's/[0-9]+//g'

		Option Examples
Option	Example	Description
-i	sed -ibak 's/On/Off/' php.ini	Backup and modify input file directly
-E	sed -E 's/[0-9]+//g' input-file	Use extended regular expressions
-n	sed -n '3 p' config.conf	Suppress default pattern space printing
-f	sed -f script.sed config.conf	Execute sed script file
-e	sed -e 'command1' -e 'command2' input-file	Execute multiple sed commands

Multiple commands

\$ echo "hello world" | sed -e 's/h/H/g' -e 's/w/W/g'
Hello World

Use -e to execute multiple sed commands

Sed script

```
$ echo 's/h/H/g' >> hello.sed
$ echo 's/w/W/g' >> hello.sed
$ echo "hello world" | sed -f hello.sed
Hello World
```

Use -f to execute sed script file

Examples

```
$ sed 's/old/new/g' file.txt
$ sed 's/old/new/g' file.txt > new.txt
$ sed 's/old/new/g' -i file.txt
$ sed 's/old/new/g' -i.backup file.txt
```

See: Sed examples

Sed commands

		Commands
Command	Example	Description
p	sed -n '1,4 p' input.txt	Print lines 1-4
р	sed -n -e '1,4 p' -e '6,7 p' input.txt	Print lines 1-4 and 6-7
d	sed '1,4 d' input.txt	Print lines except 1-4
W	sed -n '1,4 w output.txt' input.txt	Write pattern space to file
a	sed '2 a new-line' input.txt	Append line after
i	sed '2 i new-line' input.txt	Insert line before

	Space commands
n	Print pattern space, empty pattern space, and read next line
X	Swap pattern space with hold space
h	Copy pattern space to hold space
Н	Append pattern space to hold space

g	Copy hold space to pattern space
G	Append hold space to pattern space
See also: File spacing	
	Flags
<pre>\$ sed 's/old/new/[flags]' [input-file</pre>	÷]
g	Global substitution
1,2	Substitute the nth occurrence
р	Print only the substituted line
W	Write only the substituted line to a file
I	Ignore case while searching
е	Substitute and execute in the command line
	Loops commands
b label	Branch to a label (for looping)
t label	Branch to a label only on successful substitution (for looping)
:label	Label for the b and t commands (for looping)
N	Append next line to pattern space
P	Print 1st line in multi-line
D	Delete 1st line in multi-line
	Misc Flags
/ ^ @ ! #	Substitution delimiter can be any character
&	Gets the matched pattern
() \1 \2 \3	Group using (and). Use $\1$, $\2$ in replacement to refer the group

Sed examples Replacing text Replace all occurrences of a string \$ sed 's/old/new/g' file.txt Replace only the nth occurrence of a string \$ sed 's/old/new/2' file.txt Replace replace a string only on the 5th line \$ sed '5 s/old/new/' file.txt Replace "world" with "universe" but only if the line begins with "hello" \$ sed '/hello/s/world/universe/' file.txt Remove "" from the end of each line \$ sed 's/\\\$//' file.txt Remove all whitespace from beginning of each line \$ sed 's/^\s*//' file.txt Remove comments. Even those that are at the end of a line \$ sed 's/#.*\$//' file.txt Search for text Search for a string and only print the lines that were matched \$ sed -n '/hello/p' file.txt Case insensitive search

\$ sed -n '/hello/Ip' file.txt

Search for a string but only output lines that do not match

```
$ sed -n '/hello/!p' file.txt
                                                                             Appending lines
Append line after line 2
$ sed '2a Text after line 2' file.txt
Append line at the end of the file
$ sed '$a THE END!' file.txt
Append line after every 3rd line starting from line 3
$ sed '3~3a Some text' file.txt
                                                                                 Numbering
Number line of a file (simple left alignment)
\$ sed = file.txt | sed 'N;s/\n/\t/'
Number line of a file (number on left, right-aligned)
$ sed = file.txt | sed 'N; s/^/ /; s/ * (. \{6, \}) n/1 /'
Number line of file, but only print numbers if line is not blank
$ sed '/./=' file.txt | sed '/./N; s/\n/ /'
Count lines (emulates "wc -l")
$ sed -n '$='
                                                                             Prepending lines
Insert text before line 5
$ sed '5i line number five' file.txt
Insert "Example: " before each line that contains "hello"
```

→ Sea \[\text{IIETTO\T Example: ITTE'CXC} \] Deleting lines Delete line 5-7 in file \$ sed '5,7d' file.txt Delete every 2nd line starting with line 3 \$ sed '3~2d' file.txt Delete the last line in file \$ sed '\$d' file.txt Delete lines starting with "Hello" \$ sed '/^Hello/d' file.txt Delete all empty lines \$ sed '/^\$/d' file.txt Delete lines starting with "#" \$ sed '/^#/d' file.txt File spacing Double space \$ sed G Delete all blank lines and double space \$ sed '/^\$/d;G' Triple space a file \$ sed 'G;G' Undo double-spacing

\$ sed 'n;d'

Insert a blank line above line which matches "regex"

\$ sed '/regex/{x;p;x;}'

Insert a blank line below line which matches "regex"

\$ sed '/regex/G'

Insert a blank line around line which matches "regex"

\$ sed '/regex/{x;p;x;G;}'

See also

sed cheatsheet (gist.github.com)

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